

**PROCEEDINGS OF THE ZOOLOGICAL INSTITUTE
OF THE RUSSIAN ACADEMY OF SCIENCES**

**ANNOTATED CATALOGUE
OF THE HYMENOPTERA OF RUSSIA**

VOLUME II

APOCRITA: PARASITICA



SUPPLEMENT № 8, 2019



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Edited by S.A. Belokobylskij and A.S. Lelej

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РОССИЙСКОЙ АКАДЕМИИ НАУК

ПРИЛОЖЕНИЕ № 8

**АННОТИРОВАННЫЙ КАТАЛОГ
ПЕРЕПОНЧАТОКРЫЛЫХ НАСЕКОМЫХ РОССИИ**

ТОМ II

**НАЕЗДНИКИ-ПАРАЗИТОИДЫ
(APROCITA: PARASITICA)**



САНКТ-ПЕТЕРБУРГ
2019

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(AROCRITA: PARASITICA)

Под общей редакцией С.А. Белокобыльского и А.С. Лелея

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УДК 595.79 (470+571)

ANNOTATED CATALOGUE OF THE HYMENOPTERA OF RUSSIA. VOLUME II. APOCRITA: PARASITICA

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ABSTRACT

Hymenoptera is one of the largest insect orders, with a world fauna approximately of 160 thousand species in more than 8420 genera from 94 extant families, a Palaearctic fauna of 50–60 thousand estimated species, and a Russian fauna of 15.3 thousand species in 1999 genera from 78 families. The modern classification of Hymenoptera is given. The second volume treats the all recent groups of parasitoids (11 superfamilies, 43 families, 1466 genera, about 10.6 thousand species) recorded in the fauna of Russia. The sections for each of the 43 families include characteristics, number of taxa, references, and an annotated catalogue of the genera and species (subspecies) recorded from the fauna of Russia. For each valid genus, the type species, synonymy, short characterization, and number of species are given. For each valid species the synonymy, known host (often to genus or family level only) or sometimes host plants and distribution (in Russia and in general) are provided. The book is illustrated using geoschemes for Russia, Europe, and China. The large bibliography helps to assess the level of study of each family. The index of scientific names of Hymenoptera (more than 21 thousand names) will be useful for parasitoid taxa searching.

Key words: parasitoids, entomophagues, Stephanoidea, Evanioidea, Ceraphronoidea, Trigonalioidea, Proctotrupoidea, Diaprioidea, Platygastroidea, Cynipoidea, Chalcidoidea, Mymarommatoidea, Ichneumonoidea

АННОТИРОВАННЫЙ КАТАЛОГ ПЕРЕПОНЧАТОКРЫЛЫХ НАСЕКОМЫХ РОССИИ. ТОМ II. НАЕЗДНИКИ-ПАРАЗИТОИДЫ (APOCRITA: PARASITICA)

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РЕЗЮМЕ

Перепончатокрылые – один из самых больших отрядов насекомых, который насчитывает в мире приблизительно 160 тыс. видов, более 8420 родов из 94 рецентных семейств; в Палеарктике ожидаются 50–60 тыс. видов, а в России отмечены 15.3 тыс. видов из 1999 родов и 78 семейств. Приведена современная классификация отряда Hymenoptera. Второй том включает все рецентные группы наездников-паразитоидов (11 надсемейств, 43 семейства, 1466 родов, около 10.6 тысяч видов), отмеченных в фауне России. Каждый раздел каталога (43

семейства) содержит краткую характеристику, число таксонов, список основной литературы и аннотированный каталог родов и видов (подвидов), известных из России. Для каждого валидного рода приведены типовой вид, синонимия, краткая характеристика и число видов. Для каждого валидного вида приведены род его первоначального описания, синонимия, известные хозяева (в основном до уровня родов и семейств) и (в ряде случаев) кормовые растения, а также распространение (на территории России и общее). Книга иллюстрирована схематическими картами России, Европы и Китая. Большая библиография дает представление о степени изученности каждого семейства. Указатель латинских названий перепончатокрылых (в целом свыше 21 тысячи названий) должен облегчить поиск необходимых названий паразитоидов.

Ключевые слова: паразитоиды, энтомофаги, Stephanoidea, Evanioidea, Ceraphronoidea, Trigonalioidea, Proctotrupoidea, Diaprioidea, Platygastroidea, Cynipoidea, Chalcioidea, Мymarommatoidea, Ichneumonoidea

CITATION OF THE WHOLE CATALOGUE:

Belokobylskij S.A., Samartsev K.G., Il'inskaya A.S. (Eds). 2019. *Annotated catalogue of the Hymenoptera of Russia. Volume II. Apocrita: Parasitica.* Proceedings of the Zoological Institute Russian Academy of Sciences. Supplement 8. Zoological Institute RAS, St Petersburg, 594p.

CITATION OF THE CATALOGUE SECTION (EXAMPLE):

Kosheleva O.V., Egorenkova E.N., Kostjukov V.V., Trjapitzin V.A. 2019. Family Eulophidae. *In:* Belokobylskij S.A., Samartsev K.G., Il'inskaya A.S. (Eds). *Annotated catalogue of the Hymenoptera of Russia. Volume II. Apocrita: Parasitica. Proceedings of the Zoological Institute Russian Academy of Sciences. Supplement 8.* Zoological Institute RAS, St Petersburg: 152–182.

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PREFACE

S.A. BELOKOBYLSKIY AND A.S. LELEJ

Hymenoptera is one of the largest insect orders, with about 160 thousand species in 8423 genera from 94 extant families in the world fauna (Aguilar et al., 2013). Probably Hymenoptera in total includes 250–300 thousand species (Rasnitsyn, 2002; Gauld, Bolton, 1988). According to our estimation, the Palaearctic fauna has about 50–60 thousand species; in Russia there are 15290 species in 1999 genera from 78 recent families of Hymenoptera.

The Annotated Catalogue of Hymenoptera of Russia is based on six Hymenoptera books of the series “Keys to the insects of the European part of the USSR” (1978a, 1978b, 1981, 1986a, 1986b, 1988), which treat 10748 recorded and potentially occurring species in 1938 genera, and five Hymenoptera books of the series “Keys to the insects of the Russian Far East” (1995a, 1995b, 1998, 2000, 2007), which include 8848 recorded and potentially occurring species in 1589 genera, as well as numerous papers published in the last decades. The last catalogue of Hymenoptera of the Russian Far East (Lelej et al., 2012) includes 7503 recorded species in 1363 genera from 69 families. Among the 78 families of Hymenoptera so far recorded from Russia, Evaniidae, Agaonidae, Signiphoridae, Bradynobaenidae and Ampulicidae are known to occur only in the European part of the country, while the distribution of Roproniidae, Proctorenyxidae and Vanhorniidae is as yet limited to the south of the Russian Far East.

The significance of such catalogues is in uniting comprehensive information about contents, biological peculiarity and distribution of the insect fauna of a country of interest. They are also extremely important for the development of the Russian national insect collections.

Published in 2017, the first volume of the Catalogue treats the sawflies (13 families, 170 genera and 1546 species), aculeate wasps (15 families, 253 genera and 1695 species), ants (1 family, 44 genera and 264 species), and bees (6 families, 66 genera and 1216 species); their total number in Russia is 4721 species in 533 genera. Sections for each of 35 families included brief outline, number of taxa, references, and annotated catalogues of genera and species recorded in Russia.

The second volume of the Catalogue includes only parasitoid families (Apocrita: Parasitica): 11 superfamilies, 43 families, 1466 genera and 10569 species.

For each valid genus, the type species, synonymy, a brief characteristic, and number of species are given. For each valid species, synonymy, known hosts and host plants (often

to genus or family levels), and distribution (in Russia and in general) are provided. The book is illustrated by geoschemes for Russia, Europe, and China (Figs 1–3). Information about the distribution of included taxa in the Republic of Crimea was added by the decision of the Editorial Board of the Catalogues.

The boundary of Russia and the adjacent countries is given in geoscheme (Fig. 1) using abbreviations. For better understanding of the species distributions, geoschemes of Europe (Fig. 2) and China (Fig. 3) are also provided. For most families and genera, the current (as of November 2019) number of valid species in the World is given, followed by that in the Palaearctic region and Russia. For the species distribution, the Russian regions are listed first, followed by Europe and other countries (regions) in the following order: Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (TM, OM, TK, NS, KM, AL), **ES** (KS, TU, KR, IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA, MG, CH). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan (or Caucasus – for all of the last three countries), Turkey, Syria, Iraq, Jordan, Lebanon, Israel, Iran, Afghanistan, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan (or Central Asia – for all of the last four countries), Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu, Ryu), N America, India, SE Asia, Africa, S America, Australia. The names of countries and Russian regions are given according to the All-Russian classifier of the countries of the world (<http://klassifikators.ru/oksm>), and English names of the Russian regions follows Gorskaya (1994).

Geoscheme for Europe according to United Nations geoscheme for Europe (https://en.wikipedia.org/wiki/United_Nations_geoscheme_for_Europe), includes the United Kingdom and Republic of Ireland in Western Europe and excludes Turkey and Kazakhstan (Fig. 2). Western Europe (WE): Austria, Belgium, France, Germany, Republic of Ireland, Liechtenstein, Luxemburg, Monaco, Netherlands, Switzerland, United Kingdom; Northern Europe (NE): Denmark, Estonia, Finland, Iceland, Latvia, Lithuania, Norway, Sweden; Southern Europe (SE): Albania, Andorra, Bosnia and Herzegovina, Croatia, Greece, Italy, North Macedonia, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain; Eastern Europe (EE): Belarus, Bulgaria, Czech Republic, Hungary, Moldova, Poland, Romania, Slovakia, Ukraine; European part of Russia (treated separated from other countries of EE in the structure of the whole Russian Federation). Codes for the names of countries follow the standard of the International Organization for Standardization (ISO 3166-1 alpha-2).



Fig. 1. Geoscheme for Russia. **EUROPEAN PART (RUEP = EP):** North (N): Murmansk Prov., Arkhangelsk Prov., Karelian Rep., Vologda Prov., Komi Rep.; North-West (NW): Kaliningrad Prov., Leningradskaya Prov., Pskov Prov., Novgorod Prov.; Centre (C): Tver Prov., Yaroslavl Prov., Kostroma Prov., Smolensk Prov., Moscow Prov., Vladimir Prov., Ivanovo Prov., Nizhniy Novgorod Prov., Kaluga Prov., Tula Prov., Ryazan Prov., Mordovian Rep., Bryansk Prov., Orel Prov., Lipetsk Prov., Tambov Prov., Penza Prov., Kursk Prov., Belgorod Prov., Voronezh Prov.; East (E): Kirov Prov., Udmurt Rep., Mari El Rep., Chuvash Rep., Tatar Rep., Ulyanovsk Prov., Samara Prov., Saratov Prov.; South (S): Rostov Prov., Volgograd Prov., Kalmyk Rep., Astrakhan Prov.; North Caucasus (NC): Krasnodar Terr., Stavropol Terr., Adygei Rep., Karachayevo-Cherkess Rep., Ingush Rep., Kabardino-Balkarian Rep., North Ossetian Rep., Chechen Rep., Dagestan Rep.; Crimea (CR): Crimea Rep., Sebastopol. **URAL (UR):** Perm Terr., Sverdlovskaya Prov., Bashkir Rep., Chelyabinsk Prov., Orenburg Prov., Kurgan Prov. **WESTERN SIBERIA (WS):** Tyumen Prov. (TM), Omsk Prov. (OM), Tomsk Prov. (TK), Novosibirsk Prov. (NS), Kemerovo Prov. (KM), Altai (AL) (including Altai Rep. and Altai Terr.). **EASTERN SIBERIA (ES):** Khakass Rep. (KS), Tuva Rep. (TU), Krasnoyarsk Terr. (KR), Irkutsk Prov. (IR), Buryat Rep. (BR), Yakutsk Rep. (YA), Zabaykalskiy Terr. (ZB); **FAR EAST (FE):** Amur Prov. (AM), Khabarovsk Terr. (including Jewish Autonomous Region) (KH), Primorskiy Terr. (PR), Sakhalin (SA), Kuril Islands (KU), Kamchatka Terr. (KA), Magadan Prov. (MG), Chukot Autonomous Area (CH). **Other countries:** AM – Armenia; AZ – Azerbaijan; BY – Belarus; CN – China; EE – Estonia; FI – Finland; GE – Georgia; IR – Iran; JP – Japan; KP – North Korea (Democratic People's Republic of Korea); KZ – Kazakhstan; LT – Lithuania; LV – Latvia; MN – Mongolia; NO – Norway; PL – Poland; RU – Russia (Kaliningrad Prov.); SE – Sweden; SY – Syria; TR – Turkey; UA – Ukraine; UZ – Uzbekistan.

Acknowledgments

We are very thankful to Dr Sergey Yu. Sinev and Academician Oleg N. Pugachev for their comprehensive support of our work on the Catalogue, Professor Alexander P. Rasnitsyn (Paleontological Institute, Moscow, Russia) and Professor Xue-Xin Chen (Zhejiang University, Hangzhou, P.R. China) for critically reviewing the manuscript and making important suggestions which have improved it. We are grateful to Dr Alexandra P. Sorokina for the help

with preparing of the Trichogrammatidae section; Dr Mark Shaw (Edinburgh, UK) and Gavin Broad (London, UK) for the control of the English introductions of the parasitoid families. The work was supported by the Russian Foundation for Basic Research (№№ 15-29-02466, 17-04-00259, 18-04-00611, 18-34-00099 мол_a, 18-34-00088 мол_a, 19-04-00027), the State Program "Biodiversity of Natural Systems and Biological Resources of Russia" and the Russian State Research Projects nos AAAA-A16-116021660101-5 and AAAA-A19-119020690101-6.

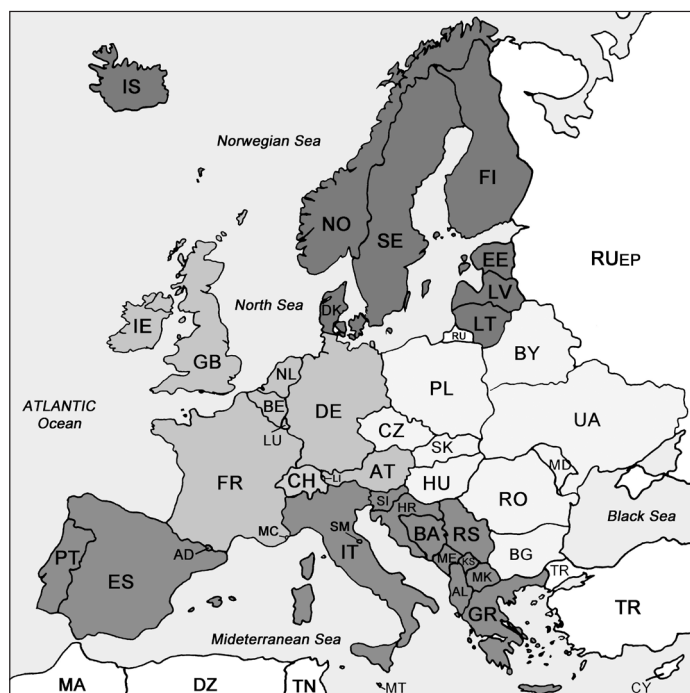


Fig. 2. Geoscheme for Europe. *European countries:* AD – Andorra; AL – Albania; AT – Austria; BA – Bosnia and Herzegovina; BE – Belgium; BG – Bulgaria; BY – Belarus; CH – Switzerland; CZ – Czech Republic (Czechia); DE – Germany; DK – Denmark; EE – Estonia; ES – Spain; FI – Finland; FR – France; GB – United Kingdom; GR – Greece; HR – Croatia; HU – Hungary; IE – Republic of Ireland; IS – Iceland; IT – Italy; KS – Kosovo; LI – Liechtenstein; LT – Lithuania; LU – Luxembourg; LV – Latvia; MC – Monaco; MD – Moldova; ME – Montenegro; MK – North Macedonia; MT – Malta; NL – Netherlands; NO – Norway; PL – Poland; PT – Portugal; RO – Romania; RS – Serbia; RUEP – Russian Federation (European part); SE – Sweden; SI – Slovenia; SM – San-Marino; SK – Slovakia; UA – Ukraine. *Other countries:* CY – Cyprus; DZ – Algeria; MA – Morocco; TN – Tunisia; TR – Turkey. Codes for the names of countries follow the standard of the International Organization for Standardization (ISO 3166-1 alpha-2).

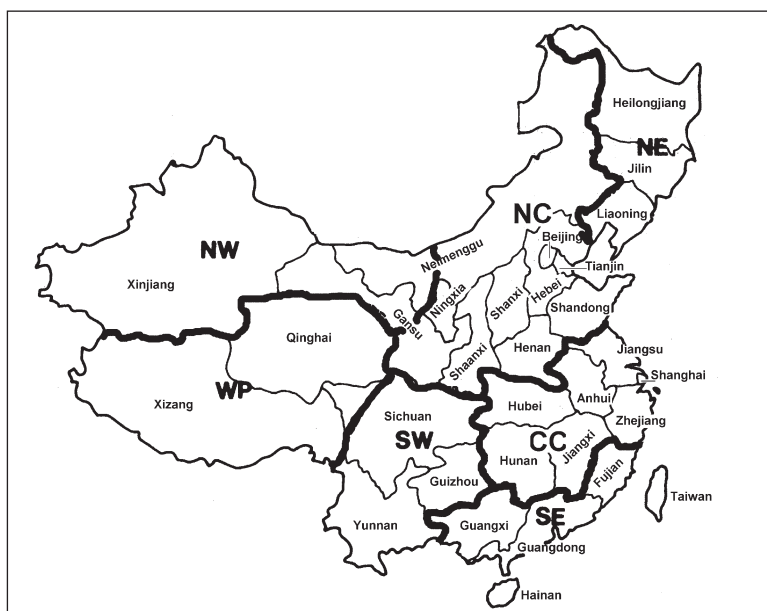


Fig. 3. Geoscheme for China. *Regions of China:* Northeastern Territory (NE), Northern Territory (NC), Northwestern Territory (NW), Central Territory (CC), Southwestern Territory (SW), the Western Plateau (WP), Southeastern Territory (SE).

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ORDER HYMENOPTERA

INTRODUCTION

A.S. LELEJ AND S.A. BELOKOBYLSKIY

The second volume of the Annotated Catalogue of the Hymenoptera of Russia (Table) treats all recent groups of parasitoids (11 superfamilies, 43 families, 1466 genera, 10569 species) recorded in the fauna of Russia. The large bibliography helps to document the level of knowledge of each family. The index of Latin names of Hymenoptera (more than 21 000 names total) can be useful for searching particular taxa.

The Russian fauna of three subfamilies of Ichneumonidae, Campopleginae (41 genera and about 355 species), Cryptinae (83 genera and about 350 species) and Ichneumoninae (109 genera and about 550 species), is very poorly known and contains many records requiring verification. As a result, the lists of taxa for these subfamilies recorded in Russia is absent in the Catalogue and only brief summaries with approximate numbers of taxa are given.

Classification

In this book we followed the classification of Hymenoptera as proposed by Sharkey (2007) and Sharkey et al. (2011) for higher-level groupings and the survey of taxonomic richness by Aguiar et al. (2013), complemented by recent new descriptions (Yu, 2012; Li et al., 2013; Engel et al., 2013, 2016a, 2016b; Engel 2015; Rodriguez et al., 2016; Rasnitsyn et al., 2017, 2019; Wang et al., 2017; Zhang et al., 2017, 2018; Haas et al., 2018; Rasnitsyn, Öhm-Kühnle, 2019). Also used were the classifications by Rasnitsyn (1988) and Rasnitsyn, Zhang (2010) regarding the infraorders.

The families recorded from Russia are numbered: these numbers give the order in which they are placed in the taxonomic part of this catalogue (the families of Symphyta and Apocrita–Aculeata with already published data are cited with the numbers of the volume and pages in the list); these are marked by a bullet (•) if they are not recorded in Russia, and by a special symbol (†) if they are fossil. The chalcidoid family Cynipencyrtidae Trjapitzin, 1973 from the first volume of the Catalogue was recorded for the Russian fauna erroneously, instead of it the family Eriaporidae Ghesquière, 1955 was found here.

Suborder SYMPHYTA

Xyelomorpha

Xyeloidea Newman, 1834

1. Xyelidae Newman, 1834 – **I: 20**

† Sypastoxyelidae Engel et Huang, 2016

Tenthredinomorpha

Tenthredinoidea Latreille, 1803

† Electrotomidae Rasnitsyn, 1977

† Xyelotomidae Rasnitsyn, 1968

2. Argidae Konow, 1890 – **I: 22**

• Pergidae Rohwer, 1911

3. Blasticotomidae Thomson, 1871 – **I: 27**

4. Cimbicidae W. Kirby, 1837 – **I: 28**

5. Diprionidae Rohwer, 1910 – **I: 33**

6. Heptamelidae Benson, 1938 – **I: 36**

7. Tenthredinidae Latreille, 1803 – **I: 37**

Siricomorpha

Pamphilioidea Cameron, 1890

† Xyelydidae Rasnitsyn, 1986

† Miroylydidae Wang, Rasnitsyn et Ren, 2017

8. Pamphiliidae Cameron, 1890 – **I: 101**

9. Megalodontesidae Konow, 1897 – **I: 107**

Cephoidea Newman, 1834

† Sepulcidae Rasnitsyn, 1968

10. Cephidae Newman, 1834 – **I: 108**

Siricoidea Billberg, 1820

† Protosiricidae Rasnitsyn et Zhang, 2004

† Pseudosiricidae Handlirsch, 1908

11. Siricidae Billberg, 1820 – **I: 112**

12. Xiphydriidae Leach, 1819 – **I: 115**

Anaxyeloidea Martynov, 1925

• Anaxyelidae Martynov, 1925

Orussomorpha

Orussoidea Newman, 1834

† Karatavitidae Rasnitsyn, 1963

† Paroryssidae Martynov, 1925

13. Orussidae Newman, 1834 – **I: 117**

Suborder APOCRITA Parasitica¹

Stephanomorpha

Stephanoidea Leach, 1815

† Aptenoperissidae Rasnitsyn et Poinar, 2017

† Eostephanitidae Hong, 2002²

† Ephialtitidae Handlirsch, 1906

† Myanmarinidae Zhang et Rasnitsyn, 2017

14. Stephanidae Leach, 1815

Evaniomorpha

Evanioidea Latreille, 1802

† Andreneliidae Rasnitsyn et

Martínez-Declòs, 2000

† Anomopterellidae Rasnitsyn, 1975

† Othniodellithidae Engel et Huang, 2016

† Praeaulacidae Rasnitsyn, 1972

15. Aulacidae Shuckard, 1841

16. Gasteruptiidae Ashmead, 1900

17. Evaniidae Latreille, 1802

¹ Group of non-fixed rank

² *Eostephanites* Hong, 2002 (type genus of Eostephanitidae) has been placed to Stephanidea: Eostephanitidae (Yu, 2012), but A.P. Rasnitsyn considers (pers. comm.) that it belongs to the Braconidae

Table. Hymenoptera of Russia: numbers of species and genera of Apocrita: Parasitica.

Family	World		Palearctic		Russia	
	Genera	Species	Genera	Species	Genera	Species
Stephanomorpha						
Stephanoidea						
14. Stephanidae	11	356	7	20	2	2
Evaniomorpha						
Evanioidea						
15. Aulacidae	2	264	2	46	2	12
16. Gasteruptiidae	6	c. 510	1	> 70	1	29
17. Evaniidae	20	c. 430	6	18	3	3
Ceraphronomorpha						
Ceraphronoidea						
18. Megaspilidae	14	300	11	c. 150	6	38
19. Ceraphronidae	15	> 300	4	c. 100	4	39
Trigonalyoidea						
20. Trigonalyidae	16	115	5	14	5	8
Proctotrupomorpha						
Proctotrupoidea						
21. Heloridae	1	12	1	6	1	3
22. Proctotrupidae	32	c. 700	c. 15	193	14	72
23. Roproniidae	2	40	1	7	1	1
24. Proctorenyxidae	2	3	2	3	1	1
25. Vanhorniidae	1	3	1	2	1	1
Diaprioidea						
26. Diapriidae	194	c. 2100	90	c. 800	29	153
27. Ismaridae	1	55	1	13	1	9
Platygastroidea						
28. Platygastriidae	68	c. 2000	31	> 610	17	54
29. Scelionidae	167	> 4000	60	955	35	368
Cynipoidea						
30. Ibaliidae	3	22	2	6	1	3
31. Liopteridae	11	73	1	15	1	1
32. Figitidae	111	c. 1400	59	c. 700	33	160
33. Cynipidae	77	1364	39	494	28	127
Chalcioidea						
34. Chalcididae	87	1464	31	c. 270	13	36
35. Leucospidae	4	134	1	19	1	7
36. Perilampidae	15	277	10	120	4	25
37. Eucharitidae	55	423	10	65	2	11
38. Pteromalidae	641	c. 3500	279	c. 1985	137	411
39. Eupelmidae	43	1091	14	245	9	38
40. Encyrtidae	460	3735	227	c. 1700	118	490
41. Eurytomidae	88	> 1400	18	c. 400	9	129
42. Torymidae	68	986	32	c. 500	15	101
43. Ormyridae	3	125	2	60	1	13
44. Agaonidae	76	757	12	26	1	1
45. Tetracampidae	15	50	8	30	5	6

Table. Continued.

Family	World		Palearctic		Russia	
	Genera	Species	Genera	Species	Genera	Species
46. Eulophidae	324	c. 6000	130	c. 2000	66	785
47. Aphelinidae	33	1170	18	446	12	88
48. Azotidae	1	94	1	14	1	2
49. Eriaporidae	5	22	2	2	1	1
50. Trichogrammatidae	83	839	42	c. 300	10	44
51. Signiphoridae	4	134	4	14	2	4
52. Mymaridae	116	1300	31	340	23	115
Mymarommatoidea						
53. Mymaromatidae	3	18	2	4	1	2
Ichneumonomorpha						
Ichneumonoidea						
54. Braconidae	> 1000	> 20000	c. 400	c. 7000	268	3272
55. Aphidiidae	51	> 600	> 37	c. 400	31	195
56. Ichneumonidae	c. 1600	c. 25000	c. 800	c. 9900	550*	3709*
Total	> 5500	> 83000	c. 2500	> 30000	1466*	10569*

Note. Data for the World are given from Aguiar et al. (2013), Yu et al. (2016), Noyes (2016), Hymenoptera Online (2019) and personal counts for the Palearctic region and Russia from this book. The numbers marked by asterisks (*) comprise approximate information for three subfamilies of Ichneumonidae (Campopleginae, Cryptinae and Ichneumoninae) not included in the Catalogue.

Ceraphronomorpha

Ceraphronoidea Haliday, 1833

† Radiophronidae Ortega-Blanco,
Rasnitsyn et Declòs, 2010

† Stigmaphronidae Kozlov, 1975

18. Megaspilidae Ashmead, 1893

19. Ceraphronidae Haliday, 1833

Megalyroidea Schletterer, 1889

† Maimetshidae Rasnitsyn, 1975

• Megalyridae Schletterer, 1889

Trigonalynoidea Cresson, 1887

20. Trigonalynidae Cresson, 1887

Proctotrupomorpha

Proctotrupoidea Latreille, 1802

† Jurapriidae Rasnitsyn, 1983

† Mesoserphidae Kozlov, 1970

† Peleserphidae Zhang, Rasnitsyn,
Wang et Zhang, 2018

• Austroniidae Kozlov, 1975

• Peleciniidae Haliday, 1839

• Peradeniidae Naumann et Masner, 1985

21. Heloridae Foerster, 1856

22. Proctotrupidae Latreille, 1802

23. Roproniidae Bradley, 1905

24. Proctorenyxidae Lelej et Kozlov, 1999

25. Vanhorniidae Crawford, 1909

Diaprioidea Haliday, 1833

26. Diapriidae Haliday, 1833

27. Ismaridae Thomson, 1858

• Maamingidae Early, Masner,
Naumann et Austin, 2001

• Monomachidae Ashmead, 1902

† Spathiopterygidae Engel et Ortega-Blanco, 2013

Platygastridae Haliday, 1833

28. Platygastridae Haliday, 1833

29. Scelionidae Haliday, 1839

† Serphitoidea Brues, 1937

† Serphitidae Brues, 1937

† Archaeoserphitidae Engel, 2015

Cynipoidea Latreille, 1802

† Gerocynipidae Liu et Engel, 2007

† Protimaspididae Liu et Engel, 2007

† Stolaemissidae Liu et Engel, 2007

• Austrocynipidae Riek, 1971

30. Ibalidae Thomson, 1862

31. Liopteridae Ashmead, 1895

32. Figitidae Hartig, 1840

33. Cynipidae Latreille, 1802

Chalcidoidea Latreille, 1817

† Diversinitidae Haas, Burks
et Krogmann, 2018

† Khutelchalcididae Rasnitsyn,
Basibuyuk et Quicke, 2004

34. Chalcididae Latreille, 1817

35. Leucospidae Walker, 1834

36. Perilampidae Foerster, 1856

37. Eucharitidae Walker, 1846
 38. Pteromalidae Dalman, 1820
 39. Eupelmidae Walker, 1833
 40. Encyrtidae Walker, 1837
 41. Eurytomidae Walker, 1832
 42. Torymidae Walker, 1833
 43. Ormyridae Foerster, 1856
 44. Agaonidae Walker, 1846
 45. Tetracampidae Foerster, 1856
 46. Eulophidae Westwood, 1829
 47. Aphelinidae Thomson, 1876
 48. Azotidae Nikolskaya et Yasnosh, 1966
 • Cynipencyrtidae Trjapitzin, 1973
 49. Eriaporidae Ghesquière, 1955
 50. Trichogrammatidae Haliday, 1851
 51. Signiphoridae Howard, 1894
 52. Mymaridae Haliday, 1833
 • Rotoitidae Bouček et Noyes, 1987
 • Tanaostigmatidae Ashmead, 1904
- Mymarommatoidea** Debauche, 1948
 † Alavarommatidae Ortega-Blanco, Peñalver, Delclòs et Engel, 2011
 † Dipterommatidae Rasnitsyn, Sidorchuk, Zhang et Zhang, 2019
 † Gallorommatidae Gibson, Read et Huber, 2007
 53. Mymarommatidae Debauche, 1948
- Proctotrupomorpha incertae sedis**
 † Cretacoformicidae Rasnitsyn et Öhm-Kühnle, 2019
- Ichneumonomorpha**
Ichneumonoidea Latreille, 1802
 54. Braconidae Nees, 1811
 55. Aphidiidae Haliday, 1833
 † Praeichneumonidae Rasnitsyn, 1983
 56. Ichneumonidae Latreille, 1802
- Aculeata**³
Vespomorpha
 † **Bethylonymoidea** Rasnitsyn, 1975
 † Bethylonymidae Rasnitsyn, 1975
- Chrysidoidea** Latreille, 1802
 † Falsiformicidae Rasnitsyn, 1975
 † Plumalexiidae Brothers, 2011
 • Plumariidae Bischoff, 1914
 • Sclerogibbidae Ashmead, 1902
 • Scolebythidae Evans, 1963
 57. Dryinidae Haliday, 1833 – **I: 118**
 58. Embolemidae Foerster, 1856 – **I: 122**
 59. Bethylidae Haliday, 1839 – **I: 123**
 60. Chrysididae Latreille, 1802 – **I: 126**
- Scolioidea** Latreille, 1802
 † Bryopompilidae Engel et Grimaldi, 2006
 61. Sapygidae Latreille, 1810 – **I: 145**
 62. Scoliidae Latreille, 1802 – **I: 147**
 63. Tiphidae Leach, 1815 – **I: 149**
 64. Sierolomorphidae Krombein, 1951 – **I: 151**
 65. Mutillidae Latreille, 1802 – **I: 152**
 66. Bradynobaenidae de Saussure, 1892 – **I: 159**
 • Rhopalosomatidae Ashmead, 1896
- Pompiloidea** Latreille, 1804
 † Burmusculidae Zhang et Rasnitsyn, 2018
 67. Pompilidae Latreille, 1804 – **I: 160**
- Vespoidea** Latreille, 1802
 68. Vespidae Latreille, 1802 – **I: 175**
- Formicoidea** Latreille, 1802
 69. Formicidae Latreille, 1802 – **I: 197**
- Apoidea** Latreille, 1802
 Section Spheciformes⁴
 † Angarosphecidae Rasnitsyn, 1975
 • Heterogynaidae Nagy, 1969
 70. Ampulicidae Shuckard, 1840 – **I: 211**
 71. Sphecidae Latreille, 1802 – **I: 212**
 72. Crabronidae Latreille, 1802 – **I: 217**
- Section Apiformes⁵
 † Mellitosphecidae Poinar et Danforth, 2006
 † Paleomelittidae Engel, 2001
 73. Colletidae Lepeletier de Saint Fargeau, 1841 – **I: 257**
 74. Andrenidae Latreille, 1802 – **I: 263**
 75. Halictidae Thomson, 1869 – **I: 277**
 76. Melittidae Schenck, 1860 – **I: 293**
 77. Megachilidae Latreille, 1802 – **I: 295**
 78. Apidae Latreille, 1802 – **I: 309**
 • Stenotritidae Cockerell, 1934
- Apocrita incertae sedis**
 † Archaeocynipidae Rasnitsyn et Kovalev, 1988
 † Kuafuidae Rasnitsyn et Zhang, 2010

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^{3, 4, 5} Group of non-fixed rank

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**SUBORDER APOCRITA
PARASITICA**

INFRAORDER STEPHANOMORPHA

SUPERFAMILY STEPHANOIDEA

14. FAMILY STEPHANIDAE

S.A. BELOKOBYSKIJ

This is one of the most ancient groups of the Parasitic Hymenoptera and in the whole Apocrita. The members of this family are characterised by a number of diagnostic characters, as follows: the crown with several teeth on around anterior ocellus, the wide metasomal foramen on the propodeum, the costal vein and the metacarp in the fore wing lack, the hind coxa elongate and lacking a basoventral tubercle, hind femur swollen and with ventral large teeth, hind tibia distinctly widened apically, first metasomal tergite subpetiolate or often petiolate, etc. Information about hosts is sparse; a few species have been reared from beetle larvae of the families Buprestidae and Cerambycidae, but *Schlettererius* Ashmead, 1900 is recorded as a parasitoid of horntails (Hymenoptera: Symphyta) larvae (Yu et al., 2016).

Only 11 recent genera in two subfamilies, Schlettererinae and Stephaninae, are known in this family, members of which distributed in the Holarctic, Oriental, Afrotropical, Neotropical and Australasian regions, mainly from the subtropical and tropical areas. In the Palaearctic, six genera have been recorded, *Afromegischus* van Achterberg, 2002

(1 species), *Foenatopus* Smith, 1861 (9 species), *Megischus* Brullé, 1846 (2 species), *Parastephanellus* Enderlein, 1906 (1 species), *Schlettererius* Ashmead, 1900 (3 species) and *Stephanus* Jurine, 1807 (3 species).

Number of taxa: World – 11 recent and 6 fossil genera and 356 species, Palaearctic – 7/20, Russia – 2/2.

References. Tobias, 1988a; van Achterberg, 2002a; Hilszczanski, 2011; Hong et al., 2011; Kim, Lee, 2012; Yu et al., 2016; Belokobylskij, 2019a.

FOENATOPUS Smith, 1860 (*Neostephanus* Kieffer, 1904; *Diastephanus* Kieffer, 1905). **Type species:** *Stephanus indicus* Westwood, 1841. Large and mainly tropical genus widely distributed in the Afrotropical, Oriental, South Palaearctic and Neotropical regions. Number of species: World – 159, Palaearctic – 9, Russia – 1.

Foenatopus ruficollis (Enderlein, 1913) [*Diastephanus*] (*Diastephanus trilobatus* Elliott, 1920). Russia: **FE** (PR). – China (SE), Korean Peninsula, Vietnam.

STEPHANUS Jurine, 1807. **Type species:** *Ichneumon serrator* Fabricius, 1798. Small genus, most species are known in the Neotropical region. Solitary parasitoids of Cerambycidae larvae. Number of species: World – 17, Palaearctic – 3, Russia – 1.

Stephanus serrator (Fabricius, 1798) [*Ichneumon*] (*Stephanus coronatus* Panzer, 1800). Solitary parasitoid of *Clytus lama* Muls., *Ropalopus femoratus* L., *R. macropus* Germ., *Saperda similis* Laich. and *Xylotrechus capricornis* Gebl. (Cerambycidae). Russia: **EP** (NC, CR). – Europe (WE, SE, EE), Azerbaijan, Turkey, Iran.

INFRAORDER EVANOMORPHA

SUPERFAMILY EVANIOIDEA

15. FAMILY AULACIDAE

YU.N. SUNDUKOV AND A.S. LELEJ

Aulacidae (Evanioidea) are a small cosmopolitan family, with two recent genera: *Aulacus* Jurine, 1807 (83 species) and *Pristaulacus* Kieffer, 1900 (181 species) (Chen et al., 2016; Jennings et al., 2018). Both genera occur in all zoogeographic regions although *Aulacus* is unknown from the Afrotropics. Most species of this family occur in tropical and subtropical regions (Smith, 2001).

Aulacids are endoparasitoids of wood-boring larvae of Xiphydriidae (Hymenoptera), Buprestidae and Cerambycidae (Coleoptera) (Smith, 2001). Oviposition is into the host egg in the case of *Aulacus striatus* Jurine parasitizing *Xiphydria camelus* L. Our knowledge of the taxonomy, distribution and biology of Aulacidae is unsatisfactory, because species of the family are rarely collected and not easily observed in their natural habitats. Scarcity of available material is a serious limitation for studying the fauna and the taxonomy of these wasps.

The family is distributed worldwide. Number of taxa: World – 2 genera and 264 species, Palaearctic – 2/46, Russia – 2/12.

References. Semenov, 1892, 1903; Alekseev, 1986, 1993, 1995c; Kozlov, 1988; Konishi, 1990; Smith, 2001; Polevoi, Humala, 2006; Turrissi, 2007; Humala, Polevoi, 2011; Sundukov, Lelej, 2015; Chen et al., 2016.

AULACUS Jurine, 1807 (*Aulacus* Jurine, 1801, nomen nudum; *Disphaeron* Dahlbom, 1837; *Aulacinus* Westwood, 1868; *Pammegischia* Provancher, 1882; *Disaulacinus* Kieffer, 1910; *Micraulacinus* Kieffer, 1910; *Neuraulacinus* Kieffer, 1910; *Parafoenus* Kieffer, 1910; *Pycnaulacus* Cushman, 1930). Type species: *Aulacus striatus* Jurine, 1807. Parasitoids of the Xiphydriidae larvae (Hymenoptera). Number of species: World – 83, Palaearctic – 10, Russia – 6.

Aulacus flavigenis Alekseev, 1986 (*Aulacus salicius* Sun et Sheng, 2007). Parasitoid of *Xiphydria palaeoarctica* Semenov and *X. popovi* Semenov et Guss. (Xiphydriidae). Russia: ? **EP** (Alekseev, 1995c), **FE** (KH, PR). – China (NE), Korean Peninsula.

Aulacus japonicus Konishi, 1990. Parasitoid of ? *Xiphydria alnivora* Mats. (Xiphydriidae). Russia: **FE** (KU). – Japan (Hon).

Aulacus jeoffreyi Alekseev, 1993 (*Aulacus jeoffreyi*: Alekseev, 1995). Russia: **FE** (SA).

Aulacus larisae Sundukov et Lelej, 2015. Parasitoid of ? *Xiphydria camelus* L. (Xiphydriidae). Russia: **FE** (PR, KU).

Aulacus striatus Jurine, 1807 (*Aulacus arcticus* Dahlbom, 1837; *A. exaratus* Ratzeburg, 1852). Parasitoid

of *Xiphydria camelus* L., *X. longicollis* Geoffr., *X. picta* Konow and *X. prolongata* Geoffr. (Xiphydriidae). Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **ES** (IR, ZB). – Europe (WE, NE, SE, EE), N Africa, Kazakhstan (West), China (NC).

Aulacus uchidai Turrissi et Konishi, 2011. Parasitoid of ? *Xiphydria ogasawarai* Mats. (Xiphydriidae). Russia: **FE** (KU). – Japan (Hok).

PRISTAULACUS Kieffer, 1900 (*Aulacostethus* Philippi, 1873, nom. praeocc., nec Waterhouse, 1869; *Aulacostethus* Schletterer, 1890; *Deraiodontus* Bradley, 1901; *Oleisoprister* Bradley, 1901; *Aulacostethus* Dalla Torre, 1902; *Anaulacus* Semenov, 1903, nom. praeocc., nec MacLeay, 1825; *Odontaulacus* Kieffer, 1903; *Semenovia* Kieffer, 1903, nom. praeocc., nec Weise, 1889; *Interaulacus* Bradley, 1908; *Neaulacus* Bradley, 1908; *Semenovius* Bradley, 1908; *Tropaulacus* Bradley, 1908; *Psilaulacus* Kieffer, 1910; *Tetraulacinus* Kieffer, 1910; *Aulacites* Cockerell, 1916; *Aulacomastus* Muesebeck et Walkley, 1956; *Panaulix* Benoit, 1984; *Odontacolus* Kozlov, 1988, nom. praeocc., nec Kieffer, 1910). Type species: *Pristaulacus chlapowskii* Kieffer, 1900. Parasitoids of the larvae from the families Bostrychidae, Buprestidae, Cerambycidae, Cleridae, (Coleoptera) and ? Xiphydriidae (Hymenoptera). The genus distributed worldwide. Number of species: World – 181, Palaearctic – 36, Russia – 6.

Pristaulacus compressus (Spinola, 1808) [*Aulacus*] (*Aulacus obscuripennis* Westwood, 1841; *Pristaulacus schlettereri* Kieffer, 1903; *Aulacus holtzi* Schulz, 1906; *A. beckeri* Tournier, 1911, nomen nudum; *A. plurimaculatus* Tournier, 1911, nomen nudum; *A. transversostriatus* Tournier, 1911, nomen nudum). Parasitoid of *Chlorophorus* sp., *Exocentrus* sp. and *Xylotrechus* sp. (Cerambycidae), ? *Xiphydria longicollis* Geoffr. (Xiphydriidae). Russia: **EP** (E), **UR**. – Europe (WE, SE, EE), Morocco, Turkey, Syria, Iraq, Lebanon, Iran.

Pristaulacus galitae (Gribodo, 1879) [*Aulacus*] (*Pristaulacus bimaculatus* Kieffer, 1900; *P. immaculatus* Kieffer, 1904; *P. bimaculatus aroarenae* Ortega et Baez, 1985). Parasitoid of the beetle from the families Cerambycidae, Cleridae and Bostrychidae (Coleoptera). Russia: **EP** (C, NC, CR). – Europe (WE, SE, EE), N Africa, Azerbaijan, Turkey, Cyprus, Iran.

Pristaulacus gibbator (Thunberg, 1822) [Ichneumon] (*Aulacus esenbecki* Dahlbom, 1837; *A. calcaratus* Kriechbaumer, 1878; *A. sibiricola* Semenov, 1892). Parasitoid of *Palaeocalcidium coriaceum* Payk. (Cerambycidae). Russia: **EP** (N, E), **ES** (TU, KR, BR, ZB), **FE** (AM, MG). – Europe (WE, NE, EE).

Pristaulacus gloriator (Fabricius, 1804) [Bassus] (*Aulacus flagellatus* Nees von Esenbeck, 1834; *A. erichsonii* Westwood, 1841; *A. fasciatus* Kriechbaumer, 1883; *Pristaulacus holzschuhi* Madl, 1990). Parasitoid of beetle from the families Buprestidae and Cerambycidae (Coleoptera). Russia: **EP** (C, E, S, NC, CR), **UR**, **WS**

(NS, AL). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkey, Iran.

Pristaulacus intermedius Uchida, 1932 (*Pristaulacus chlapowskii*: Alekseev, 1986). Parasitoid of *Chlorophorus japonicus* Chev. and perhaps species from the genera *Amarysius*, *Clytus*, *Cyrtoclytus*, *Olenecamptus* and *Xylotrechus* (Cerambycidae). Russia: **FE** (PR). – China (NE, NC, SW), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu).
Pristaulacus kostylevi (Alekseev, 1986) [Odontaulacus] (*Odontacolus kostylevi* Kozlov, 1988). Parasitoid of ? *Chrysobothris* sp. (Buprestidae) and ? *Clytus* sp. (Cerambycidae). Russia: **FE** (KH, PR). – Korean Peninsula.

16. FAMILY GASTERUPTIIDAE (GASTERUPTIONIDAE) –

GASTERUPTIID WASPS, CARROT WASPS

C. VAN ACHTERBERG

A medium-sized family, of which the long and slender adults can be found near bee nests (in wood or in vertical walls) and on flowers with easily accessible nectar. The combination of the inflated hind tibia, the unarmed hind femur and the elongate propleuron (neck) makes them easy to recognise, but confusion with stout-legged Ichneumonoidea can occur. The larva consumes first the bee larva (behaving as an ectoparasitoid) and continues with the stored food (making it a “predator-inquiline”). Considering the size of some individuals it is likely that in some cases more than one larva and its food is devoured. Adult females may show interest in nests of Vespidae-Eumeninae and Crabronidae, but as yet there is no inclusive evidence that they are suitable hosts. The adults fly conspicuously in front of the bee nests with the metasoma upwards and using the hind legs for balance.

The Gasteruptiidae have a nearly worldwide distribution (but unknown from Micronesia and most of Polynesia) with more species in tropical and subtropical than in temperate areas. The family is estimated to contain ca 1500 species worldwide of which about 550 valid species are described.

Number of taxa: World – 6 genera and about 510 species, Palaearctic – 1/more than 70, Russia – 1/29.

References. Schletterer, 1885; Semenov, 1892; Semenov-Tian-Shanskij, Kostylev, 1928; Watanabe, 1934; Hedicke, 1939; Malyshev, 1964, 1965; Oehlke, 1984; Kozlov, 1988; Alekseev, 1995a; Pagliano, Scaramozzino, 2000; Madl, 2004; Zhao et al., 2012; van Achterberg, 2013, 2019; van Achterberg, Talebi, 2014; Johansson, van Achterberg, 2016; Tan et al., 2016; van Achterberg et al., 2019b.

Subfamily GASTERUPTIINAE

GASTERUPTION Latreille, 1796 (*Foenus* Fabricius, 1798; *Gasteruptron* Westwood, 1840; *Gastryptium* Agassiz, 1846; *Faenus* Abeille de Perrin, 1879; *Gasteryption*

Schletterer, 1890; *Phoenus* Schletterer, 1890; *Gasteruptia* Dominique, 1893; *Gasteruptium* Schulz, 1906; *Rhydinofoenus* Bradley, 1909; *Dolichofoenus* Kieffer, 1910; *Trichofoenus* Kieffer, 1910; *Gastrhyptium* Schulz, 1911). Type species: *Ichneumon assectator* Linnaeus, 1758. Number of species: World – more than 450, Palaearctic – more than 70, Russia – 29

Gasteruption abeillei Kieffer, 1912 (*Trichofoenus breviterebrae* Watanabe, 1934). Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (TM, KM, AL), **ES** (KR), **FE** (AM, KH, PR, SA, KU, KA, MG, CH). – Europe (WE, NE, SE, EE).

Gasteruption agrenum van Achterberg, 2014. Russia: **EP** (S, CR). – Europe (SE), Turkey, Syria, Iran.

Gasteruption assectator (Linnaeus, 1758) [Ichneumon] (*Gasteruption/Foenus/Faenus affectator* auct.; *Ichneumon annularis* Geoffroy in Fourcroy, 1785; *Foenus boreale* Thomson, 1883; *F. fumipennis* Thomson, 1883; *Gasteruption margotae* Madl, 1987). Russia: **EP** (N, NW, C, S, NC), **ES** (ZB), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), China, Japan.

Gasteruption bicoloratum Tan et van Achterberg, 2016 (? *Gasteruption incilis* Alekseev, 1995). Russia: **FE** (AM, PR). – China.

Gasteruption brevicuspis Kieffer, 1911 (*Gasteruption terebrelligerum* Enderlein, 1913). Russia: **FE** (AM, PR). – China, India, Myanmar.

Gasteruption caucasicum (Guérin-Méneville, 1844) [Foenus] (*Foenus pedemontanus* Tournier, 1877; *F. terrestris* Tournier, 1877; *Gasteruption trifossulatum* Kieffer, 1904; *G. ignoratum* Kieffer, 1912). Russia: **EP** (C, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Turkey, Iran, Turkmenistan, Uzbekistan.

Gasteruption diversipes (Abeille de Perrin, 1879) [Fae-nus] (*Gasteruption distinguendum* Schletterer, 1885; *G. dusmeti* Kieffer, 1904; *G. krieckbaumeri* var. *striaticeps* Kieffer, 1904). Russia: **EP** (S, CR). – Europe (WE, SE, EE), Turkey.

Gasteruption dolichoderum Schletterer, 1889 (*Gasteruption rotundicollis* Cameron, 1907; *G. daisyi* Alekseev, 1993). Russia: **UR**. – Europe (SE, EE), Morocco, Turkey, Syria, Jordan, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, India.

Gasteruption erythrostomum (Dahlbom, 1831) [Foenus] (*Foenus pyrenaicus* Guérin-Méneville, 1844; *F. mariae* Abeille de Perrin, 1879; *Gasteryption intermedium* Semenov, 1892; *Trichofoenus melanothecus* Kieffer, 1911). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).

Gasteruption flavimarginatum van Achterberg, 2014. Russia: **EP** (NC). – Turkey, Jordan, Tajikistan, Uzbekistan, China.

Gasteruption freyi (Tournier, 1877) [Foenus] (*Foenus nigripes* Tournier, 1877; *Faenus nigripes* var. *annulata* Abeille de Perrin, 1879; *F. rugulosus* Abeille de Perrin, 1879; *Gasteruption assectator* var. *nitidulum* Schletterer, 1885; *G. kohlii* Schletterer, 1885). In nests

- of *Hylaeus* spp. (Colletidae). Russia: **EP** (CR). – Europe (WE, SE, EE), Morocco.
- Gasteruption goberti** (Tournier, 1877) [Foenus] (*Gasteruption sowae* Schletterer, 1901). Russia: **EP** (NC). – Europe (WE, SE, EE), Turkey, Iran.
- Gasteruption graciloides** van Achterberg, 2019 (*Gasteruption gracilis* Alekseev, 1995, nec Pasteels, 1956 and Smith, 1859). Russia: **FE** (PR, KA). – Kazakhstan.
- Gasteruption hastator** (Fabricius, 1804) [Foenus] (*Foenus dorsalis* Westwood, 1841; *F. esenbeckii* Westwood, 1841; *F. rubricans* Guérin-Méneville, 1844; *Gasteruption graecum* Schletterer, 1885; *G. tibiale* Schletterer, 1885; *G. schossmannae* Madl, 1987; *G. formilis* Alekseev, 1995). Russia: **EP** (NC, CR), **WS** (AL), **FE** (AM, PR). – Europe (WE, SE, EE), Turkey, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Gasteruption insidiosum** Semenov, 1892 (*Gasteruption dubiosum* Semenov, 1892; *G. fallaciosum* Semenov, 1892; *G. obsoletum* Semenov, 1892). Predator-inquiline of *Osmia bidentata* and *Hoplites* sp. (Megachilidae) [but one male from *Euodynerus* (*Pareuodynerus*) *posticus* nest (Vespidae)]. Russia: **EP** (NW, S, CR). – Europe (SE, EE), Turkey, Iran.
- Gasteruption jaculator** (Linnaeus, 1758) [Ichneumon] (*Foenus granulithorax* Tournier, 1877; *Faenus oblitteratus* Abeille de Perrin, 1879; *Foenus rugidorsus* Costa, 1885; *Gasteruption thomsonii* Schletterer, 1885; *Gasteruption thomsoni* var. *monochropus* Semenov, 1892; *G. schewyrewi* Semenov, 1892). Russia: **EP** (N, NW, C, E, S, NC, CR), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Gasteruption japonicum** Cameron, 1888 (*Gasteruption sibiricum* Semenov, 1892; *Gasteruption sinense* var. *minus* Kieffer, 1924). Russia: **EP** (NW), **ES** (KR), **FE** (PR, KU). – China, Japan.
- Gasteruption laticeps** (Tournier, 1877) [Foenus] (*Gasteruption foveolatum* Schletterer, 1889; *G. foveolum* Szépligeti, 1903). Russia: **EP** (CR). – Europe (WE, SE, EE), Turkey.
- Gasteruption merceti** Kieffer, 1904 (*Gasteruption pyrenaicum* auct.; *G. trichotomma* Kieffer, 1904; *G. palaestinum* Pic, 1916; *G. jekylljaechi* Madl, 1987). Russia: **EP** (NC, CR). – Europe (WE, SE, EE), Turkey, Syria, Jordan, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Gasteruption minutum** (Tournier, 1877) [Foenus] (*Foenus longigena* Thomson, 1883; *Gasteruption oriplanum* Kieffer, 1911). Russia: **EP** (NC). – Europe (WE, SE, EE), Turkey, Iran, Kyrgyzstan, Kazakhstan, Mongolia, China.
- Gasteruption nigrirtarse** (Thomson, 1883) [Foenus]. Russia: **EP** (C, E, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey.
- Gasteruption opacum** (Tournier, 1877) [Foenus] (*Foenus vagepunctatus* Costa, 1877; *F. opacus* var. *minor* Magretti, 1882; ? *Gasteruption obscurum* Schletterer, 1889). Russia: **EP** (S, NC, CR). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Gasteruption oshimense** Watanabe, 1934. Russia: **FE** (AM, PR). – Tajikistan, China, Japan (Hon).
- Gasteruption pseudolaticeps** van Achterberg, 2014. Russia: **EP** (NW). – Turkey, Iran, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Gasteruption sinarum** Kieffer, 1911 (*Gasteruption sinense* Kieffer, 1924). Russia: **FE** (PR). – Uzbekistan, Kyrgyzstan, China.
- Gasteruption subtile** (Thomson, 1883) [Foenus] (*Gasteruption krieckbaumeri* Schletterer, 1889; *G. sabulosum* Schletterer, 1889; *G. poecilothecum* Kieffer, 1911; *G. rossicum* Semenov-Tian-Shanskij et Kostylev, 1928). Russia: **EP** (N, NW, CR), **WS** (TK, NS, AL), **ES** (TU, IR, YA, ZB), **FE** (AM, KH, PR, SA, KA, MG). – Europe (WE, NE, EE), Azerbaijan, Kazakhstan, Mongolia, China, Japan (Hok, Hon).
- Gasteruption tournieri** Schletterer, 1885 (*Gasteruption austriacum* Schletterer, 1885; *G. nitidum* Schletterer, 1885). Russia: **EP** (NW, C, S, NC, CR), **WS** (NS). – Europe (WE, NE, SE, EE), Turkey, Iran, Tajikistan.
- Gasteruption undulatum** (Abeille de Perrin, 1879) [Foenus] (*Foenus bidentulus* Thomson, 1883; *Gasteruption brevicauda* Kieffer, 1904). Russia: **EP** (C, E, S, NC, CR). – Europe (WE, NE, SE, EE), Algeria, Turkey, Iran.
- Gasteruption zarudnyi** Semenov-Tian-Shanskij et Kostylev, 1928. Russia: **EP** (S, NC, CR). – Europe (WE, SE, EE), Turkey, Iran, Afghanistan.

17. FAMILY EVANIIDAE – ENSIGN WASPS

S.A. BELOKOBYSKIJ

This is a specialized group of small or medium-sized parasitoids. Members of this family are characterized by the following main features: antennae of female and male 13-segmented with usually a very long scape; jugal lobes of fore and hind wings deeply separated, costal cell of fore wing wide, radial vein strongly upcurved distally, transverse hind wing veins lost; mesosoma short and high; metasoma small, distinctly compressed and heavily sclerotized, with petiolate first segment attached on the posterior margin of mesosoma very distantly higher than hind coxae (forming very wide propodeal bridge); ovipositor short. The members of this family are parasitoids in cockroach oothecae.

Twenty recent and twelve extinct genera are known in this family, members of which are mainly distributed in the subtropical and tropical regions of the Old and New Worlds.

Number of taxa: World – 20 recent genera, about 430 species, Palearctic – 6/18, Russia – 3/3.

References. Kieffer, 1912a; Brown, 1973; Kozlov, 1988; Deans, Huben, 2003; Deans, 2005, 2008; Deans et al., 2016; Belokobylskij, 2019b.

BRACHYGASTER Leach, 1815 (*Semaedogaster* Bradley, 1905). Type species: *Evania minutus* Olivier, 1791.

Small genus most abundant in the Afrotropical region. Number of species: World – 12, Palaearctic – 2, Russia – 1.

Brachygaster minutus (Olivier, 1791) [Evania] (*Brachygaster fulvipes* Curtis, 1829; *B. rufipes* Brullé, 1846; *Evania brullei* Westwood, 1851). Parasitoid of oothecae of *Blatta orientalis* L. (Blattidae), *Blattella germanica* L., *Ectobius lapponicus* L., *E. pallidus* Oliv. and *E. panzeri* Steph. (Ectobiidae). Russia: **EP** (N, NW, C, E, NC, CR). – Europe (WE, NE, SE, EE), N Africa, Abkhazia, Georgia, Azerbaijan, Israel, Kyrgyzstan, Kazakhstan.

EVANIA Fabricius, 1775. Type species: *Sphex appendigaster* Linnaeus, 1758. Type genus of the family, with numerous species mainly from the tropical areas; part of described species may be synonyms of the cosmopolitan *Evania appendigaster* (Linnaeus, 1758) and some of species should be transferred into other genera. Discovery of cosmopolitan *E. appendigaster* in the Russian fauna is very likely. Parasitoids of mainly *Periplaneta* species oothecae (Blattidae). Number of species: World – about 70, Palaearctic – 6, Russia – 1.

Evania dimidiata Spinola, 1838 (*Evania caspia* Eichwald, 1830; *E. abyssinica* Westwood, 1841; *E. thoracica* Guérin-Méneville, 1844; *E. dimidiata* var. *rufa* Magretti, 1884; *E. dimidiata dimidiata* Kieffer, 1912). Parasitoid of cockroach oothecae of *Blatta orientalis* L. (Blattidae). Russia: **EP** (NC). – N Africa, Georgia, Azerbaijan, Syria, Israel, Turkmenistan, Uzbekistan.

PROSEVANIA Kieffer, 1911. Type species: *Evania afra* Kieffer, 1911. Large genus most abundant in the tropical areas of Old World. Number of species: World – about 100, Palaearctic – 2, Russia – 1.

Prosevania fuscipes (Illiger, 1807) [Evania] (*Evania flavicornis* Curtis, 1829; *E. punctata* Brullé, 1833; *E. striata* Smith, 1860; *E. fulcipes* Schletterer, 1886; *E. coxalis* Kieffer, 1904; *E. urbana* Bradley, 1908). Parasitoid of cockroach oothecae of *Periplaneta americana* L., *Blatta orientalis* L. (Blattidae) and *Blattella germanica* L. (Ectobiidae). Russia: **EP** (NC, CR). – Europe (WE, SE, EE), N Africa, Abkhazia, Turkey, Syria, Israel, N America, Indonesia, Afrotropics, S America.

INFRAORDER CERAPHRONOMORPHA

SUPERFAMILY CERAPHRONOIDEA – CERAPHRONOID WASPS

V.N. ALEKSEEV

This is a small group of parasitic Microhymenoptera of relatively ancient origin. Small or very small-sized ceraphronoid wasps are distinguished by the reduction of wing venation and not typical for other Apocrita metasomal petiole of the first segment (a very small and easily overlooked first metasomal tergite followed by an enlarged second, atypical for Apocrita, and making it appear as if it is directly connected to the propodeum). Antennae are 7–11-segmented, scape always is longer than any other antennal segment. Mesoscutum generally with median furrow and notauli; fore wing with a large semi-oval pterostigma and radial vein or only with the latter; tibiae of fore legs with two apical spurs. In some cases sixth metasomal tergite medially with a very characteristic reticulate alveolar area (Waterston's organ). Ovipositor is very short, rarely protruding behind the tip of metasoma.

They are primary parasitoids or hyperparasitoids of Diptera, Hemiptera, Hymenoptera, Coleoptera and Neuroptera. Several species are known to be myrmecophilous or myrmecomorphous. Biology of the majority of species is still unknown.

The infraorder includes two worldwide distributed families, Megaspilidae and Ceraphronidae. Number of taxa: World – 29 genera and about 600 species, Palaearctic – 15/250, Russia – 10/77.

References. Kieffer, 1914; Masner, Dessart, 1967; Alekseev, 1978c, 1995b; Dessart, Cancemi, 1986; Alekseev, Radchenko, 2001; Johnson, Musetti, 2004.

18. FAMILY MEGASPILIDAE

Antennae 11-segmented in both sexes. Fore wing always with pterostigma and radial vein. Waterston's organ absent. Number of taxa: World – 14 genera and more than 300 species, Palaearctic – 11/about 150, Russia – 6/38.

References. Dessart, 1972, 2001; Alekseev, 1978c, 1978b, 1980, 1995b; Fergusson, 1980; Dessart, Cancemi, 1986; Alekseev, Radchenko, 2001.

Subfamily LAGYNODINAE

LAGYNODES Foerster, 1840 (*Microps* Haliday, 1833; *Microps* Marshall, 1874; *Plastomicrops* Kieffer, 1906). Type species: *Ceraphron pallidus* Boheman, 1832. Small but very original genus abundant in the World fauna. Number of species: World – 18, Palaearctic – 8, Russia – 2.

Lagynodes acuticornis (Kieffer, 1906) [*Plastomicrops*]. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Canada, USA.

Lagynodes pallidus (Boheman, 1832) [Ceraphron] (*Microps rubi* Haliday, 1833; *Ceraphron pallidus* Zetterstedt, 1840; *Hadrocerus spinosa* Foerster, 1840; *Lagynodes rufus* Foerster, 1840; *L. rufescens* Ruthe, 1859; *Triogmus furcifer* Marshall, 1874; *Lagynodes minutus* Ashmead, 1893; *L. crassicornis* Kieffer, 1906; *L. niger* Kieffer, 1906; *L. nitidiceps* Kieffer, 1906; *L. aterior* Box, 1921). Found in the nests of ants genus *Formica* L. (Formicidae). Russia: **EP** (N, C), **FE** (PR). – Europe (WE, SE, EE), Caucasus, Kyrgyzstan, USA.

Subfamily MEGASPILINAE

CONOSTIGMUS Dahlbom, 1858 (*Dichogmus* Thomson, 1858; *Eumegaspilus* Ashmead, 1888; *Eumegalospilus* Schulz, 1906; *Conostigmoides* Dodd, 1914; *Ecnomothorax* Dessart et Masner, 1965; *Dolichoceraphron* Hellén, 1966; *Szelenyides* Dessart, 1974). Type species: *Megaspilus alutaceus* Thomson, 1858. This is largest genus of the family. Parasitoids of Diptera; some species are myrmecophilous. Number of species: World – about 150, Palaearctic – about 100, Russia – 14.

Conostigmus abdominalis (Boheman, 1832) [Ceraphron] (*Ceraphron tenuicornis* Boheman, 1832; *Conostigmus divisifrons* Kieffer, 1907; *C. foveatifrons* Kieffer, 1907; *C. testacea* Kieffer, 1907; *C. curvilineaticeps* Szabó, 1979; *C. pilosiceps* Szabó, 1979). Russia: **EP** (C), **UR**, **FE** (PR). – Europe (WE, NE, EE).

Conostigmus borealis (Thomson, 1858) [Megaspilus]. Russia: **EP** (N), **ES** (ZB), **FE** (SA). – Europe (WE, NE, EE).

Conostigmus crassicornis (Boheman, 1832) [Megaspilus] (*Megaspilus validicornis* Thomson, 1858; *M. crassicornis* Kieffer, 1907). Russia: **EP** (N, NW). – Europe (WE).

Conostigmus cursitans (Nees, 1834) [Calliceras] (*Conostigmus leptothorax* Kieffer, 1907; *C. micans* Kieffer, 1907; *C. subalatus* Kieffer, 1907). Russia: **EP** (C). – Europe (WE, EE).

Conostigmus dimidiatus (Thomson, 1858) [Dichogmus] (*Dichogmus formicarius* Kieffer, 1917). Russia: **EP** (C), **WS** (AL). – Europe (WE, NE, EE), Kazakhstan, Mongolia, Canada, USA.

Conostigmus fasciatipennis Kieffer, 1907. Parasitoid of *Coccinella septempunctata* L. (Coccinellidae). Russia: **EP** (S, NC), **ES** (AM). – Europe (WE, NE), Algeria.

Conostigmus formiceti (Erichson, 1844) [Calliceras] (*Conostigmus antennalis* Kieffer, 1907; *C. lasiophilus* Kieffer, 1907; *C. testaceipes* Kieffer, 1907; *C. tricolor* Kieffer, 1907; *C. wasmanni* Kieffer, 1907; *C. formicarum* Kieffer, 1913; *C. myrmecobia* Kieffer, 1913). Russia: **EP** (NW, C), **ES** (ZB). – Europe (WE).

Conostigmus frontalis (Thomson, 1858) [Megaspilus] (*Megaspilus crassinervis* Kieffer, 1904; *Conostigmus wasmanni* var. *subsulcatus* Kieffer, 1907). Found in the nests of *Lasius brunneus* Latr. (Formicidae). Russia: **EP** (N, C). – Europe (WE, NE, EE), Armenia.

- Conostigmus halteratus** (Boheman, 1832) [Megaspilus] (*Conostigmus punctulatus punctulatus* Cameron, 1881; *C. punctulatus cursor* Kieffer, 1904; *C. clavipennis* Kieffer, 1905; *C. lineatifrons* Kieffer, 1907; *C. punctatifrons* Kieffer, 1907; *C. rhopalophorus* Kieffer, 1907). Russia: **EP** (C), **FE** (PR, MG). – Europe (WE).
- Conostigmus lativentris** (Thomson, 1858) [Megaspilus] (*Conostigmus halteriger* Kieffer, 1907; *C. scabriventris* Kieffer, 1907). Russia: **EP** (N, C), **WS** (AL), **FE** (PR). – Europe (WE, NE, EE).
- Conostigmus melanocephalus** (Boheman, 1832) [Cera-phron] (*Calliceras thoracicus* Nees, 1834; *Conostigmus allotropus* Kieffer, 1907; *C. micromma* Kieffer, 1907; *C. signatifrons* Kieffer, 1917). Russia: **EP** (NW), **ES** (TU), **FE** (KH). – Europe (WE).
- Conostigmus nuchalis** Dessart et Cancemi, 1987. Russia: **FE** (AM). – Europe (WE).
- Conostigmus obscurus** (Thomson, 1858) [Megaspilus] (*Megaspilus arcticus* Thomson, 1858; *Conostigmus syrphorum* Kieffer, 1907). Russia: **FE** (MG). – Europe (WE).
- Conostigmus pubescens** (Thomson, 1858) [Megaspilus]. Russia: **EP** (C).
- Conostigmus triangularis** (Thomson, 1858) [Lygocerus]. Russia: **EP** (C, E). – Europe (WE, EE), Azerbaijan, Central Asia, USA, S Africa.
- Conostigmus versicolor** Kieffer, 1907. Russia: **EP** (C), **FE** (PR, KA). – Europe (WE).
- CREATOR** Alekseev, 1980. Type species: *Lygocerus spissicornis* Hellén, 1966. Monotypic Palaearctic genus.
- Creator spissicornis** (Hellén, 1966) [Lygocerus]. Parasitoid of puparium *Macronichia striginervis* Zett. (Sarcophagidae) and *Zabrachia minutissima* Zett. (Stratiomyidae). Russia: **EP** (C), **FE** (PR). – Europe (NE).
- DENDROCERUS** Ratzeburg, 1852 (*Lygocerus* Foerster, 1856; *Macrostigma* Rondani, 1877; *Atritomus* Foerster, 1878; *Prodendrocerus* Kieffer, 1907; *Atritomellus* Kieffer, 1914; *Neolygocerus* Ishii, 1951). Type species: *Dendrocerus lichtensteini* Ratzeburg, 1852. Hyperparasitoids of Aphidiidae, parasitoids of larvae and puparia of Diptera and Neuroptera. Cosmopolitan genus. Number of species: World – 120, Palaearctic – 37, Russia – 16.
- Dendrocerus amamensis** Takada, 1974 (*Basoko flabellata* Alekseev, 1978). Russia: **FE** (PR). – Japan (Ryu).
- Dendrocerus aphidum** (Rondani, 1877) [Macrostigma] (*Ceraphron rufipes* Thomson, 1858, nom. praeocc., nec Nees, 1834; *Lygocerus koebelei* Ashmead, 1904; *L. bicolor* Kieffer, 1907; *L. breadalbensis* Kieffer, 1907; *L. frenalisi* Kieffer, 1907; *L. fuscipennis* Kieffer, 1907; *L. fusciventris* Kieffer, 1907; *L. neglectus* Kieffer, 1907; *L. subquadratus* Kieffer, 1907; *L. attentus* Muesebeck, 1959; *Dendrocerus lundensis* Dessart, 1966). Parasitoid of Diptera and aphidophagous Neuroptera. Russia: **EP** (C), **UR**, **FE** (AM, PR). – Europe (WE, NE, SE, EE), Algeria, Caucasus, S America.
- Dendrocerus applanatus** Dessart, 1972. Russia: **FE** (MG). – Europe (WE, NE).
- Dendrocerus bifoveatus** (Kieffer, 1907) [Lygocerus] (*Lygocerus cameroni* Kieffer, 1907). Russia: **EP** (C), **WS** (TM). – Europe (WE, NE).
- Dendrocerus carpenteri** (Curtis, 1829) [Lygocerus] (*Ceraphron crispus* Curtis, 1829; *Trichosteresis proxima* Kieffer, 1907). Secondary parasitoid of different aphid species. Russia: **EP** (C, S, NC), **ES** (ZB), **FE** (AM, PR, SA, MG). – Europe (WE, NE, SE, EE), Japan, N and S America, New Zealand.
- Dendrocerus dauricus** (Tshumakova, 1956) [Lygocerus]. Parasitoid of *Phenacoccus polyphagus* Borchs. (Pseudococcidae). Russia: **FE** (PR). – Europe (WE, EE).
- Dendrocerus flavipes** Kieffer, 1907. Russia: **EP** (C). – Europe (SE, EE), Mongolia.
- Dendrocerus halidayi** (Curtis, 1829) [Ceraphron] (*Ceraphron lichtensteini* Ratzeburg, 1852; *C. damicornis* Haliday, 1856; *C. callicerus* Thomson, 1858; *Atritomellus hungaricus* Szabó, 1979). Parasitoid of the larvae and puparium of *Semidalis aleyrodisformis* Steph. (Coniopterygidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, EE).
- Dendrocerus laevis** (Ratzeburg, 1852) [Ceraphron] (*Ceraphron frontalis* Thomson, 1858; *Atritomus coccophagus* Foerster, 1878; *Atritomellus smirnovi* Ghesquière, 1960). Russia: **FE** (KH, PR). – Europe (WE), Japan.
- Dendrocerus laticeps** (Hedicke, 1929) [Atritomellus] (*Lygocerus incompletus* Muesebeck, 1959). Hyperparasitoid of parasitic wasps from the families Aphelinidae and Aphidiidae. Russia: **EP** (C), **FE** (PR, SA). – Europe (WE), Japan.
- Dendrocerus liebscheri** Dessart, 1972 (*Ceraphron tenuicornis* Thomson, 1858). Secondary parasitoid of aphids from the family Lachnidae. Russia: **EP** (C), **FE** (SA, MG). – Europe (WE).
- Dendrocerus punctipes** (Boheman, 1832) [Ceraphron] (*C. parvulus* Wollaston, 1858; *Conostigmus vassae* Szabó, 1979). Russia: **FE** (PR). – Europe (WE), N Africa.
- Dendrocerus pupparum** (Boheman, 1832) [Ceraphron] (*Ceraphron ancyloneurus* Ratzeburg, 1844; *Lygocerus syrphidarum* Kieffer, 1907). Parasitoid of the pupae of *Syrphus balteatus* Deg., *S. ribesii* L., *Metasyrphus lapponicus* Zett. and *Scaeva albomaculata* Mcq. (Syrphidae). Russia: **ES** (BR), **FE** (PR). – Europe (WE), Central Asia, Mongolia.
- Dendrocerus ramicornis** (Boheman, 1832) [Ceraphron] (*C. glabriculus* Thomson, 1858; *Lygocerus japonicus* Ashmead, 1904; *L. ratzeburgi* Ashmead, 1904; *Prodendrocerus ratzeburgi* Kieffer, 1909). Hyperparasitoid of the aphids from the genera *Cinara*, *Eulachnus*, *Lachnus* and *Schizolachnus* (Aphididae). Russia: **EP** (C, S). – Europe (NE).

Dendrocerus serricornis (Boheman, 1832) [Ceraphron] (*Ceraphron piceae* Ratzeburg, 1852; *C. lapponicus* Thomson, 1858; *Lygocerus semiramosus* Kieffer, 1907; *L. subramosus* Kieffer, 1907; *Atritomellus zetterstedii* Guesquière, 1960). Parasitoid of the dipteran family Chamaemyiidae. Russia: **ES** (BR). – Europe (WE, NE, EE), Mongolia, Japan.

Dendrocerus zhelochovtsevi (Alekseev, 1979) [Basoko]. Russia: **FE** (PR).

MEGASPILUS Westwood, 1829. Type species: *Ceraphron dux* Curtis, 1829. Number of species: World – 3, Palaearctic and Russia – 2.

Megaspilus dux (Curtis, 1829) [Ceraphron] (*Ceraphron scutellaris* Boheman, 1832; *C. tibialis* Boheman, 1832; *C. herculeus* Foerster, 1840; *Telenomus stygicus* Provancher, 1887; *Conostigmus fuscicornis* Kieffer, 1907; *Megaspilus integrifrons* Kieffer, 1907; *M. merceti* Kieffer, 1907; *M. pleuralis* Kieffer, 1907; *M. rufimanus* Kieffer, 1907). Russia: **EP** (N, C), **ES** (YA), **FE** (PR). – Europe (WE, SE, EE), Caucasus, Iran, Tajikistan, N America.

Megaspilus striolatus (Thomson, 1858) [Habropelte] (*Megaspilus flavimanus* Kieffer, 1907; *M. hispanicus* Kieffer, 1907; *M. sculpturatus* Kieffer, 1907). Russia: **EP** (NC), **UR**, **FE** (PR). – Europe (WE, EE).

TRICHOSTERESIS Foerster, 1856 (*Thliboneura* Thomson, 1858). Type species: *Ceraphron glabra* Boheman, 1832. Monotypic and almost cosmopolitan genus.

Trichosteresis glabra (Boheman, 1832) [Ceraphron] (*Ceraphron clandestinus* Nees, 1834; *C. syrphii* Bouché, 1834; *C. albipennis* Zetterstedt, 1840; *C. tortricum* Ratzeburg, 1844; *Thliboneura nitida* Thomson, 1858; *Th. radialis* Thomson, 1858; *Trichosteresis floridanus* Ashmead, 1887; *T. flavitarsis* Kieffer, 1907; *T. foersteri* Kieffer, 1907; *T. longigena* Kieffer, 1907; *T. vitripennis* Whittaker, 1930; *T. ninomiyai* Yasumatsu, 1963). Parasitoid of dipterous puparia from the family Syrphidae. Russia: **EP** (C, S), **ES** (IR, YA), **FE** (PR, SA). – Europe (WE, NE, SE), N Africa, Turkey, Japan, N America, South Africa, S America.

19. FAMILY CERAPHRONIDAE

Antennae of females 7–10-segmented, antennae of males 11-segmented. Fore wing without pterostigma (with one exception), with only the radial vein. Sixth metasomal tergite medially with Waterston's organ.

Number of taxa: World – 15 genera and more than 300 species, Palaearctic – 4/about 100, Russia – 4/39.

References. Dessart, 1963, 1979; Alekseev, 1978c, 1995b; Dessart, Alekseev, 1982; Dessart, Cancemi, 1986.

APHANOGMUS Thomson, 1858. Type species: *Aphanogmus abdominalis* Thomson, 1858. Number of species: World – about 100, Palaearctic – 50, Russia – 18.

Aphanogmus abdominalis Thomson, 1858 (*Ceraphron pallidiventris* Ashmead, 1893; *C. cameroni* Kieffer, 1907; *C. microneurus* Kieffer, 1907; *C. microneura* Kieffer, 1914; *Calliceras clavata violae* Novitzky, 1954). Russia: **EP** (C), **WS** (TM), **FE** (AM, KH). – Europe (EE).

Aphanogmus amoratus Dessart et Alekseev, 1982. Russia: **FE** (AM, KH).

Aphanogmus apicalis Szelenyi, 1938. Russia: **EP** (C). – Europe (EE).

Aphanogmus apteryx Szelenyi, 1940. Russia: **FE** (AM). – Europe (EE).

Aphanogmus clavatellus Szelenyi, 1938. Russia: **ES** (IR). – Europe (EE).

Aphanogmus claviartus Alekseev, 1983. Russia: **EP** (C). – Europe (WE).

Aphanogmus clavicornis Thomson, 1858. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE).

Aphanogmus crassiceps (Kieffer, 1907) [Ceraphron]. Russia: **EP** (C), **FE** (AM, PR). – Europe (WE, EE).

Aphanogmus compressus (Ratzeburg, 1852) [Ceraphron] (*Aphanogmus nigroformicatus* Pschorn-Walcher, 1956; *A. annulicornis* Jansson, 1957; *A. venustus* Parr, 1960). Russia: **EP** (NW). – Europe (EE).

Aphanogmus fasciipennis Thomson, 1858. Russia: **EP** (C). – Europe (WE, NE, EE).

Aphanogmus fumipennis Thomson, 1858 (*Aphanogmus hyalinipennis* Thomson, 1858; *A. laevis* Foerster, 1861; *A. grenadensis* Ashmead, 1896; *A. clavatus* Kieffer, 1907; *A. formicarius* Kieffer, 1907; *Ceraphron armatus* Kieffer, 1907; *C. frenalis* Kieffer, 1907; *C. orifilus* Kieffer, 1913; *Aphanogmus clavatus* Kieffer, 1914; *A. formicarum* Kieffer, 1914; *Ceraphron fuliginosi* Box, 1921; *Calliceras borealis* Whitaker, 1930; *Allomicrops bemisiae* Ghesquière, 1935). Russia: **EP** (C, S), **ES** (IR), **FE** (AM, PR). – Europe (WE, NE, EE), USA, S America.

Aphanogmus microneurus Kieffer, 1907 (*Aphanogmus obsoletus* Whittaker, 1930; *A. cylindricornis* Parr, 1960). Russia: **EP** (C, S, NC), **UR**, **ES** (ZB), **FE** (KH, PR, SA, KU). – Europe (WE, EE), Afghanistan.

Aphanogmus procerus Szelenyi, 1940. Russia: **WS** (AL). – Europe (WE, NE, EE).

Aphanogmus rasnitsyni Alekseev, 1995. Russia: **WS** (TM).

Aphanogmus remotus Szelenyi, 1940. Russia: **EP** (C). – Europe (WE, NE, EE).

Aphanogmus steinitzi Priesner, 1936. Russia: **EP** (C). – Europe (WE, EE), Caucasus.

Aphanogmus tenuicornis Thomson, 1858. Russia: **FE** (AM). – Europe (WE, NE, EE).

Aphanogmus terminalis Foerster, 1861. Russia: **FE** (KH). – Europe (WE, NE, EE).

Aphanogmus tomasinianae Alekseev et Dolgin, 1984. Parasitoid of *Thomasiniana ingrata* Mamajev (Cecidomyiidae) from fir cones. Russia: **FE** (PR). – Europe (WE, NE, EE).

Aphanogmus vicinus Foerster, 1861. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, EE).

- CERAPHRON** Jurine, 1807 (*Hadroceras* Foerster, 1840; *Calliceras* Brullé, 1846; *Tomoligon* Rondani, 1877; *Megaspilidea* Ashmead, 1888; *Neoceraphron* Ashmead, 1893; *Neocerataphron* Shulz, 1906; *Pristomocrops* Kieffer, 1906; *Allomicrops* Kieffer, 1914; *Eulagynodes* Girault, 1917; *Ceranogmus* Risbec, 1953). Type species: *Ceraphron sulcatus* Jurine, 1907. The largest cosmopolitan genus of the family. Parasitoids of Cecidomyiidae (Diptera) and Dryinidae (Hymenoptera). Number of species: World – about 150, Palaearctic – about 50, Russia – 17.
- Ceraphron barbieri** Dessart, 1974. Russia: **FE** (PR). – Europe (WE, NE).
- Ceraphron bispinosus** Nees, 1834 (*Ceraphron striatus* Foerster, 1861; *C. crassicornis* Harrington, 1900; *C. opacus* Kieffer, 1905). Russia: **EP** (C, NC, CR), **UR**, **ES** (YA), **FE** (PR). – Europe (WE, EE), Kazakhstan, Mongolia.
- Ceraphron clavatus** Ratzeburg, 1852. Russia: **FE** (PR). – Europe (WE).
- Ceraphron cursor** Kieffer, 1907 (*Ceraphron pedester* Kieffer, 1907). Russia: **EP** (C), **UR**. – Europe (WE, SE).
- Ceraphron fuscicornis** (Nees, 1834) [*Calliceras*]. Russia: **EP** (C). – Europe (WE, NE).
- Ceraphron pallipes** Thomson, 1858. Russia: **FE** (AM). – Europe (NE).
- Ceraphron pedes** Foerster, 1861 (*Ceraphron fusciceps* Ashmead, 1883; *C. secundus* Dalla Torre, 1898; *C. apteryx* Kieffer, 1907; *C. magretti* Kieffer, 1907; *C. rufus* Kieffer, 1907; *C. fusciceps* Dessart, 1981; *C. pallidipes* Dessart, 1981). Russia: **EP** (N). – Europe (WE, NE, EE), Canada, USA.
- Ceraphron pristomicrops** Dessart, 1996. Russia: **FE** (PR). – Europe (WE).
- Ceraphron pupillus** Foerster, 1861 (*Ceraphron brachypterus* Kieffer, 1907; *C. brevipennis* Kieffer, 1907). Russia: **EP** (C). – Europe (WE).
- Ceraphron serraticornis** Kieffer, 1907 (*Ceraphron xanthosoma* Kieffer, 1907; *Calliceras amesicola* Ogloblin, 1944). Russia: **EP** (C), **FE** (KH). – Europe (SE).
- Ceraphron splendens** Dessart et Alekseev, 1982. Russia: **FE** (KH).
- Ceraphron squamiger** Kieffer, 1907 (*Ceraphron squamiformis* Kieffer, 1907). Russia: **EP** (N, C), **UR**, **FE** (AM). – Europe (WE, NE, SE).
- Ceraphron svetlanae** Alekseev, 1993. Russia: **FE** (PR).
- Ceraphron sulcatus** Jurine, 1807. Russia: **EP** (C). – Europe (WE, NE, EE), Caucasus.
- Ceraphron tenuicornis** (Thomson, 1852) [*Calliceras*] (*Calliceras formicaria* Kieffer, 1917). Russia: **EP** (C), **UR**. – Europe (WE, NE).
- Ceraphron tetraplastus** Kieffer, 1907. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, EE).
- Ceraphron thomsoni** Dalla Torre, 1858 (*Calliceras flavipes* Thomson, 1858; *Ceraphron castaneus* Kieffer, 1904; *C. luteipes* Kieffer, 1904; *C. similis* Kieffer, 1904; *C. socialis* Kieffer, 1904; *C. insularis* Kieffer, 1907; *C. longipennis* Kieffer, 1907; *C. solaria* Kieffer, 1907). Russia: **EP** (C, S, NC), **UR**, **WS** (TM), **FE** (AM, KH). – Europe (WE, NE, EE), Azerbaijan.
- ELYSOCERAPHRON** Szélnyi, 1936. Type species: *Elysoceraphron hungaricus* Szélnyi, 1936. Monotypic Palaearctic genus with unknown biology.
- Elysoceraphron hungaricus** Szélnyi, 1936. Russia: **FE** (AM, PR). – Europe (NE, EE).
- SYNARSIS** Foerster, 1878. Type species: *Synarsis pulla* Foerster, 1878. Monotypic Palaearctic genus with unknown biology.
- Synarsis pulla** Foerster, 1878. Russia: **EP** (NW, C), **FE** (AM, PR). – Europe (WE, EE).

SUPERFAMILY TRIGONALYOIDEA

20. FAMILY TRIGONALYIDAE¹
(TRIGONALIDAE) – TRIGONALYID WASPS

A.S. LELEJ

A small group of rather rare insects, which look much like wasps, but with very long antennae with 16 or more segments. Most Trigonalidae develop as hyperparasitoids on parasitoid wasp or fly larvae inside caterpillars and sawfly larvae. Primary endoparasitism of sawflies occurs, but then the parasitoid still acts facultatively as a hyperparasitoid. Some exotic species are primary parasitoids of sawfly larvae (*Perga* Leach). Females lay from several hundreds to 10 thousands of minute eggs singly on foliage, which are eaten eventually by caterpillars and sawfly larvae. The extreme fecundity of trigonalids is correlated with their complicated biology. In the digestive tract of the host the eggs hatch, the mobile larva bores through the intestine wall to search for an accidentally present parasitoid wasp (Ichneumonidae or Braconidae) or fly (Tachinidae). Other species are brought into the nests of social Vespidae because they are eaten by the caterpillars used as prey by the wasps. Inside the nest they develop as primary endoparasitoids of the social wasp larvae.

The family is distributed worldwide, mainly in tropical and subtropical regions. Number of taxa: World – 16 genera and 115 species, Palaearctic – 5/14, Russia – 5/8.

R e f e r e n c e s. Schulz, 1907; Marshakov, 1981; Tsuneki, 1991; Lelej, 1995, 2003; Carmean, Kimsey, 1998; Chen et al., 2014; Tan et al., 2017.

Subfamily ORTHOGONALYINAE

ORTHOGONALYS Schulz, 1905 (*Orthogonalos* Schulz, 1907; *Satogonalos* Teranishi, 1931). Type species: *Orthogonalys boliviana* Schulz, 1905. In the New World member of this genus is known as hyperparasitoid of

Tachinidae in caterpillar (Carmean, Kimsey, 1998). Number of species: World – 14, Palaearctic and Russia – 2.

Orthogonalys elongata (Teranishi, 1929) [*Orthogonalos*] (*Orthogonalos debilis* Teranishi, 1929; *O. hirasana* Teranishi, 1929). Russia: **FE** (SA, KU). – China (NC, SW, WP), Japan (Hok, Hon).

Orthogonalys hageromonis (Teranishi, 1929) [*Orthogonalos*]. Russia: **FE** (PR). – Japan (Hon).

Subfamily TRIGONALYINAE

BAREOGONALOS Schulz, 1907 (*Nippogonalos* Uchida, 1929). Type species: *Trigonalys canadensis* Harrington, 1896. Reared from the nests of social Vespidae: *Vespa*, *Vespula*, *Dolichovespula* and *Provespa* spp.; the larva has the final ectoparasitoid phase. The genus includes two subgenera: *Bareogonalos* Schulz, 1907 and *Makotogonalos* Yamane, 2014. Number of species: World – 4, Palaearctic and Russia – 1.

Bareogonalos (Bareogonalos) jezoensis (Uchida, 1929) [*Nippogonalos*]. Reared from the nest of *Vespa* spp., *Vespula flaviceps karenkona* Sonan and *Dolichovespula pacifica* Birula (Vespidae). Russia: **FE** (PR). – Japan (Hok, Hon, Kyu).

PSEUDOGONALOS Schulz, 1906 (*Trigonalis* Spinola, 1840; *Abastus* Guérin-Méneville, 1844). Type species: *Trigonalis hahnii* Spinola, 1840. Hyperparasitoids of braconids and ichneumonids *Exetastes formicator* F. (Banchinae), genera *Ophion* and *Enicospilus* (Ophioninae), *Callajoppa* (Ichneumoninae), *Aphanistes*, *Erigorgus* and *Heteropelma* (Anomaloniinae) which parasitize in caterpillars of Noctuidae, Erebidae (*Callimorpha dominula* L.), Geometridae (*Ectropis crepuscularia* Den. et Schiff.), Sphingidae (*Smerinthus ocellatus* L.) and Papilionidae (*Papilio machaon* L.) as well as in larvae of sawflies *Diprion similis* Hartig (Diprionidae). Number of species: World and Palaearctic – 3, Russia – 1.

Pseudogonalos hahnii (Spinola, 1840) [*Trigonalys*] (*Trigonalis anglicana* Shuckard, 1841; *Abastus macquartii* Guérin-Méneville, 1844; *Trigonalys nigra* Westwood, 1844; *Trigonalis aterrima* Eversmann, 1849; *Trigonalys europaea* Westwood, 1861; *T. nigra* var. *solitaria* Jacobs, 1878; *Trigonalis hahni* (!) var. *phaeognatha* Enderlein, 1905; *T. hahni* (!) var. *enslini* Torka, 1936; *Trigonalys prudniscens* Torka, 1936). See hosts under *Pseudogonalos* above. Russia: **EP** (N, C, E), **UR**, **WS** (AL), **ES** (IR, ZB), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, Mongolia, China (NE, NC, SW).

JEZONOGONALOS Tsuneki, 1991 (*Pseudogonalos*: Lelej, 1995, 2003). Type species: *Jezonogonalos marujamae* Tsuneki, 1991 (= *Jezonogonalos marujamae* Tsuneki, 1991). Number of species: World – 7, Palaearctic – 2, Russia – 1.

¹ This name has been spelled in two ways: Trigonalidae and Trigonalidae. The family was proposed as Trigonalidae by Cresson and is based on the genus *Trigonalys* Westwood, 1835. Westwood provided the derivation of his genus-group name later (Westwood, 1844): “The genus is named in allusion to the triangular form of the second submarginal cell, which is sometimes petiolated”. *Trigonalys* is composed of two Greek words and literally means in Greek, “three-angled area” or “triangular surface”. The Code specifies that we use the appropriate Greek or Latin declension depending on the origin of the word (ICZN, 1999: Articles 26 and 29.3.1). Only in the case of a Greek word latinized with a change in ending do we revert to the latinized form of the stem (ICZN, 1999: Article 29.3.2). This is not the case here and, accordingly, we are to use the appropriate Greek declension. *Trigonalys* is to be treated as a noun in the nominative singular. According to the ICZN Article 29.3 the stem will be *Trigonalys*-, and the family name Trigonalidae should be used instead of Trigonalidae (Article 35.4.1 of ICZN).

Jezonogonals marujamae Tsuneki, 1991 (*Teranishia nipponica* Tsuneki, 1991). Russia: **FE** (KU). – Japan (Hok, Hon).

TAENIOGONALOS Schulz, 1906 (*Labidogonals* Schulz, 1906; *Nanogonals* Schulz, 1906; *Poecilogonals* Schulz, 1906; *Ischnogonals* Schulz, 1907; *Lycogastroides* Strand, 1912; *Lycogonals* Bischoff, 1913; *Taiwanogonals* Tsuneki, 1991). Type species: *Trigonalys maculata* Smith, 1851. Hyperparasitoids of Ichneumonidae, Braconidae and Tachinidae in caterpillars, but some species are primary parasitoids of pergid sawflies (Pergidae) in Australia (Carmean, Kimsey, 1998). Number of species: World – 33, Palearctic – 8, Russia – 3.

Taeniogonals fasciata (Strand, 1913) [*Poecilogonals*] (*Poecilogonals fasciata rubrothoracica* Bischoff, 1913; *P. fasciata* var. *kibunensis* Uchida, 1929; *P. magnifica* Teranishi, 1929; *P. fasciata* var. *interrupta* Chen, 1949). Russia: **FE** (PR). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan (Hon, Kyu).

Taeniogonals maga (Teranishi, 1929) [*Poecilogonals*] (*Poecilogonals intermedia*: Marshakov, 1981; *Taiwanogonals alishana* Tsuneki, 1991; *T. claripennis* Tsuneki, 1991). Russia: **FE** (AM, PR, SA, KU). – China (SE), Japan (Hon).

Taeniogonals mongolica (Popov, 1945) [*Nanogonals*] (*Poecilogonals flavocincta*: Lelej, 1995). Russia: **FE** (AM, PR). – Mongolia, China (NC), Korean Peninsula.

INFRAORDER PROCTOTRUPOMORPHA

SUPERFAMILY PROCTOTRUPOIDEA

21. FAMILY HELORIDAE

A.S. LELEJ

Heloridae is a small family with 13 species in a single recent genus *Helorus* which is distributed mainly in the Holarctic. Known species develop as solitary internal parasitoids of the larvae of *Chrysopa* Leach and related genera (Chrysopidae) and adults emerge from the host cocoon (Clancy, 1946). There are some fossil genera.

Number of taxa: World – 1 genus and 12 species, Palaearctic – 1/6, Russia – 1/3.

References. Clancy, 1946; Townes, 1977; Kozlov, 1978b, 1981, 1998a; Kusigemati, 1987a; Johnson, 1992; van Achterberg, 2006; Lelej, 2012a.

HELORUS Latreille, 1802 (*Copelus* Provancher, 1881).

Type species: *Helorus ater* Latreille, 1802. Number of species: World – 12, Palaearctic – 6, Russia – 3.

Helorus anomalipes (Panzer, 1798) [Sphex] (*Helorus ater* Latreille, 1802; *Copelus paradoxus* Provancher, 1881; *Helorus coruscus nigrotibia* Hellén, 1941). Parasite of *Chrysoperla carnea* Steph. and *Chrysopa ventralis* Curt. (Chrysopidae). Russia: **EP** (C, E, S), **ES** (BR), **FE** (AM, PR, SA, MG). – Europe (WE, NE, SE, EE), Mongolia, N America.

Helorus ruficornis Foerster, 1856 (*Helorus coruscus* Haliday, 1857; *H. flavipes* Kieffer, 1907). Parasite of *Chrysopa flava* Scop., *Ch. ventralis* Curt. and *Chrysotropia ciliata* Wesm. (Chrysopidae). Russia: **EP** (NW), **ES** (ZB), **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Japan (Hok, Hon, Kyu), N America, Afrotropics.

Helorus striolatus Cameron, 1906 (*Helorus meridionalis* Pschorn-Walcher, 1955). Parasite of *Chrysopa flavifrons* Br. and *Ch. septempunctata* Wesm. (Chrysopidae). Russia: **EP** (N, NW), **ES** (IR), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Mongolia.

22. FAMILY PROCTOTRUPIDAE

V.A. KOLYADA AND V.G. CHEMYREVA

Proctotrupidae are small and medium-sized parasitoids with predominantly black, smooth and shiny bodies. The biology of this family is poorly studied but most of the evidence suggests that they are internal parasitoids of Diptera and Coleoptera larvae, especially those associated with soil and fungi. The females of some species are brachypterous. Proctotrupidae are distributed all over the world, especially in regions with a temperate and humid climate. Many species from the family were recently described by He and Xu

(2015) from China, but their status need to be additionally assessed. Until taxa can be revised, the number of species listed in the World and the Palaearctic region for most of the genera and the whole family are suspected to be exaggerated. The distribution of some species in the European part of Russia is given without regions following Kolyada (2012a).

Number of taxa: World – 32 genera and about 700 species, Palaearctic – about 15/193, Russia – 14/72.

References. Kozlov, 1978d; Townes, Townes, 1981; Johnson, 1992; Kolyada, 1996, 1997, 1998, 1999, 2000, 2012a, 2012b, 2016; Choi et al., 2012, 2016d; He, Xu, 2015; Kolyada, Mostovski, 2017.

Tribe CRYPTOSERPHINI

BRACHYSERPHUS Hellén, 1941. Type species: *Codrus parvulus* Nees, 1834. Number of species: World – 27, Palaearctic – about 15, Russia – 7.

Brachyserphus abruptus (Say, 1836) [Proctotrupes] (*Proctotrupes beljagei* Ashmead, 1893). Parasitoid of *Stelidota strigosa* Gyll. (Nitidulidae). Russia: **WS** (AL), **ES** (KR). – N and S America.

Brachyserphus acuticaudatus Kolyada, 2012. Russia: **EP** (N), **ES** (KR, BR), **FE** (AM, PR, SA). – Europe (NE), Korean Peninsula, Japan (Hok).

Brachyserphus laeviceps (Thomson, 1858) [Proctotrupes]. Russia: **EP** (C). – Europe (WE, NE).

Brachyserphus nudipleuralis Kolyada, 1997. Russia: **FE** (PR, SA, KU).

Brachyserphus parvulus (Nees, 1834) [Codrus]. Parasitoid of *Triplax* sp. (Erotylidae), *Orchesia micans* Pz. (Melandryidae), *Meligethes* sp. (Nitidulidae) and *Phalacrus coruscus* Pz. (Phalacridae). Russia: **EP** (N, NW, C, S, NC), **UR**, **ES** (KR, BR), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, EE), Georgia, Korean Peninsula, Japan, N America.

Brachyserphus lucens (Provancher, 1883) [Megaspilus] (*Brachyserphus striatopropodeatus* Kolyada, 1997). Russia: **FE** (PR). – N America.

Brachyserphus semipunctatus Kolyada, 2012. Russia: **EP** (N, C), **WS** (AL), **FE** (KH, PR, SA). – Europe (EE), Korean Peninsula.

CRYPTOSERPHUS Kieffer, 1907. Type species: *Proctotrupes flavipes* Provancher, 1881. This genus is known in the Holarctic, Oriental and Neotropical regions. Number of species: World – 31, Palaearctic – about 13, Russia – 7.

Cryptoserphus aculeator (Haliday, 1839) [Proctotrupes] (*Codrus ater* Nees, 1834; *Serphus* (*Cryptoserphus*) *perisi* Kieffer, 1908; *Cryptoserphus deshii* Drake, 1970). Parasitoid of the larvae of *Exechia contaminata* Winn. and *Mycetophila ruficollis* Mg. (Mycetophilidae). Russia: **EP** (N), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Iran, China, Japan (Shi), India, SE Asia.

Cryptoserphus dilatus Townes, 1981. Russia: **EP, WS** (AL), **ES** (BR, YA), **FE** (KU). – Europe (WE, NE, SE), Georgia, Mongolia, N America.

Cryptoserphus flavipes (Provancher, 1881) [Proctotrupes] (*Proctotrupes pallipes* Provancher, 1881; *Serphus brevismanus* Kieffer, 1908; *S. longicalcar* Kieffer, 1908; *S. longitarsis* var. *ruficauda* Kieffer, 1908; *Cryptoserphus cumaeus* Nixon, 1938). Parasitoid of the larva of *Mycetophila fungorum* Deg. (Mycetophilidae). Russia: **EP, WS** (TM), **ES** (IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Kazakhstan, Mongolia, Japan, N America.

Cryptoserphus fortis Townes, 1981. Russia: **FE** (KH, PR, KA). – N America.

Cryptoserphus longitarsis (Thomson, 1858) [Proctotrupes] (*Cryptoserphus longicalcar castaneus* Tomsík, 1944). Parasitoid of the larvae of *Cordyla* sp. (Mycetophilidae). Russia: **EP** (N), **ES** (IR, YA), **FE** (PR, MG). – Europe (WE, NE, EE), Armenia, Kyrgyzstan, Kazakhstan, Mongolia, Japan, N America.

Cryptoserphus medius Townes, 1981. Russia: **EP, WS** (TM), **ES** (KR), **FE** (KH, PR, SA, KA, MG). – Europe (WE, NE), Georgia, Armenia, Tajikistan, Kazakhstan, Japan (Hon), N America.

Cryptoserphus occidentalis Brues, 1919. Russia: **EP, WS** (TM), **FE** (AM, KH, KA). – N America.

MISCHOSERPUS Townes, 1981. Type species: *Cryptoserphus arcuator* Stelfox, 1950. This genus is known from the Australasian, Holarctic, Neotropical and Oriental regions. Number of species: World – 26, Palaearctic – 4, Russia – 4.

Mischoserphus arcuator (Stelfox, 1950) [Cryptoserphus] (*Cryptoserphus ione* Kozlov, 1971). Probably parasitoid of the larvae of Mycetophiloidea (Diptera). Russia: **EP, WS** (AL), **FE** (PR, MG). – Europe (WE), Iran, N America.

Mischoserphus obesus Townes, 1981. Russia: **EP, FE** (KH). – Georgia, N America.

Mischoserphus samurai (Pschorn-Walcher, 1964) [Cryptoserphus]. Russia: **ES** (ZB), **FE** (PR). – Korean Peninsula, Japan (Kyu).

Mischoserphus lacrimans Townes, 1981. Russia: **EP** (E), **ES** (YA). – Europe (NE), N America.

NOTHOSERPUS Brues, 1940 (*Thomsonina* Hellén, 1941; *Watanabeia* Masner, 1958). Type species: *Nothoserphus mirabilis* Brues, 1940. This genus is known in the Palaearctic and Oriental regions. Number of species: 21 (including one fossil), Palaearctic – 5, Russia – 2.

Nothoserphus afissae (Watanabe, 1954) [Disogmus]. Parasitoid of the larvae of *Epilachna admirabilis* Crotch and *Henosepilachna vigintioctomaculata* Motsch. (Coccinellidae). Russia: **FE** (PR). – Japan (Hok, Hon).

Nothoserphus scymni (Ashmead, 1904) [Proctotrupes]. Parasitoid of the larvae of *Scymnus* sp. and *S. dorcatomoides*

Weise (Coccinellidae). Russia: **FE** (PR). – China (NE), Japan (Hon).

OXYSERPHUS Masner, 1961. Type species: *Proctotrupes maculipennis* Cameron, 1888. This genus is known from the Holarctic and Oriental regions. Number of species: World – 24 (including three fossil), Palaearctic and Russia – 2.

Oxyserphus clypeatus (Ashmead, 1893). Russia: **FE** (KU). – Japan (Hok), N America.

Oxyserphus rossica (Kolyada, 1996) [Pschornia] (*Oxyserphus europaeus* Buhl, 2004). Russia: **EP** (E). – Europe (NE).

TRETOSERPUS Townes, 1981. Type species: *Proctotrupes laricis* Haliday, 1839. This genus is known from the Holarctic and Oriental regions. Number of species: World – 9, Palaearctic – 5, Russia – 4.

Tretoserphus laricis (Haliday, 1839) [Proctotrupes]. Russia: **EP** (N), **ES** (YA), **FE** (KH, PR, KU, KA). – Europe (WE, NE, EE), Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Japan, N America.

Tretoserphus nudicauda Townes, 1981. Russia: **FE** (SA). – Europe (NE), Mongolia, N America.

Tretoserphus perkinsi (Nixon, 1942) [Cryptoserphus]. Russia: **EP, FE** (PR). – Europe (WE, NE, EE), Kazakhstan, Mongolia, Japan, N America.

Tretoserphus foveolatus (Möller, 1882) [Proctotrupes]. Russia: **EP** (N), **ES** (IR, YA). – Europe (WE, NE, EE), Japan.

Tribe DISOGMINI

DISOGMUS Foerster, 1856. Type species: *Proctotrupes areolator* Haliday, 1839. Number of species: World – 9 (including one fossil), Palaearctic – 4, Russia – 3.

Disogmus areolator (Haliday, 1839) [Proctotrupes] (*Disogmus aequator* Foerster, 1856; *D. discrepator* Foerster, 1856; *Proctotrupes elegans* Thomson, 1857; *P. nigripennis* Thomson, 1857; *Disogmus canadensis* Harrington, 1899; *D. diversicornis* Kieffer, 1906; *D. glabratus* Kieffer, 1906; *D. carinatus* Kieffer, 1907; *D. torvus* Whittaker, 1930). Perhaps the parasitoid of *Sciara* sp. larvae (Sciariidae). Russia: **EP, ES** (KR, BR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, EE), Georgia, Japan (Hok, Kyu), N America.

Disogmus basalis (Thomson, 1857) [Proctotrupes]. Russia: **EP** (N), **ES** (KR, BR, YA), **FE** (KH, PR). – Europe (WE, NE), Georgia.

Disogmus obsoletus Brues, 1905 (*Cryptoserphus bruesi* Muesebeck et Walkley, 1951). Russia: **EP** (NC), **UR, ES** (YA). – N America.

Tribe PROCTOTRUPINI

CODRUS Panzer, 1801. Type species: *Codrus niger* Panzer, 1801. The genus is known from the Palaearctic,

- Oriental and Australasian regions. Number of species: World – 30, Palaearctic – about 22, Russia – 4.
- Codrus ciliatus** Townes, 1981. Russia: **FE** (SA, KU). – China (CC), Korean Peninsula, Japan (Hok).
- Codrus nebriæ** (Watanabe, 1954) [Phaenoserphus]. Parasitoid of the larva of *Nebria lewisi* Bates (Carabidae). Russia: **EP**, **FE** (KH, PR, KU). – Europe (WE, NE, EE), Kazakhstan, Korean Peninsula, Japan (Hon, Shi, Kyu).
- Codrus niger** Panzer, 1803. Parasitoid of larva of *Nebria brevicollis* F. (Carabidae). Russia: **EP** (C), **ES** (ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, China, Korean Peninsula, Japan (Hok, Hon, Kyu).
- Codrus picicornis** (Foerster, 1856) [Disogmus] (*Phaenoserphus subcompressus* Hedicke, 1927; *Ph. vexator* Nixon, 1938; *Ph. subclavatus* Hellén, 1941). Parasitoid of larvae of *Notiophilus biguttatus* F. and *N. rufipes* Curt. (Carabidae). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, EE), Caucasus, Japan.
- EXALLONYX** Kieffer, 1904. Type species: *Exallonyx formicarius* Kieffer, 1904. The genus is the largest in the family with about 350 species in the World fauna, distributed worldwide except New Zealand. Number of species: World – about 350, Palaearctic – about 70, Russia – 16.
- Exallonyx angulatus** Townes, 1981. Russia: **ES** (IR, BR), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, EE), Korean Peninsula, Japan.
- Exallonyx ater** (Gravenhorst, 1807) [Codrus] (*Proctotrupes aterrimus* Dalla Torre, 1898; *Exallonyx filicornis* Kieffer, 1908; *E. ligatus* Kieffer, 1908; *E. syriacus* Kieffer, 1908; *E. xantocerus* Kieffer, 1908; *E. gracilis* Nixon, 1938). Parasitoid of the larvae of *Creophilus maxillosus* L. and *Ocypus olens* Müll. (Staphylinidae). Russia: **EP** (NW, C, E, CR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Syria, Tajikistan, Kyrgyzstan, Kazakhstan, Japan.
- Exallonyx brevicornis** (Haliday, 1839) [Proctotrupes]. Parasitoid of larva *Quedius vexans* Eppelsheim (Staphylinidae). Russia: **EP**, **WS** (AL), **ES** (BR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Japan, N America.
- Exallonyx brevimala** Townes, 1981. Russia: **EP**, **FE** (AM, KH). – Europe (WE, NE).
- Exallonyx confusus** Nixon, 1938. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Mongolia, Japan.
- Exallonyx crenicornis** (Nees von Esenbeck, 1834) [Codrus] (*Proctotrupes clavipes* Thomson, 1857; *Exallonyx denisthorpei* Kieffer, 1908; *E. fumipennis* Kieffer, 1908). Parasitoid of the larva of *Staphylinus* sp. (Staphylinidae) and guest of *Myrmica scabrinodis* Nyl. (Formicidae). Russia: **EP** (C), **WS** (AL), **FE** (PR, SA). – Europe (WE, NE, EE), Georgia.
- Exallonyx japonicus** (Ashmead, 1904) [Proctotrupes]. Russia: **WS** (AL), **FE** (PR, SA, KU). – Kyrgyzstan, Kazakhstan, Korean Peninsula, Japan.
- Exallonyx ligatus** (Nees, 1834) [Codrus]. Parasitoid of the larvae of *Aleochara bilineata* Gyll. and *Quedius* sp. (Staphylinidae). Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Japan.
- Exallonyx longicornis** (Nees, 1834) [Codrus] (*Serphus* (*Phaenoserphus*) *micrurus* Kieffer, 1908). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Mongolia.
- Exallonyx microcerus** Kieffer, 1908 (*Exallonyx subserratus* var. *hyalinipennis* Kieffer, 1908). Parasitoid of the larva of *Xantholinus* sp. (Staphylinidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Mongolia, Japan.
- Exallonyx minor** Townes, 1981. Russia: **EP**, **ES** (IR, BR, YA, ZB), **FE** (AM, PR, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Tajikistan, Kazakhstan, Mongolia, N America.
- Exallonyx polysulcus** Townes, 1981. Russia: **FE** (SA, KU). – Korean Peninsula, Japan.
- Exallonyx styracura** Townes, 1981. Russia: **ES** (BR), **FE** (SA, KU). – Korean Peninsula.
- Exallonyx subserratus** Kieffer, 1908 (*Exallonyx curtigena* Nixon, 1938). The notes pupa of *Megaselia rufipes* Mg. (Phoridae) as a host of this species is doubtful. Russia: **EP** (N, C). – Europe (WE, NE, SE, EE).
- Exallonyx trichomus** Townes, 1981. Russia: **EP**, **ES** (BR), **FE** (PR). – Europe, Tajikistan, Japan.
- Exallonyx wasmanni** Kieffer, 1904 (*Exallonyx myrmecophilus* Kieffer, 1904). Russia: **EP** (NW), **ES** (BR, ZB), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Georgia, Korean Peninsula, Japan.
- PARACODRUS** Kieffer, 1907. Type species: *Paracodrus bethyloformis* Kieffer, 1907. Monotypic genus.
- Paracodrus apterogynus** (Haliday, 1839) [Proctotrupes] (*Codrus albipennis* Thomson, 1857; *Paracodrus bethyloformis* Kieffer, 1907) Parasitoid of the larvae of *Agriotes obscurus* L., *Ctenicera* sp. and *Limonium aeruginosus* Oliv. (Elateridae). Russia: **EP** (CR), **WS**. – Europe (WE, NE, EE).
- PARTHENOCODRUS** Pschorn-Walcher, 1958 (*Cryptocodrus* Pschorn-Walcher, 1958). Type species: *Proctotrupes elongatus* Haliday, 1839. Number of species: World – 10, Palaearctic – 5, Russia – 2.
- Parthenocodrus elongatus** (Haliday, 1839) [Proctotrupes] (*Proctotrupes buccatus* Thomson, 1857). Parasitoid of the larvae of *Agriotes obscurus* L., *Athous haemorrhoidalis* F. and *A. niger* L. (Elateridae). Russia: **EP**, **FE** (KH, PR, SA, KU). – Europe (WE, NE, EE).
- Parthenocodrus puncticauda** Kolyada, 1998. Russia: **FE** (KH, PR).
- PHAENOSERPUS** Kieffer, 1908 (*Carabiphagus* Morley, 1931; *Phaulloserphus* Pschorn-Walcher, 1958). Type species: *Proctotrupes viator* Haliday, 1839. The genus distributed in the Holarctic region. Species are associated with forest and arctic tundra, but in the south

regions genus occurs in highlands areas. Number of species: World – about 54, Palaearctic – 30, Russia – 10.

Phaenoserphus borealis Hellén, 1941 (*Phaenoserphus fuscipes* auct.). Russia: **EP** (N), **ES** (KR, ZB), **FE** (PR, SA). – Europe (WE, EE), N America.

Phaenoserphus chernovi Kolyada, 2012 (*Phaenoserphus chernovi* Kolyada, 2000, nomen nudum). Russia: **WS** (TM), **ES** (KR, YA).

Phaenoserphus chittii (Morley, 1922) [Proctotrypes] (*Phaenoserphus dubiosus* Nixon, 1938). Parasitoid of the larva of *Carabus* sp. (Carabidae). Russia: **EP**, **UR**, **WS** (TM, NS), **ES** (KR, BR, YA, ZB), **FE** (AM). – Europe (WE, EE), Caucasus, Kazakhstan, Japan.

Phaenoserphus fuscipes (Haliday, 1839) [Proctotrupes]. Russia: **EP** (NC, CR), **ES** (KR), **FE** (SA, CH). – Europe (WE, NE, SE, EE).

Phaenoserphus granulatus Townes, 1981. Russia: **FE** (MG). – N America.

Phaenoserphus kurilensis Kolyada, 2012 (*Phaenoserphus kurilensis* Kolyada, 2000, nomen nudum). Russia: **FE** (KU, MG).

Phaenoserphus leptopygus Townes, 1981. Russia: **WS** (AL), **FE** (PR, KU). – S America.

Phaenoserphus nigripes (Ashmead, 1902) [Proctotrypes] (*Phaenoserphus fuscipes* auct.). Russia: **EP**, **WS** (TM), **ES** (KR, YA), **FE** (CH). – N America.

Phaenoserphus pallipes (Jurine, 1807) [Codrus] (*Proctotrupes rufipes* Jurine, 1807; *Serphus* (*Phaenoserphus*) *viator* var. *testaceicornis* Kieffer, 1908). Parasitoid of the larva of *Staphylinus* sp. (Staphylinidae); the record of fly *Macrocera maculata* Mg. (Keroplastidae) as a host of this species is doubtful. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE).

Phaenoserphus viator (Haliday, 1839) [Proctotrupes] (*Phaenoserphus cyanesens* Kolyada, 2000, nomen nudum). Parasitoid of the coleopteran larvae from the families Carabidae and Staphylinidae. Russia: **EP** (NW, C, E), **WS** (TM, AL), **ES** (KR, IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Caucasus, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Japan, N America.

PHANEROSERPUS Pschorn-Walcher, 1958. Type species: *Proctotrupes calcar* Haliday, 1839. The genus is known from the Holarctic and Oriental regions and from Central America. Number of species: World – 23, Palaearctic – 12, Russia – 5.

Phaenoserphus brevistigma Townes, 1981. Russia: **ES** (KR, BR, YA, ZB), **FE** (AM, KH, PR, KA, CH). – N America.

Phaenoserphus calcar (Haliday, 1839) [Proctotrupes] (*Proctotrupes seticornis* Thomson, 1858; *Serphus* (*Phaenoserphus*) *castaneus* Kieffer, 1908). Parasitoid of *Bolitochara obliqua* Erichs. and *Quedius simplicifrons* Fairm. (Staphylinidae); the notes of *Lithobius forficatus* L. (Myriapoda:

Lithobiidae) as a host of this species is very doubtful. Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **ES** (KR, BR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Turkmenistan, Kazakhstan.

Phaenoserphus cristatus Townes, 1981. Russia: **FE** (PR, SA, KU). – Mongolia, China (NE), Japan (Hok, Hon, Kyu).

Phaenoserphus punctibasis Townes, 1981. Russia: **FE** (AM, PR, SA, KA). – Iran, China (SE), Japan (Hok, Hon).

Phaenoserphus coreanus Kolyada, 2016. Russia: **FE** (KU). – Korean Peninsula, Japan (Hon).

PROCTOTRUPES Latreille, 1796 (*Serphus* Schrank, 1780). Type species: *Serphus brachypterus* Schrank, 1780. The genus are the largest and the most common in the Palaearctic region. Species of *Proctotrupes* are associated with forest and steppe communities. Number of species: World – 10, Palaearctic and Russia – 5.

Proctotrupes brachypterus (Schrank, 1780) [*Serphus*] (*Ichneumon divagator* Olivier, 1792; *I. camponulator* Fabricius, 1798; *I. emarciator* Fabricius, 1798; *Erodorus bimaculatus* Walckenaer, 1802; *Proctotrupes brevipennis* Latreille, 1802; *P. bicolor* Haliday, 1839; *P. gladiator* Haliday, 1839; *Serphus divagator* var. *microptera* Kieffer, 1908; *S. sulcatus* Kieffer, 1908; *S. hofferi* Tomsik, 1944; *S. azarbajdzhanicus* Samedov, 1954). Parasitoid of the larvae of *Harpalus rufipes* Deg. and *Zabrus tenebrioides* Goeze (Carabidae); the notes of flies *Bolitophila hybrida* Mg. (Bolitophilidae), *Dasiops latifrons* Mg., (Lonchaeidae) and *Mycomya marginata* Mg. (Mycetophilidae) as host of this species is doubtful. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Iran, China.

Proctotrupes bistriatus Möller, 1882 (*Disogmus pubescens* Kieffer, 1906; *Proctotrupes florissantensis* Rohwer, 1909; *Serphus cockerelli* Brues, 1919; *S. debilis* Brues, 1919; *S. sequoiarum* Brues, 1919; *S. gravidator niger* Tomsik, 1944). Parasitoid of the larva of *Amara carinata* Lec. (Carabidae). Russia: **EP**, **WS** (TM, AL), **ES** (KS, KR, IR, BR, YA, ZB), **FE** (KU, KA). – Europe (WE, NE, EE), Georgia, Kyrgyzstan, Kazakhstan, Mongolia, Japan (Hon), N America.

Proctotrupes gravidator (Linnaeus, 1758) [*Ichneumon*] (*Proctotrupes meridionalis* Gribodo, 1880; *P. rufigaster* Provancher, 1881; *P. collaris* Szépligeti, 1901; *P. suzukii* Matsumura, 1912; *Serphus zabriskiei* Brues, 1919). Parasitoid of the larvae of *Amara apricaria* Payk., *A. bifrons* Gyll. and *Harpalus* sp. (Carabidae). Russia: **EP** (N, NW, C, E, S, NC) **UR**, **WS** (TM, TK, AL), **ES** (KS, TU, KR, IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KU, CH). – Europe (WE, NE, SE, EE), Caucasus, Iran, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Japan, N America.

Proctotrupes pallidus (Say, 1828) [Codrus] (*Proctotrupes terminator* Kolyada, 1998). Russia: **EP**, **ES** (ZB), **FE** (PR). – Mongolia, N America.

Proctotrupes terminalis (Ashmead, 1893) [Proctotrypes] (*Proctotrupes ruficollis* auct.). Russia: **EP**, **WS** (AL), **ES**

(TU, YA, ZB), **FE** (PR, MG). – Europe (EE), Caucasus, Central Asia, Mongolia, N America.

23. FAMILY ROPRONIIDAE

V.G. CHEMEYREVA

Roproniidae combine three subfamilies, two of which comprises four fossil genera and only one, Roproniinae, has two recent genera. Roproniids are endoparasitoids of Symphyta larvae: Diprionidae: Monocteninae (Muesebeck, 1979) and Tenthredinidae: Blennocampinae (Townes, 1948) and distributed in the Palaearctic, Nearctic and Oriental regions.

Number of taxa: World – 6 genera (including 4 fossil) and 45 species (including 5 fossil), Palaearctic – 1/7, Russia – 1/1.

References. Townes, 1948; Yasumatsu, 1958; Johnson, 1992; Kozlov, 1998c; Lelej, 2012c; He, Xu, 2015.

ROPRONIA Provancher, 1886 (*Roptronia* Ashmead, 1898).

Type species: *Ropronia pediculata* Provancher, 1886. Number of species: World – 39, Palaearctic – 7, Russia – 1.

Ropronia watanabei Yasumatsu, 1958. Russia: **FE** (SA, KU).

24. FAMILY PROCTORENYXIDAE (*RENYXIDAE*)

A.S. LELEJ

These are the largest proctotrupoids (11.0–14.2 mm) and most similar to Heloridae and Roproniidae among the families of Proctotrupoidea. The presence of an antennal anellus is a general character of Heloridae and Proctorenyxidae, while pectinate claws is a synapomorphy of Proctorenyxidae, Heloridae and Roproniidae. The fore and hind wing venation and metasomal segmentation of Proctorenyxidae are more plesiomorphic than those of Heloridae, Roproniidae and other recent proctotrupoid families (Kozlov, 1994). Heloridae are endoparasites of Chrysopidae (Neuroptera) (Clancy, 1946), while Roproniidae are recorded as endoparasites of sawfly larvae: Diprionidae: Monocteninae (Muesebeck, 1979) and Tenthredinidae: Blennocampinae (Townes, 1948). Nothing is known about the hosts of Proctorenyxidae. Two cases of collecting of *Proctorenyxa incredibilis* on the trees of *Juglans mandshurica* (Juglandaceae) in the south of Russian Far East suggest that *Megaxyela* Ashmead, 1898 species may be the

hosts of Proctorenyxidae (Lelej, 2012b). *Megaxyela* species are the largest Xyelidae with the body length of up to 14 mm and their larvae are external feeders on the leaves of Juglandaceae (Blank et al., 2017). The family includes *Proctorenyxa incredibilis* (Kozlov, 1994), *P. koreana* Kim et Lee, 2016 and *Hsiufuropronia chaoi* Yang, 1997. One undescribed species is known from USA (Michigan).

Number of taxa: World and Palaearctic – 2 genera and 3 species, Russia – 1/1.

References. Kozlov, 1994, 1995; Lelej, 1994, 2000, 2012b; Yang, 1997; Lelej, Kozlov, 1999; He et al., 2002; Kim et al., 2016.

PROCTORENYXA Lelej et Kozlov, 1999 (*Renyxa* Kozlov, 1994, nom. praeocc., nec Kurochkin et Slankis, 1975).

Type species: *Renyxa incredibilis* Kozlov, 1994.

Number of species: World and Palaearctic – 2, Russia – 1.

Proctorenyxa incredibilis (Kozlov, 1994) [Renyxa]. Russia: **FE** (KH, PR).

25. FAMILY VANHORNIIDAE

V.G. CHEMEYREVA

Vanhorniidae contains one genus with only three described species in the World fauna. This family is easily separated from other Proctotrupoidea by the exodont mandible that is connected laterally to the head capsule by an extensive membrane, the presence of a median furrow extending ventrally along the metasoma for accommodating the anteriorly oriented ovipositor and the presence of metasomal carapace. The Nearctic *Vanhornia eucnemidarum* Crawford, 1909 has been reared from the larvae of *Isorhipis ruficornis* (Say) (Coleoptera: Eucnemidae) on rotting maple trees (*Acer* sp.).

Number of taxa: World – 1 genus and 3 species, Palaearctic – 1/2, Russia – 1/1.

References. Hedqvist, 1976; Townes, Townes, 1981; Kozlov, 1998d; Lelej, 2012d; He, Xu, 2015.

VANHORNIA Crawford, 1909 (*Sinicivanhornia* He et Chu, 1990). Type species: *Vanhornia eucnemidarum* Crawford, 1909. Number of species: World – 3, Palaearctic – 2, Russia – 1.

Vanhornia leileri Hedqvist, 1976. Russia: **FE** (PR). – Europe (NE).

SUPERFAMILY DIAPRIOIDEA

26. FAMILY DIAPRIIDAE

V.G. CHEMYREVA

Small, mainly black and shiny wasps with antennae inserted on a shelf or at some distance above the level of the clypeus; the scape is distinctly elongate and at least 2.5 times as long as wide; the fore wing has one closed cell (radial) or none, or sometimes it is almost veinless. The members of this family parasitize mainly dipteran larva and pupae from various families. Three subfamilies are known in the family, Belytinae, Diapriinae and Ambositrinae; the latter is mainly distributed in Australia, New Zealand, Africa and South America, but the others have almost worldwide distributions.

Number of taxa: World – 194 genera and about 2100 species, Palaearctic – about 90/about 800, Russia – 29/153.

R e f e r e n c e s. Kieffer, 1916; Nixon, 1957, 1980; Kozlov, 1978a; Johnson, 1992; Macek, 1993, 1995a, 1995b, 1995c, 1995d, 1997a, 1997b, 1998, 2000, 2001, 2006; Notton, 1999; Masner, García, 2002; Yoder, 2004; Chemyreva, Kolyada, 2013, 2018, 2019; Chemyreva, 2014, 2015a, 2015b, 2015c, 2016, 2018; Chemyreva, Xu, 2018; Hymenoptera Online, 2019.

Subfamily BELYTINAE

Antenna of female with 12–15 segments; metasoma with four ring segments behind large tergite; antenna of male with 14 segments, the third segment emarginated; notauli mainly full and deep; hind wing with always closed basal and closed or open radial cells. Mostly parasitoids of Diptera, a few species have been bred from Mycetophilidae in rotting fungi (Nixon, 1957).

Tribe BELYTINI

APRESTES Nixon, 1957. Type species: *Aprestes aberrans* Nixon, 1957. Number of species: World – 4, Palaearctic – 3, Russia – 1.

Aprestes variicornis (Kieffer, 1909) [*Aclista*] (*Oxylabis graciliventris* Kieffer, 1907; *Aprestes aberrans* Nixon, 1957). Russia: **EP** (N, C). – Europe (WE, NE, EE).

BELYTA Jurine, 1807 (*Tetrapsilus* Kieffer, 1908; *Paraclista* Kieffer, 1909; *Neobelyta* Hellén, 1964). Type species: *Belyta bicolor* Jurine, 1807. Number of species: World – 77 (including one fossil), Palaearctic – 33, Russia – 6.

Belyta abrupta Thomson, 1859 (*Belyta alticeps* Kieffer, 1909). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).

Belyta depressa Thomson, 1859 (*Belyta nigriventris* Thomson, 1859; *B. lativentris* Cameron, 1887; *Aclista areolata* Kieffer, 1908; *Belyta arietina* Kieffer, 1909; *B. bidentata* Kieffer, 1909; *B. costalis* Kieffer, 1909; *B. fuscata* Kieffer,

1909; *B. hamata* Kieffer, 1909; *B. modesta* Kieffer, 1909; *B. pedestris* Kieffer, 1909; *B. quadrispinosa* Kieffer, 1909; *B. rufa* Kieffer, 1909; *B. tripartita* Kieffer, 1909). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE).

Belyta elegans Kieffer, 1909 (*Belyta atriceps* Kieffer, 1909; *Pantoclis pallidipes* Kieffer, 1909; *Aclista silvicola* Szabó, 1977). Russia: **EP** (N). – Europe (WE, NE, EE).

Belyta elongata Thomson, 1859 (*Paraclista corinifrons* Kieffer, 1909). Russia: **EP** (N, C). – Europe (WE, NE, SE, EE).

Belyta sanguinolenta Nees, 1834 (*Belyta brachyptera* Thomson, 1859; *B. dorsalis* Thomson, 1859; *B. forticornis* Cameron, 1887; *B. mulensis* Cameron, 1887; *Pantoclis proxima* Kieffer, 1907; *Belyta arcuata* Kieffer, 1909; *B. crassinervis* Kieffer, 1909; *B. longistilus* Kieffer, 1909; *B. lubrica* Kieffer, 1909; *B. marginalis* Kieffer, 1909; *B. peraffinis* Kieffer, 1909; *B. quadridens* Kieffer, 1909; *B. sexcarinata* Kieffer, 1909; *B. tenuicornis* Kieffer, 1909; *B. tenuistilus* Kieffer, 1909; *Pantoclis arcuata* Kieffer, 1909; *P. atra* Kieffer, 1909; *P. atristilus* Kieffer, 1909; *P. levistilus* Kieffer, 1909; *P. marginalis* Kieffer, 1909; *P. sulcatifrons* Kieffer, 1909; *Paraclista longicollis* Kieffer, 1909; *P. longifrons* Kieffer, 1909; *P. producticeps* Kieffer, 1909; *P. sulcigera* Kieffer, 1909; *Xenotoma scotica* Kieffer, 1910; *Paraclista oriplana* Kieffer, 1913). Russia: **EP** (N, C, E). – Europe (WE, NE, SE, EE), Japan, SE Asia.

Belyta validicornis Thomson, 1859 (*Belyta brevifrons* Kieffer, 1909; *B. evanescens* Kieffer, 1909; *B. sicula* Kieffer, 1909; *B. striativentris* Kieffer, 1909). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE).

LYTEBA Thomson, 1859. Type species: *Belyta bisulca* Nees, 1834. Number of species: World – 6, Palaearctic – 4, Russia – 1.

Lyteba bisulca (Nees, 1834) [*Belyta*] (*Belyta affinis* Nees, 1834; *Oxylabis erythropyga* Vollenhoven, 1877; *O. haemorrhoidalis* Kieffer, 1907; *O. lusitanica* Kieffer, 1907; *O. maculata* Kieffer, 1907; *O. punctata* Kieffer, 1907; *O. variabilis* Kieffer, 1907; *O. carinata* Kieffer, 1908; *Aclista cameroni* Kieffer, 1909; *Oxylabis thomsoni* Kieffer, 1916). Russia: **EP** (N, C, CR). – Europe (WE, NE, SE, EE), Japan, N America.

PANTOCLIS Foerster, 1856 (*Zenotypa* Foerster, 1856). Type species: *Pantoclis barycera* Foerster, 1856. Number of species: World – 109, Palaearctic – 61, Russia – 8.

Pantoclis brevior (Kieffer, 1916) [*Acropiesta*] (*Acropiesta brevis* Kieffer, 1910; *Pantoclis orodes* Nixon, 1957). Russia: **EP** (C). – Europe (WE, NE).

Pantoclis carinata (Thomson, 1859) [*Belyta*]. Russia: **EP** (C). – Europe (WE, NE, EE).

Pantoclis numen Nixon, 1957. Russia: **EP** (C). – Europe (WE, NE).

Pantoclis obscuripes Kieffer, 1907. Russia: **EP** (C). – Europe (WE, NE).

Pantoclis ruralis Nixon, 1957. Russia: **EP** (C). – Europe (WE, NE).

- Pantoclis similis** (Thomson, 1859) [Belyta] (*Pantoclis rufiventris* Kieffer, 1907). Russia: **EP** (NW). – Europe (WE, NE).
- Pantoclis trisulcata** Kieffer, 1907. Russia: **UR**. – Europe (WE, NE).
- Pantoclis tuberculatus** (Kieffer, 1907) [Oxylabis]. Russia: **UR**. – Europe (WE).
- ZYGOTA** Foerster, 1856 (*Carinia* Kieffer, 1905). Type species: *Belyta abdominalis* Nees, 1834. Number of species: World – 67 (including one fossil), Palaearctic – 38, Russia – 12.
- Zygota breviscula** (Thomson, 1859) [Belyta]. Russia: **EP** (N, C), **ES** (IR). – Europe (WE, NE, EE).
- Zygota claviscapa** (Thomson, 1859) [Belyta]. Russia: **EP** (N). – Europe (WE, NE, EE).
- Zygota excisor** (Zetterstedt, 1838) [Psilus] (*Aclista excisipes* Kieffer, 1908; *A. lanceolata* Kieffer, 1909; *A. semirufa* Kieffer, 1909). Russia: **EP** (N). – Europe (WE, NE, EE).
- Zygota fossulata** (Thomson, 1859) [Belyta]. Russia: **EP** (C). – Europe (WE, NE, EE).
- Zygota fuscata** (Thomson, 1859) [Belyta] (*Pantolyta lasiorum* Kieffer, 1904). Russia: **EP** (C, CR). – Europe (WE, NE).
- Zygota nigra** (Thomson, 1859) [Belyta]. Russia: **EP** (N, C), **ES** (IR). – Europe (WE, NE, EE), N Africa.
- Zygota parallela** (Thomson, 1859) [Belyta] (*Aclista macro-neura* Kieffer, 1909). Russia: **EP** (N), **ES** (YA). – Europe (WE, NE, EE).
- Zygota reticulata** Kozlov, 1978. Russia: **EP** (N).
- Zygota ruficornis** (Curtis, 1831) [Cinetus] (*Aclista dentatipes* Kieffer, 1908; *A. norvegica* Kieffer, 1912). Russia: **EP** (N, C). – Europe (WE, NE, EE).
- Zygota soluta** (Kieffer, 1907) [Pantoclis]. Russia: **EP** (C), **UR**. – Europe (WE).
- Zygota spinosa** (Kieffer, 1908) [Aclista]. Russia: **EP** (C). – Europe (WE, EE).
- Zygota spinosipes** (Kieffer, 1908) [Aclista]. Russia: **EP** (N). – Europe (WE, NE, EE).

Tribe CINETINI

- ACLISTA** Foerster, 1856 (*Anectata* Foerster, 1856; *Xenotoma* Foerster, 1856; *Acoretus* Haliday, 1857; *Anecoreta* Wall, 1967). Type species: *Acoretus scutellaris*, Thomson, 1859. Number of species: World – 164, Palaearctic – 107, Russia – 17.
- Aclista acuta** (Kieffer, 1909) [Anectata] (*Anectata alticollis* var. *acuta* Kieffer, 1909). Russia: **EP** (N). – Europe (WE, NE, EE).
- Aclista alticollis** (Thomson, 1859) [Acoretus] (*Pantoclis cilipes* Kieffer, 1907; *Xenotoma nigra* Kieffer, 1907). Russia: **UR**. – Europe (WE, NE).
- Aclista atriceps** (Kieffer, 1909) [Anectata]. Russia: **EP** (C). – Europe (WE).
- Aclista carinata** Kozlov, 1978. Russia: **EP** (E).
- Aclista cartiana** (Curtis, 1831) [Cinetus] (*Xenotoma nigrescens* Kieffer, 1907). Russia: **EP** (C). – Europe (NE, EE).
- Aclista dubia** (Kieffer, 1909) [Anectata]. Russia: **EP** (C). – Europe (WE, NE).
- Aclista filiformis** (Kieffer, 1907) [Pantoclis] (*Pantoclis filicornis* Kieffer, 1907; *P. similis* Kieffer, 1907). Russia: **EP** (N, C). – Europe (WE, NE).
- Aclista folia** Nixon, 1957. Russia: **EP** (N, C). – Europe (WE).
- Aclista janssoni** Nixon, 1957. Russia: **EP** (C). – Europe (WE, NE).
- Aclista lineare** Nixon, 1957. Russia: **UR**. – Europe (WE).
- Aclista lugens** (Kieffer, 1910) [Xenotoma]. Russia: **EP** (N). – Europe (WE, NE).
- Aclista marshalli** (Kieffer, 1910) [Xenotoma]. Russia: **UR**. – Europe (WE).
- Aclista nigriceps** (Kieffer, 1907) [Xenotoma]. Russia: **EP** (N). – Europe (WE, NE).
- Aclista pallida** (Thomson, 1859) [Acoretus]. Russia: **UR**. – Europe (WE, NE).
- Aclista prolongata** (Kieffer, 1907) [Pantoclis]. Russia: **EP** (N, CR). – Europe (WE, NE, EE).
- Aclista prudens** Nixon, 1957. Russia: **UR**. – Europe (WE).
- Aclista rufopetiolata** (Nees, 1834) [Belyta] (*Pantoclis cameroni* var. *castaneiventris* Kieffer, 1907; *Xenotoma pleuralis* Kieffer, 1907; *X. versicolor* Kieffer, 1910). Russia: **EP** (N, NW, C). – Europe (WE, NE).
- CINETUS** Jurine, 1807 (*Leptorhaptus* Foerster, 1856; *Oxylabis* Foerster, 1856; *Stylidolon* Ashmead, 1897; *Necitus* Wall, 1967; *Percinetus* Wall, 1967; *Xenotomoides* Wall, 1967). Type species: *Cinetus iridipennis* Lepeletier et Serville, 1825. Number of species: World – 70, Palaearctic – 41, Russia – 11.
- Cinetus atriceps** Kieffer, 1910 (*Cinetus iridipennis* Kieffer, 1910; *C. scutellatus* Well, 1967). Russia: **UR**. – Europe (WE, NE).
- Cinetus brevipetiolatus** Thomson, 1859. Russia: **UR**. – Europe (WE, NE).
- Cinetus decipiens** Kieffer, 1910. Russia: **UR**. – Europe (WE, NE).
- Cinetus excavates** Kieffer, 1910. Russia: **EP** (C). – Europe (NE).
- Cinetus sequester** Nixon, 1957. Russia: **EP** (C). – Europe (WE).
- Cinetus fuliginosus** Curtis, 1831 (*Cinetus tenuicornis* Thomson, 1858). Russia: **EP** (N). – Europe (WE, NE).
- Cinetus fuscipes** (Kieffer, 1910) [Pantoclis]. Russia: **EP** (NW). – Europe (WE, NE).
- Cinetus iridipennis** Lepeletier et Serville, 1825 (*Cinetus gracilipes* Curtis, 1831; *C. gracilis* Curtis, 1831; *C. filicornis* Thomson, 1858; *C. cilipes* Kieffer, 1907). Russia: **EP** (C). – Europe (WE, NE, EE).
- Cinetus lanceolatus** Thomson, 1859. Bred from Mycetophilidae fly in *Boletus* sp. Russia: **UR**. – Europe (WE, NE).

- Cinetus piceus** Thomson, 1859 (*Cinetus dentatus* Kieffer, 1910; *Scoprioteleia rufa* Kieffer, 1910; *Cinetus strandi* Kieffer, 1912). Russia: **EP** (C). – Europe (WE, NE).
- Cinetus simulans** Nixon, 1957. Russia: **UR**. – Europe (WE).
- MIOTA** Foerster, 1856 (*Leptonetus* Masner, 1964). Type species: *Miota glabra* Ashmead, 1890. Number of species: World – 71, Palaearctic – 49, Russia – 9.
- Miota abbreviata** (Kieffer, 1907) [Leptorhaptus]. Russia: **EP** (C). – Europe (WE, NE, EE).
- Miota atriceps** (Kieffer, 1910) [Leptorhaptus]. Russia: **EP** (N). – Europe (WE, NE).
- Miota compressa** (Thomson, 1858) [Cinetus]. Russia: **EP** (C). – Europe (NE, EE).
- Miota egregia** (Kieffer, 1910) [Leptorhaptus]. Russia: **EP** (C). – Europe (WE, NE).
- Miota kiefferi** Buhl, 1997 (*Leptorhaptus analis* Kieffer, 1910). Russia: **EP** (C). – Europe (WE, NE, EE).
- Miota macrocera** (Kieffer, 1910) [Leptorhaptus]. Russia: **EP** (C). – Europe (NE).
- Miota monilicornis** (Kieffer, 1910) [Leptorhaptus] (*Leptorhaptus brevicornis* Kieffer, 1910). Russia: **EP** (C). – Europe (WE, NE, EE).
- Miota perplexa** (Kieffer, 1910) [Leptorhaptus]. Russia: **EP** (C). – Europe (WE, NE, EE).
- Miota polita** (Thomson, 1858) [Cinetus] (*Leptorhaptus heterocerus* Kieffer, 1907; *Miota fulviventrif* Kieffer, 1907; *Leptorhaptus niger* Kieffer, 1910; *L. scutellaris* Kieffer, 1910). Russia: **EP** (C). – Europe (WE, NE, EE).
- PAROXYLABIS** Kieffer, 1907 (*Acanthomiota* Jansson, 1942). Type species: *Paroxylabis semirufa* Kieffer, 1907. Number of species: World – 5, Palaearctic – 4, Russia – 1.
- Paroxylabis semirufa** Kieffer, 1907 (*Paroxylabis fuscicornis* Kieffer, 1908; *Xenotoma arcitenens* Kieffer, 1910; *X. festiva* Kieffer, 1910; *Acanthomia oxylaboides* Jansson, 1942). Russia: **EP** (N). – Europe (WE, NE).
- SCORPIOTELEIA** Ashmead, 1897 (*Eumiota* Hellén, 1964). Type species: *Scoprioteleia mirabilis* Ashmead, 1897. Number of species: World – 6, Palaearctic – 5, Russia – 3.
- Scoprioteleia compressa** (Kieffer, 1910) [Miota]. Russia: **EP** (C). – Europe (WE, NE, EE).
- Scoprioteleia longipetiolata** (Thomson, 1858) [Cinetus] (*Miota longiventris* Kieffer, 1910). Russia: **EP** (N, NW, C). – Europe (NE).
- Scoprioteleia nixonii** Macek, 2006. Russia: **EP** (N). – Europe (WE, EE).
- Acropiesta flaviventris** (Thomson, 1859) [Cinetus] (*Anectata dispar* Brischke, 1891; *Xenotoma gracilicornis* Kieffer, 1910). Primary parasitoid of *Sciara ligniperda* Brischke and *Trichosia caudata* Walk. (Sciaridae). Russia: **EP** (NW, C). – Europe (WE, NE, EE).
- Acropiesta rufiventris** Kieffer, 1909 (*Pantoclis haesitans* Kieffer, 1909; *Acropiesta xanthura* Kieffer, 1912). Russia: **EP** (S). – Europe (WE, NE, EE).
- OPAZON** Haliday, 1857 (*Rhynchopsilus* Kieffer, 1908; *Meuselia* Kieffer, 1909; *Promeuselia* Kieffer, 1910). Type species: *Belyta parvula* Haliday, 1857. Number of species: World – 5, Palaearctic – 4, Russia – 2.
- Opazon opertum** (Kieffer, 1908) [Rhynchopsilus] (*Rhynchopsilus clausus* Kieffer, 1908; *Opazon princeps* Nixon, 1957). Russia: **UR**. – Europe (WE, SE, EE).
- Opazon parvulus** (Haliday, 1857) [Belyta] (*Meuselia fuscicornis* Kieffer, 1909). Russia: **EP** (NW). – Europe (WE, NE, EE).
- PANTOLYTA** Foerster, 1857. Type species: *Pantolyta atrata* Foerster, 1861. Holarctic genus. Number of species: World – 12 (including 2 fossil), Palaearctic – 10, Russia – 7.
- Pantolyta atrata** Foerster, 1861 (*Pantolyta incrassata* Kieffer, 1908). Russia: **EP** (C), **ES** (KR, YA), **FE** (AM, MG). – Europe (WE, NE, EE).
- Pantolyta elegans** Chemyreva et Kolyada, 2018. Russia: **FE** (KU).
- Pantolyta hadrosoma** Macek, 1993. Russia: **EP** (N, C, E), **FE** (KH, SA, KU). – Europe (WE, NE, EE), Georgia.
- Pantolyta marginalis** (Kieffer, 1909) [Acropiesta]. Russia: **EP** (C, E, CR), **FE** (KH, PR). – Europe (NE, EE).
- Pantolyta nixonii** Macek, 1993. Russia: **EP** (NW, C), **FE** (KH). – Europe (WE, NE, EE), Azerbaijan.
- Pantolyta pallida** Kieffer, 1908 (*Pantolyta fuscipes* Kieffer, 1908; *P. incerta* Kieffer, 1908; *P. subtilis* Kieffer, 1908; *P. anysis* Nixon, 1957). Russia: **EP** (C, E), **WS** (AL), **ES** (KR, BR, YA), **FE** (PR). – Europe (WE, NE, EE), Georgia, Armenia, Turkmenistan, Tajikistan, Kazakhstan, Mongolia, Korean Peninsula, Japan (Kyu).
- Pantolyta semirufa** Kieffer, 1908. Russia: **FE** (AM, KH). – Europe (WE, EE), N America.
- POLYPEZA** Foerster, 1856 (*Atelopsilus* Kieffer, 1908; *Pro-pantolyta* Kieffer, 1910; *Pappia* Szabó, 1974). Type species: *Polypeza pergandei* Ashmead, 1893. Number of species: World – 3, Palaearctic – 2, Russia – 1.
- Polypeza ciliata** (Thomson, 1859) [Belyta] (*Pantolyta brunnea* Ashmead, 1893; *Polypeza pergandei* Ashmead, 1893; *Atelopsilus borealis* Petersen, 1956; *Pappia puppii* Szabó, 1974). Russia: **ES** (YA). – Europe (WE, NE, SE, EE), Japan, N America.
- SYNACRA** Foerster, 1856 (*Artibolus* Haliday, 1857; *Neuropria* Kieffer, 1904; *Prosynacra* Kieffer, 1905). Type species: *Diapria brachialis* Nees, 1834. Number of

Tribe PANTOLYTINI

species: World – 11 (including one fossil), Palaearctic – 7, Russia – 2.

Synacra brachialis (Nees, 1834) [Diapria] (*Synacra acutipennis* Kieffer, 1910; *S. brevipennis* Kieffer, 1910; *S. flavistilus* Kieffer, 1910). Russia: **EP** (N, CR). – Europe (WE, NE, SE, EE).

Synacra sociabilis (Kieffer, 1904) [Neuropria] (*Neuropria inquilina* Kieffer, 1905; *N. proxima* Kieffer, 1910; *Synacra pricea* Kieffer, 1910; *Labolips anommati* Morley, 1931; *Neuropria astigmata* Szabó, 1978; *N. pannonica* Szabó, 1978). Collected in the nests of *Formica fusca* L., *F. rufa* L., *F. sanguinea* Latr. and *Lasius fuliginosus* Latr. Russia: **EP** (N, NW, C). – Europe (WE, NE, EE).

Subfamily DIAPRIINAE

Antenna of female with 11–13 segments; metasoma with three apical ring segments after large basal tergite; antenna of male with 13–14 segments, its fourth segment modified; hind wing without closed basal and with closed or open radial cells. The most of the wasps are primary parasitoids (solitary or gregarious) of various Diptera, but several species were reared from coleopterans hosts. Some members associated with ants are known or assumed to parasitize ant larvae; a few species are aquatic (Masner, García, 2002).

Tribe DIAPRIINI

BASALYS Westwood, 1833 (*Rhacodia* Herrich-Schäffer, 1838; *Ceratopria* Ashmead, 1893; *Trichopria* (Ceratopria) Ashmead, 1893; *Tropidopsis* Ashmead, 1893; *Acidopria* Kieffer, 1913; *Ledouxopria* Risbec, 1953; *Dorachia* Muesebeck et Walkley, 1956; *Nesopria* Muesebeck et Walkley, 1956; *Praeloxotropa* Szabó, 1979). Type species: *Basalys fumipennis* Westwood, 1833. Large worldwide distributed genus. Number of species: World – 139, Palaearctic – 84, Russia – 6.

Basalys abruptus (Thomson, 1859) [Loxotropa] (*Loxotropa convexa* Kieffer, 1911). Russia: **EP** (NW). – Europe (WE, NE), N America.

Basalys bifoveatus (Kieffer, 1911) [Loxotropa] (*Loxotropa unifoveata* Kieffer, 1911). Russia: **FE** (PR). – Europe (WE).

Basalys crassiclava (Kieffer, 1906) [Loxotropa]. Russia: **EP** (C). – Europe (SE, EE).

Basalys longipennis (Kieffer, 1911) [Loxotropa]. Russia: **EP** (C). – Europe (WE, EE).

Basalys parvus Thomson, 1859 (*Loxotropa pedestris* Kieffer, 1907; *L. cursitans* Kieffer, 1911). Russia: **EP** (CR). – Europe (WE, NE, EE).

Basalys stramineipes (Kieffer, 1911) [Loxotropa]. Russia: **EP** (CR). – Europe (SE, EE).

DIAPRIA Latreille, 1796 (*Tropidopria* Ashmead, 1893). Type species: *Ichneumon conicus* Fabricius, 1796. Number of species: World – 27, Palaearctic – 13, Russia – 1.

Diapria nigricornis Thomson, 1858 (*Trichopria elongata* Thomson, 1858). Russia: **EP** (N, C). – Europe (WE, NE, EE).

MONELATA Foerster, 1856 (*Corynopria* Haliday, 1857; *Entomopria* Kieffer, 1912; *Streptopria* Maneval, 1939). Type species: *Diapria parvula* Nees, 1834. Number of species: World – 16, Palaearctic – 10, Russia – 2.

Monelata cincta Haliday, 1899. Russia: **EP** (CR). – Europe (WE, NE).

Monelata parvula (Nees, 1834) [Diapria]. Russia: **EP** (N). – Europe (WE, NE).

TETRAMOPRIA Wasmann, 1899. Type species: *Tetramopria aurocincta* Wasmann, 1899. Number of species: World – 8, Palaearctic – 5, Russia – 1.

Tetramopria aurocincta Wasmann, 1899. Russia: **EP** (S, CR). – Europe (WE, EE).

TRICHOPRIA Ashmead, 1893 (*Phaenopria* Ashmead, 1893; *Planopria* Kieffer, 1906; *Orthopria* Kieffer, 1911; *Ashmeadopria* Kieffer, 1912; *Rhapalopria* Kieffer, 1912; *Abothopria* Kieffer, 1913; *Scapopria* Kieffer, 1913; *Neodiapria* Kieffer, 1916). Type species: *Trichopria pentaplasma* Ashmead, 1893. Large worldwide distributed genus. Number of species: World – 334, Palaearctic – about 140, Russia – 10.

Trichopria aequata (Thomson, 1858) [Diapria] (*Diapria carinata* Thomson, 1858; *D. petiolata* Thomson, 1858; *D. inaequalis* Kieffer, 1911; *D. variipes* Kieffer, 1911; *Trichopria isis* Nixon, 1980). Russia: **EP** (C). – Europe (WE, NE, EE).

Trichopria basalis (Thomson, 1858) [Diapria] (*Trichopria ciliaris* Kieffer, 1911; *T. thomsoni* Kieffer, 1911). Russia: **EP** (NW). – Europe (NE).

Trichopria bipunctata Kieffer, 1911. Russia: **EP** (C, CR). – Europe (WE, EE).

Trichopria formicaria (Wasmann, 1899) [Tropidopria]. Collected in the nest of *Formica rufa* L. Russia: **EP** (C). – Europe (WE).

Trichopria hyalinipennis (Thomson, 1858) [Diapria] (*Diapria* (Tropidopria) *tetratoma* Kieffer, 1911, *Trichopria oxygaster* Masner, 1965). Russia: **EP** (C). – Europe (WE, NE, EE).

Trichopria oogaster (Thomson, 1858) [Diapria] (*Diapria nigripes* Thomson, 1858; *D. (Tropidopria) nocticolor* Kieffer, 1911). Russia: **EP** (NW, C). – Europe (WE, NE, EE).

Trichopria major (Priesner, 1953) [Phaenopria]. Russia: **EP** (NW, C). – Europe (WE, EE).

Trichopria morio (Thomson, 1858) [Diapria]. Russia: **EP** (C). – Europe (WE, NE, EE).

Trichopria nigra (Nees, 1834) [Diapria] (*Diapria ruficornis* Thomson, 1858; *Trichopria cilipes* Kieffer, 1909; *T. inermis* Kieffer, 1909; *T. fimbriata* Kieffer, 1911; *T. scutellaris* Kozlov, 1978). Russia: **EP** (C). – Europe (WE, NE, EE).

Trichopria tenuicornis (Thomson, 1858) [Diapria]. Russia: **EP** (C). – Europe (WE, NE, EE).

Tribe PSILINI

ANEURHYNCHUS Westwood, 1832 (*Mythras* Blanchard, 1840; *Mithras* Agassiz, 1846; *Glyptonota* Foerster, 1856). Type species: *Aneurhynchus galesiformis* Westwood, 1832. Large worldwide distributed genus, most of species are undescribed. Number of species: World – 44, Palaearctic – 37, Russia – 3.

Aneurhynchus galesiformis Westwood, 1832 (*Diapria radialis* Nees, 1834). Parasitoid of puparia of *Fannia* sp. living in wet detritus beneath nests of *Vespa*. Russia: **EP** (NW, C). – Europe (WE).

Aneurhynchus pentatomus Thomson, 1859. Russia: **EP** (NW). – Europe (WE).

Aneurhynchus ruficornis Thomson, 1859. Parasitoid of *Platypeza fasciata* Mg. (Platypzeidae). Russia: **EP** (N). – Europe (WE, EE).

ANEUROPRIA Kieffer, 1905 (*Pezopria* Kieffer, 1910). Type species: *Aneuropria clavata* Kieffer, 1911 (= *Polypeza foersteri* Kieffer, 1910). Number of species: World – 4, Palaearctic and Russia – 1.

Aneuropria foersteri (Kieffer, 1910) [Polypeza] (*Polypeza gestroi* Kieffer, 1910; *Aneuropria clavata* Kieffer, 1911; *Glyptonota subpilosa* Kieffer, 1911; *Pezopria fuscicornis* Kieffer, 1911). Russia: **EP** (C). – Europe (WE, EE).

COPTERA Say, 1836 (*Schizogalesus* Kieffer, 1911). Type species: *Coptera polita* Say, 1836. Large worldwide distributed genus, most of species are undescribed. Number of species: World – 103, Palaearctic – 18, Russia – 5.

Coptera alticeps (Kieffer, 1911) [Galesus]. Russia: **EP** (CR). – Europe (EE).

Coptera depressa (Kieffer, 1911) [Galesus]. Russia: **EP** (CR). – Europe (EE), Syria.

Coptera punctata (Kieffer, 1911) [Galesus]. Russia: **EP** (CR). – Europe (WE), Caucasus.

Coptera punctaticeps (Kieffer, 1911) [Galesus]. Russia: **EP** (CR). – Europe (EE).

Coptera punctiventris (Kozlov, 1978) [Psilus]. Russia: **EP** (CR). – Abkhazia.

PSILUS Panzer, 1801 (*Galesus* Haliday, 1829; *Anisoptera* Herich-Schäffer, 1840; *Laches* Gistel, 1848). Type species: *Psilus cornutus* Panzer, 1801. Large worldwide distributed genus with many species are yet undescribed. Number of species: World – 66, Palaearctic – 32, Russia – 4.

Psilus acutangulus (Jansson, 1942) [Galesus] (*Galesus gregori* Tomsik, 1946; *Psilus cephalotes* Hellén, 1958). Russia: **EP** (C). – Europe (NE, EE).

Psilus kerteszi (Kieffer, 1911) [Galesus] (*Galesus sibiricus* Kieffer, 1911; *G. tenuisulcus* Kieffer, 1911; *G. villosus* Kieffer, 1911). Russia: **EP** (CR). – Europe (WE, SE, EE).

Psilus rufipes (Thomson, 1859) [Galesus]. Russia: **EP** (N). – Europe (EE).

Psilus subapterus (Thomson, 1859) [Galesus]. Russia: **EP** (NW). – Europe (NE).

Tribe SPILOMICRINI

ENTOMACIS Foerster, 1856 (*Hemilexis* Foerster, 1856; *Glyphidopria* Haliday, 1857; *Hemilexodes* Ashmead, 1893; *Adeliopria* Ashmead, 1902; *Schizopria* Kieffer, 1912). Type species: *Diapria (Glyphidopris) platyptera* Haliday, 1857. Number of species: World – 54, Palaearctic – 12, Russia – 7.

Entomacis balloona Rajmohana et Narendran, 2006 (*Entomacis curticerca* Chemyreva, 2014). Russia: **FE** (AM, PR). – China (SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), India.

Entomacis graeffei Kieffer, 1909 (*Entomacis laertes* Nixon, 1980). Russia: **EP** (E), **WS** (TM, AL), **ES** (KR, IR), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), China (SW, SE), Korean Peninsula, Japan (Hok, Hon, Shi).

Entomacis hajeki Macek, 2000. Russia: **EP** (C), **ES** (IR). – Europe (WE, EE).

Entomacis kasparyani Chemyreva, 2014. Russia: **FE** (PR). – China (CC, SE), Korean Peninsula, Japan (Hok, Hon, Shi, Ryu).

Entomacis penelope Nixon, 1980. Russia: **EP** (E), **ES** (KR), **FE** (PR). – Europe (WE, EE), China (CC, SE), Japan (Hok, Hon, Shi).

Entomacis perplexa (Haliday, 1857) [Diapria] (*Entomacis subtruncata* Kieffer, 1909; *Hemilexis bipunctata* Kieffer, 1911; *Idiotypa biguttata* Kieffer, 1911; *Hemilexis nirens* Szélenyi in Moczar, 1953). Russia: **EP** (NW, C, E, NC), **UR**, **WS** (TM, AL), **ES** (KR, IR), **FE** (AM, KH, PR, KA). – Europe (WE, EE), China (SW), Japan (Hok, Hon, Kyu), N America.

Entomacis platyptera (Haliday, 1857) [Diapria] (*Hemilexis cordata* Kieffer, 1911; *H. rufopetiolata* Kieffer, 1911; *H. excisa* Kieffer, 1912). Russia: **EP** (C, E), **WS** (TM), **ES** (KR), **FE** (AM, PR, KU). – Europe (WE, NE, EE), China (SW, SE), Korean Peninsula, Japan (Hok, Hon).

EUNUCHOPRIA Szabó, 1961. Type species: *Eunuchopria nitens* Szabó, 1961. Number of species: World, Palaearctic and Russia – 1.

Eunuchopria nitens Szabó, 1961. Russia: **EP** (CR). – Europe (EE).

PARAMESIUS Westwood, 1832 (*Apamesius* Kieffer, 1913). Type species: *Paramesius rufipes* Westwood, 1832 (= *Paramesius belytoides* Marshall, 1867). Number of species: World – 50, Palaearctic – 10, Russia – 8.

- Paramesius belytoides** Marshall, 1867 (*Paramesius rufipes* Westwood, 1832; *P. brevipennis* Kieffer, 1911; *P. macrocerus* Kieffer, 1911; *P. unifoveatus* Kieffer, 1911; *P. westwoodi* Fergusson, 1977; *P. dessarti* Notton, 2004). Russia: **EP** (N, NW, C, E, CR), **UR**, **WS** (TK), **FE** (KH, PR, SA, KU). – Europe (WE, EE).
- Paramesius brachypterus** Thomson, 1859 (*Paramesius spinosus* Kieffer, 1910; *P. angustipennis* Kieffer, 1911; *P. cameroni* Kieffer, 1911; *P. spiniger* Kieffer, 1912). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, EE).
- Paramesius crassicornis** Thomson, 1859 (*Paramesius dolosus* Kieffer, 1911; *Spilomicrus kaszabi* Szabó, 1977). Russia: **EP** (NW, C, E, NC, CR), **UR**. – Europe (WE, NE, EE).
- Paramesius janmaceki** Chemyreva et Kolyada, 2018. Russia: **FE** (PR, KU).
- Paramesius ocampus** Chemyreva et Kolyada, 2018. Russia: **FE** (PR, SA).
- Paramesius primorus** Chemyreva et Kolyada, 2018. Russia: **FE** (PR).
- Paramesius rufipes** (Fonscolombe, 1832) [Teleas] (*Paramesius claviscapus* Thomson, 1859; *P. elongatus* Thomson, 1859; *P. tenuicornis* Thomson, 1859; *P. inermis* Kieffer, 1910; *P. bifoventris* Kieffer, 1911; *P. dentatus* Kieffer, 1911; *P. dolichocerus* Kieffer, 1911; *P. inchoatus* Kieffer, 1911; *P. longicornis* Kieffer, 1911; *P. nigricornis* Kieffer, 1911; *P. subinermis* Kieffer, 1911; *P. subspinosus* Kieffer, 1911; *Spilomicrus minor* Kieffer, 1911; *S. striatifoventris* Szabó, 1960). Russia: **EP** (NW, C, S, NC, CR), **UR**, **WS** (AL), **ES** (KR). – Europe (WE, EE), Caucasus.
- Paramesius spiracularis** Chemyreva et Kolyada, 2018. Russia: **FE** (KH, PR, KU).
- PENTAPRIA** Kieffer, 1905 (*Bakeria* Kieffer, 1906; *Plutopria* Kieffer, 1910; *Xenopria* Fouts, 1939; *Spilomicrinus* Ogloblin, 1957; *Antipapria* Fabritius, 1968). Type species: *Pentapria conjungens* Kieffer, 1905. Probably, all species of *Pentapria* are parasitoids of pupae of the family Stratiomyidae (Diptera) (Fouts, 1939). The genus is large and polymorphic in the Neotropical region, but many species remain undescribed (Masner, García, 2002). Number of species: World – 16, Palaearctic and Russia – 2.
- Pentapria ambiptera** Chemyreva et Kolyada, 2013. Russia: **FE** (PR). – Japan (Hon, Ryu).
- Pentapria grebennikovi** Chemyreva et Kolyada, 2013. Russia: **FE** (PR).
- SPILOMICRUS** Westwood, 1832. Type species: *Spilomicrus stigmatalis* Westwood, 1832. Large worldwide distributed genus with a lot of species are yet undescribed. Number of species: World – 171, Palaearctic – 50, Russia – 18.
- Spilomicrus basalyformis** Marshall, 1868. Russia: **ES** (YA). – Europe (WE, NE).
- Spilomicrus bicarinatus** Chemyreva, 2018. Russia: **FE** (PR, KU). – Korean Peninsula, Japan (Hok, Hon, Kyu).
- Spilomicrus bipunctatus** Kieffer, 1911. Russia: **EP** (NW). – Europe (WE, EE).
- Spilomicrus comatus** Chemyreva, 2015. Russia: **FE** (PR). – Japan (Hok, Ryu).
- Spilomicrus compressus** Thomson, 1858 (*Spilomicrus carinatus* Kieffer, 1911; *S. crassipes* Kieffer, 1911). Russia: **EP** (NW, C). – Europe (WE, NE, EE).
- Spilomicrus formosus** Jansson, 1942. Russia: **FE** (KH, PR, SA, MG, CH). – Europe (WE, NE, EE), N America.
- Spilomicrus integer** Thomson, 1858. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Spilomicrus kumaonensis** Sharma, 1980. Russia: **FE** (KH, PR, KU). – Korean Peninsula, Japan (Hok, Hon), India, SE Asia.
- Spilomicrus lubomasneri** Chemyreva, 2015. Russia: **FE** (PR). – China (NE).
- Spilomicrus metopotrypus** Chemyreva, 2018. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok).
- Spilomicrus notaulus** Chemyreva, 2015. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Kyu).
- Spilomicrus nottoni** Chemyreva, 2015. Russia: **FE** (PR). – China (NE).
- Spilomicrus pilosiventris** Chemyreva, 2015. Russia: **FE** (PR). – China (SW), Korean Peninsula, Japan (Hok, Hon), SE Asia.
- Spilomicrus punctatus** Kozlov, 1978. Russia: **EP** (CR).
- Spilomicrus sergeyi** Chemyreva, 2015. Russia: **FE** (PR).
- Spilomicrus stigmatalis** Westwood, 1832 (*Spilomicrus nigripes* Thomson, 1858; *S. armatus* Ashmead, 1893; *S. tripartitus* Kieffer, 1911). Russia: **EP** (NW). – Europe (WE, NE, EE), N America.
- Spilomicrus tentorialis** Chemyreva, 2018. Russia: **FE** (PR). – Japan (Hon, Shi).
- Spilomicrus transversus** Chemyreva, 2018. Russia: **FE** (PR). – Japan (Hok, Hon, Shi).

27. FAMILY ISMARIDAE

V.G. CHEMEYREVA

The family Ismaridae consists of one genus, *Ismarus* Haliday, 1835. *Ismarus* has a worldwide distribution and is represented by a relatively small number of rare species in each zoogeographical region; some of them have wide distribution (Masner, 1976; Liu et al., 2011). These are small to medium-sized (1.5–3.5 mm) parasitoids with a mainly dark body. Female antenna 15-segmented, male antenna 14-segmented; male antennal segment 4 or rarely segments 3 and 4 have keels; antennae inserted only slightly above clypeus. Antennal shelf and notauli not developed. Wing venation is reduced, only a closed radial cell is developed. Metasoma with one large basal tergite and 5 narrow segments beyond it.

The members of this family are parasitoids of the cocoons of Dryinidae wasps, which themselves are primary parasites of plant bugs (Homoptera) (Nixon, 1957).

Number of taxa: World – 1 genus and 55 species, Palearctic – 1/13, Russia – 1/9.

References. Nixon, 1957; Masner, 1976; Alekseev, 1978; Kozlov, 1978a; Johnson, 1992; Liu et al., 2011; Kolyada, Chemyreva, 2016; Kim et al., 2018.

ISMARUS Haliday, 1835 (*Entomia* Herrich-Schäffer, 1840; *Agonophorus* Dahlbom, 1858). Type species: *Cinetus dorsiger* Haliday, 1831. Number of species: World – 55, Palearctic – 13, Russia – 9.

Ismarus apicalis Kolyada et Chemyreva, 2016. Russia: **FE** (PR, KU). – Europe (WE), China (NE), Korean Peninsula, Japan (Hok).

Ismarus brevis Kim et Lee, 2018. Russia: **FE** (PR). – Korean Peninsula.

Ismarus dorsiger (Haliday, 1831) [*Cinetus*] (*Betyla anomala* Nees, 1834; *Ismarus neesii* Foerster, 1850; *I. moravicus* Ogloblin, 1925). Hyperparasitoid of *Aphelopus serratus* Richards (Dryinidae). Russia: **EP** (NW, C, E). – Europe (WE, NE, SE, EE), China (SW), Korean Peninsula.

Ismarus flavicornis (Thomson, 1858) [*Entomius*]. Hyperparasitoid of *Anteon flavicorne* Dalm. (Dryinidae). Russia:

EP (NW, C, NC, CR), **FE** (KH). – Europe (WE, NE, SE, EE), N America.

Ismarus grandis Alekseev, 1978. Russia: **FE** (KH, PR, KU). – Korean Peninsula, Japan (Hok).

Ismarus halidayi Foerster, 1850 (*Entomia companulata* Herrich-Schäffer, 1840; *Ismarus longicornis* Thomson, 1858; *I. mongolicus* Szabó, 1974). Hyperparasitoid of *Anteon jurineanum* Latr. (Dryinidae). Russia: **EP** (NW, C, E, NC), **UR**, **ES** (KR, YA), **FE** (KH, PR, KU). – Europe (WE, NE, EE), N Africa, China, Korean Peninsula, Japan (Hok, Hon), Canada, USA.

Ismarus multiporus Kolyada et Chemyreva, 2016. Russia: **FE** (KH, PR, KU). – Korean Peninsula, Japan (Hok, Hon).

Ismarus rugulosus Foerster, 1850. Hyperparasitoid of *Anteon pubicorne* Dalm. and *Lonchodryinus ruficornis* Dalm. (Dryinidae); one specimen was reared from female of *Streptanus sordidus* Zett. (Cicadellidae). Russia: **EP** (NW, C, E), **UR**. – Europe (WE, NE, SE, EE), Kyrgyzstan, Kazakhstan, Korean Peninsula, N America.

Ismarus spinalis Kolyada et Chemyreva, 2016. Russia: **EP** (NW, C), **UR**, **ES** (BR, ZB), **FE** (KH, PR). – Kazakhstan, China (NE), Korean Peninsula, Japan (Hok, Hon).

SUPERFAMILY PLATYGASTROIDEA

A.V. TIMOKHOV

The classification of superfamily presented here follows Masner (1993, 1995) and Austin et al. (2005). The Platygastroidea are traditionally divided into two families, Platygastriidae and Scelionidae, however the high-level classification has undergone changes in the last decade. Based on the results of a phylogenetic analysis by Murphy et al. (2007), Sharkey (2007) formally synonymised Scelionidae under Platygastriidae. McKellar and Engel (2012) raised afterwards the tribes Sparasionini and Nixonini to family level and divided Platygastroidea into four families: Nixoniiidae, Sparasionidae, Scelionidae and Platygastriidae. Those higher classification changes have generally been rejected (Talamas, Buffington, 2015; Popovici et al., 2017). Until revised robust classification of Platygastroidea based on comprehensive phylogenetic analyses has not yet been developed, the traditional classification is followed.

References. Masner, 1993, 1995; Austin et al., 2005; Murphy et al., 2007; Sharkey, 2007; McKellar, Engel, 2012; Talamas, Buffington, 2015; Popovici et al., 2017.

28. FAMILY PLATYGASTRIDAE

Platygastriidae are tiny or small-sized insects (0.5–4.0 mm), usually black and shining or rarely pale brown in colour. Wing venation is totally or considerably reduced, fore wings at most with short tubular submarginal vein rarely surpassing the basal third of wing length. Wingless forms are rare. Antennae with 10 (rarely with 7–9) antennomeres, arising low on the face, usually club-shaped in females and filiform in males. The members of the subfamily Platygastriinae are koinobiont parasitoids attacking the eggs or early larval stages of gall midges (Cecidomyiidae). The subsequent postembryonic development of the parasitoid is delayed until the host has reached the prepupal or pupal stage and then preimaginal development of the parasitoid is rapidly completed. Some species of Platygastriinae are famous for their polyembryonic development. The members of the subfamily Sceliotrachelinae are idiobiont parasitoids attacking the eggs of a broad range of insects including Chrysomelidae, Curculionidae, Cerambycidae (Coleoptera) and Fulgoridae (Homoptera). Perhaps, due to gradual transition from true egg parasitism to parasitism of egg-like objects, some members of Sceliotrachelinae also attack the ovoid larvae of white flies (Aleyrodidae) or mealy bugs (Pseudococcidae). The species of Platygastriidae, especially those parasitizing gall midges, are important biological control agents in agroecosystems.

The family is distributed worldwide. Number of extant taxa: World – 2 subfamilies, 68 genera and about 2000 species, Palaearctic – 2/31/ more than 610, Russia – 2/17/54.

References. Kieffer, 1926; Tomšík, 1950; Hellén, 1968; Kozlov, 1971, 1978c, 1989; Huggert, 1980; Masner, Huggert,

1989; Vlug, 1995; Buhl, 1999, 2004, 2006, 2009; Buhl, Choi, 2006; Buhl, Notton, 2009; Buhl, Jørgensen, 2010; Ghahari, Buhl, 2011; Proshchalykin, 2012; Hymenoptera Online, 2019; Timokhov, 2019a.

Subfamily PLATYGASTRINAE

ACEROTELLA Masner, 1964 (*Acerota* auct. nec Foerster, 1856). **Type species:** *Acerota evanescens* Kieffer, 1914. Worldwide distributed genus. Number of species: World – 17, Palaearctic – 6, Russia – 3.

Acerotella boter (Walker, 1838) [Inostemma]. Russia: **EP** (N, NW). – Europe (WE, NE, EE), Georgia.

Acerotella evanescens (Kieffer, 1914) [Acerota]. Russia: **EP** (N). – Europe (WE, NE, EE).

Acerotella humilis (Kieffer, 1913) [Acerota]. Parasitoid was reared from *Achillea ptarmica* L. (Asteraceae) with *Rhopalomyia palearum* Kieff. (Cecidomyiidae) and other midges (*Ozirhincus millefolii* Wachtl, a *Contarinia* sp. and a predacious *Lestodiplosis* sp.) (Buhl, Jørgensen, 2010). Russia: **EP** (C). – Europe (WE, NE).

ACEROTETA Kozlov et Masner, 1977. **Type species:** *Aceroteta borealis* Kozlov et Masner, 1977. The genus is distributed almost worldwide, except for Chile and New Zealand (Masner, Huggert, 1989). Number of species: World – 2, Palaearctic and Russia – 1.

Aceroteta borealis Kozlov et Masner, 1977. Russia: **EP** (N). – N America.

AMBLYASPIS Foerster, 1856. **Type species:** *Platygaster tritici* Walker, 1835. Worldwide distributed genus; parasitoids of Cecidomyiidae. Number of species: World – 84, Palaearctic – 33, Russia – 4.

Amblyaspis aliena (Nees, 1834) [Platygaster] (*Amblyaspis obliqua* Kieffer, 1914). Russia: **EP** (NW, C). – Europe (WE, EE), Georgia.

Amblyaspis belus (Walker, 1836) [Platygaster]. Russia: **EP** (C). – Europe (WE, NE), Mongolia.

Amblyaspis nodicornis (Nees, 1834, nec Ratzeburg, 1844) [Platygaster]. Russia: **EP** (NW, C). – Europe (WE, NE, EE), Georgia.

Amblyaspis tritici (Walker, 1835) [Platygaster]. Russia: **EP** (N, NW, C), **UR, ES** (IR). – Europe (WE, NE, EE).

INOSTEMMA Haliday, 1833 (*Acerota* Foerster, 1856; *Ceraptopsilus* Kieffer, 1913; *Brachinostemma* Kieffer, 1916). **Type species:** *Psilus boscii* Jurine, 1807. Worldwide distributed genus; parasitoids of Cecidomyiidae. Number of species: World – 109, Palaearctic – 55, Russia – 7.

Inostemma boscii (Jurine, 1807) [Psilus]. Parasitoid of *Contarinia pisi* Winn., *C. jacobaeae* Loew, *Dasineura brassicae* Winn. and *D. pyri* Bouché (Cecidomyiidae). Russia: **EP** (NW, C), **WS** (AL). – Europe (WE, NE, EE), Korean Peninsula.

- Inostemma brevicornu** Vikberg, 1965. Russia: **EP** (NW). – Europe (NE).
- Inostemma dryope** Kozlov, 1974. Russia: **FE** (PR).
- Inostemma quinquearticulatum** Szélényi, 1938 (*Inostemma manevali* Debauche, 1947). Russia: **EP** (NW). – Europe (EE).
- Inostemma reticulatum** Szélényi, 1938. Parasitoid of *Dasi-neura brassicae* Winn. and *Oziorhincus tanacetii* Kieff. (Cecidomyiidae). Russia: **EP** (C). – Europe (WE, NE, EE), Iran, ? N America.
- Inostemma rossicum** (Szépligeti, 1901) [Isocybus]. Russia: **EP** (E).
- Inostemma walkeri** Kieffer, 1914. Parasitoid of *Jaapiella medicaginis* Rübsaamen and *Rhabdophaga heterobia* Loew (Cecidomyiidae). Russia: **EP** (NW, C). – Europe (WE, NE, EE).
- IPHITRACHELUS** Haliday, 1835. Type species: *Iphitrachelus lar* Haliday, 1835. The genus is distributed in the Palaearctic, Nearctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 8, Palaearctic – 4, Russia – 1.
- Iphitrachelus lar** Haliday, 1835. Russia: **FE** (PR). – Europe (WE, NE, EE), Korean Peninsula, N America, Sri Lanka, Indonesia, Tanzania, S America, Papua New Guinea, New Caledonia.
- ISOCYBUS** Foerster, 1856. Type species: *Platygaster grandis* Nees, 1834. The genus is distributed in the Palaearctic, Nearctic and Oriental regions. Parasitoids of Cecidomyiidae. Number of species: World – 32, Palaearctic – 26, Russia – 5.
- Isocybus bifracticornis** (Zetterstedt, 1838) [Platygaster] (*Platygaster unifracticornis* Zetterstedt, 1838; *Isocybus coxalis* Thomson, 1859). Russia: **EP** (C), **ES** (IR). – Europe (NE).
- Isocybus matuta** (Walker, 1835) [Platygaster]. Russia: **EP** (NW, S), **ES** (IR, YA). – Europe (WE, NE, EE).
- Isocybus pallidicornis** Thomson, 1859. Russia: **ES** (YA). – Europe (NE, EE).
- Isocybus thomsoni** Kieffer, 1926. Russia: **EP** (NW). – Europe (NE).
- Isocybus trochanteratus** Thomson, 1859. Russia: **EP** (NW). – Europe (WE, NE).
- ISOSTASIUS** Foerster, 1856 (*Monocrita* Foerster, 1856; *Trisinostemma* Kieffer, 1914). Type species: *Platygaster punctiger* Nees, 1834. Worldwide distributed genus; parasitoids of Cecidomyiidae. Number of species: World – 18, Palaearctic – 9, Russia – 2.
- Isostasius inserens** (Kirby, 1800) [Ichneumon]. Parasitoid of *Contarina tritici* Kirby (Cecidomyiidae). Russia: **EP** (C, E, NC). – Europe (WE, NE), Mongolia.
- Isostasius punctiger** (Nees, 1834) [Platygaster] (*Inostemma atinas* Walker, 1836; *I. scrutator* Walker, 1836). Parasitoid of *Contarina tritici* Kirby and *Sitodiplosis mosellana* Gehin (Cecidomyiidae). Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, EE), Mongolia.
- LEPTACIS** Foerster, 1856 (*Xestonotus* Foerster, 1856; *Mirambyaspis* Dodd, 1914; *Xestonotidea* Gahan, 1919; *Axestonotus* Kieffer, 1926; *Prosambyaspis* Kieffer, 1926; *Anacoryphe* Debauche, 1947; *Mandraka* Risbec, 1953). Type species: *Ichneumon tipulae* Kirby, 1798. Worldwide distributed genus; parasitoids of Cecidomyiidae. Number of species: World – 270, Palaearctic – 21, Russia – 7.
- Leptacis bitensis** Kieffer, 1916 (*Leptacis pubescens* Kieffer, 1913, nom. praeocc., nec Ashmead, 1893). Russia: **EP** (NW, C), ? **FE** (PR). – Europe (WE).
- Leptacis curvispinus** Kozlov, 1978. Russia: **EP** (C, NC). – Europe (EE).
- Leptacis halia** (Walker, 1836) [Platygaster]. Russia: **EP** (E). – Europe (WE, EE).
- Leptacis laodice** (Walker, 1836) [Platygaster] (*Leptacis buchi* Buhl, 1997). Russia: **EP** (NC). – Europe (WE, NE, EE), United Arab Emirates, Korean Peninsula.
- Leptacis lignicola** Kieffer, 1916. Parasitoid of larva of *Winertzia pinicola* Kieff. (Cecidomyiidae). Russia: **EP** (C), **WS** (NS). – Europe (WE, NE), Korean Peninsula.
- Leptacis orchymonti** (Debauche, 1947) [Anacoryphe]. Russia: **EP** (N), **UR**. – Europe (WE, NE), Mongolia, Korean Peninsula.
- Leptacis tipulae** (Kirby, 1798) [Ichneumon] (*Platygaster scutellaris* Nees, 1834; *Leptacis scutellaris* Thomson, 1859). Parasitoid of *Contarina tritici* Kirby and *Sitodiplosis mosellana* Gehin (Cecidomyiidae). Russia: **EP** (C). – Europe (WE, NE, EE).
- METACLISIS** Foerster, 1856 (*Parinostemma* Kieffer, 1914). Type species: *Inostemma areolata* Haliday, 1836. The genus is distributed in the Palaearctic, Nearctic and Neotropical regions. Parasitoids of gall midges (Cecidomyiidae). Number of species: World – 31, Palaearctic – 8, Russia – 1.
- Metaclisis areolata** (Haliday, 1836) [Inostemma] (*Metaclisis montagnei* Maneval, 1936 auct.). Russia: **EP** (N). – Europe (WE, NE, EE).
- PIESTOPLEURA** Foerster, 1856 (*Catillus* Foerster, 1856, nom. praeocc., nec Brongniart, 1822). Type species: *Platygaster catillus* Walker, 1835. The genus is distributed worldwide, except for Australia but one species was described from New Zealand. Parasitoids of gall midges (Cecidomyiidae), often suggested to be hyperparasitoids through other Platygastridae and Chalcidoidea. Number of species: World – 18, Palaearctic – 13, Russia – 1.
- Piestopleura catilla** (Walker, 1835) [Platygaster] (*Catillus walkeri* Foerster, 1856; *Piestopleura thomsoni* Kieffer, 1926). Parasitoid of *Thomasiniana theobaldi* Barnes (Cecidomyiidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE).

PLATYGASTER Latreille, 1809 (*Epimeces* Westwood, 1833, nom. praecoc., nec Bilberg, 1820; *Hypocampus* Foerster, 1856; *Isorhombus* Foerster, 1856; *Polygnotus* Foerster, 1856; *Coelopelta* Ashmead, 1893; *Aneuron* Brues, 1910; *Triplatygaster* Kieffer, 1913; *Misocyclops* Kieffer, 1914; *Parepimeces* Kieffer, 1926; *Paracyclops* Maneval, 1936; *Urocyclops* Maneval, 1936; *Pyrgaspis* Kozlov, 1967; *Anirama* Kozlov, 1970; *Parallelogaster* Huggert, 1973; *Criomica* Kozlov, 1975; *Cylindrogaster* Huggert, 1980; *Huggertella* Notton, 2006). Type species: *Scelio ruficornis* Latreille, 1805. Worldwide distributed genus; parasitoids of Cecidomyiidae. Number of species: World – 643, Palaearctic – about 250, Russia – 5.

Platygaster contorticornis Ratzeburg, 1844. Parasitoid of *Kaltenbachiola strobili* Winn. (Cecidomyiidae). Russia: **EP** (NW), **ES** (KR). – Europe (WE, NE, EE), Georgia, Kazakhstan.

Platygaster depressiventris Thomson, 1859 (*Paracyclops bettyae* Maneval, 1936; *Urocyclops roosevelti* Debauche, 1947; *U. humboldti* Fabritius et Grellmann, 1972). Russia: **EP** (N). – Europe (WE, NE, EE).

Platygaster hiemalis Forbes, 1888 (*Platygaster minutus* Lindeman, 1887, nom. praecoc., nec Zetterstadt, 1838; *P. minutula* Dalla Torre, 1898). Parasitoid of *Mayetiola destructor* Say (Cecidomyiidae). Russia: **EP** (C). – Europe (WE), N America.

Platygaster longestriolatus Thomson, 1859. Russia: **EP** (NW). – Europe (WE, NE).

Platygaster zosine Walker, 1836. Parasitoid of *Mayetiola destructor* Say and *M. avenae* Marchal (Cecidomyiidae). Russia: **EP** (C). – Europe (WE, EE), ? N America.

SYNOPEAS Foerster, 1856 (*Ectadius* Foerster, 1856; *Polymecus* Foerster, 1856; *Sactogaster* Foerster, 1856; *Dolichotrypes* Crawford et Bradley, 1911; *Stosta* Kozlov, 1975; *Haustagaster* Szabó, 1979). Type species: *Synopeas prospectum* Foerster, 1861. Worldwide distributed genus; parasitoids of Cecidomyiidae. Number of species: World – 376, Palaearctic – 100, Russia – 11.

Synopeas affine (Nees, 1834) [Platygaster]. Russia: **EP** (NW). – Europe (WE, NE).

Synopeas ciliatum Thomson, 1859. Russia: **EP** (N). – Europe (WE, NE).

Synopeas craterum (Walker, 1836) [Platygaster] (*Ectadius mamertes* Kieffer, 1926; *E. gynomamertes* Hincks, 1944). Parasitoid of *Thomasiniana ribis* Marikovskij (Cecidomyiidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, EE).

Synopeas decurvatum (Nees, 1834) [Platygaster]. Russia: **EP** (C). – Europe (WE, NE, EE).

Synopeas esenbecki Buhl, 1999. Russia: **EP** (N).

Synopeas hyllus (Walker, 1836) [Platygaster] (*Synopeas figitiformis* Thomson, 1859). Russia: **EP** (E), **FE** (PR). – Europe (WE, NE, EE), Georgia, Azerbaijan.

Synopeas inerme Thomson, 1859. Parasitoid of *Contarinia medecaginis* Kieff. and *Jaapiella veronicae* Vallot (Cecidomyiidae). Russia: **EP** (N). – Europe (WE, NE).

Synopeas muticum (Nees, 1834) [Platygaster]. Russia: **EP** (NW). – Europe (WE, NE, EE).

Synopeas myles (Walker, 1836) [Platygaster]. Parasitoid of *Dasineura marginemtorquens* Bremi (Cecidomyiidae). Russia: **EP** (C). – Europe (WE, NE, EE).

Synopeas tarsa (Walker, 1836) [Platygaster] (*Synopeas curvicauda* Foerster, 1856 auct.). Russia: **FE** (PR). – Europe (WE, EE), Iran.

Synopeas thysanus Kozlov, 1978. Russia: **EP** (N).

TRICHACIS Foerster, 1856. Type species: *Platygaster pisis* Walker, 1835. Worldwide distributed genus; parasitoids of Cecidomyiidae. Number of species: World – 65, Palaearctic – 17, Russia – 1.

Trichacis tristis (Nees, 1834) [Platygaster]. Parasitoid of *Mayetiola destructor* Say (Cecidomyiidae). Russia: **EP** (C). – Europe (WE, NE, EE), Georgia.

TRICHACOIDES Dodd, 1914. Type species: *Trichacoides scutellaris* Dodd, 1914. Parasitoids of gall midges (Cecidomyiidae). The genus is distributed worldwide, except for the Western Palaearctic, Nearctic and Afro-tropical regions. Number of species: World – 7, Palaearctic – 2, Russia – 1.

Trichacoides nikolskayae Kozlov, 1989. Russia: **FE** (PR).

Subfamily SCELIOTRACHELINAE

ALLOTROPA Foerster, 1856 (*Eurostemma* Szélényi, 1938; *Nasdia* Nixon, 1942; *Platyropa* Kozlov, 1976). Type species: *Inostemma mecrida* Walker, 1835. Parasites of mealybugs (Pseudococcidae). The genus is distributed worldwide, except for New Zealand. Some species were introduced in various parts of the world as biological control agents. Number of species: World – 33, Palaearctic – 9, Russia – 1.

Allotropa mecrida (Walker, 1835) [Inostemma]. Parasitoid of *Planococcus citri* Risso (Pseudococcidae). Russia: **EP** (N, C), **WS** (AL). – Europe (WE, NE, EE), Iran.

AMITUS Haldeman, 1850 (*Zacrita* Foerster, 1878; *Elaptus* Forbes, 1885; *Passalida* Brèthes, 1914). Type species: *Amitus aleurodinis* Haldeman, 1850. Parasitoids of pseudopuparia of whiteflies (Aleyrodidae). The genus is distributed worldwide, but due to introductions, several species are now almost cosmopolitan (Masner, Huggert, 1989; Buhl, 2009). Number of species: World – 23, Palaearctic – 6, Russia – 2.

Amitus longicornis (Foerster, 1878) [Zacrita]. Parasitoid of *Aleurochiton aceris* Modeer, *Aleurolobus wunni* Ryberg, *Asterobimisia carpini* Koch, *Bemisia silvatica* Danzig

and *Pealius quercus* Sign. (Aleyrodidae). Russia: **EP** (N, NW, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, ? Laos.

Amitus minervae Silvestri, 1911. Parasitoid of *Aleurochiton aceris* Modeer, *Aleurolobus olivinus* Silv. and *A. wunni* Ryberg (Aleyrodidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Iran, ? India.

FIDIOBIA Ashmead, 1894 (*Rosnetia* Brues, 1908; *Triclavus* Brèthes, 1916; *Fahringeria* Kieffer, 1921; *Platyllostropa* Szélnyi, 1938). Type species: *Fidiobia flavipes* Ashmead, 1894. Primary solitary endoparasitoids in eggs of Curculionidae and Chrysomelidae (Coleoptera). The genus is distributed worldwide except for Australasian region. Number of species: World – 48, Palaearctic – 6, Russia – 1.

Fidiobia rugosifrons Crawford, 1916 (*Fidiobia tatrae* Szélnyi, 1941; *Rosnetia phryne* Debauche, 1947). Egg parasitoid of *Hypera zoilus* Scop. (Curculionidae). Russia: **WS** (AL). – Europe (WE, NE, SE, EE), Uzbekistan, Kazakhstan, Mongolia, N America, Panama.

29. FAMILY SCELIONIDAE

Scelionidae are small parasitoids, 0.5–12.0 (usually 1.0–2.5) mm in length, predominantly black, sometimes yellow or multicolored, rarely with metallic tint. Antennae usually 11–12-segmented, occasionally 7- to 10-segmented, geniculate, inserted close together low down on face, in females usually with a prominent club; males with flagellomere 3 modified. Fore wing as a rule with submarginal, marginal, stigmal and postmarginal veins; hind wing in most genera with complete submarginal vein reaching hamuli; wings rarely without veins. Metasoma generally strongly sclerotized and noticeably depressed dorsoventrally.

All known scelionids are endoparasitic idiobionts of the eggs of arthropods, primarily insects but also arachnids. Representatives of the subfamily Scelioninae are parasitoids of insect (orders Orthoptera, Mantodea, Embioptera, Odonata, Hemiptera and Lepidoptera) and spider (Araneae) eggs. Probably all members of the subfamily Teleasinae parasitise eggs of Carabidae (Coleoptera). Parasitoids of the subfamily Telenominae develop as immatures within the eggs of other insects (orders Hemiptera, Lepidoptera, Diptera and Neuroptera). The majority of scelionids are solitary parasitoids, although a few telenomines that attack large lepidopteran eggs are known to be gregarious. The females of some species are phoretic on the adult insects whose eggs they parasitise, this allows them to find the recently laid host eggs easily. Scelionidae (especially those of the genera *Scelio*, *Telenomus*, *Trissolcus*, etc.) play important roles in the natural control of some insect pests and have potential significance as biological control agents in agriculture and forestry.

The classification presented here follows Masner (1993) with minor updates [e. g. Taekul et al. (2014) transferred *Psix* and *Paratelenomus* from Telenominae to Scelioninae].

The family is distributed worldwide. Number of extant taxa: World – 3 subfamilies, 167 genera and more than 4000 species, Palaearctic – 3/60/about 955, Russia – 3/35/368.

References. Thomson, 1859, 1860; Kieffer, 1912b, 1926; Fouts, 1948; Meier, 1949; Vasiliev, 1949; Zakhvatkin, 1954; Kozlov, 1961, 1963, 1965, 1967, 1971, 1973, 1976, 1978c, 1979; Kolomiets, 1962; Fabritius, 1964, 1970; Viktorov, 1964; Szabó, 1966; Boldaruev, 1969; Hellén, 1971; Ryakhovskiy, 1972, 1975; Kozlov, Lê, 1976, 1977; Masner, 1976; Kozlov, Kononova, 1977a, 1977b, 1978, 1979, 1981, 1983, 1985a, 1985b, 1986, 1987a, 1987b, 1988, 1989a, 1989b, 1990, 2000, 2002, 2004; Huggert, 1979, 1983; Kononova, 1979, 1987, 1992, 1995, 2008, 2014a, 2014b; Mineo, 1979, 1981, 2012; Johnson, Bin, 1982; Fergusson, 1983; Johnson, 1984; Ryu, Hirashima, 1984, 1985, 1989; Johnson, Masner, 1985, 2004; Mineo, Caleca, 1994; Buhl, 1995; Caleca, Bin, 1995; Kononova, Petrov, 1997, 2000, 2001a, 2001b; Kononova, Fursov, 1999, 2007; Kononova, Kozlov, 2000, 2001, 2008; Notton, 2006; Fabritius, Popovici, 2007; Mikó et al., 2010; Ghahari et al., 2011, 2015; Talamas et al., 2011, 2015, 2017; Kononova, Proshchalykin, 2012; Valerio et al., 2013; Taekul et al., 2014; Shamsi et al., 2015; Buhl et al., 2016; Popovici et al., 2018; Hymenoptera Online, 2019; Timokhov, 2019b; Tortorici et al., 2019.

Subfamily SCELIONINAE

ANTERIS Foerster, 1856 (*Paratrimorus* Kieffer, 1908; *Trichocolus* Kieffer, 1912). Type species: *Anteris bilineata* Thomson, 1859. The genus is distributed worldwide except for the Australasian region. Number of species: World – 12, Palaearctic – 8, Russia – 2.

Anteris perplexa (Kieffer, 1908) [*Paratrimorus*]. Russia: **FE** (PR, SA). – Europe (WE, SE, EE), Kyrgyzstan, Kazakhstan.

Anteris simulans Kieffer, 1908. Russia: **EP** (C), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, EE), Azerbaijan, Turkey, Iran.

APEGUS Foerster, 1856. Type species: *Apegus leptocerus* Foerster, 1856. The genus is recorded in the Palaearctic and Oriental regions. Number of species: World – 23, Palaearctic – 22, Russia – 6.

Apegus biroi Szabó, 1969 (*Apegus rufipes* Kozlov et Kononova, 1986). Russia: **EP** (CR). – Europe (EE), Kazakhstan.

Apegus kerteszi Kieffer, 1908 (*Apegus rugosulus* Kieffer, 1908; *A. striatus* Kieffer, 1908). Russia: **UR**. – Europe (EE), Turkey.

Apegus leptocerus Foerster, 1856. Russia: **EP** (CR). – Europe (WE, EE), Kazakhstan.

Apegus longicornis Kieffer, 1908. Russia: **EP** (CR). – Europe (SE, EE), Georgia, Kazakhstan.

Apepus minor Kieffer, 1913. Russia: **EP** (CR), **UR**. – Europe (SE, EE), Kazakhstan.

Apepus ruficornus Kozlov et Kononova, 1990. Russia: **EP** (CR).

ARADOPHAGUS Ashmead, 1893 (*Abuko* Masner et Huggert, 1979; *Ladora* Masner et Huggert, 1979). Type species: *Aradophagus fasciatus* Ashmead, 1893. Reliable host records are not available, Ashmead's (1893) original assumption of Aradidae (Hemiptera) as the host was never confirmed. The genus is distributed worldwide. Number of species: World – 12, Palaearctic – 4, Russia – 1.

Aradophagus fasciatus Ashmead, 1893. Russia: **FE** (PR). – Europe (WE, SE, EE), Uzbekistan, N America.

BAEUS Haliday, 1833 (*Hyperbaeus* Foerster, 1856; *Psilobaenus* Kieffer, 1926; *Paraneurobaeus* Risbec, 1956; *Anabaenus* Ogloblin, 1957; *Angolobaenus* Kozlov, 1970). Type species: *Baeus seminulum* Haliday, 1833. Egg parasitoids of various spiders, especially of the families Argiopidae, Lycosidae, Tetragnathidae and Theridiidae. The genus is distributed worldwide. Number of species: World – 53, Palaearctic – 5, Russia – 1.

Baeus seminulum Haliday, 1833. Egg parasitoid of spiders *Coelotes terrestris* Wider, *Eratigena picta* Simon (Agelenidae), *Dysdera erythrina* Walckenaer (Dysderidae), *Micryphantus* sp. (Linyphiidae) and *Theridion* sp. (Theridiidae). Russia: **EP** (NW, C, NC), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Georgia, Greenland.

BARYCONUS Foerster, 1856 (*Hoploteleia* Ashmead, 1893; *Rhacoteleia* Cameron, 1906; *Trichanteris* Kieffer, 1910; *Apepusoneura* Cameron, 1912; *Ivondrella* Risbec, 1956). Type species: *Baryconus floridanus* Ashmead, 1887. Members of this genus are reared from the eggs of *Phaneroptera* sp. (Orthoptera: Tettigoniidae). The genus is distributed worldwide. Number of species: World – 62, Palaearctic – 3, Russia – 2.

Baryconus bellatorius Kozlov et Kononova, 1986. Russia: **FE** (PR). – Turkmenistan, Japan.

Baryconus europaeus (Kieffer, 1908) [*Hoploteleia*] (*Hoploteleia punctata* Kieffer, 1908; *H. montana* Szabó, 1971; *Baryconus orbus* Kononova, 2008). Russia: **WS** (AL), **FE** (PR). – Europe (WE, SE, EE), Morocco, Turkey, Cyprus, Israel, United Arab Emirates, Kazakhstan, Japan, Vietnam, Maldives.

CALLISCELIO Ashmead, 1893 (*Ceratoteleia* Kieffer, 1908; *Prosanteris* Kieffer, 1908; *Uroscelio* Kieffer, 1914; *Mesoteleia* Kieffer, 1917; *Baryteleia* Kieffer, 1926; *Caenoteleia* Kieffer, 1926; *Glyptoteleia* Kieffer, 1926; *Crama* Galloway, 1984; *Lisptoteleia* Galloway, 1984; *Yunkara* Galloway, 1984; *Xentor* Masner et Johnson, 2007). Type species: *Calliscelio laticinctus* Ashmead, 1893. Egg parasitoids of crickets (Orthoptera: Gryllidae). The genus

is distributed worldwide. Number of species: World – more than 110, Palaearctic – 8, Russia – 2.

Calliscelio mirabilis Kozlov et Kononova, 1985. Russia: **FE** (PR).

Calliscelio urania Kozlov et Kononova, 1985. Russia: **FE** (PR).

CALOTELEA Westwood, 1837 (*Lamproteleia* Kieffer, 1910; *Pegoteleia* Kieffer, 1926). Type species: *Caloteleia aurantia* Hope, 1837. Egg parasitoids of dragonflies (Odonata: Aeshnidae) and Orthoptera. The genus is distributed worldwide. Number of species: World – 37, Palaearctic – 10, Russia – 2.

Caloteleia elegans (Masi, 1933) [*Baryconus*] (*Baryconus fasciatipennis* Sarra, 1930, nom. praeocc., nec *Lamproteleia fasciatipennis* Kieffer, 1910; *Caloteleia sarrai* Masner, 1976; *C. affinis* Kozlov et Kononova, 1989). Russia: **EP** (NC, CR). – Europe (WE, SE, EE), Israel.

Caloteleia striola Kononova, 2000. Russia: **FE** (PR). – Japan.

CERATOBAEUS Ashmead, 1893. Type species: *Ceratobaenus cornutus* Ashmead, 1893. The genus is distributed worldwide, vast majority of species occur in the Australasian region. Egg parasitoids of various spiders (families Ctenidae, Lamponidae, Salticidae, etc.). Number of species: World – 163, Palaearctic – 5, Russia – 2.

Ceratobaenus fursovi Kononova, 1997. Russia: **FE** (PR).

Ceratobaenus io Kozlov, 1979. Russia: **FE** (PR).

DICROSCELIO Kieffer, 1913 (*Anteromorpha* Dodd, 1913; *Govinda* Nixon, 1933; *Aegyptoscelio* Priesner, 1951; *Afroscelio* Risbec, 1956). Type species: *Dicroscelio flavipes* Kieffer, 1913. Egg parasitoids of crickets (Orthoptera: Gryllidae). The genus is distributed almost worldwide, apparently absent in New Zealand; most species were reported from the Afrotropical and Oriental regions. Number of species: World – 23, Palaearctic and Russia – 1.

Dicroscelio frequens (Priesner, 1951) [*Aegyptoscelio*]. Russia: **EP** (S, CR), **UR**, **FE** (PR). – Europe (EE), Egypt, Azerbaijan, Turkey, Israel, Turkmenistan, Kyrgyzstan, Kazakhstan, Mongolia, Japan, ? Vietnam.

DUTA Nixon, 1933 (*Chaetanteris* Priesner, 1951). Type species: *Holoteleia tenuicornis* Dodd, 1920. Egg parasitoids of ground crickets (Orthoptera: Gryllidae: Nemoibiinae). The genus is distributed worldwide. Number of species: World – 19, Palaearctic – 2, Russia – 1.

Duta tenuicornis (Dodd, 1920) [*Holoteleia*] (*Duta longimarginatus* Szabó, 1957). Russia: **FE** (PR, KU). – Europe (SE, EE), Egypt, Georgia, Azerbaijan, Japan, Indonesia, Afrotropics.

ENCYRTOSCELIO Dodd, 1914 (*Pachyscelidris* Szélenyi, 1941). Type species: *Encyrtoscelio mirissimus* Dodd, 1914. Egg parasitoids of burrowing bugs (Hemiptera:

Cydnidae). The genus is distributed in the Palaearctic, Afrotropical, Oriental and Australasian regions. Number of species: World – 12, Palaearctic – 5, Russia – 1.

Encyrtoscelio apterus (Szelényi, 1941) [Pachyscelidris] (*Encyrtoscelio masrensis* Priesner, 1951). Egg parasitoid of *Cydnus aterrimus* Foerster (Cydnidae). Russia: **EP** (CR), **FE** (PR). – Europe (SE, EE), Egypt, Georgia, Japan, India.

EREMIOSCELIO Priesner, 1951. Type species: *Eremioscelio cydnoides* Priesner, 1951. The genus is distributed in the Palaearctic and Afrotropical regions. Number of species: World, Palaearctic and Russia – 7.

Eremioscelio cultratus Kozlov, 1971. Russia: **EP** (CR), **ES** (ZB). – Europe (EE), Turkmenistan.

Eremioscelio cydnoides Priesner, 1951 (*Hadronotus bernardi* Maneval auct.). Russia: **EP** (C, S, NC, CR), **FE** (PR). – Europe (WE, SE, EE), Morocco, Algeria, Egypt, Georgia, Armenia, Turkey, United Arab Emirates, Iran, Pakistan, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.

Eremioscelio dichropterus (Kozlov, 1966) [Gryon]. Russia: **EP** (S, CR). – Europe (EE), Kazakhstan, Mongolia.

Eremioscelio lamia Kozlov, 1972. Russia: **EP** (S). – Europe (EE), Uzbekistan, Kazakhstan, Mongolia.

Eremioscelio lymantriae (Masner, 1958) [Hadronotus]. Egg parasitoid of *Lymantria dispar* L. (Erebidae). Russia: **EP** (CR). – Europe (WE, SE, EE), Azerbaijan, Iran, Tajikistan, Uzbekistan.

Eremioscelio tauricus Kozlov et Kononova, 1990. Russia: **EP** (CR). – Europe (EE).

Eremioscelio ukrainicus Kozlov et Kononova, 1990. Russia: **EP** (CR), **FE** (PR). – Europe (EE).

EXON Masner, 1980. Type species: *Exon californicum* Masner, 1980. The genus is distributed in the Holarctic region. Number of species: World – 4, Palaearctic – 3, Russia – 1.

Exon artum (Kozlov, 1963) [Mirotelenomus]. Russia: **EP** (S, NC, CR). – Europe (SE, EE), Georgia, Israel, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.

GRYON Haliday, 1833 (*Acolus* Foerster, 1856; *Hadronotus* Foerster, 1856; *Muscidea* Motschoulsky, 1863; *Plastogryon* Kieffer, 1908; *Psilacolus* Kieffer, 1908; *Holacolus* Kieffer, 1912; *Hadronotoides* Dodd, 1913; *Notilena* Brèthes, 1913; *Platyteleia* Dodd, 1913; *Telenomoides* Dodd, 1913; *Austrosclio* Dodd, 1914; *Hadronotellus* Kieffer, 1917; *Hadrophanurus* Kieffer, 1926; *Heterogryon* Kieffer, 1926; *Synteleia* Fouts, 1927; *Masneria* Szabó, 1966; *Pannongryon* Szabó, 1966; *Sundholmia* Szabó, 1966). Type species: *Gryon misellum* Haliday, 1833. Egg parasitoids of various true bugs (Hemiptera: Heteroptera: Coreidae, Alydidae, Pyrrhocoridae, Largidae, Pentatomidae, Scutelleridae and Reduviidae), some species have been reared from the eggs of Lepidoptera (Erebidae). The genus is distributed

worldwide. Number of species: World – 332, Palaearctic – more than 90, Russia – 28.

Gryon amissum Kozlov et Kononova, 1989. Russia: **FE** (PR).

Gryon anna Kozlov et Kononova, 1989. Russia: **FE** (PR). – Europe (EE).

Gryon bolivari (Giard, 1895) [Hadronotus] (*Hadronotus proximus* Kieffer, 1913; *H. ochraceus* Szabó, 1966). Egg parasitoid of true bugs Coreidae (*Coreus marginatus* L., *Phyllomorpha laciniata* Villers) and Rhopalidae. Russia: **EP** (NC, CR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, ? Cyprus, Iran, ? Mongolia.

Gryon callidum Kozlov et Kononova, 2004. Russia: **EP** (S, NC). – Europe (EE), Turkmenistan, Kazakhstan.

Gryon conicum Kozlov et Kononova, 1989. Russia: **ES** (ZB). – Europe (EE).

Gryon coronatum Kononova, 2008. Russia: **EP** (CR).

Gryon dubium Kozlov et Kononova, 2004. Russia: **EP** (S). – Kazakhstan.

Gryon exsculptum (Foerster, 1861) [Hadronotus] (*Hadronotus laticeps* Kieffer, 1908). Egg parasitoid of *Coreus marginatus* L. (Coreidae). Russia: **EP** (E, NC, CR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Israel, Mongolia.

Gryon fasciatum (Priesner, 1951) [Hadronotus]. Egg parasitoid of sunn pests *Eurygaster integriceps* Puton (Scutelleridae). Russia: **EP** (NW, C, NC, CR). – Europe (WE, EE), Egypt, Turkey, Syria, Iran, Kazakhstan, Mongolia, Somalia.

Gryon flaviventre Kononova, 2001. Russia: **EP** (CR). – Europe (EE), Georgia.

Gryon howardi (Mokrzecki et Ogloblin, 1931) [Hadronotus]. Egg parasitoid of *Lymantria dispar* L. (Erebidae). Russia: **EP** (CR), **WS** (AL), **ES** (ZB). – Europe (SE, EE), Azerbaijan, Turkmenistan.

Gryon investe (Kieffer, 1908) [Plastogryon]. Russia: **EP** (NW, C, E, S), **FE** (PR, SA, KU). – Europe (WE, EE), Turkmenistan, Kazakhstan.

Gryon leptocorisae (Howard, 1885) [Hadronotus] (*Hadronotus hungaricus* Szabó, 1966; *Gryon reduviophagus* Kozlov, 1971). Egg parasitoid of assassin bugs *Rhynocoris iracundus* Poda, *Rh. erythropus* L., *Sphecanolestes cingulatus* Fieber and *Zelus longipes* L. (Reduviidae). Russia: **FE** (PR). – Europe (WE, SE, EE), Georgia, Armenia, Turkey, Israel, Turkmenistan, Uzbekistan, Kazakhstan, N America.

Gryon maculatum Kozlov et Kononova, 2004. Russia: **ES** (ZB).

Gryon marina Kozlov et Kononova, 1989. Russia: **FE** (PR, KU).

Gryon misellum Haliday, 1833 (*Teleas pumilio* Nees, 1834; *Telenomus divisus* Wollaston, 1858; *Acolus basalis* Thomson, 1859; *A. opacus* Thomson, 1859; *Plastogryon foersteri* Kieffer, 1908; *P. sagax* Kieffer, 1908; *Gryon walkeri* Kieffer, 1913). Russia: **EP** (NW, C, E, NC), **FE** (PR, SA,

- KU). – Europe (WE, NE, SE, EE), Morocco, Azerbaijan, Turkey, Kazakhstan, N America.
- Gryon monspeliensis** (Picard, 1924) [Hadronotus] (*Hadronotus afanasievi* Meier, 1949; *H. telengai* Ryakhovskii, 1959; *Gryon laraichii* Mineo, 1979). Egg parasitoid of *Eurygaster integriceps* Puton and *E. maura* L. (Scutelleridae), *Aelia germari* Küster and *A. rostrata* Boh. (Pentatomidae). Russia: **EP** (C, E, NC, CR). – Europe (WE, NE, SE, EE), Morocco, Egypt, Azerbaijan, Turkey, Iran, Uzbekistan, Kazakhstan.
- Gryon muscaeforme** (Nees, 1834) [Teleas] (*Hadronotus pubescens* Kieffer, 1909). Egg parasitoid of *Gonocerus acuteangulatus* Goeze and *Coreus marginatus* L. (Coreidae). Russia: **EP** (NW, NC, CR), **WS** (AL). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Israel, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Gryon obtusum** Kozlov et Kononova, 2004. Russia: **FE** (PR).
- Gryon primum** Kozlov et Kononova, 2004. Russia: **FE** (PR).
- Gryon rufescens** Kozlov et Kononova, 2004. Russia: **ES** (ZB).
- Gryon rutilator** Kononova, 2008 (*Gryon fuscus* Kononova, 2001, nom. praeocc., nec Dodd, 1915). Russia: **EP** (CR). – Europe (EE).
- Gryon sibiricum** Kononova, 2001. Russia: **FE** (AM).
- Gryon sparsum** Kozlov et Kononova, 2004. Russia: **ES** (ZB).
- Gryon szaboi** (Mineo, 1991) [Hadronotellus] (*Hadronotellus hungaricus* Szabó, 1966, nom. praeocc., nec *Pannongryon hungaricum* Szabó, 1966). Egg parasitoid of *Lymantria dispar* L. and *Orgyia trigotephra* Bois. (Erebidae). Russia: **EP** (NC). – Europe (NE, SE, EE), Morocco.
- Gryon tauricum** Kozlov et Kononova, 1989. Russia: **EP** (CR).
- Gryon tobiasi** Kozlov et Kononova, 2004. Russia: **FE** (PR).
- Gryon trjapitzini** Kozlov et Kononova, 1989. Russia: **FE** (PR).
- IDRIS** Foerster, 1856 (*Acoloides* Howard, 1890; *Pseudobaeus* Perkins, 1910; *Dissacolus* Kieffer, 1926; *Megacolus* Priesner, 1951; *Philoplanes* Muesebeck et Walkley, 1956; *Tasmanacolus* Hickman, 1967; *Tasmanibaeus* Hickman, 1967). Type species: *Idris flavicornis* Foerster, 1856. Egg parasitoids of various spiders, especially of the families Agelenidae, Anyphaenidae, Ctenidae, Dictynidae, Gnaphosidae, Lycosidae, Philodromidae, Pisauridae, Salticidae, Theridiidae and Zoridae. The genus is distributed worldwide. Number of species: World – 160, Palaearctic – 52, Russia – 22.
- Idris amoenus** (Kononova, 1992) [Odontacolus]. Russia: **ES** (ZB).
- Idris ater** (Szelényi, 1953) [Acolus]. Russia: **EP** (NW, CR), **FE** (PR). – Europe (WE, NE, SE, EE).
- Idris coxalis** (Kieffer, 1908) [Acolus]. Russia: **EP** (S, CR), **FE** (PR). – Europe (WE, SE, EE).
- Idris dentatus** Kononova et Kozlov, 2001. Russia: **EP** (CR).
- Idris flavoclavatus** (Kieffer, 1908) [Acolus] (*Acolus hilaris* Szelényi, 1953). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Remarks.** *Idris meridionalis* (Masner, 1961) actually is not a synonym of *I. flavoclavatus* (Kieffer, 1908), though a part of specimens from its type series really belong to the latter species (Huggert, 1979).
- Idris fulgens** Kononova et Kozlov, 2001. Russia: **EP** (NC). – Europe (EE).
- Idris glorior** Kononova et Kozlov, 2001. Russia: **FE** (PR).
- Idris imitans** Kononova, 1995. Russia: **FE** (PR).
- Idris kononovae** Özdikmen, 2011 (*Idris bicolor* Kononova, 1995, nom. praeocc., nec Ashmead, 1893). Russia: **FE** (PR).
- Idris krygeri** (Kieffer, 1910) [Acolus] (*Idris coloris* Kononova, 1995; *I. krigeri*: Kononova, 1995, misspelling). Egg parasitoid of spiders from the genus *Lycosa* (Lycosidae). Russia: **EP** (NW), **FE** (PR). – Europe (NE, EE), Georgia, Kazakhstan.
- Idris lentor** Kononova, 1995. Russia: **FE** (KU).
- Idris leuculus** Kononova, 1995 (*Idris leunculus*: Kononova, Kozlov, 2001, misspelling). Russia: **FE** (AM, PR).
- Idris limbus** Kononova, 1995. Russia: **FE** (PR).
- Idris lucidus** Kononova, 1995. Russia: **FE** (PR).
- Idris maurus** Kononova, 1995. Russia: **FE** (PR).
- Idris nigriceps** Kononova, 1995. Russia: **EP** (S), **FE** (PR).
- Idris obscurans** Kononova et Petrov, 2001. Russia: **EP** (CR). – Europe (EE).
- Idris psammon** Szabó, 1965 (*Idris fumipennis* Szabó, 1965; *I. pseudofumipennis* Szabó, 1965). Russia: **EP** (S). – Europe (NE, SE, EE), Morocco, Kazakhstan.
- Idris striativentris** (Kieffer, 1909) [Acolus]. Russia: **EP** (CR), **FE** (PR, KU). – Europe (WE, SE, EE), Georgia, Azerbaijan.
- Idris sucidus** Kononova, 2001. Russia: **FE** (PR).
- Idris velox** Kononova, 1995. Russia: **FE** (PR).
- Idris vitreus** Kononova, 1995. Russia: **FE** (PR).
- MACROTELEIA** Westwood, 1835 (*Baeoneura* Foerster, 1856; *Parapegus* Kieffer, 1908; *Prosapegus* Kieffer, 1908; *Stictoteleia* Kieffer, 1926). Type species: *Macroteleia cleonymoides* Westwood, 1835. Some New World species are recorded as parasitoids of the katydid eggs (Orthoptera: Tettigoniidae). The genus is distributed worldwide. Number of species: World – 131, Palaearctic – 21, Russia – 8.
- Macroteleia bicolora** Kieffer, 1908. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Kazakhstan.
- Macroteleia brevigaster** Masner, 1976 (*Apegus punctatus* Kieffer, 1908, nom. praeocc., nec *Macroteleia punctata* Kieffer, 1904; *M. minor* Kozlov et Kononova, 1987). Russia: **EP** (CR). – Europe (WE, SE, EE).
- Macroteleia elissa** Kozlov et Kononova, 1987. Russia: **FE** (PR).
- Macroteleia laevifrons** Kozlov, 1971. Russia: **FE** (PR). – Tajikistan, Japan.
- Macroteleia mongolica** Szabó, 1973 (*Macroteleia pulchritinis* Kononova, 1992). Russia: **ES** (ZB). – Mongolia.
- Macroteleia punctifrons** Kozlov, 1971. Russia: **FE** (PR). – Europe (EE), Japan (Hon), Vietnam.

- Macroteleia rufa** Szelenyi, 1938 (*Macroteleia eremicola* Priesner, 1951). Russia: **EP** (NW, NC, CR). – Europe (EE), Egypt, Georgia, Azerbaijan, Tajikistan, China (SE), Japan (Hon), Thailand.
- Macroteleia variegata** Kozlov et Kononova, 1987. Russia: **FE** (PR). – Europe (EE).
- OPISTHACANTHA** Ashmead, 1893 (*Lapitha* Ashmead, 1893; *Raia* Ashmead, 1893; *Prolapitha* Kieffer, 1908; *Protrimorus* Kieffer, 1908; *Acanthoteleia* Kieffer, 1910; *Acantholapitha* Cameron, 1912; *Trissoscelio* Kieffer, 1917; *Gita* Nixon, 1933; *Vardhana* Nixon, 1933). Type species: *Opisthacantha mellipes* Ashmead, 1893. The genus is distributed worldwide, centred in the New World tropics, radiating into temperate zones. Number of species: World – 47, Palaearctic and Russia – 1.
- Opisthacantha atrata** Kozlov et Kononova, 1985. Russia: **FE** (PR).
- PARATELENOMUS** Dodd, 1914 (*Archiphanurus* Szabó, 1975). Type species: *Telenomus bicolor* Dodd, 1914. The genus is distributed worldwide except for South America. Egg parasitoids of turtle bugs (Hemiptera: Pentatomoidea: Plataspidae). Number of species: World – 13, Palaearctic and Russia – 1.
- Paratelenomus saccharalis** (Dodd, 1914) [*Telenomus*] (*Aphanurus graeffei* Kieffer, 1917; *Asolcus minor* Watanabe, 1954). Egg parasitoid of *Megacopta cribraria* F. and *M. punctatissimum* Montandon (Plataspidae). Russia: **EP** (S, NC), **FE** (PR). – Europe (WE, SE, EE), Iran, Japan, N America, India, Indonesia.
- PARIDRIS** Kieffer, 1908 (*Paranteris* Kieffer, 1910; *Aellenia* Masner, 1958; *Tuora* Kozlov, 1976; *Neoparidris* Galloway, 1984). Type species: *Idris laeviceps* Ashmead, 1893. Egg parasitoids of crickets (Orthoptera: Gryllidae). The genus is distributed worldwide, with the exception of New Zealand, predominantly in tropics. Number of species: World – 55, Palaearctic – 4, Russia – 1.
- Paridris nephta** (Kozlov, 1976) [*Tuora*]. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Shi, Kyu).
- PLESIOBAEUS** Kieffer, 1913. Type species: *Plesiobaeus hospes* Kieffer, 1913. Monotypic Palaearctic genus.
- Plesiobaeus hospes** Kieffer, 1913. Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE).
- PROBARYCONUS** Kieffer, 1908 (*Procacus* Kieffer, 1910; *Amblyconus* Kieffer, 1913; *Neurocacus* Kieffer, 1913; *Monoteleia* Kieffer, 1926; *Urundia* Risbec, 1957). Type species: *Baryconus* (*Probaryconus*) *spinosus* Kieffer, 1908. The genus is distributed worldwide, mainly tropical, radiating into temperate zones. Number of species: World – 44, Palaearctic – 2, Russia – 1.
- Probaryconus spinosus** (Kieffer, 1908) [*Baryconus*] (*Baryconus inermis* Kieffer, 1908; *B. rufipes* Kieffer, 1908; *Amblyconus quadridens* Kieffer, 1914; *A. aegyptiacus* Priesner, 1951; *Probaryconus cristatus* Mineo, 2004). Russia: **EP** (CR), ? **FE** (PR). – Europe (WE, SE, EE), Egypt, Azerbaijan, Turkey.
- Remarks.** This species was recorded for the Far East (Primorskiy Territory) by Kononova (1995), but it was not mentioned from this region in subsequent publications (Kononova, Kozlov, 2008).
- PSILANTERIS** Kieffer, 1916 (*Oxyphanurus* Kieffer, 1926). Type species: *Anteris bicolor* Kieffer, 1908. The genus is distributed worldwide, speciating mainly in the tropics. Number of species: World – 30, Palaearctic – 2, Russia – 1.
- Psilanteris bicolor** (Kieffer, 1908) [*Anteris*]. Russia: **EP** (NW, C, CR), **FE** (PR). – Europe (WE, NE, EE), Georgia, Azerbaijan, Turkey, Japan (Hok, Kyu), N America, Vietnam.
- SCELIO** Latreille, 1805 (*Scelionus* Rafinesque, 1815; *Serlion* Say, 1828; *Aleria* Marshall, 1874; *Caloptenobia* Riley, 1878; *Lepidoscelio* Kieffer, 1905; *Dichacantha* Kieffer, 1908; *Discelio* Kieffer, 1908; *Enneascelio* Kieffer, 1910). Type species: *Scelio rugosulus* Latreille, 1805. Egg parasitoids of various grasshoppers (Orthoptera: Acrididae). The genus is distributed worldwide. Number of species: World – 286, Palaearctic – 53, Russia – 25.
- Scelio alveolatus** Kononova, 2008. Russia: **FE** (PR).
- Scelio approbatus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Scelio coriaceus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Scelio correctus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Scelio crassus** Kozlov et Kononova, 2008 (*Scelio rufulus* Kozlov et Kononova, 1990, nom. praeecc., nec Muesebeck, 1972). Russia: **FE** (PR).
- Scelio desinens** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Scelio evanescens** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Scelio flavibarbis** (Marshall, 1874) [*Aleria*]. Egg parasitoid of *Locusta migratoria* L. (Orthoptera: Acrididae). Russia: **EP** (C), **WS** (AL), **ES** (IR). – Europe (WE, SE, EE), Iran, Kazakhstan.
- Scelio floridus** Kozlov et Kononova, 1990 (*Scelio rutilus* Kozlov et Kononova, 1990). Russia: **FE** (PR, KU). – Europe (EE).
- Scelio fulvipes** Foerster, 1856 (*Scelio luteipes* Kieffer, 1908). Russia: **EP** (E). – Europe (WE, EE).
- Scelio inermis** (Zetterstedt, 1838) [Sparasion]. Russia: **EP** (NW, C, CR), **ES** (YA), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Scelio lineolatus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Scelio magnus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Scelio maritimus** Kozlov et Kononova, 1990. Russia: **FE** (PR).

- Scelio muraii** Watanabe, 1955 (*Scelio gracilis* Kozlov et Kononova, 1990). Russia: **FE** (PR). – Japan (Hon, Kyu).
- Scelio plasticus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Scelio rugosulus** Latreille, 1805 (*Scelio ater* Spinola, 1811). Russia: **EP** (NW, C, E, S, NC, CR), **FE** (PR, SA, KU, MG). – Europe (WE, NE, EE), Georgia, Iran, Turkmenistan, Kazakhstan, Japan.
- Scelio rutilus** Kozlov et Kononova, 1990 (*Scelio cinctus* Kozlov et Kononova, 1990). Russia: **FE** (PR).
- Scelio striatellus** Kononova, 2008. Russia: **FE** (PR).
- Scelio tardus** Kozlov et Kononova, 2008 (*Scelio rufiventris* Kozlov et Kononova, 1990, nom. praeocc., nec Ashmead, 1893). Russia: **FE** (KH). – Europe (EE).
- Scelio transversalis** Kozlov et Kononova, 1990. **FE** (PR).
- Scelio vallecularis** Kozlov et Kononova, 1990. **FE** (PR).
- Scelio virens** Kononova, 2008. **FE** (PR).
- Scelio vulgaris** Kieffer, 1908 (*Scelio nakhlensis* Priesner, 1951). Egg parasitoid of grasshoppers *Chorthippus albomarginatus* Deg., *Ch. apricarius* L., *Gomphocerus sibiricus* L., *Stauroderus scalaris* F.-W. and *Stenobothrus nigromaculatus* H.-Sch. (Acrididae). Russia: **UR**, **ES** (IR). – Europe (WE, SE), Egypt, Georgia, Azerbaijan, Turkey.
- SPARASION** Latreille, 1802 (*Oxyurus* Lamarck, 1817; *Bebelus* Gistel, 1848; *Prosparasion* Kieffer, 1913). Type species: *Sparasion cephalotes* Latreille, 1802. Some Nearctic species are recorded as parasitoids of katydid eggs (Orthoptera: Tettigoniidae). The genus is distributed in the Palaearctic, Nearctic, Oriental and Afrotropical regions. Number of species: World – 146, Palaearctic – 123, Russia – 56.
- Sparasion aenescens** Foerster, 1856 (*Sparasion aenescens* var. *glabricornis* Kieffer, 1906; *S. punctulatus* Kieffer, 1906; *S. grilati* Kieffer, 1913; *S. glabricornis* Kieffer, 1926). Russia: **EP** (CR), **UR**, **ES** (YA, ZB). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Sparasion amoenus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion anatolyi** Kononova, 2001. Russia: **EP** (CR).
- Sparasion armatus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion arvalis** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion aureus** Kononova, 2008. Russia: **FE** (PR).
- Sparasion basalis** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion cephalotes** Latreille, 1802 (*Sparasion frontalis* Latreille, 1805; *Ceraphron cornutus* Jurine, 1807; *Sparasion carinatus* Zetterstedt, 1840; *S. dorsalis* Kieffer, 1906; *S. vicinus* Kieffer, 1906). Russia: **EP** (NW, C, E, NC, CR), **ES** (KS, IR, YA). – Europe (WE, NE, SE, EE), Kazakhstan.
- Sparasion dauricus** Kononova, 1992. Russia: **ES** (ZB).
- Sparasion distinctus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion dominulus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion emarginatus** Kieffer, 1906. Russia: **EP** (CR). – Europe (SE), Azerbaijan, Iran.
- Sparasion embolicus** Kononova, 1992. Russia: **ES** (ZB), **FE** (PR).
- Sparasion flavidus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion flavus** Kozlov et Kononova, 1990. Russia: **UR**. – Kazakhstan.
- Sparasion gholovushkini** Kononova, 1992. Russia: **ES** (ZB).
- Sparasion grandiosus** Kozlov et Kononova, 1990. Russia: **FE** (PR). – Kazakhstan.
- Sparasion grandis** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion horus** Kozlov et Kononova, 1990. Russia: **FE** (PR). – Europe (EE).
- Sparasion inclusus** Kozlov et Kononova, 1990 (*Sparasion lituratus* Kozlov et Kononova, 1990). Russia: **FE** (PR). – Europe (EE), Kazakhstan.
- Sparasion largus** Kononova, 2001. Russia: **EP** (CR). – Europe (EE), Kazakhstan.
- Sparasion lepidus** Foerster, 1856. Russia: **EP** (NW, C), **UR**, **ES** (YA). – Europe (WE, NE, EE), Kazakhstan.
- Sparasion longulus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion lunatus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion lunulatus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion luteolus** Kozlov et Kononova, 1990. Russia: **FE** (PR).
- Sparasion lutum** Kononova, 2008. Russia: **FE** (PR).
- Sparasion marshakovi** Kononova, 2001. Russia: **FE** (MG).
- Sparasion melanocerus** Kozlov et Kononova, 1990. Russia: **FE** (PR). – Europe (EE).
- Sparasion meridionator** Kozlov et Kononova, 1988. Russia: **FE** (PR).
- Sparasion metallicus** Kononova, 1992. Russia: **ES** (ZB).
- Sparasion modestus** Kozlov et Kononova, 1988. Russia: **ES** (KR).
- Sparasion mucronatus** Kozlov et Kononova, 1990. Russia: **EP** (CR).
- Sparasion munitus** Kozlov et Kononova, 1990. Russia: **EP** (CR).
- Sparasion muticus** Kozlov et Kononova, 1990. Russia: **EP** (CR).
- Sparasion nanus** Kozlov et Kononova, 1990. Russia: **FE** (SA).
- Sparasion nereus** Kozlov et Kononova, 1990. Russia: **EP** (CR).
- Sparasion nordus** Kononova, 2001. Russia: **FE** (MG).
- Sparasion obtusifrons** Kieffer, 1906. Russia: **EP** (CR). – Europe (WE, SE, EE).
- Sparasion perplexus** Kozlov et Kononova, 1990. Russia: **EP** (CR). – Georgia, Kazakhstan.

Sparasion punctatissimus Kieffer, 1906. Russia: **EP** (NC, CR). – Europe (WE, SE), Iran.

Sparasion ruber Kozlov et Kononova, 1990. Russia: **EP** (CR). – Tajikistan.

Sparasion rufipes Ruthe, 1859. Russia: **EP** (NW). – Europe (WE, NE).

Sparasion sachalensis Kozlov et Kononova, 1990. Russia: **FE** (SA, KU). – Europe (EE).

Sparasion scalaris Kozlov et Kononova, 1990. Russia: **FE** (PR).

Sparasion spectabilis Kozlov et Kononova, 1990. Russia: **FE** (PR).

Sparasion sulcatus Kozlov et Kononova, 1990. Russia: **FE** (PR).

Sparasion taigensis Kozlov et Kononova, 1990. Russia: **FE** (PR).

Sparasion tarsator Kozlov et Kononova, 1990 (*Sparasion umbrinus* Kozlov et Kononova, 1990). Russia: **FE** (PR).

Sparasion tenellus Kozlov et Kononova, 1990 (*Sparasion latens* Kononova, 2001). Russia: **EP** (CR). – Europe (EE), Turkmenistan, Kazakhstan.

Sparasion thestor Kononova, 2008. Russia: **ES** (ZB).

Sparasion timor Kononova, 2008. Russia: **EP** (C). – Europe (EE).

Sparasion truncatus Kononova, 2008. Russia: **EP** (CR).

Sparasion varipes Kozlov et Kononova, 1990. Russia: **FE** (PR).

Sparasion viator Kononova, 2008. Russia: **EP** (CR).

Sparasion vulgaris Kozlov et Kononova, 1990. Russia: **ES** (ZB).

THORON Haliday, 1833 (*Neothoron* Masner, 1972). Type species: *Thoron metallicus* Haliday, 1833. Egg parasitoids of water scorpions (Hemiptera: Nepidae). The genus is represented in the Palaearctic, Nearctic, Oriental and Neotropical regions. Number of species: World – 9, Palaearctic and Russia – 1.

Thoron metallicus Haliday, 1833 (*Teleas fornicatus* Nees, 1834; *T. solidus* Nees, 1834; *Thoron gibbus* Ruthe, 1859; *Anteris nepae* Ferrière, 1916). Egg parasitoid of *Nepa cinerea* L. (Nepidae). Russia: **EP** (C), **ES** (KS). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Turkey, N America.

TIPHODYTES Bradley, 1902 (*Limnodytes* Marchal, 1900, nom. praeocc., nec Duméril et Bibron, 1841; *Hungaroscelio* Szabó, 1957). Type species: *Limnodytes gerriphagus* Marchal, 1900. Egg parasitoids of water striders (Hemiptera: Gerridae). The genus is reported from the Palaearctic, Nearctic, Oriental and Australasian regions. Number of species: World – 16, Palaearctic – 3, Russia – 1.

Tiphodytes gerriphagus (Marchal, 1900) [*Limnodytes*] (*Hungaroscelio kaszabi* Szabó, 1957). Egg parasitoid of water striders from the genera *Gerris*, *Limnoporus* and *Trepobates* (Gerridae). Russia: **EP** (NW, C), **FE**

(PR). – Europe (WE, NE, SE, EE), Uzbekistan, Japan (Hon, Shi), N America.

TRITELEIA Kieffer, 1906 (*Discogeriscelio* Szabó, 1956). Type species: *Triteleia punctaticeps* Kieffer, 1906. Egg parasitoids of longhorned grasshoppers (Orthoptera: Tettigoniidae). The genus is distributed worldwide. Number of species: World – 34, Palaearctic – 4, Russia – 2.

Triteleia minor Kozlov et Kononova, 1985. Russia: **FE** (PR).

Triteleia minoria Kozlov et Kononova, 1985. Russia: **FE** (PR).

Subfamily TELEASINAE

CERATOTELEAS Kozlov, 1965. Type species: *Ceratoteleas bidentatus* Kozlov, 1965. Monotypic Eastern Palaearctic genus.

Ceratoteleas bidentatus Kozlov, 1965. Russia: **FE** (PR).

TELEAS Latreille, 1809 (*Cinipsillum* Lamarck, 1817; *Proteleas* Kozlov, 1961). Type species: *Scelio clavicornis* Latreille, 1805. Egg parasitoids of ground beetles (Coleoptera: Carabidae). The genus is distributed worldwide. Number of species: World – 37, Palaearctic – 27, Russia – 13.

Teleas lamellatus Szabó, 1956. Egg parasitoid of *Zabrus tenebrioides* Goeze (Carabidae). Russia: **EP** (NW, S, CR), **ES** (ZB). – Europe (EE), Armenia, Azerbaijan, Turkey, Kyrgyzstan, Kazakhstan, Mongolia.

Teleas neophytus Kononova, 1992 (*Teleas neophytus* Kononova et Kozlov, 2001). Russia: **ES** (ZB).

Teleas nepotatus (Kononova, 1993) [Proteleas]. Russia: **FE** (PR).

Teleas nigrans (Kononova, 1993) [Proteleas]. Russia: **FE** (PR).

Teleas quinquespinosus Szabó, 1956. Russia: **EP** (C, NC, CR), **ES** (IR, ZB). – Europe (EE), Georgia, Armenia, Azerbaijan.

Teleas reticulatus Kieffer, 1908. Russia: **EP** (S, CR). – Europe (EE).

Teleas rugosus Kieffer, 1908 (*Teleas caraboides* Telenga, 1959). Egg parasitoid of *Zabrus tenebrioides* Goeze and ground beetles of the genera *Amara* and *Harpalus* (Carabidae). Russia: **EP** (C, E, NC, CR), **UR**, **FE** (PR, MG). – Europe (SE, EE), Armenia, Turkey, Kazakhstan.

Teleas scutellaris Kieffer, 1908 (*Teleas nigriscrus* Kieffer, 1908). Russia: **EP** (CR). – Europe (EE).

Teleas sibiricus Kieffer, 1908 (*Teleas myrmecobius* Kieffer, 1910). Russia: **EP** (C, NC), **ES** (IR, ZB), **FE** (PR). – Europe (WE, EE), Georgia, Azerbaijan, Turkmenistan, Kazakhstan, Canada.

Teleas strigatus Kozlov, 1965. Russia: **FE** (PR). – Japan (Hon, Kyu).

Teleas sulcatus (Kozlov, 1961) [Proteleas]. Egg parasitoid of *Zabrus tenebrioides* Goeze (Carabidae). Russia: **EP** (S,

- NC, CR), **FE** (PR). – Europe (EE), Georgia, Azerbaijan, Iran, Turkmenistan, Korean Peninsula, Japan (Hon, Kyu).
- Teleas szaboi** Fabritius, 1964 (*Proteleas rugosus* Kozlov, 1961, nom. praeocc., nec *Teleas rugosus* Kieffer, 1908). Russia: **EP** (NC). – Europe (EE), Azerbaijan.
- Teleas tridentatus** (Kozlov, 1961) [Proteleas]. Russia: **EP** (NC), **FE** (PR). – Georgia, Kazakhstan, Japan (Hon, Kyu).
- TRIMORUS** Foerster, 1856 (*Trichasius* Provancher, 1887; *Pentacantha* Ashmead, 1888; *Hoplogryon* Ashmead, 1893; *Paragryon* Kieffer, 1908; *Allogryon* Kieffer, 1910; *Hemimorus* Cameron, 1912; *Propentacantha* Kieffer, 1926; *Brachyscelio* Risbec, 1950; *Pachyscelio* Risbec, 1954; *Scutelligryon* Szabó, 1966). Type species: *Gryon nanno* Walker, 1836. The Nearctic species, *Trimorus caraborum* (Riley) is a parasitoid of the eggs of the ground beetle *Chlaenius impunctifrons* Say (Coleoptera: Carabidae) (Fouts, 1948). The genus is distributed worldwide, being most abundant in temperate zones. Number of species: World – 389, Palaearctic – about 90, Russia – 52.
- Trimorus algicola** (Kieffer, 1910) [Paragryon] (*Paragryon baloghi* Szabó, 1959). Russia: **EP** (NW, CR). – Europe (WE, EE), Azerbaijan, Kazakhstan.
- Trimorus amesis** Kononova et Kozlov, 2001. Russia: **FE** (PR).
- Trimorus angulator** Kononova et Kozlov, 2001. Russia: **ES** (ZB).
- Trimorus angustipennis** (Kieffer, 1908) [Hoplogryon]. Russia: **EP** (NW). – Europe (WE).
- Trimorus arenicola** (Thomson, 1859) [Prosacantha] (*Hoplogryon subsulcatus* Kieffer, 1908). Russia: **EP** (NC), **ES** (ZB), **FE** (PR). – Europe (NE, SE, EE).
- Trimorus argillosus** Kozlov et Kononova, 2002 (*Trimorus argillosus* Kozlov et Kononova, 2001, nomen nudum). Russia: **FE** (PR, SA). – Europe (EE).
- Trimorus armatus** Kononova et Kozlov, 2001. Russia: **FE** (PR).
- Trimorus biroi** (Szabó, 1957) [Trisacantha]. Russia: **EP** (E). – Europe (EE).
- Trimorus bisulcatus** (Kieffer, 1908) [Hoplogryon]. Russia: **EP** (C, CR), **FE** (PR). – Europe (WE, EE), Azerbaijan, Kazakhstan.
- Trimorus butus** Kononova et Kozlov, 2001. Russia: **FE** (KU).
- Trimorus calcaratus** Kononova et Kozlov, 2001. Russia: **FE** (PR).
- Trimorus corum** Kononova et Kozlov, 2001. Russia: **EP** (CR).
- Trimorus coxalis** (Thomson, 1859) [Prosacantha]. Russia: **FE** (PR). – Europe (WE, NE).
- Trimorus cursitans** (Kieffer, 1908) [Hoplogryon]. Russia: **EP** (NW). – Europe (WE, EE).
- Trimorus cursor** (Kieffer, 1908) [Hoplogryon]. Russia: **EP** (NW), **FE** (PR). – Europe (WE, EE).
- Trimorus decoratus** Kononova et Kozlov, 2001. Russia: **FE** (PR).
- Trimorus delusorius** Kononova et Kozlov, 2000. Russia: **EP** (C). – Europe (EE), Azerbaijan.
- Trimorus diversus** Kozlov et Kononova, 2002 (*Trimorus diversus* Kozlov et Kononova, 2001, nomen nudum). Russia: **FE** (PR).
- Trimorus elongatus** (Kieffer, 1908) [Hoplogryon]. Russia: **FE** (PR). – Europe (WE, SE, EE), Georgia.
- Trimorus ephippium** (Walker, 1836) [Teleas]. Russia: **EP** (E). – Europe (WE, EE).
- Trimorus fimbriatus** (Kieffer, 1908) [Hoplogryon]. Russia: **EP** (CR), **FE** (KU). – Europe (WE, EE).
- Trimorus flavipes** (Haliday, 1830) [Teleas] (*Teleas flavipes* Walker, 1836; *Prosacantha angustula* Thomson, 1859; *P. similis* Thomson, 1859; *Hoplogryon incompletus* Kieffer, 1908; *H. rufimanus* Kieffer, 1908; *H. tardus* Kieffer, 1908). Russia: **EP** (C, CR), **FE** (KU). – Europe (WE, NE, EE).
- Trimorus fulvimanus** (Kieffer, 1908) [Hoplogryon]. Russia: **EP** (CR). – Europe (WE).
- Trimorus latius** Kononova et Kozlov, 2001. Russia: **ES** (ZB), **FE** (PR).
- Trimorus lugubris** Kozlov et Kononova, 2002 (*Trimorus lugubris* Kozlov et Kononova, 2001, nomen nudum). Russia: **FE** (PR).
- Trimorus luteator** Kononova et Kozlov, 2001. Russia: **ES** (ZB), **FE** (PR). – Europe (EE).
- Trimorus lycaon** (Walker, 1836) [Teleas]. Russia: **ES** (IR). – Europe (WE).
- Trimorus mirandus** Kononova et Kozlov, 2001. Russia: **FE** (PR). – Europe (EE).
- Trimorus miratus** Kononova et Kozlov, 2001. Russia: **FE** (PR, SA).
- Trimorus mirificus** Kozlov et Kononova, 2000. Russia: **FE** (PR).
- Trimorus nasutus** Kononova et Kozlov, 2000. Russia: **FE** (SA, KU).
- Trimorus nigratus** Kononova et Kozlov, 2001. Russia: **EP** (CR), **FE** (PR).
- Trimorus nitidulus** (Thomson, 1859) [Prosacantha] (*Hoplogryon pleuralis* Kieffer, 1908). Russia: **EP** (C, NC, CR). – Europe (WE, NE, EE), Azerbaijan.
- Trimorus osticus** Kononova et Kozlov, 2001. Russia: **ES** (ZB), **FE** (PR).
- Trimorus ovatus** (Thomson, 1859) [Prosacantha] (*Prosacantha orbiculata* Thomson, 1859; *P. petiolaris* Thomson, 1859). Russia: **EP** (NW, C). – Europe (NE, EE), Turkmenistan.
- Trimorus pallidimanus** (Kieffer, 1908) [Hoplogryon]. Russia: **EP** (C, CR), **ES** (ZB). – Europe (SE, EE), Azerbaijan.
- Trimorus pallipes** (Thomson, 1859) [Prosacantha]. Russia: **EP** (NW), **UR**, **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, EE), Kazakhstan.
- Trimorus pedes** (Kieffer, 1908) [Hoplogryon]. Russia: **FE** (PR). – Europe (WE), Georgia.
- Trimorus pedestris** (Nees, 1834) [Teleas] (sensu Kononova et Kozlov, 2001). Russia: **EP** (NW, C), **WS** (AL), **ES** (KR). – Europe (WE, NE).

- Trimorus puncticollis** (Thomson, 1859) [Prosacantha] (*Prosacantha hyalinipennis* Thomson, 1859). Russia: **EP** (CR), **UR**, **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey.
- Trimorus punctulator** (Ruthe, 1859) [Prosacantha]. Russia: **EP** (NW, C, NC), **WS** (AL). – Europe (WE, NE, EE), Greenland.
- Trimorus rotundiventris** (Thomson, 1859) [Prosacantha]. Russia: **EP** (C). – Europe (WE, NE, EE).
- Trimorus rubens** Kononova et Kozlov, 2000. Russia: **FE** (PR).
- Trimorus rubidus** Kononova et Kozlov, 2000. Russia: **ES** (ZB), **FE** (PR). – Europe (EE).
- Trimorus rufipes** (Thomson, 1859) [Prosacantha]. Russia: **EP** (NW), **WS** (AL), **FE** (PR). – Europe (NE).
- Remarks.** *Trimorus rufipes* was erroneously reported for Tajikistan.
- Trimorus rusticus** Kononova et Kozlov, 2000. Russia: **FE** (PR).
- Trimorus tenebrosus** Kononova et Kozlov, 2001. Russia: **EP** (CR).
- Trimorus tentator** Kononova et Kozlov, 2000. Russia: **ES** (ZB), **FE** (PR).
- Trimorus therycides** (Walker, 1836) [Teleas] (*Teleas doto* Walker, 1836; *T. mermerus* Walker, 1836; *T. smerdis* Walker, 1836; *Prosacantha brachyptera* Thomson, 1859; *P. chloropus* Thomson, 1859; *Hoplogryon agilis* Kieffer, 1908; *H. fuscimanus* Kieffer, 1908; *H. microtomus* Kieffer, 1908). Russia: **EP** (NW, C, CR), **FE** (PR). – Europe (WE, NE, EE), Georgia.
- Trimorus varicornis** (Walker, 1836) [Teleas] (*Teleas metabus* Walker, 1836; *Prosacantha grandis* Thomson, 1859; *P. minor* Thomson, 1859; *P. spinosa* Szépligeti, 1901; *Pentacantha rufimanus* Kieffer, 1908; *Aptesis unicolor* Rudow, 1917). Russia: **ES** (YA), **FE** (PR, SA). – Europe (WE, NE, SE, EE).
- Trimorus xenetus** (Walker, 1836) [Teleas]. Russia: **EP** (CR), **ES** (IR), **FE** (SA). – Europe (WE, EE), Georgia, Kazakhstan.
- Trimorus zonator** Kononova et Kozlov, 2001. Russia: **FE** (PR).
- XENOMERUS** Walker, 1836 (*Niteogryon* Szabó, 1966). Type species: *Xenomerus ergenna* Walker, 1836. Egg parasitoids of ground beetles (Coleoptera: Carabidae: Dromiini). The genus is distributed in the Old World, including Australia. Number of species: World – 35, Palaearctic – 6, Russia – 4.
- Xenomerus buccatus** (Kononova et Kozlov, 2001) [Trimorus]. Russia: **FE** (KU).
- Xenomerus canariensis** Huggert, 1979 (*Trimorus mutator* Kononova et Kozlov, 2001; *Xenomerus hibernicus* Mineo et O'Connor, 2009). Russia: **EP** (CR), **FE** (KU). – Europe (WE, SE, EE), Korean Peninsula, Nepal, Afrotropics.
- Xenomerus cornutus** (Kononova et Kozlov, 2001) [Trimorus]. Russia: **FE** (PR). – Japan (Hon).
- Xenomerus ergenna** Walker, 1836 (*Teleas medon* Walker, 1836; *Trimorus curtum* Kononova et Petrov, 1999). Egg

parasitoid of ground beetles of the genus *Dromius* (Carabidae). Russia: **EP** (NW, C, CR), **UR**, **WS** (AL), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Korean Peninsula, Japan (Hok, Hon, Shi), India.

Subfamily TELENOMINAE

- BAEONEURELLA** Dodd, 1913 (*Eumicrosoma* Gahan, 1913; *Nardo* Nixon, 1938; *Szelenyiella* Szabó, 1957). Type species: *Baeoneurella bella* Dodd, 1913. Egg parasitoids of chinch bugs (Hemiptera: Lygaeidae). The genus is distributed worldwide. Number of species: World – 14, Palaearctic – 5, Russia – 1.
- Baeoneurella beneficum** (Gahan, 1913) [Eumicrosoma]. Egg parasitoid of *Blissus insularis* Barber, *B. leucopterus* Say and *Ischnodemus fulvipes* Deg. (Lygaeidae: Blissinae). Russia: **EP** (NC). – Europe (EE), N America.
- PHANUROMYIA** Dodd, 1914 (*Issidotelenomus* Pélov, 1975). Type species: *Phanuromyia rufobasalis* Dodd, 1914. The former *Telenomus aradi* species group by Kozlov and Kononova (1983) and the *T. crassiclava* group by Johnson (1984) have been subsumed within *Phanuromyia* (Taekul et al., 2014). Egg parasitoids of auchenorrhynchous bugs, planthoppers (Hemiptera: Auchenorrhyncha: Fulgoridae, Issidae); records of its rearing from the eggs of flat bugs (Hemiptera: Heteroptera: Aradidae) may be erroneous. The genus is distributed worldwide. Number of species: World – 59, Palaearctic – 26, Russia – 12.
- Phanuromyia afficis** (Kozlov et Kononova, 1983) [Telenomus]. Russia: **EP** (NC).
- Phanuromyia aradi** (Kozlov, 1967) [Telenomus] (*Telenomus macrurus* Kozlov et Kononova, 1987). Records of its rearing from eggs of the pine flat bug, *Aradus cinnamomeus* Panzer (Aradidae), may be erroneous. Russia: **EP** (NW, C), **FE** (PR). – Europe (EE), Georgia.
- Phanuromyia aspera** (Kozlov et Kononova, 1978) [Telenomus]. Russia: **WS** (AL). – Europe (NE, EE), Georgia.
- Phanuromyia flaviventris** (Kozlov et Kononova, 1978) [Telenomus]. Russia: **WS** (AL). – Mongolia.
- Phanuromyia marshakovi** (Kozlov et Kononova, 1983) [Telenomus]. Russia: **FE** (MG).
- Phanuromyia meridiana** (Kozlov et Kononova, 1983) [Telenomus]. Russia: **EP** (C, S), **WS** (AL), **ES** (TU). – Europe (EE), Kazakhstan, Mongolia.
- Phanuromyia moldoviana** (Özdikmen, 2011) [Telenomus] (*Telenomus minimus* Kozlov, 1967). Russia: **WS** (AL), **FE** (PR). – Europe (EE).
- Phanuromyia minuscula** (Kozlov et Kononova, 1983) [Telenomus]. Russia: **WS** (AL).
- Phanuromyia nioba** (Kozlov et Kononova, 1977) [Telenomus]. Russia: **FE** (PR).
- Phanuromyia picta** (Kozlov, 1972) [Telenomus]. Russia: **WS** (AL). – Mongolia.

- Phanuromyia rubella** (Kozlov et Kononova, 1983) [Telenomus]. Russia: **WS** (AL).
- Phanuromyia sacchii** (Ogloblin, 1930) [Telenomus] (*Telenomus obscuripes* Pélov, 1975; *T. oocidus* Pélov, 1975; *T. tuberculus* Kozlov et Kononova, 1977; *T. punctigaster* Szabó, 1981). Egg parasitoid of *Agalmatium flavescens* Oliv. (Issidae). Russia: **EP** (CR). – Europe (SE, EE), Georgia, Turkey.
- TELENOMUS** Haliday, 1833 (*Hemisius* Westwood, 1833; *Phanurus* Thomson, 1860; *Dissolcus* Ashmead, 1893; *Neonecremnus* Brèthes, 1909; *Allophanurus* Kieffer, 1912; *Homophanurus* Kieffer, 1912; *Liophanurus* Kieffer, 1912; *Prophanurus* Kieffer, 1912; *Aholcus* Kieffer, 1913; *Nanopria* Kieffer, 1913; *Dissolcoides* Dodd, 1913; *Neoteleia* Dodd, 1913; *Neotelenomus* Dodd, 1913; *Platyntelenomus* Dodd, 1914; *Paridris* Brèthes, 1917; *Pseudotelenomus* Costa Lima, 1928; *Micromymar* Risbec, 1950; *Aporophlebus* Kozlov, 1970; *Issidotelenomus* Pélov, 1975; *Pseudophanurus* Szabó, 1975; *Pseudotelenomoides* Szabó, 1975; *Verrucosicephalia* Szabó, 1975; *Robertella* Mineo, 2004). Type species: *Telenomus brachialis* Haliday, 1833. Egg parasitoids of various Lepidoptera, Hemiptera (Pentatomidae, Scutelleridae, Lygaeidae, Reduviidae, Miridae, Cicadidae), Neuroptera (Chrysopidae and Berothidae) and Diptera (Tabanidae and Stratiomyidae). The genus is distributed worldwide. Number of species: World – 630, Palaearctic – about 260, Russia – 87.
- Telenomus abdominalis** Kozlov, 1971. Russia: **EP** (N), **FE** (PR). – Europe (EE), Japan.
- Telenomus aberrans** Kozlov, 1967. Russia: **EP** (CR). – Europe (SE), Armenia, Azerbaijan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Mongolia.
- Telenomus acamas** Kozlov et Kononova, 1977. Russia: **FE** (PR).
- Telenomus acarnas** Kozlov et Kononova, 1977. Russia: **FE** (PR).
- Telenomus acrobates** Giard, 1895. Egg parasitoid of green lacewings *Chrysopa flava* Scop., *Ch. formosa* Brauer and *Ch. perla* L. (Chrysopidae). Russia: **EP** (C, NC). – Europe (WE, SE, EE), Caucasus, Uzbekistan, Kazakhstan, Mongolia, China (CC), Japan (Hon, Shi, Kyu).
Remarks. Status uncertain (Johnson, Bin, 1982): proposed synonymy under *Telenomus chrysopae* Ashmead, 1893.
- Telenomus adonis** Kozlov et Kononova, 1983. Russia: **EP** (NC).
- Telenomus aeolus** Kozlov et Kononova, 1981. Russia: **FE** (PR).
- Telenomus albator** Kononova, 1986. Russia: **EP** (C, NC), **FE** (PR, SA, KU). – Europe (EE), Azerbaijan, Turkey, Uzbekistan, Kyrgyzstan, Japan.
- Telenomus albicoxatus** Kozlov et Kononova, 1987. Russia: **FE** (PR).
- Telenomus amymone** Kozlov et Kononova, 1977. Egg parasitoid of *Epidaus tuberosus* Yang (Reduviidae). Russia: **FE** (PR).
- Telenomus angustatus** (Thomson, 1860) [Phanurus] (*Phanurus coccivorus* Mayr, 1879; *Telenomus tabani* Mayr, 1879; *T. oophagus* Nikolskaya, 1948; *Pseudotelenomoides stratiomyidarum* Szabó, 1975; *Telenomus praetabani* Szabó, 1978). Egg parasitoid of horseflies of the genera *Tabanus* and *Hybomitra* (Tabanidae). Russia: **EP** (C, E), **UR**, **WS** (TK), **ES** (KS), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Uzbekistan, Kazakhstan, China (CC).
- Telenomus antennatus** Kononova, 2014. Russia: **WS** (AL).
- Telenomus aporus** (Kozlov, 1970) [Aporophlebus]. Russia: **EP** (NW, C, S, CR), **UR**, **WS** (AL), **FE** (PR). – Europe (EE), Georgia, Armenia, Israel, Uzbekistan, Kazakhstan, Mongolia, Japan.
- Telenomus arcanus** Kozlov et Kononova, 1981. Russia: **FE** (PR).
- Telenomus ardens** Kononova, 2008. Russia: **EP** (CR).
- Telenomus atomus** (Johnson, 1984) [Teleas] (*Teleas minutus* Ratzeburg, 1848, nom. praeocc., nec Westwood, 1833). Egg parasitoid of *Orthosia miniosa* Den. et Schiff. (Noctuidae). Russia: **EP** (C). – Europe (WE), Azerbaijan.
- Telenomus benefactor** Crawford, 1911. Egg parasitoid of *Tabanus biguttatus* Wd. and *T. taeniola* Palisot (Tabanidae). Russia: **EP** (CR), **FE** (PR). – Europe (SE, EE), Korean Peninsula, Japan, Afrotropics.
- Telenomus breviculus** Kononova, 2014. Russia: **EP** (NC).
- Telenomus brevis** (Thomson, 1860) [Phanurus]. Egg parasitoid of *Phalera bucephala* L. (Notodontidae). Russia: **EP** (C, S). – Europe (NE, EE), Kazakhstan.
- Telenomus capitatus** Kozlov et Kononova, 1981. Russia: **FE** (PR).
- Telenomus cebes** (Kozlov et Lê, 1976) [Aporophlebus]. Russia: **EP** (NW, S). – Europe (EE), Armenia, Kazakhstan, Mongolia.
- Telenomus clotho** Kozlov et Kononova, 1977. Russia: **WS** (AL), **FE** (PR). – Europe (EE), Georgia, Armenia, Turkmenistan.
- Telenomus coilus** Walker, 1836. Russia: **WS** (AL). – Europe (WE, EE).
- Telenomus dalmanni** (Ratzeburg, 1844) [Teleas] (*Telenomus orgyiae* Fitch, 1865; *T. fiskei* Brues, 1910). Egg parasitoid of *Orgyia antiqua* L. (Erebidae). Russia: **EP** (C, E), **WS** (AL), **ES** (TU), **FE** (AM, PR, SA). – Europe (WE, NE, EE), Armenia, N America.
- Telenomus danaus** Kozlov et Kononova, 1981. Russia: **FE** (PR).
- Telenomus danubialis** (Szelényi, 1939) [Platyntelenomus] (*Platyntelenomus unilineatus* Szabó, 1975). Egg parasitoid of *Coniesta ignefusalis* Hmps. (Crambidae) and *Sesamia cretica* Lederer (Noctuidae). Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Uzbekistan, Japan (Kyu).
- Telenomus decus** Kononova, 2014. Russia: **FE** (PR).
- Telenomus distinctus** Kozlov, 1967. Russia: **EP** (CR).
- Telenomus effectus** Kononova, 2014. Russia: **WS** (AL).

- Telenomus embolicus** Kozlov, 1967 (*Asolcus platythorax* Szabó, 1976). Russia: **EP** (CR). – Europe (WE, EE), Azerbaijan, Turkey.
- Telenomus etiellae** Kozlov, 1967. Egg parasitoid of *Etiella zinckenella* Tr. (Pyralidae). Russia: **EP** (S).
- Telenomus evanidus** Kononova, 2014. Russia: **WS** (AL).
- Telenomus fasciatus** Kozlov, 1967. Russia: **EP** (CR).
- Telenomus gelitorius** Kononova, 1987. Russia: **EP** (CR).
- Telenomus harpyiae** Mayr, 1879 (*Homophanurus hungaricus* Szabó, 1975; *Telenomus abbreviatus* Huggert, 1983). Egg parasitoid of *Cerura vinula* L. (Notodontidae). Russia: **EP** (C, S, NC, CR). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Israel, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Telenomus heydeni** Mayr, 1879 (*Telenomus giraudi* Kieffer, 1906). Egg parasitoid of shield bugs of the genera *Dolycoris*, *Graphosoma*, *Palomena* and *Rhaphigaster*, (Pentatomidae). Russia: **EP** (C, CR), **WS** (AL), **FE** (PR, SA, KU). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Kazakhstan.
- Telenomus hofmanni** Mayr, 1879. Egg parasitoid of *Scrobipalpula psilella* H.-Sch. (Gelechiidae). Russia: **EP** (NW, C, S, CR), **ES** (ZB), **FE** (PR). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Japan.
- Telenomus hydroeciae** (Kozlov, 1978) [Platytenomus]. Egg parasitoid of *Hydraecia micacea* Esper (Noctuidae). Russia: **EP** (E).
- Telenomus imperiosus** Kononova, 1987. Russia: **EP** (CR).
- Telenomus impolitus** Kononova, 2014. Russia: **FE** (PR).
- Telenomus ixion** Kozlov et Kononova, 1977. Russia: **FE** (PR).
- Telenomus jurtshenkoi** Kononova, 2014. Russia: **FE** (PR).
- Telenomus kolbei** Mayr, 1879. Egg parasitoid of *Euproctis pseudoconspersa* Strand (Erebidae). Russia: **EP** (CR). – Europe (WE, NE, EE), Azerbaijan, Japan, Greenland.
- Telenomus kurenzovi** Boldaruev, 1970 (*Telenomus pseudothus* Szabó, 1978). Egg parasitoid of horseflies of the genera *Hybomitra* and *Tabanus* (Tabanidae). Russia: **WS** (TK), **FE** (PR). – Europe (SE, EE), Caucasus, Kazakhstan.
- Telenomus laeviceps** Foerster, 1861. Egg parasitoid of *Anarta myrtilli* L. (Noctuidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, EE).
- Telenomus laeviusculus** (Ratzeburg, 1844) [Teleas]. Parasitoid of the eggs of *Lymantria dispar* L. (Erebidae), *Dendrolimus pini* L. and *Malacosoma neustria* L. (Lasiocampidae). Russia: **EP** (C, E, NC), **UR**. – Europe (WE, NE, SE, EE), Turkey, Mongolia.
- Telenomus loricis** Walker, 1836 (*Verrucosicephalia depressa* Szabó, 1975). Russia: **EP** (NW, C), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Turkmenistan, Japan.
- Telenomus lineolatus** Kozlov, 1967 (*Telenomus decoratus* Kononova, 2009). Russia: **EP** (C, E, CR). – Europe (WE, SE, EE), Armenia, Azerbaijan, Israel.
- Telenomus longiusculus** (Kozlov, 1973) [Platytenomus]. Russia: **FE** (PR).
- Telenomus longulatus** Kozlov et Kononova, 1979. Russia: **WS** (AL). – Europe (EE), Japan.
- Telenomus longulus** Kozlov, 1967. Russia: **EP** (NW, C, E), **WS** (AL), **FE** (PR, SA, KU). – Europe (WE, NE, EE), Azerbaijan, Turkmenistan, Tajikistan, Kazakhstan, Japan.
- Telenomus longus** (Kozlov, 1973) [Platytenomus] (*Platytenomus convexus* Ryu, 1989; *P. elongatus* Ryu, 1989). Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Kyu).
- Telenomus lymantriae** Kozlov, 1967 (*Telenomus maletta* Kozlov et Kononova, 1978). Egg parasitoid of *Lymantria dispar* L. (Erebidae). Russia: **EP** (NC), **FE** (PR). – Europe (EE), Armenia, Azerbaijan, Turkmenistan, Uzbekistan, Kazakhstan.
- Telenomus macrocephus** Szabó, 1957. Russia: **EP** (N, NW, C, E, NC, CR), **WS** (AL). – Europe (NE, SE, EE), Georgia, Armenia, Azerbaijan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Telenomus marcidus** Kononova, 2014. Russia: **WS** (AL). – Mongolia.
- Telenomus nitidulus** (Thomson, 1860) [Phanurus] (*Teleas punctatulus* Ratzeburg, 1844; *Prophanurus mayri* Kieffer, 1912). Egg parasitoid of *Leucoma salicis* L. (Erebidae) and *Agrotis segetum* Den. et Schiff. (Noctuidae). Russia: **EP** (NW), **WS** (AL), **FE** (PR). – Europe (WE, NE, EE), Armenia, Central Asia, Mongolia, Greenland, N America (attempts of introduction).
- Telenomus nobilis** Kozlov et Kononova, 1983. Russia: **FE** (PR).
- Telenomus notus** Kononova, 2009. Russia: **FE** (KU).
- Telenomus othus** Haliday, 1833. Russia: **EP** (N, NW), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Telenomus phalaenarum** (Nees, 1834). Egg parasitoid of *Euproctis chrysorrhoea* L., *Lymantria dispar* L. (Erebidae) and *Helicoverpa armigera* Hbn. (Noctuidae). Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Iran.
- Telenomus princeps** Kononova, 2014. Russia: **FE** (PR).
- Telenomus promachivorus** (Gahan, 1924) [Phanurus]. Egg parasitoid of *Promachus yesonicus* Bigot (Asilidae). Russia: **FE** (PR). – Japan (Hon, Shi, Kyu).
- Telenomus psammicola** Szabó, 1978 (*Telenomus ocellatus* Kozlov et Kononova, 1979). Russia: **EP** (E), **WS** (AL). – Europe (EE), Israel, Tajikistan.
- Telenomus punctatissimus** (Ratzeburg, 1844) [Teleas]. Egg parasitoid of *Phalera bucephala* L. (Notodontidae). Russia: **EP** (NW, S). – Europe (WE, EE).
- Telenomus punctulosus** (Kozlov, 1973) [Platytenomus]. Russia: **FE** (PR).
- Telenomus rapidus** Kononova, 2014. Russia: **EP** (CR). – Europe (EE).
- Telenomus rectus** Kononova, 2014. Russia: **EP** (C).
- Telenomus regius** Kononova, 1986 (*Telenomus albatarius* Kozlov et Kononova, 1987; *T. dessarti* Mineo, 2004). Russia: **EP** (S), **WS** (AL), **FE** (PR, SA, KU). – Europe (SE, EE), Uzbekistan, Kazakhstan, Japan.

- Telenomus regnum** Kononova, 1987. Egg parasitoid of *Rhynocoris annulatus* L. (Reduviidae). Russia: **WS** (TK).
- Telenomus remulus** Kozlov et Kononova, 1983. Egg parasitoid of *Phalera bucephala* L. (Notodontidae). Russia: **WS** (AL), **FE** (PR).
- Telenomus risbeci** Kononova, 2014 (*Telenomus striatus* Kononova, 1973, nom. praeocc., nec Risbec, 1950). Russia: **EP** (CR). – Europe (SE, EE), Georgia.
- Telenomus russianicus** Özdikmen, 2011 (*Telenomus impressus* Kononova, 1986, nom. praeocc., nec Ashmead, 1894; *T. ashmeadi* Kononova, 2014, unnecessary replacement name, nom. praeocc., nec Morrill, 1907). Russia: **FE** (KU). – Japan.
- Telenomus semiorbiculatus** Kozlov et Kononova, 1983. Russia: **FE** (PR).
- Telenomus spadiceus** Kozlov et Kononova, 1981. Russia: **FE** (PR).
- Telenomus strelzovi** Vasiliev, 1949 (*Telenomus longiclavatus* Szabó, 1978, nom. praeocc., nec Ashmead, 1895). Egg parasitoid of *Adelphocoris lineolatus* Goeze (Miridae). Russia: **EP** (NW, C, E, S, NC, CR), **WS** (AL), **FE** (PR, SA, KU). – Europe (SE, EE), Georgia, Armenia, Uzbekistan, Kazakhstan, Korean Peninsula, Japan.
- Telenomus strictus** Kononova, 2014. Russia: **WS** (AL).
- Telenomus suavis** Kononova, 2014. Russia: **EP** (E), **FE** (PR). – Georgia, Armenia.
- Telenomus sudoensis** Ryu, 1985. Russia: **FE** (PR). – Korean Peninsula, Japan.
- Telenomus szaboi** Megyaszi et Thuróczy, 1998 (*Telenomus cubiceps* Szabó, 1978, nom. praeocc., nec Ashmead, 1894; *T. originalis* Kozlov et Kononova, 1983; *T. szaboi* Kononova, 2014, unnecessary replacement name). Russia: **FE** (PR). – Europe (EE).
- Telenomus taigensis** Kozlov et Kononova, 1983. Russia: **FE** (AM).
- Telenomus tauricus** Kononova, 1979. Russia: **EP** (CR). – Europe (SE).
- Telenomus tetratomus** (Thomson, 1860) [Phanurus] (*Telenomus bombycis* Mayr, 1879; *T. gracilis* Mayr, 1879; *T. verticillatus* Kieffer, 1917). Egg parasitoid of *Dendrolimus pini* L., *D. superans sibiricus* Tschetv. and *Macrothylacia rubi* L., (Lasiocampidae), *Dasychira albodentata* Bremer and *Orgyia antiqua* L. (Erebidae). Russia: **EP** (C), **WS** (OM, TK, NS, KM, AL), **ES** (TU, KR, IR, BR, ZB), **FE** (AM, SA). – Europe (WE, NE, EE), Kazakhstan, China, N America.
- Telenomus turesis** Walker, 1836 (*Phanurus chloropus* Thomson, 1860; *Telenomus gifuensis* auct.; *T. sokolowi* Mayr, 1897; *T. mayri* Sokolov, 1904; *T. tischleri* Nixon, 1939). Egg parasitoid of numerous bugs from the families Pentatomidae and Scutelleridae. Russia: **EP** (NW, C, E, NC), **WS** (AL), **ES** (IR), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Armenia, Turkey, Central Asia, Kazakhstan, Japan, USA (introduced).
- Telenomus ukrainicus** Özdikmen, 2011 (*Platytenomus antennalis* Kozlov, 1973, nom. praeocc., nec Fouts, 1934). Egg parasitoid of *Kleidocerys resedae* Pz. and *Oxycaenus hyalinipennis* Costa (Lygaeidae). Russia: **EP** (N, C). – Europe (SE, EE).
- Telenomus umbripennis** Mayr, 1879. Russia: Siberia (without regions: Kieffer, 1912, 1926; Kononova, 2014b). – Europe (WE).
- Telenomus vernicosus** Kozlov et Kononova, 1983. Russia: **EP** (NW, C, S), **WS** (AL), **ES** (TU), **FE** (PR). – Europe (EE), Armenia, Uzbekistan.
- Telenomus violentus** Kononova, 1986. Russia: **EP** (E, NC, CR), **FE** (PR, SA, KU).
- TRISSOLCUS** Ashmead, 1893 (*Asolcus* Nakagawa, 1900; *Aphanurus* Kieffer, 1912; *Immsia* Cameron, 1912; *Microphanurus* Kieffer, 1926; *Kozlotelenomus* Mineo, O'Connor et Ashe, 2009). Type species: *Telenomus brochymenae* Ashmead, 1881. Egg parasitoids of numerous true bugs from the families Pentatomidae and Scutelleridae. Some species were used in introduction programs. The genus is distributed worldwide. Number of species: World – 150, Palaearctic – 58, Russia – 20.
- Trissolcus basalis** (Wollaston, 1858) [Telenomus] (*Telenomus maderensis* Wollaston, 1858; *T. megacephalus* Ashmead, 1894; *T. piceipes* Dodd, 1920; *Microphanurus africanus* Fouts, 1934; *M. sulmo* Nixon, 1938; *Asolcus lodosi* Szabó, 1981). Egg parasitoid of various true-bugs species from the families Pentatomidae and Scutelleridae. Russia: **EP** (? C, NC). – Europe (WE, NE, EE), Morocco, Egypt, Turkey, Cyprus, Jordan, Israel, Iran, China, Japan, N America, S and SE Asia, Afrotropics, S America, Australia, Oceanic region.
- Remarks.** Unsuccessful (?) introduction to Voronezh Province of Russia.
- Trissolcus belenus** (Walker, 1836) [Telenomus] (*Telenomus arminon* Walker, 1838; *T. frontalis* Thomson, 1860; *T. grandis* Thomson, 1860; *T. nigripes* Thomson, 1860; *T. nigrita* Thomson, 1860; *T. ovulorum* Thomson, 1860; *Teleas pentatomae* Rondani, 1877; *Asolcus nixomartini* Javahery, 1968; *A. silwoodensis* Javahery, 1968;). Egg parasitoid of various true bugs from the families Pentatomidae and Scutelleridae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (AL), **ES** (IR, ZB), **FE** (PR, MG). – Europe (WE, NE, SE, EE), Morocco, Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China, Tanzania.
- Trissolcus colemani** (Crawford, 1912) [Telenomus] (*Microphanurus djadetchko* Rjachovskij, 1959; *M. pseudoturesis* Rjachovskij, 1959; *M. rossicus* Rjachovskij, 1959; *Asolcus nigribasalis* Voegelé, 1962; *A. bennisi* Voegelé, 1964; *A. waloffae* Javahery, 1968; *Trissolcus crypticus* Clarke, 1993). Egg parasitoid of various true bugs from the families Pentatomidae and Scutelleridae. Russia: **EP**

- (NW, C, E, S, NC, CR), **WS** (AL), **ES** (YA), **FE** (PR, KU, MG). – Europe (WE, NE, SE, EE), Morocco, Georgia, Armenia, Azerbaijan, Turkey, Iran, Pakistan, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China, Korean Peninsula, India.
- Trissolcus cultratus** (Mayr, 1879) [Telenomus] (*Trissolcus striatellus* Kononova, 2014). Egg parasitoid of *Carpocoris pudicus* Poda and *Palomena prasina* L. (Pentatomidae). Russia: **EP** (C, NC, CR), **WS** (AL), **ES** (ZB), **FE** (KH, PR, KU). – Europe (WE, NE, EE), Georgia, Kazakhstan, China, Korean Peninsula, Japan.
- Remarks.** Most, if not all, specimens of *T. cultratus* have been misidentified by many authors as *T. flavipes* (Thomson, 1860) (Talamas et al., 2015).
- Trissolcus elasmuchae** (Watanabe, 1954) [Asolcus] (*Asolcus davatchii* Javahery, 1968; *Trissolcus polarica* Rjachovskij, 1972; *T. monirus* Lê, 1985). Egg parasitoid of *Elasmucha grisea* L., *E. putoni* Scott and *Elasmostethus interstinctus* L. (Acanthosomatidae). Russia: **EP** (C, E), **WS** (TK, AL), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, EE), Kazakhstan, China, Korean Peninsula, Japan, India, Vietnam.
- Trissolcus eurydema** (Vasiliev, 1915) [Aphanurus]. Egg parasitoid of *Carpocoris purpureipennis* Deg. and *Eurydema ornata* L. (Pentatomidae). Russia: **EP** (S).
- Trissolcus exerrandus** Kozlov et Lê, 1976. Russia: **WS** (TK), **FE** (PR). – Mongolia, China (SE), Korean Peninsula, Japan.
- Trissolcus flavipes** (Thomson, 1860) [Telenomus] (*Trissolcus circus* Kozlov et Lê, 1976; *T. crassus* Kononova, 2014). Russia: **FE** (PR). – Europe (WE, NE, EE), China (SE), Japan, Thailand.
- Trissolcus japonicus** (Ashmead, 1904) [Dissolcus] (*Trissolcus cercus* Kozlov et Lê, 1976; *T. pontus* Kozlov et Lê, 1976; *T. dobashii* Buhl, 1996; *T. halyomorphae* Yang, 2007; *T. mirus* Kononova, 2014). Egg parasitoid of *Halyomorpha halys* Stål, *Plautia stali* Scott and *Podisus maculiventris* Say (Pentatomidae). Russia: **EP** (S), **WS** (AL), **FE** (PR). – Europe (SE), China (SE), Korean Peninsula, Japan, N America.
- Trissolcus kozlovi** Ryachovskij, 1975 (*Trissolcus amplus* Kononova, 2014). Egg parasitoid of *Palomena prasina* L. and *Pentatoma rufipes* L. (Pentatomidae). Russia: **EP** (C). – Europe (EE), Kazakhstan.
- Trissolcus manteroi** (Kieffer, 1909) [Telenomus]. Egg parasitoid of true bugs *Aelia rostrata* Boheman, *Graphosoma lineatum* L., *Dolycoris* sp., *Carpocoris* sp. (Pentatomidae). Russia: **EP** (E, S). – Europe (W, S, E), Turkey, Armenia, Iran, Turkmenistan.
- Trissolcus oobius** (Kozlov, 1972) [Aporophlebus] (*Aporophlebus aglaope* Kozlov et Lê, 1976; *A. dirrhope* Kozlov et Lê, 1976; *A. dryope* Kozlov et Lê, 1976; *A. lampe* Kozlov et Lê, 1976; *A. merope* Kozlov et Lê, 1976; *A. niceppe* Kozlov et Lê, 1976). Egg parasitoid of *Aelia sibirica* Reuter (Pentatomidae). Russia: **WS** (AL). – Europe (EE), Armenia, Israel, Iran, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.
- Trissolcus plautiae** (Watanabe, 1954) [Asolcus]. Egg parasitoid of *Plautia stali* Scott (Pentatomidae). Russia: **FE** (PR). – Mongolia, China (SE), Korean Peninsula, Japan.
- Trissolcus rufiventris** (Mayr, 1908) [Telenomus] (*Microphanurus anitus* Nixon, 1939; *Asolcus protogyne* Voegelé, 1969). Egg parasitoid of numerous true-bugs genera from the families Pentatomidae and Scutelleridae. Russia: **EP** (NW, C, S, NC, CR), **WS** (AL), **ES** (KS, TU). – Europe (WE, SE, EE), Morocco, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, India.
- Trissolcus scutellaris** (Thomson, 1860) [Telenomus] (*Telenomus simoni* Mayr, 1879; *T. vassilliewi* Mayr, 1903; *Trissolcus evanescens* Kieffer, 1904; *Microphanurus choaspes* Nixon, 1939; *Asolcus ghorffii* Delucchi et Voegelé, 1961; *A. reticulatus* Delucchi, 1963; *A. festivae* Viktorov, 1964; *A. volgensis* Viktorov, 1964; *A. histani* Voegelé, 1965). Egg parasitoid of various true bugs, particularly *Eurygaster integriceps* Puton (Scutelleridae), *Dolycoris baccarum* L., *Carpocoris fuscispinus* Boh., *Eurydema ornata* L., *Graphosoma lineatum* L. and *Nezara viridula* L. (Pentatomidae). Russia: **EP** (C, E, S, NC), **WS** (AL), **ES** (IR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Morocco, Georgia, Armenia, Azerbaijan, Turkey, Syria, Lebanon, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula.
- Trissolcus semistriatus** (Nees, 1834) [Teleas] (*Asolcus nigripedius* Nakagawa, 1900; *Microphanurus alexeevi* Meier, 1949; *M. schtepetelnikovae* Meier, 1949; *Trissolcus artus* Kozlov et Lê, 1977). Egg parasitoid of various true bugs from the families Pentatomidae and Scutelleridae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Morocco, Georgia, Armenia, Turkey, Cyprus, Iraq, Lebanon, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, China, Korean Peninsula, Japan, India.
- Trissolcus sibiricus** Kozlov et Lê, 1977. Russia: **ES** (IR).
- Trissolcus tumidus** (Mayr, 1879) [Telenomus] (*Trissolcus delucchii* Kozlov, 1968; *T. cephalotes* Kozlov et Lê, 1976; *T. pierrot* Mineo, O'Connor et Ashe, 2010; *T. ferus* Kononova et Petrov, 2014). Egg parasitoid of *Apodiphus amygdali* Germ. (Pentatomidae). Russia: **WS** (AL), **FE** (KH). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, China, Korean Peninsula.
- Trissolcus vesta** Kozlov et Lê, 1977. Egg parasitoid of *Capnodia nigroaenea* Jak. (Pentatomidae). Russia: **WS** (AL).
- Trissolcus viktorovi** Kozlov, 1968. Egg parasitoid of bugs from the genera *Carpocoris*, *Dolycoris*, *Eurydema* and *Graphosoma* (Pentatomidae). Russia: **EP** (C, E, NC). – Europe (SE), Georgia, Armenia, Azerbaijan, Turkey, Uzbekistan.

SUPERFAMILY CYNIPOIDEA

G. MELIKA

Cynipoids are small wasps with a black or brown body, laterally compressed metasoma and reduced fore wing venation (pigmented pterostigma absent) numbering about 3200 species worldwide (Csóka et al., 2004; Ronquist et al., 2015). Except for Cynipidae and a group of inquiline within Figitidae, all known species are larval parasitoids. The Cynipoidea superfamily has been divided into four (Weld, 1952), five (Quinlan, 1978; Ronquist, 1999) or six (Nordlander, 1982b) families. Ronquist (1995a) and Ronquist et al. (2015) divided the group into seven families, five extant families, Austrocynipidae, Ibaliidae, Liopteridae, Figitidae, Cynipidae and two extinct families, Rasnycynipidae and Gerocynipidae (Kovalev, 1994, 1995; Rasnitsyn, 1988; Rasnitsyn, Kovalev, 1988). All classifications divide cynipoid wasps into two large groups: macro- and microcynipoids (Ronquist, 1995a). Macrocynipoids (Austrocynipidae, Ibaliidae, Liopteridae) have a larger body size (4–20 mm) and are parasitoids of wood boring insects. Microcynipoids (Figitidae, Cynipidae) are smaller sized wasps (1–10 mm), a few of which are apterous or with rudimentary wings. Except for Austrocynipidae (with one described species, *Austrocynips mirabilis* Riek), all other recent families are present in the Russian fauna.

References. Dalla Torre, Kieffer, 1910; Weld, 1952; Kierych, 1979; Nordlander, 1982a, 1982b; Rasnitsyn, 1988; Rasnitsyn, Kovalev, 1988; Kovalev, 1994, 1995; Ronquist, 1995a, 1995b, 1999; Csóka et al., 2004; Ronquist, Forshage, 2004; Melika, 2006, 2012; Liu, Engel, 2007; Ronquist et al., 2015.

30. FAMILY IBALIIDAE

Large sized cynipoids (10–20 mm) – parasitoids of Siricidae. Three genera are known in the Holarctic and Oriental regions, *Ibalia* Latreille, 1802 (14 species worldwide), *Heteribalia* Sakagami, 1949 (7 species) and *Eileenella* Fergusson, 1992 (1 species). Some species of *Ibalia* used as biological control agents against *Sirex noctilio*, were introduced to New Zealand and Australia.

Number of taxa: World – 3 genera and 22 species, Palaearctic – 2/6, Russia – 1/3.

References. Belizin, 1927, 1951; Hellén, 1937; Cameron, 1965; Kierych, 1973; Yang, 1991; Liu, Nordlander, 1994; Nordlander et al., 1996; Sundukov, 2018.

IBALIA Latreille, 1802. Type species: *Ophion cultellator* Fabricius, 1798. Two subgenera are known, *Ibalia* Latreille, 1802 and *Tremibalia* Kierych, 1973; distributed in the Holarctic and Oriental China. Number of species: World – 13, Palaearctic – 6, Russia – 3.

Ibalia (Ibalia) leucospoides (Hochenwarth, 1785) [Ichneumon] (*Ichneumon cultellator* Fabricius, 1793; *Ibalia suprunenkoi* Maa, 1899; *I. arcuata* Dalla Torre et Kieffer,

1910; *I. sachalinensis* Matsumura, 1911; *I. picea* Matsumura, 1912). Ectoparasitoid of *Sirex*, *Urocerus* and *Xeris* (Siricidae). Russia: **EP** (N, NW, C, E, S, NC), **UR**, **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), N Africa, Turkey, China (NE, NC, CC), Japan (Hon, Shi), N America.

Ibalia (Tremibalia) jakowlewi Jacobson, 1899 (*Ibalia takachihoi* Yasumatsu, 1937). Ectoparasitoid of *Tremex fuscicornis* F. (Siricidae). Russia: **UR**, **ES** (IR), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Georgia, Korean Peninsula, Japan (Kyu).

Ibalia (Tremibalia) ornata Belizin, 1968 (*Ibalia fulviceras* Yang, 1991). Russia: **FE** (PR). – China (NC).

31. FAMILY LIOPTERIDAE

Monophyletic cynipoid group of extremely large body size (up to 20 mm) – larval parasitoids of Coleoptera in wood. The family morphologically most closely resembles Ibaliidae. Ten genera worldwide are in 4 subfamilies, Mayrellinae, Dallatorrellinae, Oberthuerellinae and Liopterinae. Common in tropical and subtropical regions, with few species in the Palaearctic. Number of taxa: World – 11 genera and 73 species, Palaearctic – 1/15, Russia – 1/1.

References. Belizin, 1951; Ronquist, 1995b; Ronquist et al., 2015.

PARAMBLYNOTUS Cameron, 1908 (*Paraegilips* Kieffer, 1910; *Allocynips* Kieffer, 1914; *Holocynips* Kieffer, 1916; *Diholocynips* Rohwer et Fagan, 1917; *Mayrella* Hedicke, 1922; *Paribalia* Weld, 1922; *Stylobrachys* Belizin, 1951; *Baviana* Barbotin, 1954). Type species: *Paramblynotus punctulatus* Cameron, 1908. Distributed in all zoogeographical regions, except Western Palaearctic and Australia. Number of species: World – 20, Palaearctic – 15, Russia – 1.

Paramblynotus scaber (Belizin, 1951) [Stylobrachys]. Russia: **ES** (IR), **FE** (KH, PR).

32. FAMILY FIGITIDAE

The most species rich family Figitidae is divided into 12 subfamilies: Parnipinae, Thrasorinae, Euceroptinae, Plectocynipinae, Charipinae, Anacharitinae, Figitinae, Aspicerinae, Emargininae, Pycnostigminae, Eucoilinae and Mikeiinae. Figitids are mainly small wasps (up to 6 mm length, usually around 2 mm), black in colour, glabrous with a compact body, head hypognathic, antennae and legs long, forewings large with typical cynipid venation, mesoscutellum sculptured, the short-petiole metasoma compressed laterally, with tergites often merged and often with a ring of white setae around the base of metasoma. The fauna of Figitidae is still poorly known even in Europe where this group has been researched for a long time. All Figitidae are early-internal late-external parasitoids of other endopterygote insect larvae and attack hosts in various microhabitats. The Figitidae are thought

to be the sister group of Cynipidae and, while most of the larger subfamilies (Eucolilinae, Figitinae, Aspicerinae) are parasitoids of cyclorrhaphous Diptera, several figitid subfamilies, Parnipinae, Euceroptinae, Thrasorinae, Mikeiinae and Plectocynipinae, are associated with galls. The biology of most of these forms is poorly known but they are presumably all parasitoids of gall-inhabiting larvae, which is likely to be the ancestral life history of both families. Representatives of five subfamilies, Charipinae, Anacharitinae, Figitinae, Aspicerinae and Eucolilinae, are known in the fauna of Russia.

Number of taxa: World – 111 genera and about 1400 species, Palaearctic – 59/about 700, Russia – 33/160.

References. Belizin, 1927, 1928, 1951, 1952, 1954, 1961a, 1961b, 1961c, 1962, 1964, 1966a, 1966b, 1968, 1973; Hellén, 1958, 1960; Kovalev, 1965, 1989; Nordlander, 1976, 1978, 1982a, 1982b; Quinlan, 1978; Kierych, 1979; Fergusson, 1986; Ronquist, 1995a, 1999; Diakontshuk, 2001; Fontal-Cazalla et al., 2002; Ronquist, Forshage, 2004; Buffington et al., 2007, 2012; Paretas-Martinez et al., 2007; Forshage, Nordlander, 2008; Forshage, 2009; Pujade-Villar et al., 2010; Ferrer-Suay et al., 2012; Ronquist et al., 2015.

Subfamily ANACHARITINAE

Biology is unknown, however, some of them are known as parasitoids of the larvae of Hemerobiidae and Chrysopidae (Neuroptera) which are feeding in aphid colonies. Holarctic genus.

Number of taxa: World – 8 genera and 83 species, Palaearctic – 6/about 30, Russia – 4/9.

AEGILIPS Walker, 1835 (*Oegilips* Haliday, 1840). Type species: *Cynips nitidula* Dalman, 1823. Genus was recorded in the Holarctic, S America and Africa. Number of species: World – 21, Palaearctic – 10, Russia – 3.

Aegilips gemellus Belizin, 1961. Russia: **UR**.

Aegilips nitidula (Dalman, 1823) [Cynips] (*Anacharis fumipennis* Westwood, 1833; *A. rufipes* Westwood, 1833; *A. aestiva* Dahlbom, 1842; *Aegilips dalmani* Reinhard, 1861; *A. rugicollis* Reinhard, 1861; *A. ruficornis* Cameron, 1883; *A. striolata* Cameron, 1883; *A. bicolorata* Cameron, 1887). Russia: **EP** (N). – Europe (WE, NE, SE, EE).

Aegilips punctatus Belizin, 1951. Russia: **ES** (YA).

ANACHARIS Dalman, 1823 (*Megapelmus* Hartig, 1840; *Synopsis* Foerster, 1869; *Prosynopsis* Dalla Torre et Kieffer, 1910). Type species: *Cynips eucharoides* Dalman, 1818. Genus was recorded in the Holarctic, Afrotropical and Australasian regions. Number of species: World – 20, Palaearctic – about 10, Russia – 4.

Anacharis eucharoides (Dalman, 1818) [Cynips] (*Anacharis tinctus* Walker, 1835; *A. typicus* Walker, 1835; *Cynips petiolata* Zetterstedt, 1838; *Megapelmus spheciformis* Hartig, 1840; *M. rufiventris* Hartig, 1841). Russia: **EP**

(NW, C), **UR**, **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia.

Anacharis immunis Walker, 1835 (*Anacharis ensifer* Walker, 1835; *Megapelmus rufiventris* Hartig, 1841; *Anacharis staegei* Dahlbom, 1842; *Synopsis aquisgranensis* Foerster, 1869). Russia: **EP** (N, C), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia.

Anacharis parapsidalis Belizin, 1951. Russia: **FE** (KH).

Anacharis punctatus Belizin, 1951. Russia: **ES** (YA).

PROANACHARIS Kovalev, 1966. Type species: *Proanacharis mirabilis* Kovalev, 1966. Monotypic Eastern Palaearctic genus.

Proanacharis mirabilis Kovalev, 1966. Russia: **FE** (PR).

XYALASPI Hartig, 1843 (*Conaspicera* Hedicke, 1914).

Type species: *Xyalaspis laevigata* Hartig, 1843.

Number of species: World – 17, Palaearctic – 9, Russia – 1.

Xyalaspis armata (Giraud, 1860) [Aegilips] (*Anacharis globuliventris* Dahlbom, 1842; *Aegilips abietina* Thomson, 1862; *A. scotica* Cameron, 1883). Russia: **EP** (N). – Europe (WE, NE, SE).

Subfamily ASPICERINAE

Cosmopolitan; parasitoids of Diptera in aphid communities. Number of taxa: World – 10 genera and 126 species, Palaearctic – 7/about 90, Russia – 4/21.

ASPICERA Dahlbom, 1842 (*Onychia* Haliday in Walker, 1835; *Bellona* Giraud, 1860; *Heteraspidia* Belizin, 1952). Type species: *Evania ediogaster* Rossi, 1790 (= *Tenthredo scutellata* Villers, 1789). Number of species: World – 48, Palaearctic – 31, Russia – 7.

Aspicera daurica Belizin, 1952. Adults emerge in summer. Russia: **ES** (ZB).

Aspicera hartigi Dalla Torre, 1889 (*Aspicera brevispina* Kieffer, 1901). Russia: **EP** (CR), **FE** (PR). – Europe (WE, SE, EE), Turkey, Jordan, Iran, Turkmenistan, Tajikistan, Kazakhstan.

Aspicera longispina Kieffer, 1901. Parasitoid in *Epistrophe balteata* Deg., *Syrphus ribesii* L. and *Paragus tibialis* Fll. (Syrphidae) in aphid colonies. Adults in summer. Russia: **EP** (C, NC, CR). – Europe (SE, EE), Georgia.

Aspicera minutispina Belizin, 1952. Russia: **ES** (YA). – Kazakhstan.

Aspicera scutellata (Villers, 1789) [Tenthredo] (*Evania ediogaster* Rossi, 1790; *Figites aculeata* Boyer de Fonscolombe, 1832; *F. bicolor* Boyer de Fonscolombe, 1832). Russia: **EP** (N, NW, C, E, S, NC, CR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Turkmenistan, Uzbekistan, Kazakhstan.

Aspicera sibirica Kieffer, 1901. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (AL), **ES** (IR, ZB). – Kazakhstan.

Aspicera tenuispina Kieffer, 1904. Russia: **EP** (N, C), **UR**. – Europe (NE, SE, EE).

CALLASPIDIA Dahlbom, 1842. Type species: *Callaspidia defonscolombeii* Dahlbom, 1842. Parasitoids in larvae of Syrphidae (Diptera). Mostly Holarctic genus, although one species (*C. formosana*) is present in the Oriental region and one (*C. notata*) in both regions. Number of species: World – 7, Palaearctic – 5, Russia – 2.

Callaspidia abberans (Kieffer, 1901) [Onychia] (*Onychia brevifurca* Kieffer, 1901; *Callaspidia aberrans* Dalla Torre et Kieffer, 1910; *C. kozlovi* Belizin, 1952). Russia: **EP** (C, E, NC). – Europe (WE, SE), Armenia, Turkey, Israel, Afghanistan, Turkmenistan, Tajikistan, Kazakhstan, Mongolia.

Callaspidia defonscolombeii Dahlbom, 1842 (*Callaspidia westwoodi* Dahlbom, 1842; *C. fonscolombeii* Dahlbom, 1856; *C. dufouri* Giraud, 1860; *Onychia nigripes* Cameron, 1879; *Callaspidia provancheri* Ashmead, 1887; *Onychia striolata* Cameron, 1888; *O. areolata* Kieffer, 1901; *O. dufouri* var. *vitripennis* Kieffer, 1901; *Callaspidia rubricrus* Dettmer, 1924). Russia: **EP** (C, NC), **UR**, **ES** (IR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkmenistan, Tajikistan, Kazakhstan, China (NC), N and S America.

MELANIPS Haliday, 1835 (*Scytodes* Hartig, 1840; *Amblynotus* Hartig, 1843; *Anolytus* Foerster, 1869). Type species: *Scytodes opacus* Hartig, 1840. Single generation per year. Parasitoids in larvae of Diptera (Syrphidae and Chamaemyiidae), predators of aphids. Distributed in all zoogeographical regions, except Afrotropical and Malagasy. Number of species: World – about 25, Palaearctic – 19, Russia – 8.

Melanips alienus Giraud, 1860 (*Figites dalmanni* Dahlbom, 1842; *Amblynotus longitarsus* Reinhard, 1860; *A. microcerus* Kieffer, 1903). Parasitoid of *Leucopis glyphini-vora* Tanas. and *L. caucasica* Tanas. (Chamaemyiidae) in aphid colonies. Russia: **EP** (N, NW, C, E, S, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.

Melanips antennalis Belizin, 1961. Russia: **UR**.

Melanips bicoloratus (Belizin, 1961) [Anolytus]. Russia: **UR**.

Melanips granulatus (Hartig, 1841) [Scytodes] (*Figites zetterstedti* Dahlbom, 1846). Russia: **EP** (N, NW, C, E, S), **ES** (KR). – Europe (WE, NE, EE).

Melanips heterocerus (Thomson, 1877) [Amblynotus]. Russia: **EP** (NW). – Europe (NE).

Melanips opacus (Hartig, 1840) [Scytodes] (*Melanips femoralis* Cameron, 1883). Parasitoid of *Leucopis glyphini-vora* Tanas. and *L. caucasica* Tanas. (Chamaemyiidae) in aphid colonies. Russia: **EP** (N, NW, C, E, S, NC, CR), **ES** (IR, ZB), **FE** (KH, PR, KU, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Uzbekistan, Kazakhstan.

Melanips parvus (Hartig, 1840) [Scytodes]. Russia: **EP** (NW, C, S, NC), **UR**. – Europe (WE, NE, EE), Caucasus, Tajikistan.

Melanips sylvanus Giraud, 1860 (*Amblynotus parvus* Reinhard, 1860; *Anolytus rufipes* Foerster, 1869; *Omalaspis biusta* Cameron, 1879). Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE).

OMALASPIS Giraud, 1860 (*Lambertonia* Kieffer, 1901; *Tavaresia* Kieffer, 1901). Type species: *Omalaspis norica* Giraud, 1860. Parasitoids in Syrphidae larvae. Holarctic distribution. Number of species: World – 10, Palaearctic – 8, Russia – 4.

Omalaspis davydovi Belizin, 1927. Russia: **EP** (C).

Omalaspis nigra (Hartig, 1840) [Figites]. Parasitoid of syrphid flies in aphid colonies. Russia: **EP** (C). – Europe (WE, NE, EE).

Omalaspis orientalis Belizin, 1968. Russia: **FE** (PR).

Omalaspis sulcata Kieffer, 1901. Parasitoid of *Triglyphus primus* Loew (Syrphidae) in aphid colonies. Russia: **EP** (N). – Europe (WE).

Subfamily CHARIPINAE

The monophyletic subfamily Charipinae divided into two tribes, Alloxystini and Charipini. Majority of species are in Alloxystini which are hyperparasitoids of Aphididae through Aphidiinae (Hymenoptera: Braconidae) and Aphelinidae (Hymenoptera: Chalcidoidea). Charipini are hyperparasitoids of Psyllidae through Encyrtidae (Hymenoptera: Chalcidoidea). Alloxystini includes four genera: *Alloxysta* Foerster, 1869 (cosmopolitan), *Phaenoglyphis* Foerster, 1869 (cosmopolitan), monotypical genus *Lytoxysta* Kieffer, 1909 (N America) and *Carvercharips* Kovalev, 1995 (Australia). Charipini divided also into four genera: *Dilyta* Foerster, 1869 (cosmopolitan), *Thoreauana* Girault, 1930 (Australia), *Apocharips* Fergusson, 1986 (Europe and Africa) and *Dilapothor* Paretas-Martínez et Pujade-Villar, 2006 (Australia). Number of taxa: World – 8 genera and 168 species, Palaearctic – 4/106, Russia – 2/24.

ALLOXYSTA Foerster, 1869 (*Charips* auct.; *Allotria* Westwood, 1833; *Xystus* Hartig, 1840; *Nephycta* Foerster, 1869; *Pezophycta* Foerster, 1869; *Adelixysta* Kierych, 1988). Type species: *Xystus macrophadnus* Hartig, 1840. Includes many cosmopolitan species and better represented in the temporal zone of Holarctic. Number of species: World – about 110, Palaearctic – 79, Russia – 18.

Alloxysta aurata Belizin, 1968. Russia: **FE** (PR).

Alloxysta brevis (Thomson, 1862) [Allotria] (*Allotria arcuata* Kieffer, 1902; *A. castaneiceps* Kieffer, 1904; *Charips pruni* Hedicke, 1928). Secondary parasitoids in *Aphis farinosa* Gmel. and *Acyrtosiphon pisum* Harris (Aphididae). Adults in summer. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Iran, Turkmenistan, Kazakhstan, Japan (Hok, Hon, Shi, Kyu).

Alloxysta capillata Belizin, 1962. Russia: **FE** (KU).

- Alloxysta castanea** (Hartig, 1841) [Xystus] (*Alloxysta erythrothorax* var. *dubia* Kieffer, 1902; *Allotria rubriceps* Kieffer, 1902; *Alloxysta semiclausa* Kieffer, 1904). Secondary parasitoid in *Aphis* spp. and *Periphyllus* spp. (Aphididae). Russia: **EP** (N, NW, C, E, S, NC, CR), **ES** (IR), **FE** (PR). – Europe (WE, NE, EE), Georgia.
- Alloxysta contineus** (Belizin, 1962) [Charips]. Russia: **FE** (CH).
- Alloxysta crassicornis** (Thomson, 1862) [Allotria] (*Allotria versicolor* Kieffer, 1904). Secondary parasitoid in *Aphis plantaginis* Goetze, *A. rosae* L., *A. gallarum* L., *A. viciae* Kalt., *A. ligustri* Kalt. and *Dactynotus cichorii* Koch (Aphididae). Adults in summer. Russia: **EP** (NC). – Europe (WE, NE, EE), Georgia.
- Alloxysta dolichocera** (Cameron, 1889) [Allotria]. Secondary parasitoid in *Myzocallis coryli* Goeze (Aphididae). Adults in June. Russia: **EP** (NC), **ES** (IR, ZB). – Europe (WE, SE, EE).
- Alloxysta flavicornis** (Hartig, 1841) [Xystus]. Secondary parasitoid in *Thelaxes dryophila* Schrank (Aphididae). Adults in summer. Russia: **EP** (C). – Europe (WE, NE, EE), Israel.
- Alloxysta fuscipes** (Thomson, 1862) [Allotria] (*Alloxysta ruthei* Hellén, 1931). Secondary parasitoid in *Aphis* sp. (Aphididae). Russia: **EP** (NW). – Europe (WE, NE).
- Alloxysta luteipes** (Kieffer, 1902) [Allotria]. Russia: **EP** (NW, C, S, NC), **FE** (PR). – Europe (WE, EE), Georgia, Armenia, Azerbaijan.
- Alloxysta macrophadnus** (Hartig, 1841) [Xystus] (*Allotria piceomaculata* Cameron, 1883; *A. basimacula* Cameron, 1886; *A. caledonica* Cameron, 1886; *A. maculicollis* Cameron, 1886; *A. crassa* Cameron, 1889; *A. filicornis* Cameron, 1889; *Alloxysta nigriiventris* var. *rubromaculata* Kieffer, 1902; *A. scutellata* Kieffer, 1902). Secondary parasitoid of *Aphis*, *Acyrtosiphon*, *Metopolophium* and *Sitobion* species (Aphididae). Russia: **EP** (N, NW, C, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Alloxysta melanothorax** (Kieffer, 1902) [Allotria] (*Allotria pusilla* var. *melanothorax* Kieffer, 1902). Secondary parasitoid in *Aphis pomi* Deg., *Myzus cerasi* F. and *Rhopalosiphum padi* L. (Aphididae). Adults in summer. Russia: **EP** (N, NW, C), **UR**, **ES** (IR), **FE** (PR). – Europe (WE, EE), Georgia, Armenia, Azerbaijan, Tajikistan, Kazakhstan.
- Alloxysta proxima** Belizin, 1962. Russia: **FE** (KA).
- Alloxysta ramulifera** (Thomson, 1862) [Allotria] (*Xystus minutus* Hartig, 1840; *Nephycta discreta* Foerster, 1869; *Allotria parvicellula* Kieffer, 1904; *Alloxysta ramulifera* Hellén, 1963). Secondary parasitoid in aphids (Aphididae). Adults in May–August. Russia: **EP** (N, NW, C, E, S, NC, CR). – Europe (WE, NE, SE, EE), Armenia, Israel.
- Alloxysta salicicola** (Belizin, 1973) [Auloxysta]. Russia: **FE** (KU).
- Alloxysta tscheki** (Giraud, 1860) [Allotria]. Secondary parasitoid in aphids *Aphis* spp. (Aphididae). Russia: **EP** (NW, C). – Europe (WE, NE, EE), Kazakhstan.
- Alloxysta urticarum** (Kieffer, 1902) [Allotria]. Secondary parasitoid in aphids *Aphis urticaria* Kalt. (Aphididae). Adults in summer. Russia: **EP** (N, NW, C). – Europe (WE, EE), Armenia, Kazakhstan.
- Alloxysta victrix** (Westwood, 1833) [Allotria] (*Cynips fulviceps* Curtis, 1838; *C. ruficeps* Zetterstedt, 1838; *Xystus erythrocephalus* Hartig, 1840; *Xystus erythrocephalus* Hartig, 1841; *Allotria tritici* Fitch, 1861; *A. macrocera* Thomson, 1877; *A. curvicornis* Cameron, 1883; *A. ruficeps* Cameron, 1883; *A. luteicornis* Kieffer, 1902; *Charips areolata* Kieffer, 1909). Secondary parasitoid in many aphids (Aphididae). Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (TM, OM, TK, NS, KM, AL), **ES** (KS, TU, KR, IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA, MG, CH). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Israel, Turkmenistan, Tajikistan, Greenland, N and S America.
- PHAENOGLYPHIS** Foerster, 1869 (*Hemicrisis* Foerster, 1869; *Auloxysta* Thomson, 1877; *Glyptoxysta* Thomson, 1877; *Bothrioxysta* Kieffer, 1902; *Charipsella* Brèthes, 1913). Type species: *Phaenoglyphis xanthocroa* Foerster, 1869. Cosmopolitan genus. Number of species: World – about 40, Palaearctic – 23, Russia – 6.
- Phaenoglyphis frigidus** (Belizin, 1968) [Auloxysta]. Russia: **FE** (KU, CH).
- Phaenoglyphis insularis** (Belizin, 1973) [Auloxysta]. Russia: **FE** (CH).
- Phaenoglyphis repentinus** Belizin, 1962. Russia: **FE** (KA).
- Phaenoglyphis silvicola** (Belizin, 1928) [Charips]. Russia: **EP** (NC).
- Phaenoglyphis stricta** (Thomson, 1877) [Allotria]. Parasitoid of *Aphidius funebris* Mack. (Aphidiidae) on aphid *Uroleucon cirsii* L. (Aphididae) on *Cirsium arvense* (Asteraceae). Russia: **EP** (NW). – Europe (WE, NE, SE).
- Phaenoglyphis villosa** (Hartig, 1841) [Xystus] (*Allotria picipes* Thomson, 1862; *A. collina* Cameron, 1889; *A. perplexa* Cameron, 1889; *A. ambrosiae* Ashmead, 1898; *A. carpentieri* Kieffer, 1902; *A. curvata* Kieffer, 1902; *A. foveigera* Kieffer, 1902; *A. rectinicornis* Kieffer, 1902; *Alloxysta campyla* Kieffer, 1904; *A. subaperta* Kieffer, 1904; *Bothrioxysta numidica* Kieffer, 1909; *Glyptoxysta necans* Kieffer, 1909; *G. bifoveata* Girault, 1931; *Bothrioxysta colorata* Belizin, 1962; *Charips flavipes* Ionescu, 1963; *Auloxysta tarsata* Belizin, 1973; *Phaenoglyphis helleni* Andrews, 1978). Very common secondary parasitoid in many species of aphids (Aphididae). Adults in summer-autumn. Russia: **EP** (N, NW, C, NC, CR), **WS** (NS), **FE** (PR, KU). – Europe (WE, NE, SE, EE), N Africa, Tajikistan, Kyrgyzstan, Kazakhstan, China (NE, NC, CC), Japan (Hok, Hon), N America, South Africa, Chile, Australia.

Subfamily EUCOILINAE

Eucoilinae is the most species-rich and most common subfamily of Figitidae which includes parasitoids of

brachycerous flies. Cosmopolitans. Eucoilinae include 6 tribes, Diglyphosemini (10 genera, about 99 species), Kleidotomini (5 genera, about 150 species), Eucoilini (8 genera, about 165 species), Trichoplastini (6 genera, 83 species), Ganaspini (30 genera, c. 315 species) and Zaeucoilini (12 genera, 41 species). Number of taxa: World – 71 genera and 853 species, Palaearctic – 34/about 430, Russia – 16/75.

CHRESTOSEMA Foerster, 1869 (*Recentia* Belizin, 1961).

Type species: *Chrestosema erythropum* Foerster, 1869. All zoogeographical regions. Late summer wasps, hosts – Drosophilidae. Number of species: World – 9, Palaearctic – 6, Russia – 2.

Chrestosema laterale Belizin, 1973. Russia: **FE** (PR).

Chrestosema stricta Belizin, 1968. Russia: **FE** (PR).

COTHONASPIS Hartig, 1840 (*Psilosema* Kieffer, 1901).

Type species: *Cothonaspis pentatoma* Hartig, 1841. Parasitoids of Sepsidae in dung and mushrooms. Holarctic, Oriental, Neotropics, Afrotropical, Australian and Pacific regions. Number of species: World – 10, Palaearctic – 6, Russia – 3.

Cothonaspis antennata (Giraud, 1860) [Eucoila]. Russia: **EP** (C). – Europe (WE).

Cothonaspis pentatoma Hartig, 1840 (*Cothonaspis gracilis* Hartig, 1841; *Erisphagia giraudi* Dalla Torre et Kieffer, 1910). Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE).

Cothonaspis pravei Belizin, 1928. Russia: **EP** (NC).

DIGLYPHOSEMA Foerster, 1869 (*Amphiglyphosema* Benoit, 1956). Type species: *Diglyphosema eupatorii* Foerster, 1869. Palaearctic, Neotropical, Australian and Pacific regions. Parasitoids in Agromyzidae. Number of species: World – 9, Palaearctic – 6, Russia – 3.

Diglyphosema eupatorii Foerster, 1869. Russia: **EP** (C), **FE** (PR). – Europe (WE, EE).

Diglyphosema maritimum Belizin, 1973. Russia: **FE** (PR).

Diglyphosema punctatum Kieffer, 1901. Russia: **EP** (NW, C, NC), **UR**. – Europe (EE), Georgia, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan.

DISORYGMA Foerster, 1869 (*Ectolyta* Foerster, 1869; *Erisphagia* Foerster, 1869; *Trichoptrasea* Kieffer, 1901). Type species: *Disorygma divulgatum* Foerster, 1869. Summer and autumn wasps, parasitoids of Agromyzidae. Holarctic, Oriental and Australasian regions. Number of species: World – 8, Palaearctic – 4, Russia – 1.

Disorygma giraudi (Dalla Torre et Kieffer, 1910). Russia: **EP** (NC). – Europe (WE, NE, EE).

EUCOILA Westwood, 1833 (*Psilodora* Foerster, 1869; *Dimicrostrophis* Provancher, 1886; *Macroceruecoila* Ashmead, 1887; *Hexamerocera* Kieffer, 1901; *Lytosema* Kieffer, 1901; *Pseudoeucoila* Ashmead, 1903; *Psilodoropsis* Hedicke, 1913; *Lenobria* Belizin, 1968). Type species: *Eucoila*

crassinerva Westwood, 1833. Summer and autumn wasps, parasitoids of Sarcophagidae, Muscidae and Calliphoridae in dung and carrion. Holarctic genus. Number of species: World – 7, Palaearctic – 6, Russia – 6.

Eucoila affinis Belizin, 1928. Russia: **EP** (NC).

Eucoila bidentata (Belizin, 1968) [Lenobria]. Russia: **ES** (YA).

Eucoila ciscaucasica Belizin, 1928. Russia: **EP** (NC).

Eucoila fuscipennis (Kieffer, 1901) [Eucoela]. Russia: **EP** (NW, C). – Europe (EE), Armenia.

Eucoila maculata (Hartig, 1840) [Cothonaspis]. Parasitoid of *Syrphus ribesii* L. (Syrphidae). Russia: **EP** (NC). – Europe (WE, NE, SE).

Eucoila trichopsila (Hartig, 1841) [Cothonaspis]. Russia: **EP** (N, NW, C, E, S, NC, CR). – Europe (WE, NE, SE, EE).

GANASPIS Foerster, 1869. Type species: *Ganaspis mundata* Foerster, 1869. Late summer and autumn species, parasitoids of Drosophilidae and Chloropidae in grasslands and forests. All zoogeographical regions. Number of species: World – 54, Palaearctic – about 20, Russia – 5.

Ganaspis ciliaria (Belizin, 1968) [Odonteucoila]. Russia: **FE** (PR).

Ganaspis mundata Foerster, 1869. Parasitoid of *Musca domestica* L. (Muscidae). Russia: **EP** (NC). – Europe (WE).

Ganaspis muscidis Belizin, 1961. Parasitoid of *Ravinia striata* F. (Sarcophagidae). Russia: **EP** (NC).

Ganaspis nikolskayae Belizin, 1973. Russia: **FE** (PR).

Ganaspis radiatus Belizin, 1928. Russia: **EP** (NC).

GRONOTOMA Foerster, 1869. Type species: *Gronotoma sculpturata* Foerster, 1869. Late summer wasps, parasitoids of Agromyzidae. Distributed in all zoogeographical regions. Number of species: World – 55, Palaearctic – about 30, Russia – 2.

Gronotoma allotriaeformis (Giraud, 1860) [Eucoila]. Russia: **EP** (C, NC). – Europe (WE, EE), Georgia.

Gronotoma sculpturata (Foerster, 1855) [Eucoila]. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (TM, OM, TK, NS, KM, AL), **ES** (KS, TU, KR, IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA, MG, CH). – Europe (WE, NE, SE, EE), Armenia.

HEXACOLA Foerster, 1869 (*Hexaplasta* Foerster, 1869). Type species: *Eucoila picicrus* Giraud, 1860 (= *Cothonaspis hexatoma* Hartig, 1841). Parasitoids of Sepsidae and Agromyzidae. Distributed in all zoogeographical regions. Number of species: World – 11, Palaearctic – 5, Russia – 2.

Hexacola hexatoma (Hartig, 1841) [Cothonaspis] (*Eucoila picicrus* Giraud, 1860). Russia: **EP** (NC). – Europe (WE).

Hexacola nigriclava (Kieffer, 1904) [Hexaplasta]. Russia: **EP** (NC). – Europe (WE).

KLEIDOTOMA Westwood, 1833 (*Agroscopa* Foerster, 1869; *Aphloptera* Foerster, 1869; *Aphyoptera* Foerster,

1869; *Heptameris* Foerster, 1869; *Nedinoptera* Foerster, 1869; *Rhynchacis* Foerster, 1869; *Tetrarhoptra* Foerster, 1869; *Tetratoma* Cameron, 1890; *Arhoptra* Kieffer, 1901; *Pentarhoptra* Kieffer, 1901; *Schizosema* Kieffer, 1901; *Kleidotomidea* Rohwer et Fagan, 1917; *Pentakleidota* Weld, 1951; *Octameris* Belizin, 1973; *Polbourdouxia* Desart, 1977; *Nesokleidotoma* Beardsley, 1990). Type species: *Kleidotoma psiloidea* Westwood, 1833. Extremely diverse group ecologically, uniting wasps active at all times of the year, parasitoids of various Diptera: Ephydriidae, Sphaeroceridae, Sepsidae, Phoridae, Chloropidae, Anthomyiidae, Muscidae, Drosophilidae and Sciaridae, in grass, herbs, seawrack, anthills, bark beetle galleries, bird nests, green houses, dung, mushrooms, bracket fungi, etc. Mostly Holarctic genus, probably synanthropically spread to all other regions. Number of species: World – 134, Palaearctic – about 65, Russia – 22.

- Kleidotoma affinis** (Cameron, 1889) [Kleditoma]. Russia: **EP** (C). – Europe (NE).
Kleidotoma brevicornis Thomson, 1862. Russia: **EP** (C). – Europe (WE), Armenia.
Kleidotoma caledonica (Cameron, 1888) [Kleditoma]. Russia: **EP** (C). – Europe (NE, EE).
Kleidotoma cordata (Giraud, 1861) [Eucoila]. Russia: **EP** (C). – Europe (WE).
Kleidotoma derzhavini Belizin, 1973. Russia: **FE** (KA).
Kleidotoma dissimilis Belizin, 1964. Russia: **FE** (PR).
Kleidotoma effigies Belizin, 1964. Russia: **ES** (IR).
Kleidotoma erythropha Thomson, 1877. Russia: **FE** (PR).
Kleidotoma flecta Belizin, 1964. Russia: **EP** (C).
Kleidotoma geniculata (Hartig, 1840) [Cothonaspis]. Russia: **EP** (NC). – Europe (WE, NE, SE).
Kleidotoma hexatoma Thomson, 1862. Russia: **EP** (C). – Europe (WE, NE, EE), Armenia.
Kleidotoma marshalli marshalli (Cameron, 1889). Russia: **EP** (NC). – Europe (NE).
Kleidotoma melanopoda (Cameron, 1888) [Kleditoma]. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
Kleidotoma nigripes (Cameron, 1888) [Rhynchacis]. Russia: **EP** (NW). – Europe (WE, NE, EE).
Kleidotoma nitida (Kieffer, 1901) [Rhynchacis]. Russia: **EP** (NW). – Europe (WE, NE).
Kleidotoma ruficornis Thomson, 1862. Russia: **EP** (NW, C). – Europe (NE, EE), Georgia, Armenia, Kyrgyzstan, Kazakhstan.
Kleidotoma schuvachinae (Belizin, 1968) [Rhynchacis]. Russia: **FE** (PR).
Kleidotoma sibirica (Belizin, 1961) [Nedinoptera]. Russia: **ES** (IR).
Kleidotoma steppensis Belizin, 1928. Russia: **EP** (NC).
Kleidotoma striaticollis (Cameron, 1888) [Kleditoma]. Russia: **EP** (NW, C), **UR**. – Europe (WE, EE).
Kleidotoma tetratoma Thomson, 1862. Russia: **EP** (C). – Europe (WE, NE).

Kleidotoma trjapitzini Belizin, 1973. Russia: **FE** (PR).

MICROSTILBA Foerster, 1869. Type species: *Microstilba bidentata* Foerster, 1869. Early summer species, parasitoids of Agromyzidae. Palaearctic and Nearctic genus. Number of species: World – 8, Palaearctic – 6, Russia – 5.

Microstilba heterogena (Giraud, 1860) [Eucoila]. Russia: **EP** (C, NC). – Europe (WE, EE), Uzbekistan, Kazakhstan.

Microstilba juncta Belizin, 1973. Russia: **FE** (PR).

Microstilba parva Belizin, 1966. Russia: **EP** (C). – Europe (EE), Kazakhstan.

Microstilba reticulata Belizin, 1968. Russia: **FE** (PR).

Microstilba ruficornis Kieffer, 1901. Parasitoid of *Phytomyza affinis* Mg. (Agromyzidae). Russia: **EP** (C). – Europe (WE, EE), Georgia, Armenia.

MIRANDICOLA Belizin, 1968 (*Pseudopsichacra* Quinlan, 1976). Type species: *Mirandicola kovalevi* Belizin, 1968. Palaearctic and Oriental regions. Late summer wasps; host unknown, but the wasps occur in wet grasslands and marshes. Number of species: World – 8, Palaearctic – 3, Russia – 1.

Mirandicola kovalevi Belizin, 1968. Russia: **FE** (PR).

NORLANDERIANA Kovalev, 1989 (*Hypoethria* Belizin, 1968). Type species: *Hypoethria grunini* Belizin, 1968. Late summer wasps, parasitoids of Lonchaeidae in decaying wood. Number of species: World – 2, Palaearctic – 1, Russia – 1.

Nordlanderiana grunini (Belizin, 1968) [Hypoethria]. Parasitoid in larva of Lonchaeidae flies. Russia: **FE** (PR).

PRESSIA Belizin, 1968. Type species: *Pressia nikolskajae* Belizin, 1968. Monotypic genus.

Pressia nikolskajae Belizin, 1968. Russia: **FE** (PR).

RHOPTROMERIS Foerster, 1869 (*Miomoera* Foerster, 1869; *Hexamerocera* Kieffer, 1901; *Striatellia* Belizin, 1966). Type species: *Cothonaspis eucera* Hartig, 1840 (= *Cothonaspis heptoma* Hartig, 1840). Distributed in all zoogeographical regions. Late summer and autumn wasps, parasitoids of Chloropidae on grasses (including cereals), conifer cones and bracket fungi. Number of species: World – 49, Palaearctic – about 20, Russia – 4.

Rhoptromeris acuminata (Belizin, 1968) [Odonteucoila]. Russia: **FE** (PR).

Rhoptromeris caelestis Belizin, 1968. Russia: **ES** (ZB).

Rhoptromeris heptoma (Hartig, 1840) [Cothonaspis] (*Cothonaspis bispinus* Hartig, 1840; *C. eucera* Hartig, 1841; *Eucoila nodosa* Giraud, 1860; *E. parvula* Thomson, 1862; *Miomoera aberrans* Foerster, 1869; *Eucoila aequalis* Kieffer, 1901; *Rhoptromeris widhalmi* Kurdjumov, 1912). Parasitoid of *Oscinella frit* L. (Chloropidae).

Russia: **EP** (N, NW, C, NC), **WS** (NS). – Europe (WE, NE, SE, EE), Armenia, Kazakhstan.

Rhoptromeris insuetus Belizin, 1962. Russia: **FE** (KU).

TRICHOPLASTA Benoit, 1956 (*Armigerina* Belizin, 1968).

Type species: *Trichoplasta basilewskyi* Benoit, 1956. Almost cosmopolitan genus, absent only in the Neotropics. Late summer wasps; Holarctic species are associated with dead wood and have been recorded as parasitoids of Lonchaeidae, but tropical species have been reared from other habitats and Diptera families. Number of species: World – 26, Palearctic – about 15, Russia – 1.

Trichoplasta aparella (Belizin, 1968) [*Armigerina*]. Russia: **FE** (PR).

TRYBLOGRAPHA Foerster, 1869 (*Adieris* Foerster, 1869; *Anectoclis* Foerster, 1869; *Episoda* Foerster, 1869; *Hypolethria* Foerster, 1869; *Idiomorpha* Foerster, 1869; *Piezobria* Foerster, 1869; *Pilinothrix* Foerster, 1869; *Psichacra* Foerster, 1869; *Pseudoeucoila* Ashmead, 1903; *Dusmetiola* Tavares, 1924). Type species: *Trybliographa scutellaris* Hartig, 1840. Predominantly late summer-autumn species, some species emerge in spring. Parasitoids of Anthomyiidae. Cosmopolitan genus, mainly Holarctic. Number of species: World – 69, Palearctic – about 35, Russia – 16.

Trybliographa agaricorum (Kieffer, 1901) [Eucoila]. Russia: **EP** (C). – Europe (WE).

Trybliographa advena Belizin, 1968. Russia: **FE** (PR).

Trybliographa anomala (Kieffer, 1901) [Eucoila]. Parasitoid of *Hylemyia floralis* Fll., *H. cilicrura* Rond. and *Pegomya hyoscyami* Pz. (Anthomyiidae). Russia: **EP** (N, NW, C, E, S, NC, CR), **ES** (IR, ZB), **FE** (PR). – Europe (WE, EE), Georgia, Azerbaijan, Kazakhstan.

Trybliographa brachytricha (Kieffer, 1901) [Eucoila]. Russia: **EP** (N, NW, C). – Europe (EE), Armenia, Kazakhstan.

Trybliographa carinata (Belizin, 1968) [Episoda]. Russia: **FE** (KH).

Trybliographa ciliaris (Zetterstedt, 1838) [Figites]. Parasitoid in *Hylemyia floralis* Fll. (Anthomyiidae). Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, Mongolia.

Trybliographa filicornis (Thomson, 1862) [Eucoila] (*Anectoclis indagatrix* Foerster, 1869). Russia: **EP** (NC). – Europe (WE, NE, EE).

Trybliographa floralis Dahlbom, 1846. Russia: **EP** (N, NW, C). – Europe (WE, NE, EE).

Trybliographa fuscipennis (Kieffer, 1901) [Eucoila]. Russia: **EP** (N, C). – Europe (NE, EE), Armenia.

Trybliographa nigra (Belizin, 1968) [*Idiomorpha*]. Russia: **FE** (PR).

Trybliographa nubulipennis (Kieffer, 1902) [Eucoila]. Russia: **EP** (N, NW, C), **WS** (AL). – Europe (NE, EE).

Trybliographa rapae (Westwood, 1835) [Eucoila] (*Cothonaspis coronatus* Hartig, 1841; *Eucoila insignis* Giraud, 1860; *Eucoela erythrocerata* Thomson, 1862; *Eucoila octotoma* Thomson, 1862; *Idiomorpha melanocera* Foerster, 1869; *Trybliographa scutellaris* Foerster, 1869; *T. crasicornis* Cameron, 1889; *Eucoila fortinervis* Cameron, 1889; *Eu. ventralis* Kieffer, 1901; *Eu. ruficornis* Kieffer, 1902; *Eu. britannica* Kieffer, 1905). Parasitoid of *Hylemyia brassicae* Bouché, *H. floralis* Fll. and *H. antiqua* Mg. (Anthomyiidae). Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **ES** (KR, IR). – Europe (WE, NE, SE, EE), Kazakhstan.

Trybliographa tenuicornis Giraud, 1860. Russia: **EP** (C). – Europe (WE, EE).

Trybliographa thomsoni (Kieffer, 1862) [Eucoila]. Russia: **EP** (C). – Europe (NE, EE).

Trybliographa umbelliferarum (Belizin, 1927) [Psichacra]. Russia: **EP** (C).

Trybliographa xanthoneura (Foerster, 1869) [Episoda]. Russia: **EP** (C). – Europe (WE).

Subfamily FIGITINAE

Cosmopolitan; parasitoids of Diptera. Number of taxa: World – 14 genera and 144 species, Palearctic – 8/50, Russia – 7/31.

DONUM Diakontshuk, 2001. Type species: *Donum jacuticum* Diakontshuk, 1983. Monotypic Eastern Palearctic genus, was erroneously described in Cynipidae (Aylacini).

Donum jacuticum Diakontshuk, 1983. Erroneously described as a gall inducer in flowerheads of *Saussurea* (Asteraceae). Probably a parasitoid. Adults emerged from galls collected in August. Russia: **ES** (YA, ZB).

FIGITES Latreille, 1802 (*Psilogaster* Hartig, 1840; *Pycnotrichia* Foerster, 1869; *Omalaspoides* Hedicke, 1913; *Seitneria* Tavares, 1928). Type species: *Cynips scutellaris* Rossi, 1794. Parasitoids in dipteran larvae. Recorded in Europe, Africa, Sri Lanka and New World. Number of species: World – about 80, Palearctic – 33, Russia – 16.

Figites anthomyiarum Bouché, 1834. Russia: **EP** (N, NW, S, NC). – Europe (WE, NE, EE), Kazakhstan.

Figites apicalis Giraud, 1860. Russia: **EP** (C), **ES** (IR). – Europe (WE), Tajikistan, Mongolia.

Figites ater Belizin, 1928. Russia: **EP** (NC).

Figites consobrinus Giraud, 1838 (*Figites dentiscuta* Hellén, 1937). Russia: **EP** (NW). – Europe (WE, NE), Tajikistan, Kazakhstan.

Figites fuscinervis Giraud, 1860. Russia: **EP** (CR). – Europe (WE, EE), Armenia, Kazakhstan.

Figites lutshniki Belizin, 1928. Russia: **EP** (CR).

Figites margaritus Belizin, 1968. Russia: **FE** (PR).

- Figites nitens** (Hartig, 1843) [Psilogaster]. Russia: **EP** (N, NW, C). – Europe (WE, EE).
- Figites politus** Giraud, 1860. Russia: **EP** (NC), **ES** (IR). – Europe (WE).
- Figites reinhardi** Kieffer, 1901 (*Figites anthomyzae* Dahlbom, 1842; *F. larvarum* Dahlbom, 1846). Russia: **EP** (NC). – Europe (WE, NE, EE).
- Figites scutellaris** (Rossi, 1794) [Cynips] (*Seitneria ruficornis* Rossi, 1794; *Ophion abbreviator* Panzer, 1801; *Seitneria abbreviator* Herrich-Schäffer, 1801; *Diplolepis figites* Lamarck, 1817; *Psilogaster tibialis* Hartig, 1840; *Omalaspoides letzneri* Hedicke, 1913; *O. silesiacus* Hedicke, 1913). Parasitoid of *Musca domestica* L. (Muscidae), *Ravinia striata* F., *Parasarcophaga albiceps* Mg., *P. unguetigris* Rohd. and *Sarcophaga* spp. (Sarcophagidae). Russia: **EP** (N, NW, C, NC), **UR**, **ES** (IR, YA), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Figites silantjevi** Belizin, 1928. Russia: **EP** (NC).
- Figites similis** Belizin, 1928. Russia: **EP** (NC).
- Figites striolatus** (Hartig, 1840) [Psilogaster]. Parasitoid of *Musca domestica* L. (Muscidae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (AL), **ES** (KR, YA), **FE** (PR). – Europe (WE, EE), Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Figites urticarum** Dahlbom, 1842. Russia: **EP** (N, C). – Europe (NE, EE).
- Figites validicornis** Thomson, 1862. Russia: **EP** (N). – Europe (NE, SE).
- LONCHIDIA** Thomson, 1862. Type species: *Figites maculipennis* Dalman, 1842. Number of species: World – 9, Palaearctic – 8, Russia – 3.
- Lonchidia lissonota** Thomson, 1862. Russia: **EP** (NW), **ES** (IR). – Europe (NE), Uzbekistan, Kazakhstan.
- Lonchidia longinqua** Belizin, 1962. Russia: **FE** (CH).
- Lonchidia rhiphaeica** Belizin, 1961. Russia: **UR**.
- TRISCHIZA** Foerster, 1869 (*Figitodes* Ashmead, 1887). Type species: *Figites agaricolarum* Dahlbom, 1842. Number of species: World – 4, Palaearctic – 3, Russia – 1.
- Trischiza taurica** Belizin, 1954. Russia: **EP** (CR).
- SAROTHROIDES** Belizin, 1961. Type species: *Sarothroides frequens* Belizin, 1961. Monotypic Eastern Palaearctic genus.
- Sarothroides frequens** Belizin, 1961. Russia: **FE** (PR).
- SAROTHRUS** Hartig, 1840 (*Amphitectus* Hartig, 1840). Type species: *Sarothrus canaliculatus* Hartig, 1840. Parasitoids in larvae of Anthomyiidae. Number of species: World – 18, Palaearctic – 4, Russia – 8.
- Sarothrus areolatus** Hartig, 1840. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**. – Europe (WE, NE, EE), Georgia.
- Sarothrus atterimus** Belizin, 1954. Russia: **WS** (TK, AL), **ES** (KS, KR, IR, YA). – Mongolia.
- Sarothrus brevicornis** Thomson, 1877. Russia: **EP** (C). – Europe (NE).
- Sarothrus glaber** Belizin, 1954. Russia: **ES** (KR).
- Sarothrus minutus** Belizin, 1954. Russia: **ES** (IR, ZB).
- Sarothrus punctatus** Belizin, 1954. Russia: **FE** (KA).
- Sarothrus sibiricus** Belizin, 1954. Russia: **WS** (KM), **ES** (KR).
- Sarothrus tibialis** (Zetterstedt, 1838) [Cynips] (*Sarothrus canaliculatus* Hartig, 1840; *S. silesiacus* Hedicke, 1913). Russia: **EP** (N, NW, C, E, S, NC, CR), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan.
- ZYGOSIS** Foerster, 1869 (*Diceraea* Foerster, 1869). Type species: *Figites urticeti* Dahlbom, 1842. Parasitoids in Diptera larvae. One species is known in Europe. Number of species: World – 2, Palaearctic – 1, Russia – 1.
- Zygosis urticeti** (Dahlbom, 1842) [Figites] (*Psilogaster heteropterus* Hartig, 1843). Parasitoid of *Sarcophaga striata* Mg. (Sarcophagidae). Russia: **EP** (C, CR). – Europe (WE, NE).

33. FAMILY CYNIPIDAE – GALLWASPS

Members of the family Cynipidae (gallwasps), without exception, are phytophagous insects: gall-inducers and inquiline, divided into one extant subfamily, Cynipinae and the extinct Hodiernocynipinae. The subfamily Cynipinae is divided in 12 tribes: Cynipini (about 954 species in 41 genera, Holarctic, Oriental and Neotropical regions), Diplolepidini (55 species in 2 genera, Holarctic region), Pediaspidini (2 species in 2 genera, *Himalocynips* Yoshimoto, 1970 and *Pediaspis* Tischbein, 1852, Palaearctic region), Eschatocerini (3 species in one genus, *Eschatocerus* Mayr, 1881, Neotropical region), Qwaqwaiini (one species, *Qwaqwaia scolopiae* Liljeblad, Nieves-Aldrey et Melika, 2011, in one genus, Afrotropical region), Paraulacini (6 species in two genera, *Paraulax* Kieffer, 1904 and *Cecinothofagus* Nieves-Aldrey et Liljeblad, 2009, southern Neotropics, Chile and Argentina), Aylacini, Aulacideini, Phanacidini, Diastrophini, Ceroptresini and Synergini. Cynipidae evolved in the Northern Hemisphere and the first gallwasps were most likely associated with woody host plants, and there must have been multiple origins of gall inducers, inquiline or both. Also it is possible that gall inducers arose independently from inquiline in several lineages. Gallwasps are conservative in their host-plant preferences, and the herb-galling lineages have radiated repeatedly onto the same rather limited set of unrelated host plants. In many Cynipini species and in Pediaspidini (*Pediaspis*) there is an obligatory annual alternation of sexual (sex. gen.) and asexual (parthenogenetic; asex. gen.) generations, while the representatives of other tribes have only one sexual (or asexual) generation per year.

The majority of species are distributed in the temperate zone of the Holarctic region. Number of taxa: World – 77 genera and 1364 species, Palaearctic – 39/494, Russia – 28/127.

R e f e r e n c e s. Pliginskij, 1890; Belizin, 1928, 1957, 1959, 1961a, 1961b, 1968, 1973; Monzen, 1953, 1954; Vyrzhikovskaya, 1954, 1962, 1963; Shevchenko, 1955; Maisuradze, 1961; Plugaru, 1963; Kovalev, 1965, 1982, 1994; Kierych, 1979; Diakontshuk, 1981, 1982, 1983, 1986, 1987, 2001, 2003; Kovalev, Diakontshuk, 1986; Zerova et al., 1988; Yukawa, Masuda, 1996; Ronquist, 1999; Melika, Abrahamson, 2002; Pujade-Villar et al., 2003, 2015; Schick et al., 2003; Melika, 2004, 2006, 2018; Abe et al., 2007; Nieves-Aldrey et al., 2009; Ács et al., 2010; Wachi, Abe, 2010; Péntes et al., 2012, 2018; Bozsó et al., 2014; Ronquist et al., 2015; Schwéger et al., 2015a, 2015b.

Tribe AYLACINI

All Aylacini are monovoltine species, known from the sexual generation only; alternation of generations is unknown. The tribe Aylacini s. l., which has long been known to be a paraphyletic assemblage of genera, is here restricted to three genera *Aylax* Hartig, 1840 (5 species), *Barbotinia* Nieves Aldrey, 1994 (1) and *Iraella* Nieves Aldrey, 1994 (3). All species are gall inducers on Papaver species (Papaveraceae). Number of taxa: World – 3 genera and 9 species, Palaearctic – 3/8, Russia – 2/2.

AYLAX Hartig, 1840 (*Aclepiadiphila* Ashmead, 1897).

Type species: *Cynips rhoeadis* Bouché, 1834. The genus is represented by five species: three from Europe [*Aylax papaveris* (Perris, 1839); *A. minor* Hartig, 1840 (on Papaver); *Aylax hypaei* Trotter, 1912, described from Northern Africa (Tripoli) (on Hypecoum), also found in Greece and Algeria]; one species, *Aylax tanaretis* Belizin, 1959, known from the Eastern Palaearctic; one species, *Aylax quinquecostatus* (Provancher, 1883), was described from Canada (Ontario), however, the position of this species is questionable. Only the sexual generation is known, all species are monovoltine; induce galls on Papaver and Hypecoum (Papaveraceae). Number of species: World – 5, Palaearctic – 4, Russia – 1.

Aylax minor Hartig, 1840 (*Aulax papaveris* var. *minor* Cameron, 1893). Galls in fruits of Papaver spp., develop from July; adults emerge next year in May. Russia: **EP** (CR). – Europe (WE, SE, EE).

BARBOTINIA Nieves-Aldrey, 1994. **Type species:** *Aylax oraniensis* Barbotin, 1964. Monotypic Western Palaearctic genus.

Barbotinia oraniensis (Barbotin, 1964) [Aylax]. Galls in fruit capsules of Papaver spp. (Papaveraceae); galls start to develop in April, mature in June; adults emerge next spring. Russia: **EP** (CR). – Europe (SE, EE).

Tribe AULACIDEINI

Gall inducers on Asteraceae, Lamiaceae, Valerianaceae and some Papaveraceae. All Aulacideini are monovoltine species, known from the sexual generation only; alternation of generations is unknown. Nine Holarctic genera: *Antistrophus* Walsh, 1869 (8 species), *Aulacidea* Ashmead, 1897 (33), *Cecconia* Kieffer, 1902 (1), *Hedickiana* Nieves Aldrey, 1994 (1), *Isocolus* Foerster, 1869 (25), *Liposthenes* Foerster, 1869 (3), *Neaylax* Nieves Aldrey, 1994 (5), *Panteliella* Kieffer, 1902 (1) and *Rhodus* Quinlan, 1968 (1). Number of taxa: World – 9 genera and 78 species, Palaearctic – 8/63, Russia – 6/29.

AULACIDEA Ashmead, 1897. **Type species:** *Aulax mulgediicola* Ashmead, 1896. Number of species: World – 33, Palaearctic – 26, Russia – 11.

Aulacidea abdominalis (Thomson, 1877) [Aulax] (*Aulacidea macula* Forsius, 1921). Galls in flower heads of Scorzonera spp. (Asteraceae), mature in June; adults emerge in spring. Russia: **EP** (NW, C). – Europe (NE, EE), Kazakhstan.

Aulacidea acroptilonica Tyurebaev, 1972. Galls in stems of Acroptilon repens L. (DC) (Asteraceae). Part of adults emerge at the beginning of summer, part – next spring in April–May. Russia: **EP** (C, CR). – Europe (EE), Iran, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan.

Aulacidea hieracii (Linnaeus, 1758) [Cynips] (*Aylax sabaudi* Hartig, 1840; *Aulax graminis* Cameron, 1875; *A. artemisiae* Thomson, 1877; *A. crassinervis* Thomson, 1877; *A. foveigera* Thomson, 1877; *Aulacidea cacaliae* Belizin, 1959). Galls in stems of Hieracium spp. and Cacalia hastata L. (Asteraceae). Galls mature in autumn; adults emerge next spring in May. Russia: **EP** (NW, C, E, NC, CR), **UR**, **WS** (OM, NS), **ES** (IR), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, Japan (Hok, Hon, Kyu).

Aulacidea phlomica Belizin, 1959. Galls in stems of Phlomis tuberosa L. (Labiateae); adults emerge in May. Russia: **EP** (C), **ES** (ZB), **FE** (PR). – Europe (EE).

Aulacidea pilosellae (Kieffer, 1901) [Aulax]. Galls on leaves of Hieracium spp. (Asteraceae); visible on leaves from June; adults emerge next spring in May. Russia: **EP** (C). – Europe (WE, SE, EE), Israel.

Aulacidea scorzonerae (Giraud, 1859) [Aulax]. Galls in flower heads of Scorzonera austriaca Willd. (Asteraceae). Russia: **EP** (C). – Europe (WE, EE).

Aulacidea serratulae Diakontschuk, 1984. Galls in stems of Serratula spp. (Asteraceae); adults emerge in May. Russia: **FE** (PR). – Europe (EE), Kyrgyzstan.

Aulacidea subterminalis Niblett, 1946. Galls on leaves of Hieracium spp. (Asteraceae); adults emerge next spring in July–August. Russia: **EP** (C, CR). – Europe (WE, SE, EE).

Aulacidea taurica (Belizin, 1954) [Trischiza]. Only the holotype male is known; gall and host plants are unknown. Russia: **EP** (CR).

- Aulacidea tobiasi** Melika, 2004. Galls in stems of *Saussurea grandifolia* Maximowicz (Asteraceae). Russia: **FE** (PR).
- Aulacidea tragopogonis** (Thomson, 1877) [Aulax] (*Aulacidea pigeoti* Kieffer, 1898). Galls in stems of *Tragopogon* spp. (Asteraceae); larvae overwintering in galls; adults emerge next spring in May–June. Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE).
- HEDICKIANA** Nieves-Aldrey, 1994. Type species: *Aulacidea levantina* Hedicke, 1928. Monotypic Western Palaearctic species.
- Hedickiana levantina** (Hedicke, 1928) [Aulacidea]. Multilocular stem swelling-like galls on *Salvia* spp. (Lamiaceae); larvae overwintering in the gall; adults emerge next spring. Russia: **EP** (CR). – Europe (WE, EE), Armenia, Syria, Israel, Iran.
- ISOCOLUS** Foerster, 1859 (*Eubothrus* Foerster, 1869). Type species: *Diastrophus scabiosae* Giraud, 1859. Number of species: World – 25, Palaearctic – 25, Russia – 12.
- Isocolus areolata** Giraud, 1859. Galls in stems and flower heads on *Centaurea* spp. (Asteraceae); galls mature in autumn; adults emerge next year, in June. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE).
- Isocolus belizini** Diakontshuk, 1981. Galls in flowerheads of *Chartolepis intermedia* Boiss. (Asteraceae); adults emerge in summer, early autumn. Russia: **EP** (S). – Kazakhstan.
- Isocolus carthami** Diakontshuk, 2003. Galls on *Carthamus lanatus* L. (Asteraceae); adults emerge in May. Russia: **EP** (CR).
- Isocolus centaureae** Diakontshuk, 1982 (*Isocolus minutus* Diakontschuk, 1982). Galls in flower heads of *Centaurea* spp. (Asteraceae); adults emerge in April–May. Russia: **EP** (CR). – Europe (EE), Turkmenistan, Kazakhstan.
- Isocolus fitchi** (Kieffer, 1897) [Aulax]. Galls in flower heads of *Centaurea scabiosa* L. (Asteraceae). Russia: **EP** (C). – Europe (WE, EE), Kazakhstan.
- Isocolus flavus** Diakontshuk, 1982. Galls in flower heads of *Centaurea orientalis* L. (Asteraceae); adults emerge in May–June. Russia: **EP** (CR). – Europe (EE).
- Isocolus jaceae** (Schenck, 1863) [Aulax]. Galls in flower heads of *Centaurea* spp. (Asteraceae); adults emerge in June. Russia: **EP** (C, CR). – Europe (WE, EE).
- Isocolus ponticus** Diakontshuk, 1982 (*Isocolus tauricus* Diakontschuk, 1982). Galls in stems and flower heads of *Centaurea* spp. (Asteraceae); part of adults emerge in September of the same year when the gall induction was initiated; the larger part emerge next spring in April–July. Russia: **EP** (CR). – Europe (EE).
- Isocolus ruthenicae** (Diakontshuk, 1983) [Aylax]. Galls in flowerheads of *Centaurea ruthenica* Lam. (Asteraceae); galls mature in August; adults emerge next year in May–June. Russia: **EP** (C).
- Isocolus scabiosae** (Giraud, 1859) [Diastrophus] (*Diastrophus areolatus* Giraud, 1859; *Aulax centaurea* Thomson, 1877; *A. rogenhoferi* Wachtl, 1891). Galls in stems and flower heads of *Centaurea* spp. (Asteraceae); adults emerge in June–July. Russia: **EP** (C, E), **WS** (NS). – Europe (WE, NE, SE, EE), Kazakhstan.
- Isocolus tauricus** Diakontshuk, 1982. Galls in flowerheads of *Centaurea solstitialis* L. (Asteraceae); adults emerge in October. Russia: **EP** (CR).
- Isocolus volgensis** Diakontshuk, 1982. Galls in stems of *Centaurea adpressa* Ledeb. (Asteraceae); adults emerge in May. Russia: **EP** (S).
- LIPOSTHENES** Foerster, 1869. Type species: *Aulax glechomae* Hartig, 1841 (= *Cynips glechomae* Linnaeus, 1758). One species, *L. glechomae*, accidentally was introduced to N America. Galls on leaves and stems of *Nepeta* spp. and *Hymenocrater bituminosus* Fisch. et C.A. Mey (Lamiaceae). Number of species: World, Palaearctic and Russia – 2.
- Liposthenes glechomae** (Linnaeus, 1758) [Cynips] (*Aulax glechomae* Hartig, 1841; *Aulax latreillei* Kieffer, 1898). Galls in leaves of *Glechoma hederacea* L. (Labiatae); galls mature in autumn; adults emerge next year in April–May. Russia: **EP** (NW, C, E, NC, CR), **UR**. – Europe (WE, NE, EE), Kazakhstan, USA (accidentally introduced).
- Liposthenes kernerii** (Wachtl, 1891) [Aylax]. Galls in flower heads of *Nepeta* spp. (Lamiaceae); galls mature in July; adults emerge next year in May–June. Russia: **EP** (C, CR). – Europe (WE, SE, EE), Turkey.
- NEAYLAX** Nieves-Aldrey, 1994. Type species: *Aulax salviae* Giraud, 1859. Western Palaearctic genus. Number of species: World and Palaearctic – 5, Russia – 2.
- Neaylax salviae** (Giraud, 1859) [Aulax] (*Neaylax salviae*: Nieves-Aldrey, 1994b). Galls at the base of flower heads of *Salvia* spp. (Lamiaceae); galls mature in autumn; adults emerge next year in June–July. Russia: **EP** (C, NC, CR), **WS** (AL). – Europe (WE, SE, EE), Israel.
- Neaylax verticillica** (Belizin, 1959) [Aulacidea]. Galls at the base of flower heads of *Salvia verticillata* L. (Lamiaceae); adults emerge in May. Russia: **EP** (C).
- PANTELIELLA** Kieffer, 1901 (*Vetustia* Belizin, 1959; *Endocaulonia* Ionescu et Roman, 1960). Type species: *Aulax fedtschenkoi* Rübsaamen, 1896. Monotypic Palaearctic genus.
- Panteliella fedtschenkoi** (Rübsaamen, 1896) [Aulax] (*Vetustia investigata* Belizin, 1959; *Endocaulonia bicolor* Ionescu et Roman, 1960). Unilocular galls in stems, leaves and flower heads of *Phlomis tuberosa* L. (Lamiaceae); galls mature in autumn; adults emerge next spring–summer, in May–July. Russia: **EP** (C, CR), **UR**. – Europe (EE), Kazakhstan, Mongolia.

Tribe PHANACIDINI

Gall inducers on several genera of Asteraceae, rarely on Phlomis (Lamiaceae) and Eryngium (Apiaceae). All Phanacidini are monovoltine species, known from the sexual generation only; alternation of generations is unknown. 34 species in four genera, *Asiocynips* Kovalev, 1982 (4 species), *Diakontschukia* Melika, 2006 (1), *Phanacis* Foerster, 1860 (28) and *Zerovia* Diakontschuk, 1988 (1). One species was described from South Africa; members of the tribe were accidentally introduced to S America and Australia. Number of taxa: World – 4 genera and 34 species, Palaearctic – 4/33, Russia – 2/5.

DIAKONTSCHUKIA Melika, 2006. Type species: *Phanacis saussureae* Diakontschuk, 2001. Monotypic Eastern Palaearctic genus.

Diakontschukia saussureae (Diakontschuk, 2001) [Phanacis]. Galls in stems of *Saussurea neopulchella* Lipsch. and *S. pulchella* Fisch. (Fisch.) (Asteraceae); galls mature in April; adults emerge in June. Russia: **FE** (PR).

PHANACIS Foerster, 1860 (*Timaspis* Mayr, 1881; *Gillettea* Ashmead, 1897; *Aylacopsis* Hedicke, 1923; *Parapanteliella* Diakontschuk, 1981). Type species: *Cynips centaureae* Foerster, 1860. Two Palaearctic species, *Phanacis hypochoeridis* and *Ph. taraxaci*, were accidentally introduced to North America, and *Ph. hypochoeridis* was introduced to South Africa. One species, *Ph. neserorum* Melika et Prinsloo, 2007, was described from South Africa. With a few exceptions, all *Phanacis* species are monovoltine; associated with Asteraceae, usually galls are in a form of small larval cells, hidden in the plant stem, without causing any visual deformation externally. However, three species are known to associate with other plant families: *Ph. eryngii* Diakontschuk, 1984 associates with *Eryngium* sp. (Apiaceae); *Ph. heraclei* (Hedicke, 1923) associates with *Heracleum sphondylium* (Apiaceae), and *Ph. phlomidis* Belizin, 1959 associates with *Phlomis tuberosa* (Lamiaceae). Number of species: World – 28, Palaearctic – 27, Russia – 4.

Phanacis carthami Gussakovskij, 1933. Galls on roots of *Carthamus* sp. (Asteraceae) in mid May; adults emerge next year in May. Russia: **EP** (CR). – Uzbekistan.

Phanacis centaureae (Foerster, 1860) [Cynips] (*Aulax punctipleuris* Thomson, 1877; *Phanacis centaureae*: Kieffer, 1902; *Ph. lucidulus* Diakontschuk, 1980; *Ph. parvulus* Diakontschuk, 1980; *Ph. karadagica* Diakontschuk, 2003). Galls in stems of *Centaurea* sp. (Asteraceae); adults emerge next year in May–July. Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE), Turkmenistan, N America (introduced).

Phanacis cichorii (Kieffer, 1909) [Aulax] (*Timaspis cichorii* Balás, 1948; *Phanacis cichorii*: Eady et Quinlan, 1963). Galls in stems of *Cichorium intybus* L. (Asteraceae);

adults emerge next spring in April–July. Russia: **EP** (C, NC, CR). – Europe (WE, SE, EE), Caucasus, Turkmenistan, Tajikistan, Uzbekistan.

Phanacis phlomidis Belizin, 1959. Galls in stems of *Phlomis tuberosa* L. (Lamiaceae); adults emerge in May. Russia: **EP** (C). – Europe (EE).

Tribe DIASTROPHINI

All Diastrophini are mono- or bivoltine species, known from the sexual generations only; alternation of generations is unknown. Known 43 species in two genera of gall-inducers, *Diastrophus* Hartig, 1840 (20 species) and *Xestophanes* Foerster, 1869 (3 species), formerly included in the tribe Aylacini, and two inquiline genera, *Periclistus* Foerster, 1869 (14 species) and *Synophromorpha* Ashmead, 1903 (6 species), formerly included in the tribe Synergini. Both the gallers and the inquilines are associated with host plants in the family Rosaceae. Gall inducers in galls on *Rubus* spp. and *Potentilla* spp. (Rosaceae), rarely on *Smilax* (Smilacaceae) and inquilines in cynipid galls (*Synophromorpha* and *Periclistus*). Number of taxa: World – 4 genera and 43 species, Palaearctic – 3/16, Russia – 3/6.

DIASTROPHUS Hartig, 1840 (*Gonaspis* Ashmead, 1897).

Type species: *Cynips rubi* Bouché, 1834. Holarctic genus; in Europe represented by three species: *D. rubi* and *D. mayri* associated with *Rubus* and *Potentilla* (Rosaceae), respectively, and *D. hieracii* with galls on *Hieracium* (Asteraceae). According to the recent revision, 15 Nearctic *Diastrophus* species are known from America North of Mexico. Between Nearctic species, five are associated with *Potentilla* spp., one species is galling *Fragaria* sp. (Rosaceae), one species associates with *Smilax* (Smilacaceae), and 7 species – with *Rubus* sp. (Rosaceae). *Diastrophus colombianus* Nieves-Aldrey, 2013 was described from the Neotropics (Colombia). Galls induced by *Diastrophus* species are simple in their structure and represented by stem swelling-like formations. Number of species: World – 20, Palaearctic – 3, Russia – 2.

Diastrophus mayri Reinhard, 1876. Stem swelling-like galls on *Potentilla* sp. (Rosaceae); adults emerge next year in May. Russia: **EP** (NW, C). – Europe (WE, NE, EE).

Diastrophus rubi (Bouché, 1834) [Cynips] (*Diastrophus rubi* Hartig, 1843; *Andricus hartigi* Marshall, 1867; *Aulax rubi* Thomson, 1877; *Diastrophus rubi ibericus* Tavares, 1927). Multilocular cylindrical stem swelling-like galls on young green sprouts of *Rubus* spp. (Rosaceae); larvae overwintering in galls; adults emerge next year in spring. Russia: **EP** (N, NW, C, E, S, NC, CR). – Europe (WE, NE, SE, EE), Israel.

XESTOPHANES Foerster, 1869. Type species: *Cynips potentillae* Retzius, 1783. Galls in stems and runners of

Potentilla spp. (Rosaceae). Number of species: World and Palaearctic – 3, Russia – 1.

Xestophanes potentillae (Retzius, 1783) [Cynips] (*Aylax splendens* Hartig, 1840; *Aulax laevigata* Schenck, 1863; *A. abbreviatus* Thomson, 1877; *A. foveicollis* Thomson, 1877; *Xestophanes potentillae* var. *laevigatus* Kieffer, 1897–1901; *X. szepligetii* Balás, 1940). Mono- or bivoltine species; galls in stems of *Potentilla* spp. (Rosaceae); galls mature in September; adults emerge next year in May–June. Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.

PERICLISTUS Foerster, 1869. Type species: *Aylax caninae* Hartig, 1840. Species of this genus associate with *Diplolepis* rose galls, except Nearctic *P. smilacis* Ashmead, 1896 from Florida reared from galls of *Diastraphus smilacis* Ashmead (Cynipidae). Monovoltine species, represented by sexual generations only. Number of species: World – 14, Palaearctic – 7, Russia – 3.

Periclistus brandtii (Ratzeburg, 1831) [Cynips]. Inquilines in multilocular galls of *Diplolepis mayri* Schlecht. and *D. rosae* L. (Cynipidae); adults emerge in June–September. Russia: **EP** (N, NW, C, E, S, NC, CR). – Europe (WE, EE).

Periclistus caninae (Hartig, 1840) [Aylax] (*Aulax germanus* Schenck, 1863; *Periclistus rosarum* Dettmer, 1924). Usually attacks unilocular galls of *Diplolepis nervosa* Curtis and *D. eglanteriae* Hartig (Cynipidae); adults emerge in June–September. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Kazakhstan.

Periclistus capillatus Belizin, 1968. Reared from galls of *Diplolepis* sp. (Cynipidae) on *Rosa rugosa* Thunb. ex Murray (Rosaceae). Russia: **FE** (PR).

Tribe DIPLOLEPIDINI

Two genera, *Diplolepis* Geoffroy, 1762 and *Liebelia* Kieffer, 1903; both induce galls on wild species of *Rosa* (Rosaceae). Monovoltine species, with only sexual reproduction. Number of taxa: World – 2 genera and 55 species, Palaearctic – 2/23, Russia – 2/8.

DIPLOLEPIS Geoffroy, 1762 (*Rhodites* Hartig, 1840; *Tribalia* Walsh, 1864; *Lythorhodites* Kieffer, 1902; *Nipporhodites* Sakagami, 1949). Type species: *Cynips rosae* Linnaeus, 1758. Galls only on *Rosa* (Rosaceae). Holarctic genus; three European species, *D. rosae*, *D. mayri* and *D. nervosa*, were accidentally introduced to N America. Number of species: World – 46, Palaearctic – 14, Russia – 7.

Diplolepis eglanteriae (Hartig, 1840) [Rhodites] (*Hololexis rufipes* Foerster, 1869). Pea-sized galls on leaves of *Rosa caninae* L. (Rosaceae); galls mature by mid-summer; adults emerge next year in May. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Caucasus, Iran, Kazakhstan, India.

Diplolepis fructuum (Rübsaamen, 1895) [Rhodites]. Galls on fruits of *Rosa* spp. (Rosaceae); galls mature by mid-summer; adults emerge next year in May. Russia: **EP** (NC, CR). – Europe (EE), Armenia, Turkey, Iran, Turkmenistan, Tajikistan, Uzbekistan.

Diplolepis japonica (Walker, 1874) [Rhodites] (*Rhodites hakonensis* Ashmead, 1904). Galls on *Rosa rugosa* Thunb. ex Murray (Rosaceae). Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Kyu).

Diplolepis mayri (Schlechtendal, 1876) [Rhodites] (*Rhodites orthospinae* Beijerinck, 1883). Multilocular spherical galls in flower-cups on many species of *Rosa* spp. (Rosaceae); galls mature in autumn; adults emerge next year in May. Russia: **EP** (N, NW, C, NC, CR), **UR**, **WS**, **ES**. – Europe (WE, NE, SE, EE), Armenia, Tajikistan, Uzbekistan, Kazakhstan.

Diplolepis nervosa (Curtis, 1838) [Cynips] (*Rhodites centifoliae* Hartig, 1840; *Rh. rosarum* Giraud, 1859; *Rh. andrei* Kieffer, 1904; *Rh. kiefferi* Loisele, 1912; *Rh. dispar* Niblett, 1943). Galls on *Rosa rugosa* Thunb. (Rosaceae); galls mature in July; adults emerge next year in May–July. Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Central Asia, Kazakhstan.

Diplolepis rosae (Linnaeus, 1758) [Cynips] (*Diplolepis bedeguaris* Fourcroy, 1785; *D. bedeguaris fungosae* Lamarck, 1817). Multilocular galls on leaf buds; galls appear in early summer, mature in mid-autumn; adults emerge next year in May–June. About 20 species of *Rosa* spp. (Rosaceae) are listed as hosts. Russia: **EP** (N, NW, C, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Caucasus, Iran, Central Asia, Kazakhstan, N America (introduced), India.

Diplolepis spinosissimae (Giraud, 1859) [Rhodites]. Galls on leaves of many species of *Rosa* (Rosaceae); galls grow during late spring and summer; mature in autumn; adults emerge next year in April–June. Russia: **EP** (N, NW, C, NC, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan.

LIEBELIA Kieffer, 1903. Type species: *Liebelia cavarai* Kieffer, 1903. Number of species: World and Palaearctic – 9, Russia – 1.

Liebelia fukudae (Shinji, 1941) [Nipporhodites]. Galls on *Rosa daurica* Pall. (Rosaceae). Russia: **FE** (PR). – Japan (Hok, Hon, Kyu).

Tribe PEDIASPIDINI

PEDIASPIS Tischbein, 1852. Type species: *Pediaspis sorbi* Tischbein, 1852 (= *Cynips aceris* Gmelin, 1790). Monotypic Western Palaearctic genus.

Pediaspis aceris (Gmelin, 1790) [Cynips] (sexual generation: *Bathyaspis aceris*: Foerster, 1869; asexual generation: *Pediaspis sorbi* Tischbein, 1852). Alternating sexual and asexual generations are known, both induce galls on *Acer*

spp. (Sapindaceae): the asexual root galls mature in September; adults emerge only on the third year in April. The sexual galls develop on leaves; adults emerge same year in June. Russia: **EP** (C). – Europe (WE, SE, EE), Iran.

Tribe CYNIPINI

The oak cynipid gallwasps, Cynipini, are by far the most species-rich group of cynipid gall wasps, inducing a wide diversity of gall structures on oaks and related Fagaceae. Almost all the oak cynipid gall wasps whose life cycles have been studied in detail have cyclically parthenogenetic life cycles, involving obligate alternation between one sexual and one asexual generation. Number of taxa: World – 41 genera and 954 species, Palaearctic – 12/255, Russia – 9/54.

ANDRICUS Hartig, 1840 (*Manderstjernia* Radoszkowski, 1866; *Aphilotrix* Foerster, 1869; *Liodora* Foerster, 1869; *Trichoteras* Ashmead, 1897; *Parandricus* Kieffer, 1906; *Adleria* Rohwer et Fagan, 1917; *Euschmitzia* Dettmer, 1925; *Oncaspis* Dettmer, 1925; *Druon* Kinsey, 1937; *Femuros* Kinsey, 1937; *Feron* Kinsey, 1937; *Conobius* Kinsey, 1938). Type species: *Andricus noduli* Hartig, 1840 (= *A. quercusradicis* Fabricius, 1798). The most species rich gallwasp genus. Majority of species have alternating sexual (sex. gen.) and asexual (asex. gen.) generations. Holarctic and Oriental region. All known species induce galls on *Quercus* and related genera, *Chrysolepis*, *Castanopsis*, *Castanea* and *Lithocarpus* (Fagaceae). Number of species: World – 259, Palaearctic – 115, Russia – 29.

Andricus callidoma (Hartig, 1841) [Cynips] (sex. gen.: *Andricus cirratus* Adler, 1881; asex. gen.: *Andricus giraudi* Wachtl, 1882). Alternating asex. and sex. gen. are known. Sex. gen. galls in catkins; adults emerge in May–June. Asexual bud galls appear at the end of May and fall from the tree in July–August; adults emerge next year in spring. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, *Q. dalechampii*, *Q. hartwissiana*, etc. (Fagaceae). Russia: **EP** (NW, C), **UR**. – Europe (WE, NE, SE, EE).

Andricus curvator (Hartig, 1840) [Cynips] (sex. gen.: *Cynips axilaris* Hartig, 1840; *C. roeselii* Dahlbom, 1842; *Andricus perfoliatus* Schenck, 1862–1863; *Spathogaster dimidiatus* Schenck, 1862–1863; *Liodora sulcata* Foerster, 1869; asex. gen.: *Cynips collaris* Hartig, 1840; *Andricus fasciatus* Schenck, 1862–1863; *Cynips tegmentor* Schlechtendal, 1870). Alternating sex. and asex. gen. are known. Sex. gen. galls on shoot tips, leaf petioles in April; adults emerge in May–June. Asex. gen. bud galls develop in June; adults emerge next spring. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. (Fagaceae). Russia: **EP** (NW, C, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Asia Minor, Iran.

Andricus foecundatrix (Hartig, 1840) [Cynips] (sex. gen.: *Andricus pilosus* Adler, 1881; asex. gen.: *Andricus gemmarum* Lacaze-Duthiers, 1853; *Cynips gemmae* Schenck,

1862–1863). Alternating asex. and sex. gen. are known. Spring catkin galls develop in April–May. Sex. gen. galls in buds, fall to the ground in autumn, overwintering in litter; asex. adults emerge next year in April. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Lebanon, Israel, Iran.

Andricus gallaearnaeformis (Boyer de Fonscolombe, 1832) [Diplolepis] (sex. gen.: *Andricus sufflator* Mayr, 1882; asex. gen.: *Callirhytis vilarrubiae* Tavares, 1930). Alternating sex. and asex. gen. are known. Sex. gen. leaf galls develop in spring; the asex. gen. galls in autumn; adults emerge next year in April. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (CR). – Europe (WE, SE, EE), Turkey.

Andricus glandulae (Hartig, 1840) [Cynips] (sex. gen.: *Andricus xanthopsis* Schlechtendal, 1884). Alternating asex. and sex. gen. are known. Sex. gen. catkin galls develop in a single male flowers; asex. gen. bud galls normally on the leaf axils. Sex. gen. adults emerge in May–June; asex. gen. galls develop through the summer, mature in autumn and fall from the tree. Some of the asex. gen. adults overwinter and emerge the following April. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), N Africa.

Andricus grossulariae (Giraud, 1859) [Cynips] (sex. gen.: *Andricus peyerinhoffi* Kieffer, 1909; asex. gen.: *Cynips mayri* Wachtl, 1879; *Andricus mayri* Mayr, 1882; *A. pantei* Kieffer, 1896). Alternating asex. and sex. gen. are known. Sex. gen. catkin galls develop in May–June; adults emerge in May–June and induce bud galls which from asex. gen. adults emerge next spring. Sex. gen. develops on *Q. cerris*, *Q. castaneifolia*, etc.; asex. gen. on *Q. petraea*, *Q. robur*, *Q. pubescens*, etc. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Asia Minor, Iran.

Andricus hakonensis (Ashmead, 1904) [Callirhytis] (asex. gen.: *Andricus oblongus* Monzen, 1953; *A. attractus* Kovalev, 1965; *A. symbioticus* Kovalev, 1965). Alternating sex. and asex. gen. are known. Asex. gen. galls on bark; sex. gen. galls are irregular spherical swelling of leaf vein and petiole. The sex. gen. galls in spring; adults emerge in early summer. Asex. gen. galls in late summer to autumn; adults emerge in early spring of the following year or even one year later. Host plants: *Quercus aliena*, *Q. dentata*, *Q. mongolica*, *Q. serrata*. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Shi, Kyu).

Andricus inflator Hartig, 1840 (asex. gen.: *Cynips globuli* Hartig, 1840). Alternating asex. and sex. gen. are known. Sex. gen. shoot tip swelling-like galls develop in May – late summer; adults emerge late summer. Asex. gen. bud galls mature in September–October; adults emerge next spring. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C, NC), **UR**. – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Kazakhstan.

- Andricus kashiwaphilus** Abe, 1998. Alternating sex. and asex. gen. are known. Flower-shaped asex. gen. galls develop from axillary bud; sex. gen. galls are integral leaf galls, usually on leaf midribs; both on *Q. dentata*. Russia: **FE** (PR). – China (NE, NC), Japan (Hok, Hon, Kyu).
- Andricus kollari** (Hartig, 1843) [Cynips] (sex. gen.: *Andricus circulans* Mayr, 1870; asex. gen.: *Cynips indigena* Giraud in Houard, 1909). Alternating sex. and asex. gen. are known. Sex. gen. adults emerge from inconspicuous small bud galls in April–May; asex. gen. galls in buds. Asex. gen. galls develop on *Quercus petraea*, *Q. robur*, *Q. frainetto*, *Q. pubescens*; sex. gen. on *Q. cerris*, *Q. ithaburensis*, etc. Russia: **EP** (NC, CR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Israel, Iran.
- Andricus malpighii** (Adler, 1881) [Aphlothrix] (sex. gen.: *Andricus nudus* Adler, 1881; *Andricus rara* Dettmer, 1925). Alternating sex. and asex. gen. are known. Sex. gen. galls on catkins, asex. gen. galls develop on lateral buds in leaf axils or on the tip of summer lammas shoots; sexual adults emerge at the end of May. Asex. gen. galls develop from late August, mature by September; adults emerge in April–May, on the second or the third year. Host plants: *Quercus petraea*, *Q. robur*, *Q. pubescens*, *Q. pyrenaica*, *Q. faginea*, *Q. infectoria*, etc. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey.
- Andricus marmoratus** Kovalev, 1965. Only the sex. gen. is known to induce bud galls on *Quercus mongolica*; adults in May. Russia: **FE** (PR).
- Andricus mesostegius** Kovalev, 1965. Only the sex. gen. is known. Described on the basis of males caught on leaves of *Q. dentata*; adults in June. Russia: **FE** (PR).
- Andricus moriokae** Monzen, 1953. Alternating sex. and asex. gen. are known. Sex. gen. induces integral leaf galls; adults emerge in May; asex. gen. galls in buds. Host plants: *Quercus dentata*, *Q. serrata*. Russia: **FE** (PR). – Japan (Hok, Hon, Kyu).
- Andricus mukaigawae** (Mukaigawa, 1913) [Dryophanta] (*Andricus japonicus* Ashmead, 1904). Alternating asex. and sex. gen. are known. Asex. gen. galls in axillary buds; sex. gen. gall on leaves. Sex. gen. galls appear in early June, mature in August; adults emerge in early December to early February. Sex. gen. galls appear in early April; adults emerge in late April. Host plants: *Quercus aliena*, *Q. dentata*, *Q. griffithii*, *Q. mongolica*, *Q. serrata*. Russia: **FE** (PR). – China (NE, NC), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu), India.
- Andricus paradoxus** (Radoszkowski, 1866) [Manderstjernia] (sex. gen.: *Andricus albopunctatus* f. *barbotini* Folliot, 1964; asex. gen.: *Cynips majalis* Giraud, 1868 (non Basset, 1864); *C. albipuncta* Kaltenbach, 1867; *C. albopunctata* Schlechtendal, 1870; *Andricus lambertoni* Kieffer, 1897). Alternating asex. and sex. gen. are known. Sex. gen. catkin galls mature in April–May; asex. gen. bud galls mature in autumn; adults emerge next spring. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C), **UR**. – Europe (WE, NE, SE, EE), Kazakhstan.
- Andricus pseudoflos** (Monzen, 1954) [Cynips]. Only the asex. gen. is known to induce bud galls which appear in May; adults over-winter in galls and emerge in April or May next year. Host plant: *Quercus dentata*. Russia: **FE** (PR). – China (NE), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu).
- Andricus quadrilineatus** Hartig, 1840 (sex. gen.: *Andricus kiefferi* Pigeot, 1900; asex. gen.: *Andricus ambiguus* Schenck, 1862–1863; *A. glabriusculus* Schenck, 1862–1863; *A. verrucosus* Schenck, 1862–1863; *A. marginalis* Schlechtendal, 1870; *Cynips 4-lineata*: Thomson, 1877). Alternating sex. and asex. gen. are known. Sex. gen. galls on catkins in spring; asex. galls on leaves in autumn. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*. Russia: **EP** (NW, C), **UR**. – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan.
- Andricus quercuscorticis** (Linnaeus, 1761) [Cynips] (sex. gen.: *Neuroterus brevicornis* Hartig, 1841; *Andricus gemmatus* Adler, 1881; asex. gen.: *Aphlothrix corticis* Foerster, 1869; *A. krajnovici* Tavares, 1900). Alternating sex. and asex. gen. are known. Sex. gen. galls in buds; adults emerge in late May. Asex. adults emerge from bark galls next year in spring. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE).
- Andricus quercusradicis** (Fabricius, 1798) [Cynips] (sex. gen.: *Andricus noduli* Hartig, 1840; *A. trilineatus* Hartig, 1840; *Neuroterus parasiticus* Hartig, 1841; *Aulax rugiscuta* Thomson, 1877). Alternating asex. and sex. gen. are known. Sex. gen. galls on the bark of shoots, leaf petioles or midribs; adults emerge in August–September. Asex. gen. galls on roots, mature in September of the second year. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Israel, Iran.
- Andricus quercusramuli** (Linnaeus, 1761) [Cynips] (sex. gen.: *Teras amentorum* Hartig, 1843; asex. gen.: *Cynips autumnalis* Hartig, 1840; *Andricus autumnalis*: Mayr, 1882). Alternating asex. and sex. gen. are known. Sex. gen. galls on catkins and male buds, mature in May; adults emerge in June. Asex. gen. galls on buds, mature in September–October; adults emerge next year in spring. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey.
- Andricus quercustozae** (Bosc, 1792) [Cynips] (*Cynips insana* Westwood, 1837; *C. argentea* Hartig, 1843; *C. rosenhaueri* Hartig, 1856; *C. kiefferi* Cabrera, 1897; *Andricus quercustozae*: Benson, 1953). Only asex. gen. is known which induce large rounded unilocular galls on buds; adults emerge next year in spring. Host plants: *Quercus robur*, *Q. pubescens*, etc. Russia: **EP** (NC, CR). – Europe (WE, SE, EE), N Africa, Caucasus, Turkey, Lebanon, Israel, Iran.

- Andricus rhyzomae** (Hartig, 1843) [Cynips] (*Andricus ionescui* Kierych, 1965). Only asex. gen. is known which induces unilocular galls on bark of twigs; galls mature in autumn; adults emerge in March–April next year. Host plants: *Quercus petraea*, *Q. robur*. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Andricus seminationis** (Giraud, 1859) [Cynips]. Only asex. gen. is known which induces galls on catkins, rarely on leaves; galls mature in May–June; adults emerge next year in April. Host plants: *Quercus petraea*, *Q. robur*. Russia: **EP** (NW, C), **UR**. – Europe (WE, SE, EE), Kazakhstan.
- Andricus sieboldi** (Hartig, 1843) [Cynips] (sex. gen.: *Andricus sieboldi* f. *poissoni* Folliot, 1964; asex. gen.: *Cynips quercus corticis* Bechstein et Scharfenberg, 1805, nom. praeocc., nec Linnaeus, 1761; *C. corticalis* Hartig, 1840; *C. sieboldi* Hartig, 1843; *C. ramicola* Schlechtendal, 1870; *Andricus sieboldi occidentalis* Folliot, 1964). Alternating sex. and asex. gen. are known. Sex. gen. galls in buds on young branches; asex. gen. galls on bark, often close to the ground, on branches 2–5 years old. Sexual adults emerge at the end of May or during June; asexual galls take two years to develop; asexual adults emerge in April and May. Host plants: *Quercus robur*, *Q. petraea*, *Q. pubescens*, *Q. macranthera*. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.
- Andricus solitarius** (Fonscolombe, 1832) [Diplolepis] (sex. gen.: *Andricus occultus* Tschek, 1871; *Oncaspis filigrinata* Dettmer, 1925; asex. gen.: *Cynips ferruginea* Hartig, 1840; *Andricus vilarrubiae* Tavares, 1930). Alternating asex. and sex. gen. are known. Sex. gen. galls on catkins, mature in May; adults emerge soon afterwards. Asex. gen. galls on buds, which become visible in June, mature at the end of summer; adults emerge in October. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey.
- Andricus superfetationis** (Giraud, 1859) [Cynips]. Only the asex. gen. is known which induces small spherical unilocular galls on acorn cups; galls mature in July; adults emerge in spring of third year. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*. Rare. Russia: **EP** (CR). – Europe (WE, SE, EE).
- Andricus targionii** Kieffer, 1903 (*Adleria sakagamii* Kovalev, 1965). Only asex. gen. is known. Galls are on midribs, leaf margins, petioles and elongating shoots, usually clustered; galls mature in late summer; adults usually emerge from late October to late November. Host plants: *Quercus aliena*, *Q. mongolica*, *Q. wutaishanica*. Russia: **FE** (AM, PR). – China (NE), Korean Peninsula, Japan (Hok, Hon, Kyu).
- Andricus testaceipes** Hartig, 1840 (*Andricus testaceipes* var. *nodifex* Kieffer, 1897–1901). Only sex. gen. is known which induces leaf galls on leaf midribs; adults emerge in August. Host plants: *Quercus petraea*, *Q. robur*. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), Azerbaijan.
- BELIZINELLA** Kovalev, 1965. Type species: *Belizinella gibbera* Kovalev, 1965. Two species are described from the Eastern Palaearctic (Russia). Number of species: World, Palaearctic and Russia – 2.
- Belizinella gibbera** Kovalev, 1965. Only asex. wingless females are known; galls on leaves; adults emerge in November. Host plant: *Quercus dentata*. Russia: **FE** (AM, PR).
- Belizinella vicina** Kovalev, 1965. Only asex. wingless females are known; galls on leaves, mature in August; adults emerge next year in February. Galls are similar to those of *B. gibbera*, but smaller. Host plant: *Quercus mongolica*. Russia: **FE** (AM, PR).
- BIORHIZA** Westwood, 1840 (*Apophyllus* Hartig, 1840; *Teras* Hartig, 1840; *Heterobius* Guérin-Ménéville, 1865; *Dryoteras* Foerster, 1869; *Sphaeroterias* Ashmead, 1897). Type species: *Cynips aptera* Fabricius, 1793. Galls on *Quercus* spp. (Fagaceae). Holarctic genus. Number of species: World – 6, Palaearctic and Russia – 2.
- Biorhiza nawai** (Ashmead, 1904) [Dryophanta] (*Biorhiza weldi* Yasumatsu et Matsuda, 1955). Only sex. gen. is known; multilocular bud galls on the top of twigs; mature in summer; adults emerge in June–July. Host plants: *Quercus mongolica*, *Q. serrata*. Russia: **FE** (PR, KU). – China (NE), Korean Peninsula, Japan.
- Biorhiza pallida** (Olivier, 1791) [Diplolepis] (sex. gen.: *Diplolepis gallae alveariformis* D'Anthoine, 1794; *D. gallae cerebriformis* D'Anthoine, 1794; *Cynips quercus terminalis* Fabricius, 1798; *Biorhiza terminalis* var. *mirbeckii* Marshal, 1897; asex. gen.: *Cynips aptera* Bosc, 1791). Alternating sex. and asex. gen. are known. Asex. gen. galls mature in winter; adults emerge in winter – early spring and lay eggs on shoots. Sex. gen. galls at the time of bud-burst; sex. adults emerge in late May. Host plants: *Quercus robur*, *Q. petraea*, *Q. pubescens*, etc. Russia: **EP** (NW, C, E, NC, CR), **UR**. – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Iran.
- CALLIRHYTIS** Foerster, 1869 (*Eusymphagus* Dettmer, 1930). Type species: *Callirhytis hartigi* Foerster, 1869. All species induce galls on *Quercus* (Fagaceae). Holarctic genus. Number of species: World – 114, Palaearctic – 7, Russia – 2.
- Callirhytis glandium** (Giraud, 1859) [Andricus] (sex. gen.: *Callirhytis glandium* f. *aestivalis* Nieves-Aldrey, 1992; asex. gen.: *Andricus girardi* Tavares, 1902). Alternating sex. and asex. gen. are known. Sex. gen. galls develop in summer; adults emerge in July–August. Asex. gen. galls in acorns; adults emerge after acorns fall, sometimes after up to six years of diapause. Host plant: sex. gen. galls on *Quercus infectoria*, *Q. pubescens*, *Q. robur*; asex. galls on *Q. brantii*, *Q. cerris*, etc. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.

Callirhytis reticulatus Belizin et Maisuradze, 1961. Only an asex. gen. is known. The multilocular or aggregated unilocular galls develop in acorns; adults emerge in July. Host plants: *Quercus castaneifolia*, *Q. brantii*. Maisuradze (1961) suggested that *Callirhytis comantis* Belizin et Maisuradze, 1961, known from Azerbaijan only, may represent the sex. gen. of *C. reticulatus*, although this must be confirmed. Russia: **EP** (NC). – Georgia, Azerbaijan, Iran.

CYNIPS Linnaeus, 1758 (*Dryophanta* Foerster, 1869; *Antron* Kinsey, 1930; *Besbicus* Kinsey, 1930). Type species: *Cynips quercusfolii* Linnaeus, 1758. Holarctic genus. Number of species: World – 60, Palaearctic – 10, Russia – 6.

Cynips disticha Hartig, 1840. Alternating sex. and asex. gen. are known. Small conical sex. gen. galls develop on leaf margins; asex. gen. galls are on the underside of leaves, usually gregarious. Sex. gen. galls mature in May; asex. gen. galls appear in June; adults emerge from September to November. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), Caucasus.

Cynips divisa Hartig, 1840 (sex. gen.: *Spathogaster verrucosus* Schlechtendal, 1870). Alternating sex. and asex. gen. are known. Sex. gen. galls on leaf margins, occasionally on catkins; asex. gen. galls on leaves; often solitary, although up to 20 may occur on one leaf. Sex. gen. galls develop in the spring; adults emerge in May. Asex. gen. galls appear from June, mature in September; asex. adults emerge in October–November, or February–March next year. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Caucasus, Syria, Iran.

Cynips longiventris Hartig, 1840 (sex. gen.: *Spathogaster similis* Adler, 1881; *Cynips longiventris* f. *substituta* Kinsey, 1929). Alternating sex. and asex. gen. are known. Sex. gen. unilocular galls on bark, on dormant buds, and less often on young shoots. Asex. gen. unilocular globular leaf galls are usually solitary, on a side vein on the underside of the leaves. Sex. gen. galls mature in July, asex. gen. galls mature at the end of the summer, and fall with the leaves; adults emerge in early spring. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C), **UR**, **WS**. – Europe (WE, NE, SE, EE), Georgia, Kazakhstan.

Cynips quercus (Fourcroy, 1785) [*Diplolepis*] (asex. gen.: *Dryophanta pubescentis* Mayr, 1881; *D. ilicis* Kieffer, 1896). Asex. gen. galls near-spherical, on the underside of leaves; galls mature in September; adults emerge next spring, in April or May. Alternating sex. and asex. gen. are strongly suspected, however, not yet found. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NC, CR). – Europe (WE, SE, EE), Caucasus, Asia Minor, Iran.

Cynips quercusfolii Linnaeus, 1758 (sex. gen.: *Spathogaster flosculi* Giraud, 1868; *S. giraudi* Tschek, 1869;

S. taschenbergi Schlechtendal, 1870; asex. gen.: *Cynips flori-quercus* Gleditsch, 1774; *Diplolepis quercusfolii*: Olivier, 1791; *D. scutellaris* Olivier, 1791; *D. gallaeunedoniformis* D'Anthoine, 1794; *Cynips gallaecerasiformis* D'Anthoine, 1794; *C. folii* Hartig, 1840; *C. scutellaris* Schenck, 1863). Alternating sex. and asex. gen. are known. Sex. gen. induces small, egg-shaped galls on small adventitious buds, rarely on dormant buds on the previous year's shoots. Asex. gen. globular leaf galls develop on veins on the underside of leaves, solitary or occurring in groups of 2–3. Sex. gen. galls mature in June; asex. galls appear first in early July and reach full size in August. A small proportion of the asexual adults emerge in October, with a larger proportion emerging in March and April of the following year. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (N, NW, C, E, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Caucasus, Asia Minor, Iran.

Cynips staminobia Kovalev, 1965. Only the sex. gen. is known which induce rounded unilocular catkin galls; adults emerge at the beginning of June. Host plant: *Quercus mongolica*. Russia: **FE** (PR).

DRYOCOSMUS Giraud, 1859 (*Entropa* Foerster, 1869). Type species: *Dryocosmus cerriphilus* Giraud, 1859. Many species are known to have alternating asex. and sex. gen. All known species in the Western Palaearctic and Nearctic associate with *Quercus* (Fagaceae), while in the Eastern Palaearctic some species associate also with *Castanopsis* and *Castanea* (Fagaceae). Number of species: World – 46, Palaearctic – 29, Russia – 1.

Dryocosmus kuriphilus Yasumatsu, 1951. Only the asex. gen. is known which induces subglobular, succulent, and fleshy integral multilocular galls on young buds and leaf petioles or leaf midribs on *Castanea crenata*, *C. henryi*, *C. mollissima*, *C. seguinii*, *C. dentata*, *C. sativa* (Fagaceae). Asexual adults emerge in early summer; first-instar larvae overwinter in buds; galls start to develop in spring. Native to China, accidentally introduced to Japan, Korean Peninsula, USA, Nepal, Europe (common everywhere in *Castanea* distribution area), Turkey. Russia: **EP** (NC), first time detected in 2016 (Gninenko, Lyanguzov, 2017).

NEUROTERUS Hartig, 1840 (*Spathogaster* Hartig, 1840; *Ameristus* Foerster, 1869; *Dolichostrophus* Ashmead, 1887; *Diplobius* Kinsey, 1923; *Dolichostrophus* Kinsey, 1923; *Neospathogaster* Kinsey, 1923; *Neuroterus* Kinsey, 1923; *Pseudoneuroterus* Kinsey, 1923; *Spathogaster* Kinsey, 1923). Type species: *Neuroterus politus* Hartig, 1840. Holarctic genus. Many species are known to have alternating asex. and sex. gen. Number of species: World – 73, Palaearctic – 12, Russia – 6.

Neuroterus albipes (Schenck, 1863) [*Spathogaster*] (sex. gen.: *Neuroterus codinae* Tavares, 1928; asex. gen.: *Neuroterus*

laeviusculus Schenck, 1863; *N. pezizaeformis* Schlechtendal, 1870). Alternating sex. and asex. gen. are known. Sex. gen. unilocular egg-shaped galls are on leaf margins; asex. gen. gregarious spangle galls are located on the underside of leaves. Sex. gen. galls mature in May; adults emerge in June. Asex. gen. galls mature and fall from August; adults emerge in March–April. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C, CR), **UR**. – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Kazakhstan.

Neuroterus anthracinus (Curtis, 1838) [Cynips] (sex. gen.: *Neuroterus furunculus* Beyerinck, 1882; asex. gen.: *Cynips ostrea* Hartig, 1840). Alternating sex. and asex. gen. are known. Sex. gen. galls are on the bark of old twigs and branches; adults emerge in May–June. Asex. gen. galls on leaves; mature in September; adults emerge in October. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Caucasus, Israel, Iran.

Neuroterus numismalis (Geoffroy in Fourcroy, 1785) [Cynips] (sex. gen.: *Cynips vesicatrix* Schlechtendal, 1870; asex. gen.: *Neuroterus defectus* Hartig, 1840; *N. reaumurii* Hartig, 1840; *Cynips quercus tiaræ* Curtis, 1843; *Neuroterus nigricornis* Schenck, 1863). Alternating sex. and asex. gen. are known. Sex. gen. galls on leaves; asex. gen. unilocular spangle galls are on the leaf lamina, usually gregarious. Sex. gen. galls mature in May; adults emerge in June. Asex. gen. galls mature in autumn; adults emerge next year in April. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (C, NC, CR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran.

Neuroterus politus Hartig, 1840 (sex. gen.: *Spathogaster petioliventris* Hartig, 1840; *S. aprilinus* Giraud, 1859; asex. gen.: *Neuroterus bipunctatus* Hartig, 1841; *N. nitens* Hartig, 1841; *N. rubeculus* Hartig, 1841; *N. schlechtendali* Mayr, 1870). Alternating sex. and asex. gen. are known. Sex. gen. galls on buds; asex. gen. galls on catkins. Sex. gen. galls develop within few days in spring; adults emerge in May. Asex. gen. galls mature in summer; adults emerge in the summer of the following year. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Israel.

Neuroterus quercusbaccarum (Linnaeus, 1758) [Cynips] (sex. gen.: *Cynips quercus pedunculi* Linnaeus, 1758; *C. gallae concatenatae* D'Anthoine, 1794; *Diplolepis gallae pisiformis* D'Anthoine, 1794; *Cynips interruptrix* Hartig, 1840; *Dryophanta pseudodisticha* Küstenmacher, 1894; *Neuroterus quercusbaccarum*: Dalla Torre et Kieffer, 1910; asex. gen.: *Diplolepis lenticularis* Olivier, 1791; *Cynips longipennis* Fabricius, 1793; *Neuroterus malpighii* Hartig, 1840; *N. attenuatus* Schenck, 1862–1863; *N. striatus* Schenck, 1862–1863). Alternating sex. and asex. gen. are known. Sex. gen. unilocular spherical and berry-like galls are on catkins, rarely on leaf

lamina. Asex. gen. spangle-like galls are on the underside of leaves, rarely on the upper side. Adults of the sex. gen. emerge in June; adults of asex. gen. emerge the following spring. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C, NC, CR), **UR**. – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Syria, Lebanon, Iran, Kazakhstan.

Neuroterus tricolor (Hartig, 1841) [*Spathogaster*] (asex. gen.: *Neuroterus fumipennis* Hartig, 1841; *Spathogaster varius* Schenck, 1863; *Neuroterus tricolor ulisipponensis* Tavares, 1928). Alternating sex. and asex. gen. are known. Sex. gen. galls are in the leaf lamina, in early summer. Asex. gen. spangle-like leaf galls usually are on the lower surface. Sex. gen. galls mature in June; adults emerge in July. Asex. gen. galls fall from the leaves at the end of the summer; adults emerge next year in March–May. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C, NC), **UR**. – Europe (WE, NE, SE, EE), Azerbaijan, Turkey.

TRIGONASPIS Hartig, 1840 (*Xanthoteras* Ashmead, 1897; *Neoneuroterus* Kovalev, 1965). Type species: *Trigonaspis crustalis* Hartig, 1840 (= *Cynips megaptera* Panzer, 1801). Alternating asex. and sex. gen. are known. Number of species: World – 20, Palaearctic – 8, Russia – 5.

Trigonaspis megaptera (Panzer, 1801) [Cynips] (sex. gen.: *Trigonaspis crustalis* Hartig, 1840; asex. gen.: *Cynips renum* Hartig, 1840). Alternating sex. and asex. gen. are known. Sex. gen. spherical galls develop on accessory buds, almost always in groups, often found on bark close to the ground. Asex. gen. galls are on the underside of leaves in vein axils; kidney- or bean-shaped. Sex. gen. galls mature in June; adults emerge immediately. Asex. galls fall with the leaves; adults emerge in May and June, or after a year's diapause. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (NW, C, CR). – Europe (WE, NE, SE, EE), Georgia, Iran.

Trigonaspis nephroideus (Kovalev, 1965) [Neoneuroterus]. Only sex. gen. is known which induces bud galls; adults emerge in late May. Host plant: *Quercus dentata*. Russia: **FE** (PR).

Trigonaspis spumeus (Kovalev, 1965) [Neoneuroterus]. Only the sex. gen. is known which induces spherical multilocular bud galls on young sprouts; adults emerge in May. Host plant: *Quercus mongolica*. Russia: **FE** (PR).

Trigonaspis synaspis (Hartig, 1841) [Apophyllus] (sex. gen.: *Trigonaspis megapteropsis* Kieffer, 1897–1901). Alternating sex. and asex. gen. are known. Sex. gen. spherical or bluntly pointed galls develop on accessory buds, usually on older shoots and branches; only differs from the sexual galls of *T. megaptera* in that the galls are side by side in groups, and that the adults emerge slightly earlier, in May. Asex. gen. unilocular leaf galls located mainly on the underside of leaves, occasionally on the upper surface. Adults of the sex. gen. emerge in May, often in their

second year. Asex. gen. galls mature in September; adults emerge in July. Host plants: *Quercus petraea*, *Q. pubescens*, *Q. robur*, etc. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Azerbaijan, Iran.

Trigonaspis vernicosus (Kovalev, 1965) [Neoneuroterus]. Only adult females are known which were caught ovipositing into buds of *Quercus dentata* in October. Gall location and structure are unknown. Russia: **FE** (PR).

USSURASPIS Kovalev, 1965. Type species: *Ussuraspis nervosa* Kovalev, 1965. The genus erroneously was synonymized to *Trigonaspis* (Melika, Abrahamson, 2002). Monotypic Eastern Palaearctic genus.

Ussuraspis nervosa Kovalev, 1965. Only the sex. gen. is known which induce unilocular small shiny elongated leaf galls which mature in August; adults emerge in December. Host plant: *Quercus mongolica*. Russia: **FE** (AM, PR).

Tribe CEROPTRESINI

Associated with cynipid oak galls on *Quercus* spp. (Fagaceae). Includes a single genus *Ceroptres* Hartig, 1840 with 24 Holarctic species.

CEROPTRES Hartig, 1840. Type species: *Ceroptres clavicornis* Hartig, 1840. Holarctic genus. Inquilines in oak gallwasps (Cynipini). Inquilines in oak gallwasps (Cynipidae: Cynipini) and gall-midges (Cecidomyiidae). Number of species: World – 24, Palaearctic – 6, Russia – 3.

Ceroptres clavicornis Hartig, 1840 (*Ceroptres socialis* Hartig, 1840; *C. arator* Hartig, 1841; *C. melanomerus* Hartig, 1841). Reared as inquiline from about 30 oak gallwasp of *Andricus*, *Biorhiza*, *Callirhytis*, *Cynips*, *Neuroterus* species (Cynipidae: Cynipini) and have also been recorded from galls of cecidomyiid gall-midges (Cecidomyiidae); usually associates with *Quercus robur*, *Q. pubescens*, *Q. petraea*. Russia: **EP** (NW, C, NC, CR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Israel.

Ceroptres kovalevi Belizin, 1973. Inquilines in undescribed galls on *Quercus dentata*. Russia: **FE** (PR).

Ceroptres masudai Abe, 1997. Inquiline in asexual galls of *Andricus mukaigawae* (Mukaigawa) and *A. pseudoflos* (Monzen) (Cynipidae: Cynipini) on *Quercus dentata* and *Q. mongolica*. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Kyu).

Tribe SYNERGINI

With a few exceptions, all Synergini are inquilines in Cynipini galls. Includes 7 genera: *Agastoroxenia* Nieves-Aldrey et Medianero, 2010; *Lithosaphonecrus* Tang, Melika et Bozsó, 2014; *Rhoophilus* Mayr, 1881; *Saphonecrus* Torre et Kieffer, 1910; *Synergus* Hartig, 1840; *Synophrus* Hartig, 1843 and *Ufo* Melika et Pujade, 2005, of which *Saphonecrus* and *Synergus* species are known from Russia. Members of tribe

are distributed mainly in the temperate zone of Holarctic region, but *Agastoroxenia* and some *Synergus* species are known from the Neotropics and single genus, *Rhoophilus*, is known from S Africa only. Number of taxa: World – 7 genera and 155 species, Palaearctic – 5/89, Russia – 2/19.

SAPHONECRUS Dalla Torre et Kieffer, 1910. Type species: *Synergus connatus* Hartig, 1840. Inquilines in Cynipini oak galls on *Quercus* and *Lithocarpus* spp. (Fagaceae). The revision of the genus with all known species was made by Schwéger et al. (2015b). Number of species: World – 36, Palaearctic – 31, Russia – 4.

Saphonecrus connatus (Hartig, 1840) [Synergus] (*Saphonecrus connatus luteipes* Tavares, 1920). Inquiline in galls of 11 *Andricus* species, *Callirhytis glandium* Gir., *Cynips quercusfolii* L., *Neuroterus anthracinus* Curt., *N. quercusbaccarum* L. (Cynipidae: Cynipini). Russia: **EP** (C, NC), **UR**. – Europe (WE, NE, SE, EE), Kazakhstan.

Saphonecrus diversus Belizin, 1968. Hosts unknown. Russia: **FE** (PR).

Saphonecrus leleyi Melika et Schwéger, 2015. Inquilines in undescribed cynipid bud galls on *Quercus mongolica*; adults emerge in late September. Russia: **FE** (PR).

Saphonecrus symbioticus Melika et Schwéger, 2015. Inquilines exclusively in the asexual galls of *Andricus hakonensis* (Ashmead) (Cynipidae: Cynipini) on *Quercus dentata* and *Q. mongolica*; adults emerge in late September–October. Russia: **FE** (PR). – Japan (Hok).

SYNERGUS Hartig, 1840 (*Sapholytus* Foerster, 1869). Type species: *Synergus vulgaris* Hartig, 1840 (= *Diplolepis gallaeopomiformis* Boyer de Fonscolombe, 1832). The most species rich genus of cynipid inquilines with more than 100 species worldwide. Inquilines in Cynipini oak galls on *Quercus*, *Castanopsis* and *Lithocarpus* spp. (Fagaceae). Number of species: World – 101, Palaearctic – 45, Russia – 15.

Synergus belizinellus Schwéger et Melika, 2015. Inquilines in asex. leaf galls of *Belizinella vicina* Kovalev (Cynipidae: Cynipini) on *Quercus mongolica* and in undescribed leaf galls on *Q. dentata* and *Q. crispula*; adults emerge in October–November. Russia: **FE** (PR). – China (NE, NC), Japan (Hok).

Synergus chinensis Melika, Ács et Bechtold, 2014. Reared from asexual galls of *Andricus hakonensis* Ashm. Russia: **FE** (PR). – China (NE, NC), Korean Peninsula.

Synergus crassicornis (Curtis, 1838) [Cynips] (*Synergus evanescens* Mayr, 1872; *S. evanescens fidelis* Tavares, 1920; *S. carinulatus* Dettmer, 1924). Inquilines in oak galls of many species of *Andricus*, *Callirhytis* and *Plagiotrochus* (Cynipidae: Cynipini). Russia: **EP** (C), **UR**. – Europe (WE, SE, EE), N Africa, Kazakhstan.

Synergus gallaeopomiformis (Boyer de Fonscolombe, 1832) [Diplolepis] (*Synergus basalis* Hartig, 1840; *S. facialis* Hartig, 1840; *S. vulgaris* Hartig, 1840; *S. bispinus* Hartig,

- 1841; *S. palliceps* Hartig, 1841; *S. australis* Hartig, 1843; *Aulax albinervis* Snellen van Vollenhoven, 1869; *Synergus pomiformis* Kieffer, 1898; *S. longiventris* Giraud in Houard, 1911; *S. maculatus* Tavares, 1920; *S. albifaciatus* Dettmer, 1924; *S. maculosus* Tavares, 1925). One of the most common and abundant *Synergus* species in Western Palaearctic. Inquiline in many species of oak gallwasps, particularly *Andricus*, *Cynips*, *Neuroterus* and others (Cynipidae: Cynipinae). Russia: **EP** (NW, C, NC, CR), **UR**. – Europe (WE, NE, SE, EE), N Africa, Kazakhstan.
- Synergus gifuensis** Ashmead, 1904 (*Synergus atamiensis* Ashmead, 1904). Inquiline in galls of *Andricus mukai-gawae* Mukaigawa (Cynipidae: Cynipini). Russia: **FE** (PR). – Japan (Hok).
- Synergus incrassatus** Hartig, 1840 (*Synergus bipunctatus* Hartig, 1841; *S. crassicornis* Hartig, 1843). Inquiline in many oak gallwasp species of *Andricus*, *Cynips*, *Neuroterus* and others (Cynipidae: Cynipini). Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), Azerbaijan.
- Synergus japonicus** Walker, 1874. Inquilines in galls of *Andricus kashiwaphilus* Abe (Cynipidae: Cynipini). Russia: **FE** (PR). – China (CC), Korean Peninsula, Japan (Hok, Hon, Kyu).
- Synergus khazani** Melika et Schwéger, 2015. Inquilines in the asex. galls of *Andricus kashiwaphilus* Abe and *A. mukaigawae* Mukaigawa (Cynipidae: Cynipini) on *Quercus mongolica* and *Q. dentata*; adults emerge in October–November. Russia: **FE** (PR). – China (CC), Japan (Hok).
- Synergus pallicornis** Hartig, 1841 (*Synergus pallidicornis* Dalla Torre, 1893). Inquiline in many oak gallwasp species of *Andricus*, *Cynips*, *Neuroterus* and others (Cynipidae: Cynipini). Russia: **EP** (NW, C), **UR**. – Europe (WE, NE, SE, EE), Kazakhstan.
- Synergus pallipes** Hartig, 1840 (*Synergus flavicornis* Hartig, 1840; *S. nervosus* Hartig, 1840; *S. nigripes* Hartig, 1840; *S. albipes* Hartig, 1841; *S. erythrocerus* Hartig, 1841; *S. variolosus* Hartig, 1841; *S. varius* Hartig, 1841; *S. xanthocerus* Hartig, 1841; *S. tristis* Mayr, 1873; *S. tscheki* Mayr, 1873; *S. pallidipes* Dalla Torre, 1893; *S. hartigi* Giraud in Houard, 1911; *S. fulvipes* Dettmer, 1924; *S. mutabilis* Dettmer, 1924). Inquiline in galls of many species of *Andricus*, *Cynips*, *Neuroterus*, *Trigonaspis* and others (Cynipidae: Cynipini). Common and widespread throughout Western Palaearctic region. Russia: **EP** (NW, C, NC), **UR**. – Europe (WE, NE, SE, EE), Georgia, Israel, Kazakhstan.
- Synergus radiatus** Mayr, 1872 (*Synergus radiatus testaceipes* Tavares, 1901; *S. radiatus radiatus* Dalla Torre et Kieffer, 1910; *S. tscheki* f. *radiatus* Ross, 1951). Inquiline in galls of many species of *Andricus*, *Cynips*, *Neuroterus* and *Trigonaspis* (Cynipidae: Cynipini). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa.
- Synergus ruficornis** Hartig, 1840. Inquiline in oak galls of *Andricus* and *Neuroterus* species (Cynipidae: Cynipini). Russia: **EP** (NW, C, NC), **UR**. – Europe (WE, SE, EE), Kazakhstan.
- Synergus symbioticus** Schwéger et Melika, 2015. Inquiline in the asex. galls of *Andricus hakonensis* Ashmead and *A. kashiwaphilus* Abe (Cynipidae: Cynipini) on *Quercus dentata* and *Q. mongolica*; adults emerge in October. Russia: **FE** (PR). – Japan (Hok).
- Synergus thaumacerus** (Dalman, 1823) [Cynips] (*Synergus klugii* Hartig, 1840; *S. luteus* Hartig, 1840; *S. carinatus* Hartig, 1841; *Xystus testaceus* Hartig, 1841; *Synergus thumatorcerus* Dalla Torre, 1893; *S. inflatus* Giraud in Houard, 1911; *S. vesiculosus* Giraud in Houard, 1911; *S. inflatus* Dettmer, 1924). Inquiline in oak galls of *Andricus*, *Cynips*, *Neuroterus* and other species (Cynipidae: Cynipini). Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), Iran.
- Synergus variabilis** Mayr, 1872 (*Synergus cerridis* Giraud in Houard, 1911; *S. conformis* Giraud in Houard, 1911; *S. cerriculus* Vassileva-Samnalieva, 1986). Inquiline in galls of many species of *Andricus*, *Cynips*, *Neuroterus* and *Trigonaspis* (Cynipidae: Cynipini) and also in some galls of Cecidomyiidae (Diptera). Russia: **EP** (C, NC). – Europe (WE, SE, EE), Israel, Iran.

SUPERFAMILY CHALCIDOIDEA

34. FAMILY CHALCIDIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Chalcids are parasitic wasps with a robust body and the length of 2.5–9.0 mm and are characterised by the femur of the hind leg swollen and with one or more teeth on its inner margin, tibia markedly curved, prepectus narrow and not clearly visible and tegula oval and short.

Number of taxa: World – 87 genera and 1464 species, Palaearctic – 31/about 270, Russia – 13/36.

References. Nikol'skaya, 1934a, 1952, 1960, 1978a; Romanova, 1949; Kolomiets, 1958; Yafaeva, 1958; Bodrenkov, 1964; Kondakov, 1964; Znamensky, 1968; Barannik, 1970; Herting, 1975; Moiseeva et al., 1975; Storozheva, 1995a; Kostyukov et al., 2004; Noyes, 2019.

Subfamily CHALCIDINAE

BRACHYMERIA Westwood, 1829 (*Thaumatelia* Kirby, 1883; *Oncochalcis* Cameron, 1904; *Holochalcis* Kieffer, 1905; *Tumidicoxa* Girault, 1911; *Thaumateliana* Girault, 1912; *Brachepitelia* Girault, 1913; *Tumidicoxoides* Girault, 1913; *Pseudepitelia* Girault, 1913; *Mirochalcis* Girault, 1915; *Meyeriella* Krausse, 1917; *Australochalcis* Girault, 1939). Type species: *Vespa minuta* Linnaeus, 1767. Cosmopolitan. Number of species: World – 312, Palaearctic – 53, Russia – 13.

Brachymeria excarinata Gahan, 1925 (*Brachymeria apantelesi* Risbec, 1956). Primary parasitoid of coleopterans from the family Chrysomelidae and lepidopterans from the families Arctiidae, Gelechiidae, Hesperidae, Noctuidae, Oecophoridae, Pyralidae, Tortricidae and Yponomeutidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **FE** (PR). – N Africa, Iran, China (SE), Japan, India, SE Asia, Afrotropics, Australasia.

Brachymeria femorata (Panzer, 1801) [Chalcis] (*Chalcis ornatipes* Cameron, 1906). Primary parasitoid of coleopterans from the family Curculionidae and lepidopterans from the families Arctiidae, Lasiocampidae, Noctuidae, Nymphalidae, Pieridae and Yponomeutidae. Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iraq, Israel, Iran, Pakistan, Kazakhstan, China, Mongolia, India, SE Asia.

Brachymeria hattoriae Habu, 1961. Russia: **FE** (AM, PR). – Japan.

Brachymeria minuta (Linnaeus, 1767) [Vespa] (*Vespa femoralis* Geoffroy, 1785; *Chalcis pusilla* Fabricius, 1787; *Evania saltatrix* Cuvier, 1833; *Chalcis scrobiculata* Foerster, 1859; *Ch. tricolor* Foerster, 1859; *Ch. fumata* Thomson, 1876; *Ch. paraplesia* Crawford, 1910; *Ch. jezoensis* Matsumura, 1912; *Brachymeria picea* Nikolskaya, 1952; *B. putturensis* Joseph, Narendran et Joy, 1971). Primary parasitoid of

dipterans from the families Calliphoridae and Sarcophagidae, hymenopterans from the families Cimbicidae and Diapriidae and lepidopterans from the families Arctiidae, Gelechiidae, Hesperidae, Lasiocampidae, Lymantriidae, Pieridae, Tortricidae and Yponomeutidae; secondary parasitoid of dipterans from the families Sarcophagidae and Tachinidae. Russia: **EP** (C, NC), **UR**, **WS** (AL), **ES** (TU, KR), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Syria, Israel, Iran, Uzbekistan, Kazakhstan, Japan, India, SE Asia, Australasia.

Brachymeria inermis (Fonscolombe, 1840) [Chalcis] (*Chalcis punctulata* Foerster, 1859). Primary parasitoid of coleopterans from the family Chrysomelidae and lepidopterans from the families Coleophoridae, Geometridae, Nymphalidae, Tortricidae and secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (C, NC). – Europe (WE, SE, EE), Turkey, Syria, Turkmenistan, Japan, India.

Brachymeria obtusata (Foerster, 1859) [Chalcis] (*Chalcis vicina* Walker, 1834; *Ch. walkeri* Dalla Torre, 1898; *Brachymeria similis* Nikolskaya, 1952). Primary parasitoid of dipterans from the families Calliphoridae and Syrphidae and lepidopterans from the family Lymantriidae; secondary parasitoid of dipterans from the family Sarcophagidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iraq, Israel, Iran, Turkmenistan, Japan.

Brachymeria parvula (Walker, 1834) [Chalcis] (*Chalcis femorata* Dalman, 1820; *Perilampus alexinus* Walker, 1846; *Chalcis coloradensis* Cresson, 1872; *Ch. dalmanni* Thomson, 1876; *Ch. tachinae* Howard, 1885). Primary parasitoid of dipterans from the families Anthomyiidae, Calliphoridae and Sarcophagidae and orthopterans from the family Acrididae; secondary parasitoid of dipterans from the families Sarcophagidae and Tachinidae. Russia: **EP** (NW), **UR**, **WS** (KM), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Iran, Turkmenistan, Kazakhstan, N America, SE Asia.

Brachymeria podagrica (Fabricius, 1787) [Chalcis] (*Chalcis femorata* Nees, 1834; *Ch. fonscolombei* Dufour, 1841; *Ch. alphius* Walker, 1846; *Ch. xerxena* Walker, 1846; *Ch. restituta* Walker, 1862; *Brachymeria pulchripes* Holmgren, 1868; *Chalcis mansueta* Walker, 1871; *Ch. callipus* Kirby, 1883; *Ch. mikado* Cameron, 1888; *Ch. eccentrica* Cameron, 1897; *Ch. borneanus* Cameron, 1905; *Ch. capensis* Cameron, 1905; *Ch. ferox* Kieffer, 1905; *Ch. spilopus* Cameron, 1905; *Ch. transvaalensis* Cameron, 1911; *Tumidicoxoides kurandaensis* Girault, 1913; *Chalcis diptero-phaga* Girault et Dodd, 1915; *Tumidicoxoides paucipunctatus* Girault, 1915; *Chalcis neglecta* Masi, 1916; *Ch. sodalis* Masi, 1917; *Ch. vegai* Girault, 1924; *Ch. garutianus* Guenther, 1936; *Ch. vulcani* Schmitz, 1946; *Brachymeria aligarhensis* Husain et Agarwal, 1982). Primary parasitoid of dipterans from the families Calliphoridae, Muscidae, Sarcophagidae and Tephritidae and lepidopterans from the families Lymantriidae, Noctuidae, Psychidae

and Yponomeutidae; secondary parasitoid of dipterans from the family Sarcophagidae. Russia: **EP** (NC), **WS** (TK). – Europe (WE, NE, SE, EE), N Africa, Israel, Iran, Mongolia, China (SE), Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.

Brachymeria rugulosa (Foerster, 1859) [Chalcis]. Primary parasitoid of hymenopterans from the family Cynipidae and lepidopterans from the families Oecophoridae, Pyralidae and Tortricidae. Russia: **EP** (C, E, S, NC), **UR**, **WS** (AL). – Europe (WE, SE, EE), Turkey, Iran, Turkmenistan.

Brachymeria secundaria (Ruschka, 1922) [Chalcis] (*Brachymeria tauriensis* Masi, 1929). Primary parasitoid of lepidopterans from the families Geometridae, Lymntriidae, Noctuidae, Notodontidae, Nymphalidae, Pieridae, Tortricidae and Yponomeutidae; secondary parasitoid of hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (C, S, NC), **UR**, **WS** (TK, KM, AL), **FE** (PR). – Europe (WE, SE, EE), Turkey, Kazakhstan, Japan, India.

Brachymeria tibialis (Walker, 1834) [Chalcis] (*Chalcis cingulata* Walker, 1834; *Ch. distinguenda* Walker, 1834; *Ch. intermedia* Nees, 1834; *Ch. rufofemorata* Rosenhauer, 1856; *Ch. scirropoda* Foerster, 1859; *Ch. boops* Thomson, 1876; *Oncochalcis quettaensis* Cameron, 1906). Primary parasitoid of dipterans from the families Cecidomyiidae and Tachinidae and many families of Lepidoptera; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Braconidae, Chalcididae and Ichneumonidae. Russia: **EP** (C, S, NC), **UR**, **WS** (KM), **ES** (TU, KR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Armenia, Azerbaijan, Turkey, Syria, Iraq, Lebanon, Israel, Iran, Pakistan, Uzbekistan, Kazakhstan, N America, India, SE Asia.

Brachymeria tristis Nikolskaya, 1952. Russia: **EP** (C), **UR**, **WS** (KM).

Brachymeria vitripennis (Foerster, 1859) [Chalcis]. Primary parasitoid of coleopterans from the families Chrysomelidae and Rhynchitidae. Russia: **EP** (S, NC). – Europe (WE, SE, EE), Turkey, Iran.

CHALCIS Fabricius, 1787 (*Smiera* Spinola, 1811). Type species: *Sphex sisipes* Linnaeus, 1761. Cosmopolitan. Number of species: World – 54, Palaearctic – 12, Russia – 3.

Chalcis biguttata Spinola, 1808 (*Chalcis melanaris* Dalman, 1820; *Smiera macleanii* Curtis, 1833). Primary parasitoid of *Stratiomys* sp. (Diptera: Stratiomyidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), N Africa, Iran, Kazakhstan.

Chalcis myrifex (Sulzer, 1776) [Sphex] (*Vespa dearticulata* Fourcroy, 1785; *Smiera petiolata* Curtis, 1833). Primary parasitoid of *Stratiomys longicornis* Scop. and *Stratiomys* sp. (Diptera: Stratiomyidae). Russia: **EP** (C). – Europe (WE, SE, EE), N Africa, N America.

Chalcis sisipes (Linnaeus, 1761) [Sphex] (*Chalcis clavipes* Fabricius, 1787; *Ch. crassipes* Desmarest, 1875; *Smicra microstigma* Thomson, 1876). Primary parasitoid of dipterans from the family Stratiomyidae. Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Iran.

CONURA Spinola, 1837 (*Spilochalcis* Thomson, 1876; *Epinæus* Kirby, 1883; *Proctoceras* Kirby, 1883; *Thaumapus* Kirby, 1883; *Diplodontia* Ashmead, 1888; *Metadontia* Ashmead, 1888; *Ceratasmicra* Ashmead, 1904; *Enneasmicra* Ashmead, 1904; *Eusayia* Ashmead, 1904; *Eustypipura* Ashmead, 1904; *Heptasmicra* Ashmead, 1904; *Hexasmicra* Ashmead, 1904; *Mischosmicra* Ashmead, 1904; *Octosmicra* Ashmead, 1904; *Pentasmicra* Ashmead, 1904; *Plagiosmicra* Cameron, 1904; *Sayiella* Ashmead, 1904; *Tetrasmicra* Ashmead, 1904; *Trismicra* Ashmead, 1904; *Xanthomelanus* Ashmead, 1904; *Thaumtopus* Schulz, 1906; *Arretoceroidella* Girault, 1913; *Mixochalcis* Blanchard, 1935; *Psychidosmicra* Blanchard, 1935; *Eterochalcis* Burks, 1939; *Grisselliella* Narendran, 1988). Type species: *Conura flavicans* Spinola, 1837. The genus is distributed in the Holarctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 303, Palaearctic – 6, Russia – 1.

Conura xanthostigma (Dalman, 1820) [Chalcis] (*Spilochalcis simlaensis* Cameron, 1902; *S. indica* Mani, 1935; *S. fletcheri* Mani, 1936). Primary parasitoid of hymenopterans from the family Argidae and lepidopterans from the family Coleophoridae. Russia: **EP** (NW), **ES** (IR), **FE** (AM, PR). – Europe (WE, NE, SE, EE), China (CC), N America, India.

Subfamily DIRHININAE

DIRHINUS Dalman, 1818 (*Dirrhinus* Dalman, 1823; *Eniaca* Kirby, 1883; *Hontalia* Cameron, 1884; *Chontalia* Schulz, 1906; *Dirrhinoidea* Girault, 1912; *Eniacella* Girault, 1913; *Parenia* Crawford, 1913; *Eniacomorpha* Girault, 1915; *Dirrhinoides* Masi, 1947). Type species: *Dirrhinus excavatus* Dalman, 1818. Cosmopolitan. Number of species: World – 70, Palaearctic – 15, Russia – 1.

Dirhinus anthracia Walker, 1846 (*Dirhinus ruficornis* Cameron, 1905; *Eniacella bicornuticeps* Girault, 1915; *Dirhinus sarcophagae* Froggatt, 1919; *D. frequens* Masi, 1933; *D. intermedius* Mani et Dubey, 1972; *D. georgei* Mani et Dubey, 1974; *D. aligarhensis* Husain et Agarwal, 1981; *D. ignobilicornis* Husain et Agarwal, 1981). Primary parasitoid of dipterans from the families Calliphoridae, Muscidae, Sarcophagidae, Tachinidae and Tephritidae, lepidopterans from the families Bombycidae, Noctuidae, Pyralidae and Zygaenidae and orthopterans from the family Acrididae; secondary parasitoid of dipterans from the families Sarcophagidae and Tachinidae. Russia: **FE** (PR). – India, SE Asia, Afrotropics, Australasia.

Subfamily HALTICHELLINAE

ANTROCEPHALUS Kirby, 1883 (*Coelochalcis* Cameron, 1904; *Dilla* Strand, 1911; *Stomatoceroides* Girault, 1913; *Metarretocera* Girault, 1927; *Sabatiella* Masi, 1929; *Tainania* Masi, 1929; *Stomatocrella* Girault, 1930; *Uxa* Girault, 1930; *Dillisca* Ghesquiere, 1946). Type species: *Halticella fascicornis* Walker, 1871. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 125, Palaearctic – 8, Russia – 1.

Antrocephalus hypsopygiae Masi, 1928. Primary parasitoid of lepidopterans from the family Pyralidae. Russia: **EP** (NC). – Europe (WE, SE), N Africa, Iran, Turkmenistan, Kazakhstan.

EUCHALCIS Dufour, 1861 (*Allocera* Sichel, 1866; *Phasnophora* Sichel, 1866). Type species: *Euchalcis mieggii* Dufour, 1861. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 12, Russia – 3.

Euchalcis hyalipennis Bouček, 1952. Russia: **EP** (S). – N Africa, Israel.

Euchalcis inopinata (Bouček, 1952) [Hockeria]. Russia: **EP** (E, S), **UR**. – Europe (WE, NE, EE), Kazakhstan.

Euchalcis magna (Bouček, 1952) [Hockeria]. Primary parasitoid of *Zygaena* sp. (Lepidoptera: Zygaenidae). Russia: **EP** (C, S). – Europe (WE, NE, SE, EE), Turkey, Israel, Kazakhstan.

HALTICHELLA Spinola, 1811 (*Microchalcis* Kieffer, 1905). Type species: *Chalcis bispinosa* Fabricius, 1804 (= *Chalcis rufipes* Olivier, 1791). Cosmopolitan. Number of species: World – 35, Palaearctic – 5, Russia – 2.

Haltichella nipponensis Habu, 1960. Russia: **EP** (PR). – Japan, India, SE Asia.

Haltichella rufipes (Olivier, 1791) [Chalcis] (*Cynips armata* Panzer, 1801; *Chalcis bispinosa* Fabricius, 1804; *Microchalcis quadridens* Kieffer, 1905; *Hockeria bidentata* Schmitz, 1946). Primary parasitoid of coleopterans *Ptilinus pectinicornis* L. (Anobiidae) and *Lagria hirta* L. (Tenebrionidae) and lepidopterans from the family Tortricidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, Afrotropics.

HYBOTHORAX Ratzeburg, 1844. Type species: *Hybothorax graffii* Ratzeburg, 1844. The genus is distributed in the Palaearctic and Afrotropical regions. Number of species: World – 2, Palaearctic and Russia – 1.

Hybothorax graffii Ratzeburg, 1844 (*Halticella myrmeleonis* Fairmaire, 1876). Primary parasitoid of neuropterans from the family Myrmeleontidae. Russia **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE).

HOCKERIA Walker, 1834 (*Stomatoceras* Kirby, 1883; *Temnata* Cameron, 1897; *Centrochalcis* Cameron, 1905;

Hypochalcis Girault, 1915; *Hockerella* Girault, 1930; *Afrochalcis* Schmitz, 1946; *Afrhockeria* Steffan, 1955; *Nipponohockeria* Habu, 1960). Type species: *Hockeria bifasciata* Walker, 1834. Cosmopolitan. Number of species: World – 98, Palaearctic – 27, Russia – 3.

Hockeria singularis Bouček, 1952. Primary parasitoid of lepidopterans *Sterrhopterix* sp. (Psychidae) and *Etiella zinckenella* Treits. (Pyralidae). Russia **EP** (S). – Europe (WE, SE, EE), Kazakhstan.

Hockeria unicolor Walker, 1834 (*Halticella pachycera* Foerster, 1859). Primary parasitoid of coleopterans from the family Curculionidae and lepidopterans from the families Gelechiidae, Geometridae, Gracillariidae, Momphidae, Noctuidae, Psychidae, Tortricidae, Yponomeutidae and Zygaenidae. Russia: **EP** (S, NC), **FE** (AM, PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iran, Kazakhstan, Afrotropics.

Hockeria yoshiokai Habu, 1960. Russia: **FE** (PR). – Japan.

LASIOCHALCIDIA Masi, 1929 (*Oxycoryphus* Cameron, 1904; *Dromochalcidia* Masi, 1929; *Oxycoryphiscus* Ghesquiere, 1946; *Anoplochalcidia* Steffan, 1951). Type species: *Euchalcis rubripes* Kieffer, 1899. The genus is distributed in the Palaearctic, Oriental and Afrotropical regions. Number of species: World – 23, Palaearctic – 15, Russia – 3.

Lasiochalcidia cincticornis (Walker, 1871) [Halticella] (*Chalcis discrepans* Costa, 1881). Primary parasitoid of *Myrmecaelurus* sp. (Neuroptera: Myrmeleontidae). Russia: **EP** (S, NC). – Europe (WE, SE, EE), N Africa, Lebanon, Israel, Iran, Kazakhstan.

Lasiochalcidia dargelasii (Latreille, 1805) [Chalcis] (*Chalcis denticornis* Fonscolombe, 1832; *Ch. tenuicornis* Fonscolombe, 1832; *Halticella tuberculata* Foerster, 1855). Primary parasitoid of *Distolen* sp. and *Megistopus* sp. (Neuroptera: Myrmeleontidae). Russia: **EP** (S, NC). – Europe (WE, SE, EE), N Africa, Turkey, Iran, India.

Lasiochalcidia nigra (Yasumatsu, 1946) [Dromochalcidia]. Primary parasitoid of *Glenuroides okinawensis* Okamoto (Neuroptera: Myrmeleontidae). Russia: **FE** (PR). – Japan.

NEOCHALCIS Kirby, 1883 (*Orthochalcis* Kieffer, 1905; *Eugastrochalcis* Masi, 1929). Type species: *Halticella osmicida* Saunders, 1873. The genus is distributed in the Palaearctic and Oriental regions. Number of species: World – 11, Palaearctic – 8, Russia – 1.

Neochalcis fertoni (Kieffer, 1899) [Euchalcis] (*Euchalcis barbara* Benoist, 1921). Primary parasitoid of hymenopterans from the families Apidae and Vespidae. Russia: **EP** (C). – Europe (WE, SE, EE), N Africa, Turkey, Iran, Kazakhstan.

NEOHYBOTHORAX Nikolskaya, 1960. Type species: *Hockeria hetera* Walker, 1834. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 2, Russia – 1.

Neohybothorax hetera (Walker, 1834) [Hockeria]. Primary parasitoid of *Libelloides coccajus* Den. et Schiff. (Neuroptera: Ascalaphidae). Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Iran.

PSILOCHALCIS Kieffer, 1905 (*Leptochalcis* Kieffer, 1905; *Euchalcidia* Masi, 1929; *Euchalcidiella* Masi, 1929; *Invreia* Masi, 1929; *Chalcidiopsis* Masi, 1933; *Peltochalcidia* Steffan, 1948; *Hyperchalcidia* Steffan, 1951; *Parinvreia* Steffan, 1951; *Psilochalcidia* Steffan, 1951; *Cephalochalcidia* Nikolskaya, 1960). Type species: *Leptochalcis filicornis* Kieffer, 1905 (= *Psilochalcis longigena* Kieffer, 1905). The genus is distributed in the Palaearctic and Oriental regions. Number of species: World – 58, Palaearctic – 37, Russia – 3.

Psilochalcis benoisti (Steffan, 1948) [*Peltochalcidia*] (*Peltochalcidia oranensis* Bouček, 1952). Russia: **EP** (S). – Europe (WE, SE, EE), N Africa, Turkey, Iran, Kazakhstan.

Psilochalcis rufitarsis (Illiger, 1807) [*Chalcis*] (*Sphex monstrosa* Villers, 1789; *Chalcis vicina* Fonscolombe, 1832; *Hockeria nigra* Walker, 1834; *Invreia frequens* Masi, 1929). Primary parasitoid of lepidopterans from the family Pyralidae. Russia: **EP** (S). – Europe (WE, NE, SE, EE), Turkey, Syria, Iran, Kazakhstan.

Psilochalcis subarmata (Foerster, 1855) [*Haltichella*] (*Haltichella tarsalis* Foerster, 1859). Russia: **EP** (S), **UR**. – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, India.

35. FAMILY LEUCOSPIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Leucospids are large chalcid wasps with the body length of 4–17 mm, with tegula narrow, at least twice as long as broad; prepectus very narrow, not clearly visible; femur of hind leg swollen with one or more teeth on its inner margin, tibia markedly curved.

Leucospidae members are parasitoids of aculeate Hymenoptera. Their hosts are mainly solitary bees, less frequently solitary wasps, Vespidae and Sphecidae nesting in a similar way to bees (Noyes, 2019).

Number of taxa: World – 4 genera and 134 species, Palaearctic – 1/19, Russia – 1/7.

References. Nikol'skaya, 1978b; Golikov, Shabalta, 1984; Ye et al., 2017; Noyes, 2019.

LEUCOSPIS Fabricius, 1775 (*Coelogaster* Schrank, 1780; *Leucopsis* Dummeril, 1823; *Leucaspis* Burmeister, 1835; *Exochlaenus* Shipp, 1894; *Epexochlaenoides* Girault, 1915; *Exochlaenoides* Girault, 1915; *Parexochlaenus* Girault, 1915). Type species: *Leucopsis dorsigera* Fabricius, 1775. Cosmopolitan. Number of species: World – 124, Palaearctic – 17, Russia – 7.

Leucopsis bifasciata Klug, 1812 (*Leucopsis gibba* Klug, 1812). Primary parasitoid of *Anthidiellum strigatum* Pz.

(Hymenoptera: Apidae). Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan, Turkey, Syria, Jordan, Lebanon, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan.

Leucopsis biguetina Jurine, 1807 (*Leucopsis parvicauda* Mocsary, 1879). Primary parasitoid of hymenopterans from the families Apidae and Sphecidae. Russia: **EP** (C). – Europe (WE, SE, EE), N Africa, Turkey, Israel, Iran.

Leucopsis dorsigera Fabricius, 1775 (*Coelogaster passaviensis* Schrank, 1782; *Leucopsis coelogaster* Hochenwarth, 1785; *L. dubia* Schrank, 1802; *L. dispar* Fabricius, 1804; *L. intermedia* Spinola, 1808; *L. fuesslini* Hagenbach, 1822; *L. assimilis* Westwood, 1834; *L. ligustica* Nees, 1834; *L. sicelis* Westwood, 1834; *L. spinolae* Westwood, 1834; *L. scutellata* Spinola, 1838; *L. vicina* Fonscolombe, 1840; *L. algerica* Walker, 1862; *L. lepida* Chevrier, 1872; *L. turkestanica* Radoszkowski, 1886). Primary parasitoid of hymenopterans from the family Apidae. Russia: **EP** (NC). – Europe (WE, SE, EE), N Africa, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Kazakhstan.

Leucopsis gigas Fabricius, 1793 (*Leucopsis gallica* Villers, 1789; *L. grandis* Klug, 1812; *L. varia* Klug, 1812; *L. nigricornis* Fabricius, 1834; *L. shuckardi* Westwood, 1834; *L. rufonotata* Westwood, 1839; *L. costae* Schembri, 1847; *L. nursei* Cameron, 1906; *L. quettaensis* Cameron, 1906). Primary parasitoid of hymenopterans from the families Apidae and Vespidae. Russia: **ES** (ZB). – Europe (WE, NE, SE, EE), N Africa, Armenia, Turkey, Syria, Jordan, Lebanon, Israel, Iran, Afghanistan, Pakistan, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NE, NW), N America, India.

Leucopsis intermedia Illiger, 1807 (*Leucopsis aculeata* Klug, 1812; *L. frenata* Klug, 1834; *L. hoplophora* Foerster, 1851; *L. sardoa* Costa, 1888). Primary parasitoid of *Megachile* sp., *Osmia emarginata* Lep. and *O. mustelina* Gerst. (Hymenoptera: Apidae). Russia: without regions (Ye et al., 2017). – Europe (WE, SE, EE), N Africa, Armenia, Azerbaijan, Turkey, Syria, Jordan, Lebanon, Israel, Iran, Afghanistan, Tajikistan, Uzbekistan, Kazakhstan, China (NW), S America, Australasia.

Leucopsis japonica Walker, 1871 (*Leucopsis exornata* Walker, 1871; *L. orientalis* Weld, 1922). Primary parasitoid of hymenopterans from the families Apidae, Sphecidae and Vespidae. Russia: without regions (Ye et al., 2017). – China, Korean Peninsula, Japan, India.

Leucopsis yasumatsui Habu, 1961. Russia: **FE** (PR). – China (NC).

36. FAMILY PERILAMPIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Perilampids are moderately large chalcid wasps of 1.3–5.5 mm length, with head and mesosoma very strongly sculptured, pronotum in dorsal view with sides more or less parallel and medially clearly visible behind head, marginal vein

of fore wing moderately long, postmarginal and stigmal veins short.

Many Perilampidae species are hyperparasitoids developing on tachinid and ichneumonoid primary parasitoids of Lepidoptera and Hymenoptera (Symphyta); some species are only facultative hyperparasitoids or primary parasitoids (Noyes, 2019).

Number of taxa: World – 15 genera and 277 species, Palaearctic – 10/120, Russia – 4/25.

R e f e r e n c e s. Walker, 1874; Thompson, 1958; Dzhanokmen, 1978; Trjapitzin, 1978h; Storozheva, 1995b; Noyes, 2019.

Subfamily CHRYSOLAMPINAE

CHRYSOLAMPUS Spinola, 1811 (*Elatus* Walker, 1848; *Lamprostylus* Foerster, 1856; *Toxeumoides* Girault, 1915; *Paratoximopsis* Girault, 1922). Type species: *Diplolepis splendidula* Spinola, 1808. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 55, Palaearctic – 40, Russia – 2.

Chrysolampus splendidulus (Spinola, 1808) [*Diplolepis*] (*Lamprostylus auricollis* Foerster, 1859). Primary parasitoid of *Lyctus linearis* Goeze (Coleoptera: Lyctidae). Russia: **EP** (C, S). – Europe (WE, NE, SE, EE), N Africa, Turkey, Kazakhstan.

Chrysolampus thenae (Walker, 1848) [*Elatus*] (*Perilampus obscurus* Walker, 1874). Primary parasitoid of coleopterans from the family Nitidulidae and hemipterans from the family Aphididae. Russia: **EP** (C, S), **FE** (AM). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.

Subfamily PERILAMPINAE

EUPERILAMPUS Walker, 1871 (*Euperilampoides* Girault, 1915; *Nesoperilampus* Rohwer, 1923). Type species: *Perilampus gloriosus* Walker, 1862. Cosmopolitan. Number of species: World – 19, Palaearctic – 2, Russia – 1.

Euperilampus sinensis Bouček, 1978. Russia: **FE** (AM, PR). – China (CC).

PERILAMPUS Latreille, 1809 (*Cynipsillum* Agassiz, 1845; *Afroperilampus* Risbec, 1957; *Bagdasar* Argaman, 1990; *Balintos* Argaman, 1990; *Bukbakas* Argaman, 1990; *Dekterek* Argaman, 1990; *Durgadas* Argaman, 1990; *Ecalibur* Argaman, 1990; *Fifirtiz* Argaman, 1990; *Fulaytar* Argaman, 1990; *Goyurfis* Argaman, 1990; *Ihrambek* Argaman, 1990; *Itonayis* Argaman, 1990; *Kekender* Argaman, 1990; *Lufarfar* Argaman, 1990; *Mivarhis* Argaman, 1990; *Naspoyar* Argaman, 1990; *Nilgator* Argaman, 1990; *Orarlar* Argaman, 1990; *Pondoros* Argaman, 1990; *Sicatang* Argaman, 1990; *Taltonos* Argaman, 1990; *Tiboras* Argaman, 1990; *Tondolos* Argaman, 1990; *Vadramas* Argaman, 1990; *Vaktaris* Argaman, 1990; *Yertatop* Argaman, 1990; *Zuglavas* Argaman, 1990). Type species:

Cynips italica Fabricius, 1793 (= *Chalcis aenea* Rossius, 1790). Cosmopolitan. Number of species: World – 157, Palaearctic – 50, Russia – 21.

Perilampus aeneus (Rossius, 1790) [Chalcis] (*Cynips italica* Fabricius, 1793). Primary parasitoid of coleopterans from the family Curculionidae, hymenopterans from the family Tenthredinidae and lepidopterans from the family Tortricidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey.

Perilampus aquilus Nikolskaya, 1952. Russia: **EP** (NW, E).

Perilampus auratus (Panzer, 1798) [Cynips]. Primary parasitoid of hymenopterans from the families Sphecidae and Tenthredinidae. Russia: **EP** (C, S), **UR**. – Europe (WE, NE, SE, EE), Kazakhstan.

Perilampus aureoviridis Walker, 1833 (*Perilampus emarginatus* Thomson, 1876; *P. lacunosus* Nikolskaya, 1952). Russia: **EP** (C), **UR**. – Europe (WE, NE, EE), Mongolia.

Perilampus chrysonotus Foerster, 1859 (*Perilampus nigellus* Nikolskaya, 1952). Primary parasitoid of *Orgyia gonostigma* L. (Lepidoptera: Lymantriidae); secondary parasitoid of hymenopterans from the family Ichneumonidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Mongolia.

Perilampus eximius Masi, 1932. Russia: **FE** (AM, PR). – Europe (WE, SE, EE), Tajikistan.

Perilampus intermedius Bouček, 1956. Russia: **FE** (KA). – Europe (WE, NE, SE, EE).

Perilampus kaszabi Bouček, 1983. Russia: **FE** (PR). – Mongolia.

Perilampus laevifrons Dalman, 1822 (*Perilampus inaequalis* Foerster, 1859; *P. nigriventris* Foerster, 1859). Primary parasitoid of lepidopterans from the family Tortricidae and neuropterans from the family Chrysopidae; secondary parasitoid of hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (NW, C, E, S). – Europe (WE, NE, SE, EE), N Africa, Mongolia.

Perilampus maceki Bouček, 1956. Russia: **FE** (KA). – Europe (EE).

Perilampus masculinus Bouček, 1956. Russia: **EP** (C, E, S, NC), **UR**, **FE** (AM, KH, PR). – Europe (WE, EE), Kazakhstan.

Perilampus nitens Walker, 1834 (*Perilampus antennatus* Walker, 1834; *P. selectus* Walker, 1874). Primary parasitoid of lepidopterans *Dendrolimus sibiricus* Tschetv. (Lasiocampidae); secondary parasitoid of *Rhogas dendrolimi* Mats. (Hymenoptera: Braconidae). Russia: **EP** (N, NW, E), **UR**, **WS** (TK), **FE** (AM, KH, PR). – Europe (WE, SE, EE).

Perilampus noemi Nikolskaya, 1952. Russia: **FE** (PR). – Mongolia.

Perilampus nola Nikolskaya, 1952. Primary parasitoid of lepidopterans *Loxostege sticticalis* L. (Pyralidae). Russia: **UR**. – Kazakhstan, Mongolia.

Perilampus prasinus Nikolskaya, 1952. Russia: **FE** (PR). – China.

Perilampus ruficornis (Fabricius, 1793) [Cynips] (*Diplolepis violacea* Fabricius, 1804; *Perilampus pallipes* Curtis,

1827; *P. nigricornis* Walker, 1833; *P. scaber* Nikolskaya, 1952). Primary parasitoid of dipterans from the family Glossinidae, hymenopterans from the families Cynipidae and Sphecidae, lepidopterans from the families Geometridae, Lasiocampidae, Lymantriidae, Noctuidae, Pyralidae and Tortricidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (NW, C, S, NC), **UR**, **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), China, Japan, N America, Afrotropics.

Perilampus ruschkai Hellén, 1924. Primary parasitoid of lepidopterans *Semiothisa pumila* Kusn. (Geometridae). Russia: **EP** (NW, S), **WS** (NS). – Europe (WE, NE, EE).

Perilampus splendidus Dalman, 1822. Primary parasitoid of hymenopterans from the families Diprionidae and Tenthredinidae; secondary parasitoid of dipterans *Eumea mitis* Mg. (Tachinidae). Russia: without regions (Thompson, 1958). – Europe (NE, EE).

Perilampus tristis Mayr, 1905 (*Perilampus batavus* Smits van Burgst, 1919; *P. capitatus* Smulyan, 1936; *P. orcula* Nikolskaya, 1952). Primary parasitoid of lepidopterans from the families Cossidae, Gelechiidae, Oecophoridae, Pyralidae, Tortricidae and Raphidioptera from family Raphidiidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Syria, Iraq, Lebanon, Israel, Kazakhstan, Mongolia, China (NC), N and S America.

Perilampus tuberculatus Storozheva, 1995. Russia: **FE** (PR). – Europe (WE, SE), Turkmenistan, Kazakhstan, India.

Perilampus umbo Nikolskaya, 1952. Russia: **FE** (KH, PR, SA). – Turkmenistan, Kazakhstan.

Subfamily PHILOMIDINAE

PHILOMIDES Haliday, 1862 (*Sternodes* De Stefani, 1891; *Destefania* Dalla Torre, 1897; *Fissicrania* Risbec, 1951). Type species: *Philomides paphius* Haliday, 1862. The genus is distributed in the Palaearctic, Oriental and Afrotropical regions. Number of species: World – 9, Palaearctic – 3, Russia – 1.

Philomides paphius Haliday, 1862 (*Sternodes pusateri* De Stefani, 1891). Russia: **EP** (NC). – Europe (WE, SE), Turkmenistan, Kazakhstan, India.

37. FAMILY EUCHARITIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Eucharitids are moderately large chalcid wasps, of 2.0–5.5 mm length. They are characterised by the mesosoma

with small pronotum situating in the same plane as prepectus. Gaster usually relatively small with a very long petiole. Marginal vein of fore wing long, stigmal and postmarginal veins short.

All species of eucharitids are ecto- or endoparasitoids of the immature stages of ants (Noyes, 2019).

Number of taxa: World – 55 genera and 423 species, Palaearctic – 10/65, Russia – 2/11.

References. Ruschka, 1924; Gussakovskij, 1940; Nikol'skaya, 1952; Trjapitzin, 1978e; Noyes, 2019.

Subfamily EUCHARITINAE

EUCHARIS Latreille, 1804 (*Psilogaster* Blanchard, 1840; *Psilogastrellus* Ghesquiere, 1946; *Eucharisca* Bouček, 1956). Type species: *Cynips adscendens* Fabricius, 1787. The genus is distributed in the Palaearctic, Oriental and Neotropical regions. Number of species: World – 47, Palaearctic – 43, Russia – 9.

Eucharis acuminata Ruschka, 1924. Russia: **EP** (NC). – N Africa.

Eucharis adscendens (Fabricius, 1787) [Cynips] (*Eucharis kollari* Foerster, 1859). Primary parasitoid of hymenopterans from the family Formicidae. Russia: **EP** (NC), **UR**. – Europe (WE, SE, EE), Turkey, Kazakhstan.

Eucharis carinifera Gussakovskij, 1940. Russia: **EP** (S). – Europe (SE, EE), Armenia, Iran, Uzbekistan, Kazakhstan.

Eucharis diaphana Gussakovskij, 1940. Russia: **EP** (NC). – Turkmenistan.

Eucharis gussakovskii Nikolskaya, 1952. Russia: **EP** (E, S). – Europe (EE).

Eucharis nana Gussakovskij, 1940. Russia: **EP** (NC). – Europe (EE).

Eucharis przhivalskii Gussakovskij, 1940. Russia: **ES** (BR). – Mongolia.

Eucharis rugulosa Gussakovskij, 1940. Russia: **EP** (E, S). – Europe (EE).

Eucharis shestakovi Gussakovskij, 1940. Russia: **EP** (E, S). – Europe (SE, EE), Tajikistan.

STILBULA Spinola, 1811 (*Eltolada* Cameron, 1909). Type species: *Ichneumon cyniformis* Rossi, 1792. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 41, Palaearctic – 9, Russia – 2.

Stilbula cyniformis (Rossi, 1792) [Ichneumon] (*Stilbula cynipiformis* Kirby, 1886; *Schizaspidia tenuicornis* Ashmead, 1904; *Sch. nekkensis* Ishii, 1938). Primary parasitoid of hymenopterans from the family Formicidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan, Turkey, Kazakhstan, China (NE, NC), Korean Peninsula, Japan, N America.

Stilbula ussuriensis Gussakovskij, 1940. Russia: **FE** (PR).

38. FAMILY PTEROMALIDAE

E.V. TSELIKH

Pteromalids are minute to small chalcid wasps, 1–5 mm in length. They are characterised by the antennae with 8–13 segments, including up to 3 annelli; fore wing with marginal vein at least several times longer than broad; postmarginal and stigmal veins well developed; speculum distinct; fore and hind tarsi with 5 segments.

Pteromalidae is one of the most diverse families of the parasitic Hymenoptera. Members of the family have different strategies of parasitism (solitary or gregarious, ecto- and endoparasitism) and parasitise insects from different orders developing on eggs, larvae, pupae and imagoes (imagobiosis).

Number of taxa: World – 641 genera and about 3500 species, Palaearctic – 279/about 1985, Russia – 137/411.

R e f e r e n c e s. Walker, 1874; Kurdjumov, 1912; Meyer, 1929; Nikol'skaya, 1934a, 1952; Nefedov, 1953; Kolomiets, 1954, 1956b; Nikol'skaya, Kyao, 1954; Bouček, 1958, 1965b, 1970, 1988; Thompson, 1958; Agafonova, 1959; Zinov'ev, 1959; Dubrovskaya, 1962; Sugonyaev (Sugonjaev), 1962; Peck, 1963; Litvinchuk, 1965, 1990; Tarasova, 1965; Stadnitskiy, 1966; Titova, 1966; Kicherov, 1967; Egorova, 1968; Graham, 1969; Barannik, 1970; Antsiferova, 1971; Chukanova, 1971; Pilipyuk, 1971c; Panfilova, 1972; Pelov, 1972; Grebenshchikova, 1973; Filatova, 1974; Ivliev et al., 1974; Prokof'eva, 1974; Ivatsik, Kovalchuk, 1975; Moiseeva, 1975; Dzhankmen, 1978, 1984, 1986, 1987, 1990, 1993a, 1993b; Sharkov, 1982; Vikberg, 1982; Kamijo, 1983; Marshakov, 1983; Dolgin, 1984; Herthetvzian, Dzhankmen, 1985; Kabyshev, 1985; Dzhankmen, Stanionyte, 1986; Koval, Zalozhnykh, 1986; Sharov, Tsimbulova, 1988; Krotova, 1994; Zerova, Seryogina, 1994a; Shadrina, Gorbunov, 1995; Vidal, 1997; Artokhin, 2000; Gokhman et al., 2000; Gibson, 2003, 2009; Timokhov, Gokhman, 2003; Kostjukov et al., 2004a; Kostjukov, Nagorny, 2004a, 2004b; László, 2006; Sugonyaev, Voinovich, 2006; Kosheleva, Khomchenko, 2007; Rizzo, Mitroiu, 2010; Tselikh, 2010, 2011, 2012a, 2012b, 2015a, 2015b, 2016a, 2016b, 2019; Burks, 2013; Baur et al., 2014; Tselikh, Mitroiu, 2014; Tselikh et al., 2017; Tselikh, Kostjukov, 2017; Noyes, 2019.

Subfamily ASAPHINAE

ASAPHES Walker, 1834 (*Isocratus* Foerster, 1856; *Parectroma* Brèthes, 1913). Type species: *Asaphes vulgaris* Walker, 1834. Cosmopolitan. Number of species: World – 15, Palaearctic – 13, Russia – 5.

Asaphes aequatus Pelov, 1972. Primary parasitoid of hemipterans from the family Aphididae; secondary parasitoid of hymenopterans from the family Aphidiidae. Russia: **EP** (NW). – Europe (EE).

Asaphes hirsutus Gibson et Vikberg, 1998. Primary parasitoid of hemipterans from the family Aphididae; secondary

parasitoid of hymenopterans from the families Aphidiidae, Figitidae and Megaspilidae. Russia: **EP** (N), **FE** (KH, SA). – Europe (WE, NE, SE, EE), N America.

Asaphes pubescens Kamijo et Takada, 1973. Primary parasitoid of hemipterans from the family Aphididae; secondary parasitoid of hymenopterans from the family Aphidiidae. Russia: **FE** (SA, KA). – Japan.

Asaphes suspensus (Nees, 1834) [*Chrysolampus*] (*Chrysolampus altiventris* Nees, 1834; *Pteromalus petioliventris* Zetterstedt, 1838; *Chrysolampus aphidiphagus* Ratzeburg, 1844; *Ch. aphidicola* Rondani, 1848; *Euplectrus lucens* Provancher, 1887; *Asaphes rufipes* Brues, 1909; *Megoris fletcheri* Crawford, 1909; *Parectroma hübrichi* Brèthes, 1913; *Asaphes americana* Girault, 1914; *Pachycrepoideus bonariensis* Brèthes, 1916; *P. indicus* Bhatnagar, 1952; *Asaphes sawaraji* Sharma et Subba Rao, 1959; *Pachyneuron uniarticulata* Mani et Saraswat, 1974). Primary parasitoid of dipterans *Liriomyza congesta* Beck. (Agromyzidae) and *Cecidomyia salicistrobiloides* O-S. (Cecidomyiidae), many species of hemipterans from the family Aphididae; secondary parasitoid of hymenopterans from the families Aphidiidae, Encyrtidae, Figitidae and Megaspilidae. Russia: **EP** (C, NC), **UR**, **WS** (TM, NS, AL), **FE** (AM, PR, SA, KA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Iran, Pakistan, Kyrgyzstan, Kazakhstan, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan, N America, India, S America.

Asaphes vulgaris Walker, 1834 (*Eurytoma aenea* Nees, 1834; *Chrysolampus aeneus* Ratzeburg, 1848; *Ch. aphidophila* Rondani, 1848). Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the families Agromyzidae, Cecidomyiidae and Syrphidae and hemipterans from the families Aphididae, Coccidae, Diaspididae, Pseudococcidae and Psyllidae; secondary parasitoid of hymenopterans from the families Aphelinidae, Aphidiidae, Charipidae, Encyrtidae, Figitidae and Ichneumonidae. Russia: **EP** (NW, C, S, NC), **UR**, **WS** (KM). – Europe (WE, NE, SE, EE), N Africa, Armenia, Turkey, Iran, Pakistan, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NC, SW, WP, SE), Korean Peninsula, N America, India, S America, Australasia.

BAIRAMLIA Waterston, 1929. Type species: *Bairamlia fuscipes* Waterston, 1929. Monotypic Palaearctic genus.

Bairamlia fuscipes Waterston, 1929 (*Bairamlia nidicola* Ferrière, 1934; *Parasaphodes atrovirens* Bouček, 1956). Primary parasitoid of coleopterans from the family Histeridae and siphonapterans from the family Ceratophyllidae. Russia: **EP** (C). – Europe (WE, NE, EE).

HYPERIMERUS Girault, 1917 (*Mespilon* Graham, 1957). Type species: *Hyperimerus corvus* Girault, 1917. The genus is distributed in the Holarctic region. Number of species: World – 3, Palaearctic and Russia – 1.

Hyperimerus pusillus (Walker, 1833) [Cyrtogaster] (*Mespi-
lon exiguum* Graham, 1957). Primary parasitoid of hemi-
pterans from the families Pseudococcidae and Psyllidae.
Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE),
Iran, China (NW, SW, WP), N America.

Subfamily CEINAE

CEA Walker, 1837. Type species: *Cea pulicaris* Walker,
1837. Monotypic genus; distributed in the Palearctic
region.

Cea pulicaris Walker, 1837 (*Cea irene* Walker, 1851). Pri-
mary parasitoid of dipterans from the family Agromy-
zidae. Russia: **EP** (N). – Europe (WE, NE, SE, EE),
N Africa, Turkey.

Subfamily CEROCEPHALINAE

CEROCEPHALA Westwood, 1832 (*Epimacrus* Walker,
1833; *Sciatheras* Ratzeburg, 1848; *Parasciatheras* Masi,
1917; *Sciatherodes* Masi, 1917; *Proamotura* Girault, 1920).
Type species: *Cerocephala cornigera* Westwood,
1832. The genus is distributed in the Holarctic, Oriental,
Afrotropical and Neotropical regions. Number of species:
World – 8, Palearctic – 4, Russia – 1.

Cerocephala cornigera Westwood, 1832 (*Sciatheras tricho-
tus* Ratzeburg, 1848). Primary parasitoid of coleopterans
from the families Anobiidae, Curculionidae (Scolytinae)
and Dryophthoridae. Russia: **EP** (NC). – Europe (WE,
NE, SE, EE), N Africa, Armenia, Israel, Iran, SE Asia.

THEOCOLAX Westwood, 1832 (*Laesthia* Haliday, 1833;
Choetospila Westwood, 1874; *Spalangiomorpha* Girault,
1913). Type species: *Theocolax formiciformis* West-
wood, 1832. Cosmopolitan. Number of species: World – 9,
Palearctic – 4, Russia – 1.

Theocolax formiciformis Westwood, 1832 (*Laesthia vesp-
ertina* Haliday, 1833). Primary parasitoid of coleopterans
from the families Anobiidae, Curculionidae (Scolyti-
nae), Dryophthoridae and Lyctidae. Russia: **EP** (NW). –
Europe (WE, NE, EE), N America, Australasia.

Subfamily CLEONYMINAE

CLEONYMUS Latreille, 1809 (*Ptinobius* Ashmead, 1896;
Aplatygerrhus Girault, 1913; *Systolomorphella* Girault,
1915; *Megormyrus* Cockerell, 1926; *Paracleonymus* Masi,
1927; *Beharella* Risbec, 1952). Type species: *Ich-
neumon depressus* Fabricius, 1798 (= *Cleonymus lati-
cornis* Walker, 1837). Cosmopolitan. Number of species:
World – 44, Palearctic – 18, Russia – 5.

Cleonymus ceratinae Kamijo, 1996. Primary parasitoid of
Ceratina japonica Cock. (Coleoptera: Apidae). Russia:
FE (PR). – Japan.

Cleonymus laticornis Walker, 1837 (*Ichneumon depressus*
Fabricius, 1798; *Cleonymus thomsoni* Erdős, 1957). Prima-
ry parasitoid of coleopterans from the families Anobiidae,
Cerambycidae and Curculionidae and lepidopterans from
the family Gracillariidae. Russia: **EP** (NC). – Europe
(WE, NE, SE, EE), N Africa, China (NC), N America.

Cleonymus longinervus Kamijo, 1983. Russia: **FE** (PR). –
China (NC), Korean Peninsula, Japan.

Cleonymus serrulatus Kamijo, 1996. Primary parasitoid
of coleopterans from the family Cerambycidae. Russia:
FE (KH, PR). – Japan.

Cleonymus togashii Kamijo, 1996. Russia: **FE** (PR). – Japan.

HEYDENIA Foerster, 1856 (*Paraheydenia* Cameron, 1912;
Pterooderella Risbec, 1952; *Risbecisca* Hedqvist, 1960;
Heydenisca Hedqvist, 1967). Type species: *Heydenia*
pretiosa Foerster, 1856. The genus is distributed in the
Holarctic, Oriental, Afrotropical and Australasian regions.
Number of species: World – 19, Palearctic – 5, Russia – 1.

Heydenia pretiosa Foerster, 1856 (*Heydenia excellens*
Wachtl, 1889; *Lycisca silvestrii* Russo, 1938). Primary
parasitoid of coleopterans from the families Buprestidae,
Cerambycidae and Curculionidae (including Scolytinae);
secondary parasitoid of hymenopterans from the family
Ichneumonidae. Russia: **EP** (C, E, NC, CR), **WS** (TM). –
Europe (WE, NE, SE, EE), Israel, Iran.

NOTANISUS Walker, 1837 (*Pannonica* Risbec, 1946; *Ant-
singia* Risbec, 1952; *Bekiliella* Risbec, 1952; *Pannoniella*
Erdős, 1960; *Amarisca* Delucchi, 1962; *Anacallocleony-
mus* Yang, 1996). Type species: *Notaninus versicolor*
Walker, 1837. The genus is distributed in the Holarctic,
Oriental, Afrotropical and Australasian regions. Number
of species: World – 18, Palearctic – 8, Russia – 1.

Notaninus sexramosus (Erdős, 1946) [Pannonica]. Primary
parasitoid of hymenopterans from the family Euryto-
midae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE),
N Africa, Azerbaijan, N America.

OODERA Westwood, 1874 (*Stellophora* Risbec, 1951).
Type species: *Oodera gracilis* Westwood, 1874. The
genus is distributed in the Palearctic, Oriental and
Afrotropical regions. Number of species: World – 22,
Palearctic – 6, Russia – 1.

Oodera formosa (Giraud, 1863) [Heydenia] (*Oodera bestia*
Nikolskaya, 1952; *O. monstrum* Nikolskaya, 1952). Pri-
mary parasitoid of coleopterans from the families Bupre-
stidae, Cleridae, Curculionidae (Scolytinae) and Ptini-
dae. Russia: **EP** (E, S, NC). – Europe (WE, SE, EE), Iran.

Subfamily COLOTRECHNINAE

COLOTRECHNUS Thomson, 1878 (*Zanonia* Masi, 1921).
Type species: *Colotrechnus subcoeruleus* Thom-
son, 1878. The genus is distributed in the Holarctic

and Oriental regions. Number of species: World – 14, Palaearctic – 10, Russia – 2.

Colotrechnus subcoeruleus Thomson, 1878. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Kazakhstan, India.

Colotrechnus viridis (Masi, 1921) [Zanonia]. Primary parasitoid of coleopterans from the family Curculionidae. Russia: **FE** (PR). – Europe (SE, EE), N Africa, Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kazakhstan.

Subfamily DIPARINAE

DIPARA Walker, 1833 (*Tricoryphus* Foerster, 1856; *Apterolaps* Ashmead, 1901; *Alloterra* Kieffer et Marshall, 1904; *Trimicrops* Kieffer, 1906; *Parurios* Girault, 1913; *Epilelaps* Girault, 1915; *Pseudipara* Girault, 1915; *Uriolelaps* Girault, 1915; *Apterolaelaps* Girault, 1916; *Hispanolelaps* Mercet, 1927; *Pseudiparella* Girault, 1927; *Emersonia* Girault, 1933; *Grahamisia* Delucchi, 1962; *Afrolelaps* Hedqvist, 1964; *Pondia* Hedqvist, 1969; *Diparomorpha* Hedqvist, 1972; *Africesa* Koçak, Hüseyinoglu et Kemal, 2008). Type species: *Dipara petiolata* Walker, 1833. The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World – 56, Palaearctic – 5, Russia – 3.

Dipara belokobylskii Dzhankmen, 1993. Russia: **FE** (KH, PR, SA).

Dipara conoidea (Xiao et Huang, 2000) [Parurios]. Russia: **FE** (PR). – China (NC).

Dipara petiolata Walker, 1833 (*Dipara cinetoides* Walker, 1834; *Tricoryphus fasciatus* Thomson, 1876; *Hispanolelaps coxalis* Mercet, 1927). Primary parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Iran, N America.

NETOMOCERA Bouček, 1954. Type species: *Netomocera setifera* Bouček, 1954. The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World – 11, Palaearctic – 3, Russia – 1.

Netomocera ramakrishnai Sureshan, 2010. Russia: **FE** (SA, KA). – Japan, India.

Subfamily ELATOIDINAE

ELATOIDES Nikolskaya, 1952. Type species: *Elatoides niger* Nikolskaya, 1952. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 4, Russia – 2.

Elatoides niger Nikolskaya, 1952. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **FE** (PR).

Elatoides nikolskayae Pilipyuk, 1971. Primary parasitoid of hemipterans from the families Eriococcidae and Pseudococcidae. Russia: **FE** (SA). – Japan.

Subfamily EUNOTINAE

EPICOPTERUS Westwood, 1833 (*Simopterus* Foerster, 1851). Type species: *Epicopterus choreiformis* Westwood, 1833. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 2, Russia – 1.

Epicopterus choreiformis Westwood, 1833 (*Ormocerus borges* Walker, 1839; *Simopterus venustus* Foerster, 1851). Russia: **EP** (NC). – Europe (WE, NE, SE).

EUNOTUS Walker, 1834 (*Tridymus* Ratzeburg, 1852; *Megapelte* Foerster, 1856). Type species: *Eunotus cretaceus* Walker, 1834. The genus is distributed in the Holarctic region. Number of species: World – 17, Palaearctic – 14, Russia – 7.

Eunotus acutus Kurdjumov, 1912. Primary parasitoid of hemipterans from the family Eriococcidae. Russia: without regions (Thompson, 1958). – Europe (WE, SE, EE), China (NC).

Eunotus areolatus (Ratzeburg, 1852) [Tridymus] (*Eunotus subcyaneus* Erdős, 1953). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, China (CC).

Eunotus cretaceus Walker, 1834 (*Eunotus festucae* Masi, 1928). Primary parasitoid of hemipterans from the families Coccidae and Eriococcidae. Russia: **EP** (NW), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, China (NC, NW), N America.

Eunotus kocourekii Bouček, 1972. Russia: **EP** (S). – Europe (EE).

Eunotus obscurus Masi, 1931. Primary parasitoid of hemipterans from the families Coccidae, Kermesidae and Pseudococcidae. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Uzbekistan, Kazakhstan, China (SW).

Eunotus orientalis Chumakova, 1956. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **FE** (PR).

Eunotus parvulus Masi, 1931 (*Eunotus aquisgranensis* Masi, 1931). Primary parasitoid of hemipterans from the family Aphididae. Russia: **FE** (PR). – Europe (WE, NE, EE), China (NC).

SCUTELLISTA Motschulsky, 1859 (*Aspidocoris* Costa, 1863; *Enargopelte* Foerster, 1878; *Eugastropelte* Masi, 1931). Type species: *Scutellista cyanea* Motschulsky, 1859 (= *Encyrtus caeruleus* Fonscolombe, 1832). The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World – 9, Palaearctic – 7, Russia – 2.

Scutellista caerulea (Fonscolombe, 1832) [Encyrtus] (*Scutellista cyanea* Motschulsky, 1859; *Aspidocoris cyaneus* Costa, 1863). Primary parasitoid of hemipterans from

the families Cerococcidae, Coccidae, Diaspididae and Pseudococcidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Lebanon, Israel, China, Japan, India, SE Asia, Afrotropics, S America, Australasia.

Scutellista obscura (Foerster, 1878) [Enargopelte]. Primary parasitoid of hemipterans from the families Coccidae and Eriococcidae. Russia: **WS** (AL). – Europe (WE, SE, EE), Georgia, Iran, Kazakhstan.

Subfamily MISCOGASTRINAE

ARDILEA Graham, 1959. Type species: *Miscogaster convexa* Walker, 1833. Monotypic Palaearctic genus.

Ardilea convexa (Walker, 1833) [Miscogaster] (*Pteromalus pubicornis* Zetterstedt, 1838). Primary parasitoid of hemipterans from the family Aphididae. Russia: **FE** (CH). – Europe (WE, NE), Korean Peninsula.

GLYPHOGNATHUS Graham, 1956 (*Xestognathus* Kamijo, 1960). Type species: *Glyphognathus umbelliferae* Graham, 1956 (= *Stictomischus convexus* Delucchi, 1953). The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 6, Russia – 1.

Glyphognathus sinuatus (Kamijo, 1960) [Xestognathus]. Russia: **FE** (KA). – Japan.

HALTICOPTERA Spinola, 1811 (*Pachylarthrus* Westwood, 1832; *Phagonia* Curtis, 1832; *Dicyclus* Walker, 1833; *Phacostomus* Nees, 1834; *Megorismus* Walker, 1846; *Tityros* Walker, 1848; *Megalorismus* Schulz, 1906; *Halticopterina* Erdős, 1946; *Abyrsomele* Dzhanokmen, 1975). Type species: *Diplolepis flavicornis* Spinola, 1808. The genus is distributed in the Holarctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 85, Palaearctic – 55, Russia – 10.

Halticoptera aenea (Walker, 1833) [Dicyclus] (*Miscogaster cinctipes* Walker, 1833; *M. nigroaenea* Walker, 1833; *Chrysolampus tristis* Nees, 1834; *Pteromalus sophron* Walker, 1839; *Halticoptera petiolata* Thomson, 1876; *Cyrtogaster liqueatus* Ashmead, 1894; *C. citripes* Ashmead, 1896; *C. occidentalis* Ashmead, 1896; *Polycyrtus floridanus* Ashmead, 1896; *P. foersteri* Crawford, 1913). Primary parasitoid of dipterans from the families Agromyzidae, Cecidomyiidae, Chloropidae and Drosophilidae and lepidopterans from the family Lasiocampidae. Russia: **EP** (NC), **FE** (SA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, N America.

Halticoptera circulus (Walker, 1833) [Dicyclus] (*Dicyclus fuscicornis* Walker, 1833; *D. tristis* Walker, 1833; *Pteromalus brevicornis* Zetterstedt, 1838; *P. palpigerus* Zetterstedt, 1838; *Miscogaster daiphron* Walker, 1839; *M. suilius* Walker, 1839; *Pteromalus lapponicus* Dalla Torre, 1898). Primary parasitoid of dipterans from the

families Agromyzidae, Cecidomyiidae, Chloropidae and Opomyzidae. Russia: **EP** (C, NC), **FE** (SA, KA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iraq, Jordan, Iran, Kazakhstan, China, Korean Peninsula, Japan, N America, Afrotropics, S America.

Halticoptera collaris (Walker, 1836) [Pteromalus] (*Halticoptera planiscuta* Thomson, 1876). Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE).

Halticoptera crius (Walker, 1839) [Miscogaster] (*Chrysolampus citritibius* Rondani, 1877). Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, China (NE, NC, NW, SW).

Halticoptera laevigata Thomson, 1876. Primary parasitoid of dipterans from the family Tephritidae. Russia: **EP** (NW). – Europe (WE, NE, EE), Turkey, Kyrgyzstan, Kazakhstan, China (NC).

Halticoptera nobilis (Walker, 1874) [Lamprotatus] (*Pachylarthrus promerus* Walker, 1874). Russia: **FE** (AM, PR).

Halticoptera patellana (Dalman, 1818) [Diplolepis] (*Phagonia flavicornis* Curtis, 1832; *Ph. patellana* Curtis, 1832; *Miscogaster aeratus* Walker, 1839; *Ormocerus pisuthrus* Walker, 1839; *Phacostomus similis* Foerster, 1841). Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae), dipterans from the families Agromyzidae, Cecidomyiidae, Chloropidae, Drosophilidae and Tephritidae and lepidopterans from the family Lyonetiidae. Russia: **EP** (NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, China (NW, WP), Japan, N and S America.

Halticoptera polita (Walker, 1834) [Eutelus] (*Ormocerus mandrocles* Walker, 1839; *Halticoptera festiva* Thomson, 1876). Russia: **EP** (NC). – Europe (WE, NE, EE), Turkey, China (NC).

Halticoptera smaragdina (Curtis, 1832) [Phagonia] (*Pachylarthrus insignis* Westwood, 1832). Primary parasitoid of dipterans from the families Agromyzidae, Drosophilidae and Tephritidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), S America.

Halticoptera violacea Askew, 1972. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **FE** (PR, SA). – Europe (WE, NE).

LAMPROTATUS Westwood, 1833 (*Seladerma* Westwood, 1833; *Skeloceras* Delucchi, 1953; *Octofuniculus* Liao, 1982). Type species: *Lamprotatus splendens* Westwood, 1833. The genus is distributed in the Holarctic, Neotropical and Australasian regions. Number of species: World – 54, Palaearctic – 39, Russia – 1.

Lamprotatus duplicatus (Kamijo, 1960) [Skeloceras]. Russia: **FE** (PR, SA, MG). – Japan.

MERISMUS Walker, 1833 (*Kentema* Delucchi, 1953). Type species: *Merismus rufipes* Walker, 1833. Cosmopolitan. Number of species: World – 10, Palaearctic – 8, Russia – 6.

Merismus bidentatus Kamijo, 1996. Russia: **FE** (SA). – Japan.

- Merismus lasthenes** (Walker, 1848) [Sphegigaster]. Russia: **FE** (KA). – Europe (WE, NE), Kazakhstan.
- Merismus megapterus** Walker, 1833 (*Merismus clavicornis* Walker, 1833; *Miscogaster ovata* Walker, 1833; *Sphegigaster agriope* Walker, 1848). Primary parasitoid of dipterans from the family Agromyzidae and lepidopterans from the family Elachistidae. Russia: **EP** (NW, NC), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, China (NE, NC, CC, SW), Korean Peninsula, N America.
- Merismus nitidus** (Walker, 1833) [Miscogaster]. Primary parasitoid of dipterans from the family Lauxaniidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), China (CC).
- Merismus rufipes** Walker, 1833 (*Chrysolampus riparius* Nees, 1834). Primary parasitoid of dipterans from the family Chloropidae. Russia: **FE** (PR, SA). – Europe (WE, NE, EE), Kazakhstan, N America.
- Merismus splendens** Graham, 1969. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **FE** (PR, SA, KA). – Europe (WE, NE), Japan.
- MISCOGASTER** Walker, 1833. Type species: *Miscogaster hortensis* Walker, 1833. The genus is distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 11, Palaearctic – 8, Russia – 1.
- Miscogaster rufipes** Walker, 1833. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- NEOSKELOCERAS** Kamijo, 1960. Type species: *Neoskeloceras longistriatum* Kamijo, 1960. Monotypic Palaearctic genus.
- Neoskeloceras longistriatum** Kamijo, 1960. Russia: **FE** (SA). – Japan.
- NODISOPLATA** Graham, 1969. Type species: *Lamprotatus diffinis* Walker, 1874. The genus is distributed in the Palaearctic region. Number of species: World, Palaearctic and Russia – 2.
- Nodisoplata diffinis** (Walker, 1874) [Lamprotatus] (*Lamprotatus curvus* Thomson, 1876; *L. amurensis* Dalla Torre, 1898). Russia: **EP** (S), **FE** (AM). – Europe (WE, NE, EE), Kazakhstan.
- Nodisoplata viridipes** (Walker, 1874) [Lamprotatus]. Russia: **FE** (AM).
- RHICNOCOELIA** Graham, 1956. Type species: *Pteromalus constans* Walker, 1836. The genus is distributed in the Holarctic region. Number of species: World – 13, Palaearctic – 11, Russia – 1.
- Rhcnocoelia constans** (Walker, 1836) [Pteromalus] (*Pteromalus cliens* Walker, 1836; *Megorismus chloris* Thomson, 1876). Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, Korean Peninsula, N America.
- SCHIMITSCHEKIA** Bouček, 1965. Type species: *Schimitschekia populi* Bouček, 1965. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 2, Russia – 1.
- Schimitschekia populi** Bouček, 1965. Primary parasitoid of dipterans from the family Agromyzidae and lepidopterans from the families Gracillariidae and Nepticulidae. Russia: **EP** (E). – Europe (WE, NE, EE), Japan.
- SELADERMA** Walker, 1834 (*Isoplata* Foerster, 1856; *Telepsogos* Delucchi, 1955; *Carinoprepectus* Liao, 1982). Type species: *Seladerma laetum* Walker, 1834. The genus is distributed in the Holarctic region. Number of species: World – 47, Palaearctic – 42, Russia – 4.
- Seladerma berani** (Delucchi, 1953) [Lamprotatus]. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC). – Europe (WE, EE).
- Seladerma bicolor** Walker, 1834 (*Seladerma luteolum* Delucchi, 1955). Russia: **FE** (SA). – Europe (WE, NE).
- Seladerma laetum** Walker, 1834 (*Seladerma nobile* Delucchi, 1955; *S. violaceum* Delucchi, 1955). Primary parasitoid of dipterans from the families Agromyzidae and Scathophagidae. Russia: **EP** (C), **FE** (SA). – Europe (WE, NE, SE, EE).
- Seladerma leleji** Tselikh, 2013. Russia: **FE** (SA).
- SPHAERIPALPUS** Foerster, 1841 (*Gitognathus* Thomson, 1876). Type species: *Sphaeripalpus viridis* Foerster, 1841. The genus is distributed in the Palaearctic and Oriental regions. Number of species: World – 10, Palaearctic – 9, Russia – 1.
- Sphaeripalpus fuscipes** (Walker, 1833) [Lamprotatus] (*Lamprotatus babilus* Walker, 1846; *L. rubrius* Walker, 1846). Primary parasitoid of dipterans from the families Agromyzidae, Anthomyiidae and Tephritidae. Russia: **WS** (KM). – Europe (WE, NE, SE, EE).
- STICTOMISCHUS** Thomson, 1876. Type species: *Stictomischus scaposus* Thomson, 1876. The genus is distributed in the Palaearctic, Oriental and Australasian regions. Number of species: World – 31, Palaearctic – 19, Russia – 7.
- Stictomischus apoianus** Kamijo, 1960. Russia: **FE** (PR, SA, KA). – Japan.
- Stictomischus curvatus** Kamijo, 1960. Russia: **FE** (SA). – Japan.
- Stictomischus elongatus** Kamijo, 1960. Russia: **FE** (SA). – Japan.
- Stictomischus japonicus** Kamijo, 1960. Russia: **FE** (SA, KA). – Japan.
- Stictomischus momoi** Kamijo, 1960. Russia: **FE** (SA). – Japan.
- Stictomischus nitentis** Delucchi, 1955 (*Stictomischus lamprosomus* Graham, 1969). Primary parasitoid of dipterans from the family Scathophagidae. Russia: **FE** (SA). – Europe (WE, NE).

Stictomischus scaposus Thomson, 1876. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **FE** (KH, PR, SA). – Europe (WE, NE, EE).

THEKTOGASTER Delucchi, 1955. Type species: *Lamprotatus abdominalis* Delucchi, 1953. The genus is distributed in the Palaearctic and Oriental regions. Number of species: World – 13, Palaearctic – 10, Russia – 1.

Thektogaster chrysis (Foerster, 1861) [Lamprotatus] (*Lamprotatus ungularis* Thomson, 1876). Russia: **FE** (SA). – Europe (WE, NE, EE), Kazakhstan.

THINODYTES Graham, 1956. Type species: *Miscogaster cyzicus* Walker, 1839. The genus is distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 8, Palaearctic and Russia – 2.

Thinodytes cephalon (Walker, 1843) [Gastrancistrus] (*Bubekia fallax* Gahan, 1933). Primary parasitoid of dipterans from the families Cecidomyiidae and Chloropidae. Russia: without regions (Thompson, 1958). – N and S America.

Thinodytes cyzicus (Walker, 1839) [Miscogaster]. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **FE** (SA, KA). – Europe (WE, NE, SE, EE), Turkey, Iraq, Kazakhstan, China, Japan, India.

XESTOMNASTER Delucchi, 1955. Type species: *Lamprotatus mirificus* Delucchi, 1953 (= *Lamprotatus chrysochlorus* Walker, 1846). The genus is distributed in the Palaearctic and Oriental regions. Number of species: World – 6, Palaearctic – 3, Russia – 1.

Xestomnaster chrysochlorus (Walker, 1846) [Lamprotatus] (*Lamprotatus mirificus* Delucchi, 1953; *L. parkeri* Delucchi, 1953; *L. smaragdus* Delucchi, 1953). Primary parasitoid of dipterans from the families Agromyzidae and Tephritidae. Russia: **EP** (NW), **FE** (SA, KA). – Europe (WE, NE, EE).

Subfamily ORMOCERINAE

SEMIOTELLUS Westwood, 1839 (*Semiotus* Walker, 1834; *Stictonotus* Foerster, 1856; *Cheirapachysia* Girault, 1915; *Neosystasis* Girault, 1915). Type species: *Semiotus mundus* Walker, 1834. The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World – 20, Palaearctic – 13, Russia – 4.

Semiotellus longispinus Xiao et Huang, 1999. Russia: **FE** (SA). – China (SE).

Semiotellus mundus (Walker, 1834) [Semiotus] (*Semiotus clarus* Walker, 1834; *S. maerens* Walker, 1834; *S. praestans* Walker, 1834; *S. scoticus* Walker, 1834; *S. tarsalis* Walker, 1834; *S. varians* Walker, 1834; *Pteromalus japis* Walker, 1839; *Semiotus tauriscus* Walker, 1848; *Semiotellus puncticollis* Thomson, 1876). Russia: **EP** (E), **FE** (KA). – Europe (WE, NE, SE, EE), China (CC, WP).

Semiotellus stigmaticus (Walker, 1874) [Semiotus]. Russia: **FE** (AM).

Semiotellus takadai Kamijo, 1977. Russia: **FE** (SA). – Japan.

SYSTASIS Walker, 1834 (*Paruriella* Girault, 1913; *Guieraia* Risbec, 1951). Type species: *Systasis encyrtoides* Walker, 1834. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 59, Palaearctic – 17, Russia – 4.

Systasis encyrtoides Walker, 1834 (*Pteromalus geniculatus* Nees, 1834; *Tridymus punctatus* Ratzeburg, 1852; *Hormocerus impletus* Walker, 1872; *Systasis longicornis* Thomson, 1876). Primary parasitoid of coleopterans from the families Apionidae, Chrysomelidae (Bruchinae) and Curculionidae, dipterans from the families Agromyzidae, Cecidomyiidae and Tephritidae and lepidopterans from the family Tortricidae. Russia: **EP** (C, NC), **FE** (AM, PR, SA, MG). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Israel, Iran, Kazakhstan, China, N America.

Systasis longula Bouček, 1956. Russia: **FE** (PR, KA). – Europe (EE), China.

Systasis parvula Thomson, 1876. Primary parasitoid of coleopterans from the family Cecidomyiidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Israel, Iran, Kazakhstan, China, N America.

Systasis tenuicornis Walker, 1834. Primary parasitoid of coleopterans from the family Chrysomelidae (Bruchinae) and dipterans from the family Cecidomyiidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Kazakhstan, China.

Subfamily PIRENINAE

GASTRANCISTRUS Westwood, 1833 (*Glyphe* Walker, 1834; *Meromalus* Walker, 1834; *Stomoctea* Dufour, 1846; *Tridymus* Ratzeburg, 1848; *Tripedias* Foerster, 1856; *Stigmatocrepis* Ashmead, 1904; *Amuscidea* Girault, 1913; *Isoplatia* Girault, 1913; *Roptroceropseus* Girault, 1913; *Erotolepsiopus* Girault, 1915; *Muscideomyia* Girault, 1915; *Parerotolepsia* Girault, 1915; *Proplesiostigma* Girault, 1915; *Parecrizotes* Girault, 1916; *Parasyntomocera* Girault, 1917; *Isoplatella* Gahan and Fagan, 1923; *Mesecrizotes* De Santis, 1968). Type species: *Gastrancistrus vagans* Westwood, 1833. Cosmopolitan. Number of species: World – 137, Palaearctic – 84, Russia – 6.

Gastrancistrus fulvicornis (Walker, 1874) [Lamprotatus]. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (AM). – Europe (WE).

Gastrancistrus praecox Graham, 1969 (*Semiotus fulvicornis* Walker, 1874). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (AM). – Europe (WE, SE).

Gastrancistrus pusztensis (Erdős, 1946) [Meromalus] (*Gastrancistrus tripedias* Bouček, 1964). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC). – Europe (WE, NE, EE).

Gastrancistrus torymiformis (Ratzeburg, 1852) [Tridymus]. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC). – Europe (WE, NE, EE).

Gastrancistrus vernalis Graham, 1969. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC). – Europe (WE, NE).

Gastrancistrus vulgaris (Walker, 1834) [Tridymus]. Russia: **FE** (CH). – Europe (WE, NE, EE).

SPATHOPUS Ashmead, 1904. Type species: *Spathopus anomalipes* Ashmead, 1904. The genus is distributed in the Holarctic region. Number of species: World – 4, Palaearctic – 3, Russia – 1.

Spathopus hofferi Bouček, 1964. Russia: **UR**. – Europe (NE, EE), Iran, Kazakhstan.

Subfamily PTEROMALINAE

ABLAXIA Delucchi, 1957. Type species: *Etroxys planiscuta* Thomson, 1878. The genus is distributed in the Holarctic and Neotropical regions. Number of species: World – 11, Palaearctic – 8, Russia – 2.

Ablaxia parviclava (Thomson, 1878) [Etroxys]. Primary parasitoid of *Ernobius abietis* F. (Coleoptera: Anobiidae), *Eupoecilia ambiguella* Hbn. and *Lobesia botrana* Den. et Schiff. (Lepidoptera: Tortricidae). Russia: without regions (Thompson, 1958). – Europe (WE, NE, EE), Iran.

Ablaxia temporalis Graham, 1969. Russia: **FE** (PR). – Europe (WE).

ACROCLISOIDES Girault et Dodd, 1915 (*Neocoruna* Huang et Liao, 1988). Type species: *Acroclisoides megacephalus* Girault et Dodd, 1915. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 15, Palaearctic – 3, Russia – 2.

Acroclisoides bicolor Luo et Qin, 1991. Russia: **FE** (PR). – China (NC).

Acroclisoides sinicus (Huang et Liao, 1988) [Neocoruna]. Russia: **FE** (AM, PR). – China (NC, CC).

ACROCORMUS Foerster, 1856. Type species: *Acrocormus semifasciatus* Thomson, 1878. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 5, Russia – 1.

Acrocormus semifasciatus Thomson, 1878. Primary parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Kazakhstan.

ANISOPTEROMALUS Ruschka, 1912 (*Aplastomorpha* Crawford, 1913). Type species: *Anisopteromalus*

mollis Ruschka, 1912 (= *Pteromalus calandrae* Howard, 1881). Cosmopolitan. Number of species: World – 7, Palaearctic and Russia – 2.

Anisopteromalus calandrae (Howard, 1881) [Pteromalus] (*Pteromalus oryzae* Cameron, 1891; *Meraporus vandinei* Tucker, 1910; *Anisopteromalus mollis* Ruschka, 1912; *Aplastomorpha pratti* Crawford, 1913; *Neocatolaccus australiensis* Girault, 1913; *Bruchobius medius* Masi, 1917; *Neocatolaccus mamezophagus* Ishii et Nagasawa, 1942). Primary parasitoid of coleopterans from the families Anobiidae, Anthribidae, Apionidae, Bostrychidae, Chrysomelidae (Bruchinae), Curculionidae, Dermestidae, Dryophthoridae, Nitidulidae, Silvanidae and Tenebrionidae and lepidopterans from the families Gelechiidae and Pyralidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), N Africa, Turkey, Syria, Iraq, Israel, Iran, Pakistan, Kazakhstan, Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.

Anisopteromalus quinarius Gokhman et Baur, 2014. Primary parasitoid of coleopterans *Lasioderma serricorne* F. and *Stegobium paniceum* L. (Anobiidae), *Sitophilus granarius* L. (Curculionidae). Russia: **EP** (C). – N America.

ANOGMUS Foerster, 1856 (*Platythorax* Erdős, 1948). Type species: *Roptrocerus strobilorum* Thomson, 1878. The genus is distributed in the Holarctic region. Number of species: World – 12, Palaearctic – 11, Russia – 5.

Anogmus hohenheimensis (Ratzeburg, 1844) [Pteromalus] (*Platythorax conobius* Erdős, 1948). Primary parasitoid of coleopterans from the families Anobiidae and Ptinidae, dipterans from the family Cecidomyiidae, lepidopterans from the family Tortricidae and hymenopterans from the family Torymidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).

Anogmus hungaricus (Erdős, 1948) [Platythorax]. Primary parasitoid of dipterans *Lestodiplosis coni* Kieff. and *Kaltenbachiola strobi* Winn. (Cecidomyiidae). Russia: **EP** (N, NW, E). – Europe (WE, NE, EE).

Anogmus piceae (Ruschka, 1921) [Eutelus]. Primary parasitoid of dipterans *Kaltenbachiola strobi* Winn. and *Plemeliella abietina* Seitner (Cecidomyiidae). Russia: **EP** (N, NW, E). – Europe (WE, NE, EE).

Anogmus strobilorum (Thomson, 1878) [Roptrocerus]. Primary parasitoid of *Kaltenbachiola strobi* Winn. and *Plemeliella abietina* Seitner (Diptera: Cecidomyiidae), *Megastigmus spermotrophus* Wachtl (Hymenoptera: Torymidae) and *Cydia strobilella* L. (Lepidoptera: Tortricidae). Russia: **EP** (N, NW, E). – Europe (WE, NE, EE), Kazakhstan.

Anogmus vala (Walker, 1839) [Pteromalus] (*Eutelus specularis* Thomson, 1878; *E. strobicola* Ruschka, 1921). Primary parasitoid of dipterans *Kaltenbachiola strobi* Winn. and *Plemeliella abietina* Seitner (Cecidomyiidae), *Cydia strobilella* L. (Lepidoptera: Tortricidae); secondary

- of *Bracon* sp. (Hymenoptera: Braconidae). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).
- APSILOCERA** Bouček, 1956 (*Kratinka* Bouček, 1988; *Bulolosa* Bouček, 1990). Type species: *Apsilocera verticillata* Bouček, 1956. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 19, Palaearctic and Russia – 2.
- Apsilocera bramleyi** Graham, 1966. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, EE), Iran.
- Apsilocera verticillata** Bouček, 1956. Russia: **FE** (PR). – Europe (WE, NE, EE).
- ARTHROLYTUS** Thomson, 1878 (*Anarthrolytus* Graham, 1969; *Anadolytus* Doganlar, 1978). Type species: *Pteromalus punctatus* Thomson, 1878 (= *Pteromalus discoideus* Nees, 1834). The genus is distributed in the Holarctic region. Number of species: World – 21, Palaearctic – 17, Russia – 4.
- Arthrolytus discoideus** (Nees, 1834) [Pteromalus] (*Pteromalus artembares* Walker, 1839; *P. punctatus* Thomson, 1878). Russia: **FE** (SA). – Europe (WE, NE, SE, EE), Turkey.
- Arthrolytus maculipennis** (Walker, 1835) [Pteromalus] (*Holcaeus cecidomyiae* Ashmead, 1897). Primary parasitoid of dipterans *Clinodiplosis cilicrus* Kieff., *Mayetiola avenae* March. and *M. destructor* Say (Cecidomyiidae) and lepidopterans *Elachista juliensis* Frey (Elachistidae). Russia: **EP** (NC), **FE** (SA). – Europe (WE, NE, SE, EE).
- Arthrolytus megaspilus** (Walker, 1874) [Pteromalus]. Russia: **FE** (AM, MG).
- Arthrolytus ocellus** (Walker, 1834) [Eutelus] (*Pteromalus albiscapus* Thomson, 1878). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- CAENACIS** Foerster, 1856 (*Etroxys* Foerster, 1856). Type species: *Etroxys grandiclava* Thomson, 1878. The genus is distributed in the Holarctic and Neotropical regions. Number of species: World – 7, Palaearctic – 5, Russia – 1.
- Caenacis peroni** Kamijo, 1981. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **FE** (SA). – Korean Peninsula, Japan.
- CALLITULA** Spinola, 1811 (*Micromelus* Walker, 1833; *Baeotomus* Foerster, 1856; *Apteroosemoidea* Girault, 1913; *Eurydinotella* Girault, 1913; *Eurydinotelleus* Girault, 1913; *Pseudosphegigasterus* Girault, 1913; *Pterosemoidea* Girault, 1913; *Polycystomyia* Dodd, 1915; *Pseudosphegigasterus* Girault et Dodd, 1915). Type species: *Callitula bicolor* Spinola, 1811. Cosmopolitan. Number of species: World – 38, Palaearctic – 10, Russia – 3.
- Callitula bicolor** Spinola, 1811 (*Micromelus rufomaculatus* Walker, 1833; *Pteromalus plagiatus* Nees, 1834). Primary parasitoid of dipterans from the families Cecidomyiidae, Chloropidae and Opomyzidae; secondary parasitoid of hymenopterans from the family Platygastriidae. Russia: **EP** (NW, C), **WS** (NS), **ES** (IR), **FE** (PR, SA, KA, MG). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Iran, Kazakhstan, China (NC, SW), N America.
- Callitula fulvipes** Kamijo, 1981 Russia: **FE** (PR, SA). – Korean Peninsula, Japan.
- Callitula pyrrhogaster** (Walker, 1833) [Micromelus] (*Pteromalus mutilus* Foerster, 1841). Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the families Cecidomyiidae and Chloropidae and hymenopterans from the family Tenthredinidae. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).
- CAPELLIA** Delucchi, 1958 (*Hylocomus* Graham, 1959). Type species: *Eurydinota rufiventris* Girault, 1920. The genus is distributed in the Holarctic and Neotropical regions. Number of species: World – 6, Palaearctic – 3, Russia – 2.
- Capellia cecidomyiae** (Ratzeburg, 1844) [Pteromalus] (*Metopon magnicornis* Thomson, 1878; *Pseudocatolaccus strandi* Masi, 1911). Primary parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Diprionidae. Russia: **EP** (NW), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Iran, Japan.
- Capellia stigma** Bouček, 1970. Russia: **EP** (NW).
- CATOLACCUS** Thomson, 1878 (*Merisoides* Masi, 1911; *Hortobagya* Szelényi, 1981). Type species: *Pteromalus (Catolaccus) cavigena* Thomson, 1878 (= *Pteromalus ater* Ratzeburg, 1852). The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 9, Palaearctic – 5, Russia – 1.
- Catolaccus ater** (Ratzeburg, 1852) [Pteromalus] (*Pteromalus cavigena* Thomson, 1878). Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the family Cecidomyiidae and lepidopterans from the families Arctiidae, Gelechiidae, Geometridae, Lymntriidae, Noctuidae, Nymphalidae, Pieridae, Tortricidae and Yponomeutidae; secondary parasitoid of hymenopterans from the families Bethyidae, Braconidae and Ichneumonidae. Russia: **EP** (C, S, NC), **FE** (PR, KA, MG). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran, Turkmenistan, Kyrgyzstan, Kazakhstan.
- CHEIROPACHUS** Westwood, 1829 (*Pachychirus* Agassiz, 1848; *Tropidogastra* Ashmead, 1904). Type species: *Ichneumon quadrum* Fabricius, 1787. The genus is distributed in the Holarctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 12, Palaearctic – 8, Russia – 1.
- Cheiopachus quadrum** (Fabricius, 1787) [Ichneumon] (*Pteromalus bimaculatus* Swederus, 1795; *Cheiopachus maculipennis* Curtis, 1827; *Pteromalus bicaliginosus* Ratzeburg, 1844; *P. binaevius* Ratzeburg, 1844; *P. binimbatus*

Ratzeburg, 1844; *P. binubeculatus* Ratzeburg, 1844; *P. fraxini* Ratzeburg, 1844; *Pachychirus intermedia* Foerster, 1856; *Habritus bimaculatus* Brèthes, 1916). Primary parasitoid of coleopterans from the families Bostrychidae, Cerambycidae and Curculionidae (including Scolytinae), lepidopterans from the families Cossidae and Lymantriidae. Russia: **EP** (N, C, E, S, NC), **UR**, **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Lebanon, Israel, Iran, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NE, NC, NW), N America, India, SE Asia, S America.

CHLOROCYTUS Graham, 1956 (*Legolasia* Hedqvist, 1974). Type species: *Pteromalus pulchripes* Walker, 1836 (= *Eutelus planus* Walker, 1834). The genus is distributed in the Holarctic, Oriental and Afrotropical regions. Number of species: World – 37, Palaearctic – 26, Russia – 13.

Chlorocytus breviscapus Graham, 1965. Primary parasitoid of hymenopterans from the family Cephidae. Russia: **FE** (KA). – Europe (WE, NE, EE), Turkey.

Chlorocytus comatus Xiao et Huang, 2000. Russia: **FE** (SA). – China (SW).

Chlorocytus formosus (Walker, 1835) [Pteromalus]. Primary parasitoid of hymenopterans from the family Eurytomidae and secondary parasitoid of Eulophidae. Russia: **FE** (AM). – Europe (WE, NE, SE, EE), China (SE).

Chlorocytus harmolitae Bouček, 1957. Primary parasitoid of hymenopterans from the family Eurytomidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE).

Chlorocytus inchoatus Graham, 1965. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC). – Europe (WE, NE).

Chlorocytus koreanus Kamijo, 1983. Russia: **FE** (SA). – Korean Peninsula.

Chlorocytus phalaridis Graham, 1965. Primary parasitoid of hymenopterans from the family Eurytomidae. Russia: **FE** (SA, KA). – Europe (WE, NE, EE), Turkey, Kazakhstan, China (WP).

Chlorocytus planus (Walker, 1834) [Eutelus] (*Pteromalus pulchripes* Walker, 1836; *P. aglaope* Walker, 1839). Primary parasitoid of hymenopterans from the family Eurytomidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).

Chlorocytus polichna (Walker, 1848) [Trigonoderus] (*Chlorocytus longiscapus* Graham, 1965). Primary parasitoid of coleopterans from the family Curculionidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE), Kazakhstan, China (NE, NC).

Chlorocytus scandolensis Rasplus, 1991. Primary parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (NC). – Europe (WE).

Chlorocytus spicatus (Walker, 1835) [Pteromalus] (*Pteromalus filicornis* Walker, 1835; *P. junceus* Walker, 1835; *P. abila* Walker, 1839; *Etroxys simulans* Thomson, 1878). Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the family Agromyzidae and

lepidopterans from the family Gracillariidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), China (NC).

Chlorocytus tenellus (Walker, 1874) [Heteroxys]. Russia: **FE** (AM).

Chlorocytus terminalis (Walker, 1836) [Pteromalus] (*Pteromalus laogore* Walker, 1839). Russia: **EP** (NC). – Europe (WE, NE).

COELOPISTHIA Foerster, 1856 (*Kranophorus* Graham, 1956). Type species: *Pteromalus extensus* Walker, 1835. The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 18, Palaearctic – 9, Russia – 3.

Coelopisthia caledonica Askew, 1980. Primary parasitoid of lepidopterans from the families Noctuidae and Nymphalidae. Russia: **FE** (PR). – Europe (WE, NE, EE), Turkey, China (NC, SW).

Coelopisthia extenta (Walker, 1835) [Pteromalus] (*Pteromalus catillus* Walker, 1835; *P. rotundiventris* Zetterstedt, 1838; *P. druso* Walker, 1839; *P. breviramulus* Foerster, 1841; *P. multicarinatus* Foerster, 1841). Primary parasitoid of coleopterans from the family Curculionidae, hemipterans from the family Coccidae and lepidopterans from the families Arctiidae, Geometridae, Noctuidae and Tortricidae. Russia: **EP** (C, NC), **WS** (NS), **FE** (AM, KH, PR, KA, MG). – Europe (WE, NE, SE, EE), Azerbaijan, Uzbekistan, Kyrgyzstan, Kazakhstan, N America.

Coelopisthia xinjiashanensis Yang, 1996. Primary parasitoid of coleopterans from the family Curculionidae. Russia: **FE** (KH, SA). – China (NC).

CONOMORIUM Masi, 1924. Type species: *Pteromalus eremita* Foerster, 1841 (= *Pteromalus amplus* Walker, 1835). The genus is distributed in the Holarctic region. Number of species: World – 6, Palaearctic – 5, Russia – 2.

Conomorium amplum (Walker, 1835) [Pteromalus] (*Pteromalus eremita* Foerster, 1841; *P. scopas* Walker, 1849). Primary parasitoid of lepidopterans from the families Arctiidae, Geometridae, Lymantriidae and Notodontidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Uzbekistan, Kazakhstan, China (NE, NW, CC, SW, SE).

Conomorium patulum (Walker, 1835) [Pteromalus] (*Coelopisthia vitripennis* Thomson, 1878). Primary parasitoid of dipterans from the family Anthomyiidae and many families of the order Lepidoptera. Russia: **EP** (S, NC), **WS** (NS), **ES** (YA), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Armenia, Turkey, Iran, Turkmenistan, Kazakhstan, Korean Peninsula, Japan.

CORUNA Walker, 1833 (*Pachycrepis* Foerster, 1856). Type species: *Coruna clavata* Walker, 1833. The genus is distributed in the Holarctic and Oriental regions. Number of species: World, Palaearctic and Russia – 2.

Coruna clavata Walker, 1833 (*Pteromalus aphidivorus* Foerster, 1841; *P. segmentarius* Foerster, 1841; *P. castigator*

- Rondani, 1848; *Gastrancistrus hierocles* Walker, 1848; *Coryna dubia* Buckton, 1879). Primary parasitoid of hemipterans from the family Aphididae; secondary parasitoid of hymenopterans from the families Aphelinidae, Braconidae and Megaspilidae. Russia: **EP** (NC), **WS** (KM, AL), **FE** (AM, KH, KA). – Europe (WE, NE, SE, EE), Kazakhstan, Korean Peninsula, Japan, N America, India.
- Coruna laevis** Kamijo et Takada, 1973. Primary parasitoid of hemipterans from the family Aphididae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **FE** (PR). – Japan.
- CRYPTOPRYMNA** Foerster, 1856 (*Prosodes* Walker, 1833; *Cryptoprymnus* Thomson, 1878; *Polycystelomorpha* Girault, 1915). Type species: *Prosodes ater* Walker, 1833. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 14, Palaearctic – 4, Russia – 2.
- Cryptoprymna atra** (Walker, 1833) [*Prosodes*] (*Chrysolampus lugubris* Nees, 1834; *Cryptoprymna cavigena* Thomson, 1878). Russia: **FE** (SA). – Europe (WE, NE, SE, EE).
- Cryptoprymna pulla** Huang, 1991. Russia: **FE** (PR). – China (SW).
- CYCLOGASTRELLA** Bukovskii, 1938. Type species: *Cyclogastrella quercina* Bukovskii, 1938 (= *Ormocerus simplex* Walker, 1834). The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World – 10, Palaearctic – 7, Russia – 1.
- Cyclogastrella simplex** (Walker, 1834) [*Ormocerus*] (*Pteromalus deplanatus* Nees, 1834; *P. domesticus* Walker, 1835; *P. artemon* Walker, 1839; *P. merope* Walker, 1839; *P. acco* Walker, 1848; *P. androbius* Walker, 1848; *P. phasis* Walker, 1848; *Cyclogastrella quercina* Bukovskii, 1938). Primary parasitoid of lepidopterans from the families Gelechiidae and Tortricidae. Russia: **EP** (NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Uzbekistan, Kazakhstan, N America.
- CYRTOGASTER** Walker, 1833 (*Polycystus* Westwood, 1839; *Dicormus* Foerster, 1841; *Hatia* Risbec, 1955). Type species: *Cyrtogaster rufipes* Walker, 1833 (= *Cyrtogaster vulgaris* Walker, 1833). The genus is distributed in the Holarctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 19, Palaearctic – 8, Russia – 1.
- Cyrtogaster vulgaris** Walker, 1833 (*Cyrtogaster cingulipes* Walker, 1833; *C. rufipes* Walker, 1833; *C. tenuis* Walker, 1833; *C. thoracica* Walker, 1833; *Dicormus aquisgranensis* Foerster, 1841; *Lamprotatus acarnas* Walker, 1848; *Cyrtogaster biglobus* Foerster, 1861; *Sphegigaster degener* Walker, 1872). Primary parasitoid of coleopterans from the family Chrysomelidae (Bruchinae), hymenopterans from the family Cynipidae, lepidopterans from the family Lasiocampidae and many families of Diptera; secondary parasitoid of hymenopterans from the family Eulophidae. Russia: **EP** (N, NW, NC), **UR**, **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Iran, Kazakhstan, N America.
- CYRTOPTYX** Delucchi, 1956. Type species: *Dinarmus robustus* Masi, 1907. The genus is distributed in the Holarctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 11, Palaearctic – 7, Russia – 1.
- Cyrtoptyx pistaciae** (Nikolskaya, 1935) [Dinarmus]. Primary parasitoid of *Megastigmus pistaciae* Walk. (Hymenoptera: Torymidae). Russia: **EP** (CR).
- DIBRACHOIDES** Kurdjumov, 1913. Type species: *Pteromalus dynastes* Foerster, 1841. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 3, Russia – 1.
- Dibrachoides dynastes** (Foerster, 1841) [Pteromalus] (*Pteromalus transversus* Foerster, 1841; *P. acutus* Thomson, 1878). Primary parasitoid of coleopterans from the family Curculionidae and hemipterans from the family Car-sidaridae. Russia: **EP** (S), **UR**. – Europe (WE, NE, SE, EE), N Africa, Turkey, Iran, Kyrgyzstan, Kazakhstan, N America.
- DIBRACHYS** Foerster, 1856 (*Coelopisthoidea* Gahan, 1913). Type species: *Pteromalus boucheanus* Ratzeburg, 1844 (= *Diplolepis microgastri* Bouché, 1834). Cosmopolitan. Number of species: World – 23, Palaearctic – 16, Russia – 3.
- Dibrachys affinis** Masi, 1907. Primary parasitoid of dipterans from the family Calliphoridae and lepidopterans from the families Gelechiidae, Lymantriidae, Sesiidae, Tortricidae and Yponomeutidae. Russia: **EP** (CR). – Europe (WE, SE, EE), N Africa, Turkey, Iran, N America.
- Dibrachys microgastri** (Bouché, 1834) [Diplolepis] (*Pteromalus microgasteris* Nees, 1834; *P. cavus* Walker, 1835; *P. decedens* Walker, 1835; *P. perversus* Walker, 1835; *P. albinervis* Ratzeburg, 1844; *P. boucheanus* Ratzeburg, 1844; *P. tenuis* Ratzeburg, 1844; *P. zelleri* Ratzeburg, 1848; *P. vesparum* Ratzeburg, 1852; *Cleonymus clisio-campae* Fitch, 1856; *Pteromalus boarmiae* Walker, 1863; *Cheiopachys nigrocyaneus* Norton, 1869; *Eupelmus cereanus* Rondani, 1876; *Pteromalus gelechiae* Webster, 1883; *P. chionobae* Howard, 1889; *Arthrolytus apatellae* Ashmead, 1893; *A. pimplae* Ashmead, 1894; *Trichomalus trujilloi* Blanchard, 1938; *Tritneptis elegans* Szelenyi, 1981). Primary parasitoid of many insect species from the orders Coleoptera, Dermaptera, Diptera, Hemiptera, Hymenoptera, Lepidoptera and Neuroptera and spiders from the families of Araneidae and Thomisidae; secondary parasitoid of hymenopterans from the families Eulophidae and Pteromalidae. Russia: **EP** (NW, C, S,

- NC), **UR**, **WS** (NS), **FE** (KH, KA, MG). – Europe (WE, NE, SE, EE), N Africa, Turkey, Syria, Iran, Afghanistan, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NE, NC, CC), Korean Peninsula, Japan (Hok, Hon), N America, India, SE Asia, Afrotropics, S America, Australasia.
- Dibrachys hians** Bouček, 1965. Primary parasitoid of lepidopterans from the family Pyralidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Uzbekistan.
- DICONOCARA** Dzhanokmen, 1986. Type species: *Diconocara petiolata* Dzhanokmen, 1986. Monotypic Palaearctic genus.
- Diconocara petiolata** Dzhanokmen, 1986. Russia: **FE** (AM, KH, PR). – Korean Peninsula.
- DIGLOCHIS** Foerster, 1856 (*Trichoglenus* Thomson, 1878). Type species: *Pteromalus complanatus* Ratzeburg, 1844 (= *Pteromalus sylvicola* Walker, 1835). The genus is distributed in the Holarctic region. Number of species: World – 5, Palaearctic – 4, Russia – 1.
- Diglochis sylvicola** (Walker, 1835) [*Pteromalus*] (*Pteromalus complanatus* Ratzeburg, 1844; *Diglochis hybomitri* Dzhanokmen, 1979). Primary parasitoid of dipterans from the family Tabanidae and lepidopterans from the families Lymantriidae and Noctuidae. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (IR, YA), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Kazakhstan.
- DINARMUS** Thomson, 1878 (*Cyrtotypx* Thomson, 1878; *Bruchobius* Ashmead, 1904; *Metastenoidea* Girault, 1915; *Oedaule* Waterston, 1922; *Sphaerakis* Masi, 1924). Type species: *Dimachus acutus* Thomson, 1878. Cosmopolitan. Number of species: World – 21, Palaearctic – 6, Russia – 2.
- Dinarmus acutus** (Thomson, 1878) [*Dimachus*] (*Pteromalus robustus* Walker, 1847; *P. kollari* Dalla Torre, 1898; *Sphaerakis mayri* Masi, 1924; *Bruchobius arachnephaga* Risbec, 1951; *Dinarmus bifoveolatus* Delucchi, 1956). Primary parasitoid of coleopterans from the family Chrysomelidae (Bruchinae) and hemipterans from the family Coccidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iraq, Israel, Iran, Kazakhstan, N America, India, Afrotropics.
- Dinarmus basalis** (Rondani, 1877) [*Entedon*] (*Bruchobius laticeps* Ashmead, 1904; *Scymnophagus latithorax* Risbec, 1951; *Dinotus seyrigi* Risbec, 1952). Primary parasitoid of coleopterans from the families Apionidae, Brentidae, Chrysomelidae (Bruchinae) and Dermestidae. Russia: **EP** (NW, E, NC), **FE** (KH). – Europe (WE, SE, EE), N Africa, Israel, Iran, Pakistan, Kazakhstan, N America, India, SE Asia, Afrotropics, S America.
- DINOTISCUS** Ghesquière, 1946 (*Dinotus* Foerster, 1856). Type species: *Dinotus bidentulus* Thomson, 1878.
- The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 16, Palaearctic – 14, Russia – 3.
- Dinotiscus aponius** (Walker, 1848) [Heteroxys] (*Pteromalus capitatus* Ratzeburg, 1844; *Dinotus bidentulus* Thomson, 1878). Primary parasitoid of coleopterans from the families Curculionidae (including Scolytinae); secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (NW, C, E, NC), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Armenia, China (NE, NC), Japan.
- Dinotiscus colon** (Linnaeus, 1758) [Sphex]. Primary parasitoid of coleopterans from the families Anobiidae, Bostrychidae, Cerambycidae and Curculionidae (including Scolytinae). Russia: **EP** (N, E, S), **UR**, **WS** (NS), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, China (NE), N America, SE Asia, S America.
- Dinotiscus eupterus** (Walker, 1836) [*Pteromalus*] (*Pteromalus dimidiatus* Walker, 1836; *P. capitatus* Foerster, 1841; *P. lanceolatus* Ratzeburg, 1848; *Dinotus clypealis* Thomson, 1878; *Cecidostiba polygraphi* Ashmead, 1894; *C. ashmeadi* Crawford, 1912; *Uriella pityogenis* Ishii, 1938). Primary parasitoid of coleopterans from the family Curculionidae (including Scolytinae); secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (N, NW, C), **WS** (NS), **ES** (KR), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), Armenia, Turkey, Kazakhstan, China (NE, CC), Japan, S America, Australasia.
- DIRHICNUS** Thomson, 1878 (*Metopon* Thomson, 1878). Type species: *Metopon (Dirhicnus) subcoeruleus* Thomson, 1878. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 1.
- Dirhicnus ramealis** (Nees, 1834) [*Pteromalus*] (*Pteromalus gonatas* Walker, 1839; *P. pirus* Walker, 1839; *P. sisenna* Walker, 1839; *P. toxicrate* Walker, 1839; *P. insidiator* Foerster, 1841; *P. separatus* Foerster, 1841; *P. bubaris* Walker, 1845; *P. nestocles* Walker, 1845; *P. gallonius* Walker, 1848; *Metopon subcoeruleus* Thomson, 1878). Primary parasitoid of coleopterans from the family Curculionidae. Russia: **ES** (TU). – Europe (WE, NE, SE, EE).
- ERDOESIA** Bouček, 1957. Type species: *Erdoesia tessellata* Bouček, 1957. Monotypic Palaearctic genus.
- Erdoesia tessellata** Bouček, 1957. Russia: **EP** (NC). – Europe (WE, SE, EE).
- ERDOESINA** Graham, 1957. Type species: *Pteromalus alboannulatus* Ratzeburg, 1852. The genus is distributed in the Palaearctic region. Number of species: World, Palaearctic and Russia – 2.
- Erdoesina alboannulata** (Ratzeburg, 1852) [*Pteromalus*]. Primary parasitoid of lepidopterans from the families Geometridae, Noctuidae, Pyralidae, Sphingidae and

- Tortricidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the family Ichneumonidae. Russia: **EP** (C), **WS** (AL). – Europe (WE, EE), Azerbaijan, Turkey, Uzbekistan, Kazakhstan.
- Erdoesina boarmiae** Bouček, 1967. Primary parasitoid of lepidopterans from the family Geometridae. Russia: **EP** (C), **WS** (TK), **FE** (PR).
- ERYTHROMALUS** Graham, 1956. Type species: *Pteromalus nubilipennis* Walker, 1835. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 1.
- Erythromalus rufiventris** (Walker, 1835) [Pteromalus] (*Pteromalus empoclus* Walker, 1839). Russia: **EP** (C, NC). – Europe (WE, SE, EE).
- EULONCHETRON** Graham, 1966 (*Lonchetrion* Graham, 1966). Type species: *Etroxys torymoides* Thomson, 1878. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 3, Russia – 1.
- Eulonchetrion torymoides** (Thomson, 1878) [Etroxys] (*Habrocytus canadensis* Girault, 1917; *H. giraulti* Peck, 1951; *Lonchetrion scalprum* Askew, 1962). Primary parasitoid of hymenopterans from the family Tenthredinidae. Russia: **FE** (KH, MG). – Europe (WE, NE, SE, EE), N America.
- EUNEURA** Walker, 1844 (*Hypsicamara* Foerster, 1856; *Gygaxia* Delucchi, 1955). Type species: *Euneura augarus* Walker, 1844. The genus is distributed in the Holarctic, Oriental and Afrotropical regions. Number of species: World – 5, Palaearctic – 4, Russia – 2.
- Euneura lachni** (Ashmead, 1887) [Pachycrepis] (*Pachyneuron nawai* Ashmead, 1904; *P. nazeeri* Mani, 1939; *Euneura laeviuscula* Graham, 1969). Primary parasitoid of dipterans from the family Syrphidae, hemipterans from the families Aleyrodidae and Aphididae and lepidopterans from the family Lasiocampidae; secondary parasitoid of hymenopterans from the families Braconidae and Trichogrammatidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE), Iran, Pakistan, Kyrgyzstan, China, Korean Peninsula, Japan, N America, India.
- Euneura sopolis** (Walker, 1844) [Miscogaster] (*Hypsicamara ratzeburgi* Reinhard, 1859). Primary parasitoid of hemipterans from the family Aphididae; secondary parasitoid of hymenopterans from the families Braconidae. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE), Korean Peninsula, Japan.
- EURYDNOTA** Foerster, 1878 (*Demetriotes* Dzhanokmen, 1986). Type species: *Eurydinota leptomera* Foerster, 1878. The genus is distributed in the Palaearctic regions. Number of species: World, Palaearctic and Russia – 2.
- Eurydinota leptomera** Foerster, 1878. Russia: **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Iran.
- Eurydinota kasparyani** (Dzhanokmen, 1986) [Demetriotes]. Russia: **FE** (KH, PR, SA).
- EURYDINOTOMORPHA** Girault, 1913 (*Asoka* Bouček, 1973). Type species: *Eurydinotomorpha pax* Girault, 1913. The genus is distributed in the Palaearctic, Oriental and Australasian regions. Number of species: World – 12, Palaearctic and Russia – 1.
- Eurydinotomorpha sichotana** (Dzhanokmen, 1986) [Asoka]. Russia: **FE** (PR).
- GASTRACANTHUS** Westwood, 1833 (*Hetroxys* Westwood, 1833; *Photismus* Thomson, 1878; *Heteroxys* Dalla Torre, 1898; *Hebestephus* Kamijo, 1960; *Cleoblabena* Szélnyi, 1981). Type species: *Gastracanthus pulcherrimus* Westwood, 1833. The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 8, Palaearctic – 5, Russia – 3.
- Gastracanthus acutus** (Kamijo, 1960) [Hebestephus]. Russia: **FE** (AM, PR, SA, KA). – Korean Peninsula, Japan.
- Gastracanthus nigrescens** Kamijo, 1960. Russia: **FE** (PR). – Korean Peninsula, Japan.
- Gastracanthus pulcherrimus** Westwood, 1833 (*Pteromalus macromerus* Walker, 1836; *Trigonoderus elegans* Walker, 1836; *Cleonymus transversus* Foerster, 1841; *Photismus nubilosus* Thomson, 1878; *Cleoblabena gracilis* Szélnyi, 1981). Primary parasitoid of coleopterans from the families Buprestidae and Byrrhidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Iran.
- GOLOVISSIMA** Dzhanokmen, 1982. Type species: *Golovissima emeljanovi* Dzhanokmen, 1982. Monotypic Palaearctic genus.
- Golovissima emeljanovi** Dzhanokmen, 1982. Primary parasitoid of hemipterans from the family Acanthosomatidae. Russia: **FE** (AM, PR).
- GYRINOPHAGUS** Ruschka, 1914. Type species: *Gyrinophagus luteipes* Ruschka, 1914. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 3, Russia – 1.
- Gyrinophagus aper** (Walker, 1839) [Pteromalus] (*Isocyrtus marginatus* Thomson, 1878). Primary parasitoid of neuropterans from the family Sisyridae. Russia: **ES** (YA). – Europe (WE, NE, EE), N America.
- HABRITUS** Thomson, 1878 (*Dimachus* Thomson, 1878). Type species: *Pteromalus brevicornis* Ratzeburg, 1844. The genus is distributed in the Holarctic region. Number of species: World – 3, Palaearctic – 2, Russia – 1.
- Habritys brevicornis** (Ratzeburg, 1844) [Pteromalus] (*Pteromalus pannewitzii* Ratzeburg, 1852). Russia: **FE** (SA, KA). – Europe (WE, NE, SE, EE), Kazakhstan, N America.

- HEMITRICHUS** Thomson, 1878 (*Uriella* Ashmead, 1896). Type species: *Dimachus (Hemitrichus) rufipes* Thomson, 1878 (= *Pteromalus seniculus* Nees, 1834). The genus is distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 5, Palaearctic – 4, Russia – 1.
- Hemitrichus sugonjaevi** Tselikh, 2015. Russia: **FE** (PR).
- HETEROPRYMNA** Graham, 1956. Type species: *Pteromalus longicornis* Walker, 1835. Monotypic Palaearctic genus.
- Heteroprymna longicornis** (Walker, 1835) [Pteromalus] (*Pteromalus camma* Walker, 1848). Russia: **FE** (KA). – Europe (WE, NE, SE, EE).
- HOBBYA** Delucchi, 1957. Type species: *Pteromalus stenonotus* Ratzeburg, 1848. Monotypic Palaearctic genus.
- Hobbya stenonota** (Ratzeburg, 1848) [Pteromalus] (*Etroxys collaris* Thomson, 1878; *Hobbya kollari* Askew, 1959). Parasitoid of hymenopterans from the families Cynipidae and Torymidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, Jordan, Iran.
- HOLCAEUS** Thomson, 1878 (*Cricellius* Thomson, 1878; *Dibrachella* Bouček, 1954). Type species: *Etroxys dichrous* Thomson, 1878 (= *Pteromalus gorgasus* Walker, 1839). The genus is distributed in the Holarctic region. Number of species: World – 21, Palaearctic – 20, Russia – 4.
- Holcaeus compressus** (Walker, 1836) [Pteromalus] (*Pteromalus fuscescens* Walker, 1836; *P. hyrtacus* Walker, 1848; *Etroxys elongatus* Thomson, 1878). Russia: **ES** (IR), **FE** (CH). – Europe (WE, NE, SE, EE).
- Holcaeus stenogaster** (Walker, 1836) [Pteromalus] (*Etroxys longicauda* Thomson, 1878). Russia: **EP** (C), **FE** (PR, KA). – Europe (WE, NE, SE), Kazakhstan.
- Holcaeus stylatus** Graham, 1969. Russia: **EP** (C), **WS** (AL), **FE** (PR, SA, KA). – Europe (WE, NE, EE).
- Holcaeus varro** (Walker, 1840) [Pteromalus]. Russia: **FE** (SA). – Europe (NE, SE, EE).
- HOMOPORUS** Thomson, 1878 (*Phaenacra* Foerster, 1878; *Parapteromalus* Ashmead, 1904; *Merisoporus* Masi, 1924). Type species: *Pteromalus fulviventris* Walker, 1835. Cosmopolitan. Number of species: World – 63, Palaearctic – 49, Russia – 11.
- Homoporus apharetus** (Walker, 1839) [Pteromalus] (*Merisus flaviscapus* Thomson, 1878). Primary parasitoid of hymenopterans from the family Eurytomidae. Russia: **EP** (NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Kyrgyzstan, Kazakhstan, China (NC).
- Homoporus arestor** (Walker, 1848) [Pteromalus] (*Merisus chlorogaster* Thomson, 1878). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Kyrgyzstan, Kazakhstan, China (NC).
- Homoporus cognatus** (Gahan, 1933) [Merisus]. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: without regions (Thompson, 1958). – N America.
- Homoporus crassiceps** (Thomson, 1878) [Merisus]. Primary parasitoid of lepidopterans from the family Zygaenidae. Russia: without regions (Thompson, 1958). – Europe (NE).
- Homoporus destructor** (Say, 1817) [Ceraphron] (*Merisus intermedius* Lindeman, 1887). Primary parasitoid of dipterans from the families Cecidomyiidae and Chloropidae, hymenopterans from the family Cephidae and lepidopterans from the family Lymantriidae; secondary parasitoid of hymenopterans from the families Eurytomidae and Platygastriidae. Russia: **EP** (NW, C, S, NC), **WS** (AL). – Europe (WE, NE, SE, EE), N Africa, China (NC), N America, SE Asia.
- Homoporus febriculosus** (Girault, 1917) [Merisus] (*Homoporus filicornis* Erdős, 1953; *H. templarius* Erdős, 1970). Primary parasitoid of dipterans from the families Agromyzidae, Cecidomyiidae and Chloropidae, hymenopterans from the families Cephidae and Eurytomidae; secondary parasitoid of hymenopterans from the families Braconidae, Eupelmidae and Platygastriidae. Russia: **EP** (NC), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, N America.
- Homoporus fulviventris** (Walker, 1835) [Pteromalus] (*Pteromalus bicolor* Foerster, 1841; *P. bicoloratus* Dalla Torre, 1898; *Homoporus clavicornis* Erdős, 1953). Primary parasitoid of hymenopterans from the families Cynipidae and Eurytomidae; secondary parasitoid of hymenopterans from the family Eupelmidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, China (NC, NW).
- Homoporus japonicus** Ashmead, 1904. Primary parasitoid of hymenopterans from the family Eurytomidae. Russia: **FE** (PR). – China (NC, CC, SW, SE), Japan.
- Homoporus luniger** (Nees, 1834) [Pteromalus] (*Pteromalus tricolor* Walker, 1835; *P. zonaras* Walker, 1839; *Phaenacra nubigera* Foerster, 1878). Primary parasitoid of dipterans from the family Cecidomyiidae, hymenopterans from the family Eurytomidae and lepidopterans from the family Elachistidae. Russia: **EP** (NC), **WS** (TM, AL). – Europe (WE, NE, SE, EE), Kazakhstan, China (CC, SE).
- Homoporus mordellistenae** (Crawford, 1910) [Merisus]. Primary parasitoid of coleopterans from the family Mordellidae, dipterans from the family Cecidomyiidae and hymenopterans from the family Eurytomidae. Russia: without regions (Thompson, 1958). – N America.
- Homoporus nypsius** (Walker, 1839) [Pteromalus] (*Semiotellus chalcidiphagus* Walsh et Riley, 1869; *Merisus crassinervis* Thomson, 1878). Russia: **EP** (C), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Kazakhstan, N America, Australasia.
- ISOCYRTUS** Walker, 1833 (*Kodysia* Bouček, 1954). Type species: *Isocyrus laetus* Walker, 1833. The genus is

distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 2.

Isocyrthus laetus Walker, 1833 (*Chrysolampus contractus* Nees, 1834; *Kodysia tibialis* Bouček, 1954). Primary parasitoid of dipterans from the family Agromyzidae. Russia: **FE** (KA). – Europe (WE, NE, SE, EE).

Isocyrthus reticulatus Xiao et Huang, 2002. Russia: **FE** (SA). – China (NC).

JANSSONIELLA Kerrich, 1957. Type species: *Janssoniella caudata* Kerrich, 1957. The genus is distributed in the Holarctic region. Number of species: World – 8, Palaearctic – 7, Russia – 3.

Janssoniella ambigua Graham, 1969. Russia: **FE** (SA). – Europe (WE, NE, SE, EE).

Janssoniella caudata Kerrich, 1957. Primary parasitoid of coleopterans from the family Ciidae. Russia: **FE** (PR, SA). – Europe (WE, NE, EE), N America.

Janssoniella magna Tselikh et Lee, 2017. Russia: **FE** (PR). – Korean Peninsula.

LARIOPHAGUS Crawford, 1909 (*Uriellomyia* Girault, 1915). Type species: *Lariophagus texanus* Crawford, 1909. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 11, Palaearctic – 7, Russia – 3.

Lariophagus distinguendus (Foerster, 1841) [Pteromalus] (*Pteromalus calamis* Walker, 1849; *P. oryzinus* Rondani, 1877; *Meraporus utilis* Tucker, 1910; *Uriellomyia resoluta* Girault, 1915; *Nasonia miltoni* Girault, 1929). Primary parasitoid of coleopterans from the families Anobiidae, Bostrychidae, Chrysomelidae (Bruchinae), Curculionidae, Dryophthoridae, Ptinidae and Tenebrionidae and dipterans from the family Cecidomyiidae; secondary parasitoid of hymenopterans from the families Braconidae, Ichneumonidae and Pteromalidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), N Africa, Turkey, Lebanon, Israel, Kazakhstan, China (SE), Korean Peninsula, Japan, N America, India, SE Asia, S America, Australasia.

Lariophagus kuwayamai Kamijo, 1981. Russia: **FE** (SA). – Japan.

Lariophagus obtusus Kamijo, 1981. Primary parasitoid of coleopterans from the family Ptinidae. Russia: **FE** (PR). – Japan.

LYUBANA Bouček, 1991. Type species: *Lyubana slavica* Bouček, 1991. The genus is distributed in the Palaearctic and Oriental regions. Number of species: World – 5, Palaearctic and Russia – 2.

Lyubana liaoi Xiao et Huang, 1997. Russia: **FE** (PR). – China (CC).

Lyubana longa Xiao et Huang, 1997. Russia: **FE** (PR). – China (SE).

MERAPORUS Walker, 1834 (*Parmicromelus* Girault, 1917). Type species: *Meraporus graminicola* Walker, 1834. The genus is distributed in the Holarctic, Neotropical and Australasian regions. Number of species: World – 10, Palaearctic – 7, Russia – 2.

Meraporus crassicornis Kurdjumov, 1914. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (C, NC). – Europe (EE).

Meraporus graminicola Walker, 1834 (*Amblymerus hebes* Walker, 1834; *A. iners* Walker, 1834; *A. modestus* Walker, 1834; *A. temperatus* Walker, 1834; *Pteromalus tenuiscapus* Foerster, 1841; *P. allutius* Walker, 1848; *P. gigon* Walker, 1848; *P. myle* Walker, 1848; *P. micropterus* Foerster, 1861; *P. pulex* Foerster, 1861). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa.

MERISUS Walker, 1834. Type species: *Merisus splendidus* Walker, 1834. The genus is distributed in the Holarctic region. Number of species: World – 4, Palaearctic – 2, Russia – 1.

Merisus flagellatus Bouček, 1965. Primary parasitoid of hymenopterans from the family Eurytomidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan.

MESOPOLOBUS Westwood, 1833 (*Platymesopus* Westwood, 1833; *Amblymerus* Walker, 1834; *Eutelus* Walker, 1834; *Platyterma* Walker, 1834; *Caenocrepis* Foerster, 1856; *Xenocrepis* Foerster, 1856; *Pteromalodes* Dahlbom, 1857; *Selitrachus* Rondani, 1877; *Asemantus* Foerster, 1878; *Disema* Foerster, 1878; *Syntomocera* Foerster, 1878; *Urielloides* Girault, 1913; *Zacalochlora* Crawford, 1913; *Paranogmus* Girault et Dodd, 1915; *Baeoponerus* Masi, 1924; *Euamblymerus* Hincks, 1944; *Disemisca* Ghesquière, 1946; *Syntomocerella* Ghesquière, 1946; *Ahlbergiella* Rosen, 1955; *Sturovia* Bouček, 1961; *Isopterynea* Szélenyi, 1982). Type species: *Mesopolobus fasciventris* Westwood, 1833. Cosmopolitan. Number of species: World – 133, Palaearctic – 104, Russia – 14.

Mesopolobus bruchophagi (Gahan, 1917) [Eutelus]. Primary parasitoid of coleopterans from the families Chrysomelidae (Bruchinae) and Curculionidae, dipterans from the families Muscidae and Sarcophagidae and hymenopterans from the families Apidae and Eurytomidae; secondary parasitoid of hymenopterans from the family Ichneumonidae. Russia: without regions (Peck, 1963). – N America.

Mesopolobus diffinis (Walker, 1834) [Eutelus] (*Amblymerus fulvipes* Walker, 1834; *A. latus* Walker, 1834; *A. linearis* Walker, 1834; *A. pusillus* Walker, 1834; *A. stenomerus* Walker, 1834; *Eutelus pygmaeus* Walker, 1834; *E. vagans* Walker, 1834; *Pteromalus pygmaeus* Walker, 1834; *P. exilis* Walker, 1836; *P. leuce* Walker, 1848; *Mesopolobus auditor* Dzhankmen, 1975). Primary parasitoid of dipterans from the family Cecidomyiidae and lepidopterans from

the family Yponomeutidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Turkmenistan, Kazakhstan.

Mesopolobus dubius (Walker, 1834) [Amblymerus] (*Amblymerus fulvipennis* Walker, 1834; *A. ruralis* Walker, 1834; *A. trossulus* Walker, 1834; *A. truncatellus* Walker, 1834; *A. validus* Walker, 1834; *Eutelus signatus* Walker, 1834; *Pteromalus ovatus* Nees, 1834; *P. pinguis* Walker, 1835; *Cinips luteicornis* Fonscolombe, 1840). Primary parasitoid of hymenopterans from the family Cynipidae and lepidopterans from the family Tortricidae. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), Turkey.

Mesopolobus fasciventris Westwood, 1833 (*Eutelus flavipes* Walker, 1834; *E. fulvicornis* Walker, 1834; *Pteromalus fasciculatus* Foerster, 1841; *P. saxeseni* Ratzeburg, 1844; *P. trochilus* Ratzeburg, 1844). Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the family Syrphidae and hymenopterans from the family Cynipidae; secondary parasitoid of hymenopterans from the families Eulophidae, Eurytomidae, Pteromalidae and Torymidae. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), N America.

Mesopolobus graminum (Hardh, 1950) [Amblymerus]. Primary parasitoid of hemipterans from the family Delphacidae and hymenopterans from the family Cynipidae and Eurytomidae; secondary parasitoid of hymenopterans from the families Eulophidae, Eurytomidae and Pteromalidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.

Mesopolobus incultus (Walker, 1834) [Platyterma] (*Amblymerus stupidus* Walker, 1834; *Platyterma femorale* Walker, 1834; *Pteromalus ergias* Walker, 1839; *P. leodocus* Walker, 1839; *P. amyntor* Walker, 1845; *P. urgo* Walker, 1845; *P. belesis* Walker, 1848; *P. berecynthos* Walker, 1848; *P. lissos* Walker, 1848; *P. clavicornis* Walker, 1874). Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the families Agromyzidae and Cecidomyiidae and hymenopterans from the family Eurytomidae; secondary parasitoid of hymenopterans from the family Pteromalidae. Russia: **EP** (NC), **FE** (AM). – Europe (WE, NE, SE, EE), N Africa, Turkey, Syria, N America, Australasia.

Mesopolobus laticornis (Walker, 1834) [Platyterma]. Primary parasitoid of dipterans from the family Chloropidae. Russia: **EP** (C, E). – Europe (WE, NE, SE, EE), Turkey.

Mesopolobus mayetioidae (Gahan, 1919) [Eutelus]. Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the family Cecidomyiidae and hymenopterans from the family Eurytomidae. Russia: without regions (Thompson, 1958). – N America.

Mesopolobus mediterraneus (Mayr, 1903) [Eutelus]. Primary parasitoid of coleopterans from the families Apionidae, Chrysomelidae (Bruchinae) and Curculionidae, dipterans from the family Cecidomyiidae, hemipterans from the family Pseudococcidae, hymenopterans from the family Cynipidae and lepidopterans from the families

Coleophoridae, Gelechiidae, Tortricidae and Yponomeutidae; secondary parasitoid of hymenopterans from the families Braconidae and Pteromalidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey.

Mesopolobus nobilis (Walker, 1834) [Platyterma] (*Platyterma decorum* Walker, 1834). Primary parasitoid of coleopterans from the family Apionidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, China (NE, NC, NW, CC, SW, WP, SE), N America, Australasia.

Mesopolobus subfumatus (Ratzeburg, 1852) [Pteromalus] (*Eutelus punctiger* Thomson, 1878; *Platyterma ecksteini* Wolff, 1916; *Pteromalus matsukemushii* Matsumura, 1926; *Eutelus tabatae* Ishii, 1938). Primary parasitoid of hymenopterans from the families Diprionidae and Pamphiliidae, lepidopterans from the families Coleophoridae, Gracillariidae, Lasiocampidae and Tortricidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Braconidae, Ichneumonidae and Scelionidae. Russia: **EP** (C), **WS** (TK, AL), **ES** (TU, KR, IR), **FE** (SA, KA). – Europe (WE, NE, SE, EE), China (NE, NC, SW), Japan, N America.

Mesopolobus teliformis (Walker, 1834) [Platyterma] (*Platyterma cincticorne* Walker, 1834; *Pteromalus placidus* Foerster, 1841; *Eutelus brevicornis* Thomson, 1878; *Pteromalus suavis* Dalla Torre, 1898). Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (NC), **FE** (KH, SA, KA). – Europe (WE, NE, SE, EE), Turkey, Afghanistan, Kazakhstan, China (NC, NW, CC, SW, WP, SE).

Mesopolobus tibialis (Westwood, 1833) [Platymesopus] (*Eutelus bicolor* Walker, 1834; *E. platycerus* Walker, 1834; *E. platynotus* Walker, 1834; *E. sobrinus* Walker, 1834; *Pteromalus anticus* Walker, 1836; *P. rusticus* Foerster, 1841; *P. sodalis* Foerster, 1841; *Platymesopus westwoodii* Ratzeburg, 1844; *P. apicalis* Westwood, 1882; *Pteromalus rusticanus* Dalla Torre, 1898; *Eutelus caconymus* Schulz, 1906). Primary parasitoid of dipterans from the family Cecidomyiidae, hymenopterans from the family Cynipidae and lepidopterans from the family Tortricidae; secondary parasitoid of hymenopterans from the families Eulophidae and Pteromalidae. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), N Africa, Turkey, China (NC, WP, SE).

Mesopolobus typographi (Ruschka, 1924) [Eutelus]. Primary parasitoid of coleopterans from the family Curculionidae; secondary parasitoid of hymenopterans from the family Pteromalidae. Russia: **EP** (N, NW), **UR**, **ES** (TU). – Europe (WE, NE, SE, EE), Afghanistan, China (NC, NW, WP, CC).

METACOLUS Foerster, 1856 (*Pterosema* Foerster, 1878). Type species: *Metacolus unifasciatus* Foerster, 1856. The genus is distributed in the Holarctic, Oriental and Afrotropical regions. Number of species: World – 6, Palearctic – 5, Russia – 2.

- Metacolus azureus** (Ratzeburg, 1844) [Pteromalus] (*Pterosema varicolor* Foerster, 1878; *Metacolus aulloi* Mercet, 1926). Primary parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (N, C, NC), **UR**, **WS** (NS). – Europe (WE, NE, SE, EE), Israel, Iran, Afghanistan, Kazakhstan.
- Metacolus unifasciatus** Foerster, 1856 (*Zapachia beelsoni* Mani et Kaul, 1973). Primary parasitoid of coleopterans from the families Cerambycidae and Curculionidae. Russia: **EP** (N, NW, C, E, NC), **WS** (NS), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Armenia, Israel, Iran, Uzbekistan, Kazakhstan, China (NE), India, Afrotropics.
- METASTENUS** Walker, 1834 (*Scymnophagus* Ashmead, 1904; *Tripolycystus* Dodd, 1915). Type species: *Metastenus concinnus* Walker, 1834. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 5, Palaearctic – 3, Russia – 1.
- Metastenus concinnus** Walker, 1834 (*Scymnophagus mesnili* Ferrière, 1954). Primary parasitoid of coleopterans from the family Coccinellidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Iran, Kazakhstan, India, S America.
- MOKRZECKIA** Mokrzecki, 1934 (*Beierina* Delucchi, 1958). Type species: *Pteromalus pini* Hartig, 1838. The genus is distributed in the Palaearctic and Oriental regions. Number of species: World – 7, Palaearctic – 4, Russia – 3.
- Mokrzeckia abietis** Kamijo, 1982. Primary parasitoid of lepidopterans from the family Tortricidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **FE** (PR). – Japan.
- Mokrzeckia lazoensis** Tselikh, 2012. Russia: **FE** (PR).
- Mokrzeckia pini** (Hartig, 1838) [Pteromalus] (*Pteromalus halidayanus* Ratzeburg, 1848; *Schizonotus pailloti* Ferrière et Faure, 1925). Primary parasitoid of hymenopterans from the family Tenthredinidae and lepidopterans from the families Lasiocampidae, Lymantriidae, Notodontidae, Pieridae, Sphingidae and Tortricidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (NC), **WS** (TK, AL), **FE** (PR, KA). – Europe (WE, SE, EE), China (NE), Korean Peninsula, Japan, N America.
- MUSCIDIFURAX** Girault et Sanders, 1910 (*Smeagolia* Hedqvist, 1973). Type species: *Muscidifurax raptor* Girault et Sanders, 1910. Cosmopolitan. Number of species: World – 6, Palaearctic – 2, Russia – 1.
- Muscidifurax raptor** Girault et Sanders, 1910 (*Smeagolia perplexa* Hedqvist, 1973). Primary parasitoid of dipterans from the families Anthomyiidae, Calliphoridae, Muscidae, Sarcophagidae, Sepsidae, Syrphidae and Tephritidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Israel, Uzbekistan, Kyrgyzstan, Kazakhstan, China, Korean Peninsula, N America, Afrotropics, S America, Australasia.
- NASONIA** Ashmead, 1904 (*Mormoniella* Ashmead, 1904). Type species: *Nasonia brevicornis* Ashmead, 1904 (= *Pteromalus vitripennis* Walker, 1836). Cosmopolitan. Number of species: World – 4, Palaearctic and Russia – 1.
- Nasonia vitripennis** (Walker, 1836) [Pteromalus] (*Pteromalus muscarum* Hartig, 1838; *P. abnormis* Boheman, 1858; *Dicyclus pallinervosus* Walker, 1872; *Stictonotus insuetus* Walker, 1872; *Dicyclus pallidinervosus* Dalla Torre, 1898; *Mormoniella brevicornis* Ashmead, 1904; *Platymesopus erasquinii* Brèthes, 1913). Primary parasitoid of many insect species from the orders Coleoptera, Dermaptera, Dictyoptera, Diptera, Hemiptera, Hymenoptera and Lepidoptera; secondary parasitoid of hymenopterans from the families Braconidae, Aphelinidae, Encyrtidae, Figitidae and Megaspilidae. Russia: **EP** (NW, C, S, NC), **WS** (TK), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Iran, Pakistan, Kyrgyzstan, Kazakhstan, China, Korean Peninsula, Japan, N America, India, S America.
- NAZGULIA** Hedqvist, 1973. Type species: *Nazgulia petiolata* Hedqvist, 1973. Monotypic Palaearctic genus.
- Nazgulia petiolata** Hedqvist, 1973. Russia: **FE** (SA). – Europe (NE).
- NORBANUS** Walker, 1843 (*Arthrolysis* Foerster, 1856; *Picroscytus* Thomson, 1878; *Stylophorella* Ashmead, 1904; *Amicromelus* Girault, 1913; *Apirene* Girault, 1914; *Epicaudonia* Girault, 1914; *Neocaudonia* Girault et Dodd, 1915; *Picroscytoides* Masi, 1922). Type species: *Norbanus dysaules* Walker, 1843. Cosmopolitan. Number of species: World – 61, Palaearctic – 13, Russia – 4.
- Norbanus cerasiops** (Masi, 1922) [Picroscytoides]. Primary parasitoid of Coleopterans from the family Curculionidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (S, NC). – Europe (WE, SE, EE), N Africa, Turkey, Iran, Kazakhstan, China (SE).
- Norbanus meridionalis** (Masi, 1922) [Picroscytus]. Primary parasitoid of hymenopterans from the family Cephidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Kazakhstan.
- Norbanus obscurus** (Masi, 1922) [Picroscytoides] (*Picroscytoides erdoesi* Szélnyi, 1974). Primary parasitoid of hymenopterans from the family Cephidae. Russia: **EP** (S, NC). – Europe (WE, SE, EE), Azerbaijan, Turkey, Syria, Iran, Kazakhstan, Afrotropics.
- Norbanus scabriculus** (Nees, 1834) [Pteromalus]. Primary parasitoid of Coleopterans from the families Cerambycidae and Curculionidae and hymenopterans from the families Cephidae and Tenthredinidae. Russia: **EP** (NC), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Azerbaijan, Iran, Kazakhstan, N America.

NOTOGLYPTUS Masi, 1917. Type species: *Noto-glyptus niger* Masi, 1917 (= *Merismus scutellaris* Dodd et Girault, 1915). Cosmopolitan. Number of species: World – 5, Palaearctic and Russia – 1.

Notoglyptus scutellaris (Dodd et Girault, 1915) [*Merismus*] (*Notoglyptus niger* Masi, 1917; *N. virescens* Masi, 1917). Russia: **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Kazakhstan, China (NC, NW, CC, SE), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, Australasia.

NOVITZKYANUS Bouček, 1961. Type species: *Novitzkyanus cryptogaster* Bouček, 1961. Monotypic Palaearctic genus.

Novitzkyanus cryptogaster Bouček, 1961. Primary parasitoid of dipterans from the family Sarcophagidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Kazakhstan.

OXYSYCHUS Delucchi, 1956. Type species: *Dinarmus silvestrii* Masi, 1922. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 30, Palaearctic – 14, Russia – 3.

Oxysychus mori Yang, 1996. Primary parasitoid of Coleopterans from the family Curculionidae (including Scolytinae). Russia: **FE** (PR). – China (NC).

Oxysychus nupserhae (Dutt et Ferrière, 1961) [*Neocatolacus*]. Primary parasitoid of coleopterans from the family Cerambycidae. Russia: **FE** (KA). – China (SW), India.

Oxysychus scolysi Yang, 1996. Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae). Russia: **FE** (PR). – China (NC).

PACHYCREPOIDEUS Ashmead, 1904 (*Toxeumopsis* Girault, 1915; *Anisopteromalina* Bouček, 1954). Type species: *Pachycrepoideus dubius* Ashmead, 1904 (= *Pteromalus vindemmiae* Rondani, 1875). Cosmopolitan. Number of species: World – 4, Palaearctic and Russia – 1.

Pachycrepoideus vindemmiae (Rondani, 1875) [*Pteromalus*] (*Pachycrepoideus dubius* Ashmead, 1904; *Toxeumella dissimilis* Girault et Dodd, 1915; *Toxeumopsis nigra* Girault, 1915; *Pterosemoidea drosophilae* Dodd, 1917; *Anisopteromalina crassinervis* Bouček, 1954; *Pachycrepoideus elongata* Delucchi, 1955). Primary parasitoid of many families of Diptera, hymenopterans from the family Apidae and lepidopterans from the families Bombycidae and Pyralidae; secondary parasitoid of dipterans from the families Sarcophagidae and Tachinidae and many families of Hymenoptera. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.

PACHYNEURON Walker, 1833 (*Serimus* Brèthes, 1913; *Nepachyneuron* Girault, 1917; *Propachyneuron* Girault,

1917; *Eupachyneuron* Blanchard, 1948; *Atrichoptilus* Delucchi, 1955). Type species: *Pachyneuron formosum* Walker, 1833. Cosmopolitan. Number of species: World – 60, Palaearctic – 40, Russia – 14.

Pachyneuron albutius Walker, 1843 (*Spalangia syrphi* Ashmead, 1881; *Pachyneuron allograptae* Ashmead, 1887). Primary parasitoid of coleopterans from the family Coccinellidae, dipterans from the family Syrphidae, hemipterans from the families Aphididae and Psyllidae and lepidopterans from the families Pterophoridae and Tortricidae; secondary parasitoid of hymenopterans from the family Ichneumonidae. Russia: without regions (Thompson, 1958). – N and S America.

Pachyneuron aphidis (Bouché, 1834) [*Diplolepis*] (*Pteromalus minutissimus* Foerster, 1841; *Pachyneuron pruni* Walker, 1850; *Encyrtus siphonophorae* Ashmead, 1886; *Pachyneuron aphidivora* Ashmead, 1887; *P. maidaphidis* Ashmead, 1888; *P. micans* Howard, 1890; *P. gifuen-sis* Ashmead, 1904; *Serimus argentinus* Brèthes, 1913; *Pachyneuron ferrierei* Mani, 1939; *P. lali* Mani, 1939; *Eupachyneuron bosqi* Blanchard, 1948; *Pachyneuron triarticulata* Mani et Saraswat, 1974). Primary parasitoid of coleopterans from the family Coccinellidae, dipterans from the families Agromyzidae, Cecidomyiidae and Syrphidae, hemipterans from the families Aphididae, Coccidae, Kermesidae, Pseudococcidae and Psyllidae, hymenopterans from the family Cynipidae and lepidopterans from the families Gelechiidae and Tortricidae; secondary parasitoid of hymenopterans from the families Aphelinidae, Braconidae, Charipidae, Encyrtidae, Figitidae and Scelionidae. Russia: **EP** (C, NC), **WS** (NS, KM). – Europe (WE, NE, SE, EE), N Africa, Armenia, Turkey, Syria, Iraq, Jordan, Israel, Iran, Pakistan, Turkmenistan, Tajikistan, Kyrgyzstan, Kazakhstan, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan, N America, India, Afrotropics, S America, Australasia.

Pachyneuron coccorum (Linnaeus, 1758) [*Ichneumon*]. Primary parasitoid of coleopterans from the family Coccinellidae, dipterans from the families Chamaemyiidae and Cryptochetidae, hemipterans from the families Adelgidae, Aphididae, Coccidae, Diaspididae, Eriococcidae, Kermesidae, Margarodidae, Pseudococcidae and Psyllidae; secondary parasitoid of hymenopterans from the families Aphelinidae, Encyrtidae and Eulophidae. Russia: without regions (Thompson, 1958). – Europe (WE, NE, SE, EE), N Africa, Israel, Turkmenistan.

Pachyneuron flavipes (Foerster, 1841) [*Pteromalus*] (*Chrysolampus syrphi* Ratzeburg, 1848). Primary parasitoid of coleopterans from the family Buprestidae and dipterans from the family Syrphidae. Russia: without regions (Thompson, 1958). – Europe (WE, EE).

Pachyneuron formosum Walker, 1833 (*Pteromalus amoenus* Foerster, 1841; *P. incubator* Foerster, 1841). Primary parasitoid of dipterans from the family Syrphidae,

hemipterans from the families Aphididae and Pseudococcidae and lepidopterans from the families Lasiocampidae and Pieridae; secondary parasitoid of hymenopterans from the family Ichneumonidae. Russia: **EP** (S, NC), **WS** (NS). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iran, Tajikistan, Kyrgyzstan, Kazakhstan, China (NE, NC, NW, CC, SW, WP, SE), Japan.

Pachyneuron gibbiscuta Thomson, 1878. Primary parasitoid of hemipterans from the family Aphididae and secondary parasitoid of hymenopterans from the family Braconidae. Russia: **FE** (KH). – Europe (WE, NE, EE), Turkey, China (NE, NC, SE).

Pachyneuron grande Thomson, 1878. Primary parasitoid of dipterans from the families Chamaemyiidae and Syrphidae, hemipterans from the family Pseudococcidae and lepidopterans from the families Pieridae and Tortricidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Iran, Kyrgyzstan, Kazakhstan, China (NC, NW, SW, SE).

Pachyneuron groenlandicum (Holmgren, 1872) [Pteromalus] (*Pachyneura mitsukurii* Ashmead, 1904; *P. karnalensis* Mani, 1939; *P. coeruleum* Delucchi, 1955; *P. umbratum* Delucchi, 1955; *P. bakrotus* Mani et Saraswat, 1974). Primary parasitoid of dipterans from the families Chloropidae, Psilidae and Syrphidae, hemipterans from the families Aphididae and Coccidae, lepidopterans from the families Lasiocampidae, Noctuidae and Pieridae and neuropterans from the family Hemerobiidae. Russia: **EP** (NC), **WS** (NS), **FE** (AM, PR, SA, KA, MG). – Europe (WE, NE, SE, EE), Turkey, Iran, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan, N America, India.

Pachyneuron leucopiscida Mani, 1939 (*Pachyneuron cremifaniae* Delucchi, 1953). Primary parasitoid of dipterans from the families Chamaemyiidae and Drosophilidae, hemipterans from the families Aphididae and Pseudococcidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, Kyrgyzstan, Kazakhstan, India.

Pachyneuron muscarum (Linnaeus, 1758) [Ichneumon] (*Pteromalus concolor* Foerster, 1841; *Pachyneuron psyllaephaga* Mani, 1939; *P. siculum* Delucchi, 1955). Primary parasitoid of coleopterans from the families Coccinellidae and Curculionidae, dipterans from the families Agromyzidae, Cecidomyiidae and Chloropidae, hemipterans from the families Aphididae, Coccidae, Diaspididae, Eriococcidae, Kermesidae, Pseudococcidae and Psyllidae, hymenopterans from the family Pamphiliidae and lepidopterans from the families Lasiocampidae, Tortricidae and Yponomeutidae; secondary parasitoid of hymenopterans from the families Aphelinidae, Braconidae, Encyrtidae, Eulophidae and Trichogrammatidae. Russia: **EP** (N, NW, NC, CR), **WS** (TK, AL), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Israel, Iran, Kazakhstan, China (NC), India, SE Asia.

Pachyneuron nelsoni Girault, 1928 (*Pachyneuron aeneus* Masi, 1929; *P. deccanensis* Mani, Saraswat, 1974; *P. kama-thi* Mani et Saraswat, 1974). Primary parasitoid of dipterans from the family Syrphidae and hemipterans from the family Aphididae. Russia: **EP** (S). – Europe (SE, EE), N Africa, Azerbaijan, Turkey, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NC), India, Afrotropics, Australasia.

Pachyneuron planiscuta Thomson, 1878. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC). – Europe (WE, NE, EE), Iran, Kazakhstan, China (NC, NW, CC).

Pachyneuron solitarium (Hartig, 1838) [Chrysolampus]. Primary parasitoid of coleopterans from the family Coccinellidae, dipterans from the family Asilidae, hemipterans from the families Aphididae, Coccidae, Pseudococcidae and Psyllidae and lepidopterans from the families Lasiocampidae and Lymantriidae; secondary parasitoid of hymenopterans from the families Aphelinidae, Braconidae, Encyrtidae and Scelionidae. Russia: **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan, India.

Pachyneuron syrphicola Ashmead, 1887 (*Pachyneuron syrphi* Ashmead, 1886). Primary parasitoid of dipterans from the family Syrphidae. Russia: without regions (Peck, 1963). – N and S America.

PANSTENON Walker, 1846 (*Caudonia* Walker, 1850). Type species: *Miscogaster oxylus* Walker, 1839. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 14, Palaearctic – 2, Russia – 1.

Panstenon oxylus (Walker, 1839) [Miscogaster] (*Pteromalus assimilis* Nees, 1834; *P. omissus* Walker, 1841; *Panstenon pidius* Walker, 1850). Russia: **WS** (AL), **FE** (PR, SA, KA). – China (NE, NC, SW, SE), Korean Peninsula, Japan.

PARACAROTOMUS Ashmead, 1894 (*Stirogenium* Dzhanokmen, 1984). Type species: *Paracaratomus cephalotes* Ashmead, 1894. Monotypic genus distributed in the Holarctic, Oriental, Afrotropical and Australasian regions.

Paracarotomus cephalotes Ashmead, 1894 (*Stirogenium asiaticum* Dzhanokmen, 1984). Primary parasitoid of dipterans from the family Syrphidae. Russia: **WS** (AL), **ES** (IR), **FE** (AM, PR, SA). – Europe (WE, SE), Iran, Kazakhstan, N America, India, Afrotropics, Australasia.

PERIDESMIA Foerster, 1856. Type species: *Isocyrtus aquisgranensis* Mayr, 1903 (= *Pteromalus congruus* Walker, 1835). The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 4, Russia – 2.

Peridesmia congrua (Walker, 1835) [Pteromalus] (*Pteromalus lucilla* Walker, 1839; *P. claripennis* Foerster,

- 1841; *P. otos* Walker, 1848). Russia: **FE** (PR). – Europe (WE, NE, EE).
- Peridesmia discus** (Walker, 1835) [Pteromalus] (*Pteromalus subquadratus* Walker, 1836; *P. phyllus* Walker, 1839; *Peridesmia phytonomi* Gahan, 1923). Primary parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (S). – Europe (WE, NE, SE, EE), N Africa, Georgia, Kazakhstan, N America.
- PERNIPHORA** Ruschka, 1923. Type species: *Perniphora robusta* Ruschka, 1923. The genus is distributed in the Holarctic region. Number of species: World – 2, Palaearctic and Russia – 1.
- Perniphora robusta** Ruschka, 1923. Primary parasitoid of coleopterans from the families Curculionidae (Scolytinae) and Lymexylidae; secondary parasitoid of hymenopterans from the family Eurytomidae. Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- PHAENOCYTUS** Graham, 1969. Type species: *Pteromalus glechomae* Foerster, 1841. Monotypic Palaearctic genus.
- Phaenocytus glechomae** (Foerster, 1841) [Pteromalus] (*Phaenocytus heptapotamicus* Dzhankmen, 1990). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **UR**. – Europe (WE, NE, SE, EE), Iran, Kazakhstan.
- PLATYGERRHUS** Thomson, 1878. Type species: *Platygerrhus gracilis* Thomson, 1878 (= *Trigonoderus affinis* Walker, 1836). The genus is distributed in the Holarctic region. Number of species: World – 16, Palaearctic – 12, Russia – 4.
- Platygerrhus affinis** (Walker, 1836) [Trigonoderus] (*Trigonoderus amabilis* Walker, 1836; *Pteromalus gravenhorstii* Ratzeburg, 1852; *Platygerrhus gracilis* Thomson, 1878). Primary parasitoid of coleopterans from the families Anobiidae, Cerambycidae and Curculionidae (Scolytinae) and dipterans from the family Agromyzidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).
- Platygerrhus nephrolepisi** Yang, 1996. Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae). Russia: **FE** (PR). – China (NE).
- Platygerrhus piceae** Yang, 1996. Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae). Russia: **FE** (PR). – China (NE).
- Platygerrhus scutellatus** Yang, 1996. Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae). Russia: **FE** (PR). – China (NC).
- PLUTOTHRIX** Foerster, 1856 (*Anoglyphis* Foerster, 1878). Type species: *Plutothrix foersteri* Mayr, 1904 (= *Trigonoderus trifasciata* Thomson, 1878). The genus is distributed in the Holarctic region. Number of species: World – 28, Palaearctic – 17, Russia – 10.
- Plutothrix acuminata** (Thomson, 1878) [Trigonoderus] (*Plutothrix cisae* Hedqvist, 1966). Primary parasitoid of coleopterans from the family Ciidae and dipterans from the family Platypezidae. Russia: **EP** (C), **FE** (SA). – Europe (WE, NE, SE, EE), N America.
- Plutothrix bicolorata** (Spinola, 1808) [Diplolepis] (*Pteromalus invenustus* Walker, 1836; *P. praepileus* Walker, 1836; *P. scenicus* Walker, 1836; *Trigonoderus apicalis* Thomson, 1878; *T. vittiger* Thomson, 1878). Primary parasitoid of coleopterans from the family Anobiidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Plutothrix coelius** (Walker, 1839) [Pteromalus] (*Pteromalus eleuthera* Walker, 1848; *Anoglyphis nubilosa* Foerster, 1878; *Pteromalus britannicus* Morley, 1910). Primary parasitoid of coleopterans from the families Anobiidae and Curculionidae (Scolytinae) and hymenopterans from the family Cynipidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Plutothrix kuboii** Kamijo, 2004. Russia: **FE** (KA). – Japan.
- Plutothrix kusigematii** Kamijo, 2004. Russia: **FE** (AM, SA). – Japan.
- Plutothrix narendrani** Kamijo, 2004. Russia: **FE** (SA). – Japan.
- Plutothrix pilicoxa** Graham, 1993. Russia: **EP** (NC). – Europe (WE).
- Plutothrix rugosa** Kamijo, 2004. Russia: **FE** (PR). – Japan.
- Plutothrix scrobicula** Kamijo, 2004. Russia: **FE** (PR). – Korean Peninsula, Japan.
- Plutothrix trifasciata** (Thomson, 1878) [Trigonoderus] (*Plutothrix foersteri* Mayr, 1904). Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, Korean Peninsula.
- PSEUDOCATOLACCUS** Masi, 1908 (*Paradibrachys* Girault, 1917). Type species: *Pseudocatolaccus asphondyliae* Masi, 1908 (= *Amblymerus nitescens* Walker, 1834). The genus is distributed in the Holarctic, Oriental and Afrotropical regions. Number of species: World – 14, Palaearctic – 8, Russia – 2.
- Pseudocatolaccus nitescens** (Walker, 1834) [Amblymerus] (*Pteromalus thoracicus* Walker, 1835; *P. bebryce* Walker, 1839; *P. elymus* Walker, 1839; *P. euryops* Foerster, 1841; *P. polyphagus* Foerster, 1841; *P. validus* Foerster, 1841; *Pseudocatolaccus asphondyliae* Masi, 1908; *P. amegallus* Dzhankmen, 1989). Primary parasitoid of coleopterans from the families Chrysomelidae (Bruchinae) and Curculionidae and dipterans from the family Cecidomyiidae. Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE), N Africa, Turkey, Kazakhstan.
- Pseudocatolaccus sayatamabae** Ishii, 1950. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (PR). – Japan.
- PSILOCERA** Walker, 1833 (*Metopon* Walker, 1834; *Eupsilocera* Westwood, 1839; *Metopum* Agassiz, 1848; *Dichalysis*

- Foerster, 1856; *Lophocomodia* Ashmead, 1888; *Acanthometopon* Ashmead, 1904; *Polycystoides* Girault, 1913; *Parapolycystus* Girault et Dodd, 1915). Type species: *Psilocera obscura* Walker, 1833. Cosmopolitan. Number of species: World – 32, Palaearctic – 11, Russia – 5.
- Psilocera concolor** (Thomson, 1878) [Metopon]. Primary parasitoid of dipterans from the family Tephritidae. Russia: **FE** (PR). – Europe (NE, SE, EE).
- Psilocera crassispina** (Thomson, 1878) [Metopon] (*Pteromalus curtus* Zetterstedt, 1838; *P. curtulus* Dalla Torre, 1898). Russia: **EP** (C), **FE** (AM, KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Kazakhstan.
- Psilocera nicaeensis** (Dalla Torre, 1898) [Pteromalus] (*Pteromalus obumbratus* Walker, 1874). Russia: **FE** (AM).
- Psilocera obscura** Walker, 1833 (*Metopon atrum* Walker, 1834). Secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (E, NC), **ES** (IR), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Psilocera punctifrons** (Thomson, 1878) [Metopon]. Russia: **FE** (PR, SA). – Europe (WE, NE, EE), Kazakhstan.
- PSILONOTUS** Walker, 1834 (*Janvartsovia* Nikolskaya, 1954). Type species: *Pilonotus adamas* Walker, 1834. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 3, Russia – 2.
- Psilonotus achaeus** Walker, 1848 (*Eutelus viridulus* Thomson, 1878; *E. betulae* Girault, 1917). Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, N America.
- Psilonotus adamas** Walker, 1834 (*Pilonotus catuli* Foerster, 1856; *Eutelus aureolus* Thomson, 1878; *Janvartsovia betulae* Nikolskaya, 1954). Primary parasitoid of dipterans from the family Cecidomyiidae and hemipterans from the family Lygaeidae. Russia: **EP** (NW), **WS** (AL). – Europe (WE, NE, EE), Turkey, Kazakhstan.
- PSYCHOPHAGUS** Mayr, 1904 (*Diglochis* Thomson, 1878). Type species: *Pteromalus omnivorus* Walker, 1835. Monotypic Holarctic genus.
- Psychophagus omnivorus** (Walker, 1835) [Pteromalus] (*Pteromalus processionae* Ratzeburg, 1844; *P. rotundatus* Ratzeburg, 1844; *P. antorides* Walker, 1845; *P. coeruleocephalae* Ratzeburg, 1852; *P. chrysorrhoeae* Dalla Torre, 1898). Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae), hymenopterans from the families Diprionidae, Pamphiliidae and Tenthredinidae and many families of Lepidoptera; secondary parasitoid of dipterans from the families Sarcophagidae and Tachinidae and hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (C, S, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Iran, N America.
- PTEROMALUS** Swederus, 1795 (*Colas* Curtis, 1827; *Gnathocurtis*, 1829; *Metopachia* Westwood, 1839; *Habrocytus* Thomson, 1878; *Metopopachia* Dalla Torre, 1898; *Heterolaccus* Masi, 1937; *Gerontidella* Szelenyi, 1982). Type species: *Ichneumon puparum* Linnaeus, 1835. Cosmopolitan. Number of species: World – 504, Palaearctic – 407, Russia – 28.
- Pteromalus albidovenosus** Walker, 1874. Russia: **FE** (AM).
- Pteromalus albipennis** Walker, 1835 (*Pteromalus coeruleus* Dalman, 1820; *P. cingulipes* Walker, 1835; *P. plenus* Walker, 1835; *P. albipennis* Zetterstedt, 1838; *P. zelus* Walker, 1839; *P. caeno* Walker, 1848; *P. diomedon* Walker, 1848; *P. orthagus* Walker, 1848; *P. priansos* Walker, 1848; *Etroxys beryllinus* Thomson, 1878). Primary parasitoid of dipterans from the family Tephritidae. Russia: **EP** (NW, NC), **FE** (AM, PR, SA, KA). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, Kazakhstan.
- Pteromalus apantelophagus** (Crawford, 1910) [Hypoptermalus]. Primary parasitoid of hymenopterans from the family Cynipidae and lepidopterans from the families Lasiocampidae, Lymantriidae and Tortricidae; secondary parasitoid of hymenopterans from the families Braconidae and Ichneumonidae. Russia: **FE** (SA). – Japan.
- Pteromalus apum** (Retzius, 1783) [Ichneumon] (*Pteromalus venustus* Walker, 1835; *P. planiscuta* Thomson, 1878). Primary parasitoid of dipterans from the family Chloropidae, hymenopterans from the family Apidae and lepidopterans from the families Arctiidae, Nymphalidae and Pieridae. Russia: **EP** (C, E, NC), **WS** (OM, AL). – Europe (WE, NE, SE, EE), Turkey, N and S America.
- Pteromalus bedeguaris** (Thomson, 1878) [Etroxys]. Primary parasitoid of hymenopterans from the family Cynipidae; secondary parasitoid of hymenopterans from the families Ichneumonidae and Torymidae. Russia: **EP** (S, NC). – Europe (WE, NE, SE, EE), Turkey, Iran, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, N America.
- Pteromalus berylli** Walker, 1835 (*Pteromalus ariomedes* Walker, 1839). Primary parasitoid of dipterans from the family Tephritidae, hymenopterans from the family Cynipidae and lepidopterans from the family Tortricidae. Russia: **EP** (C), **FE** (PR, SA). – Europe (WE, NE, EE).
- Pteromalus bifoveolatus** Foerster, 1861 (*Pteromalus saturniae* Rudow, 1886; *Heterolaccus mauritanus* Masi, 1937). Primary parasitoid of lepidopterans from the families Lasiocampidae, Lymantriidae, Notodontidae and Saturniidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iran, Kazakhstan.
- Pteromalus cardui** (Erdős, 1953) [Cecidostiba]. Primary parasitoid of dipterans from the family Tephritidae and hymenopterans from the family Cynipidae. Russia: **FE** (AM, PR, SA, KA). – Europe (WE, NE, SE, EE), Kazakhstan.
- Pteromalus cerealellae** (Ashmead, 1902) [Catolaccus]. Primary parasitoid of coleopterans from the families Anobiidae, Bostrychidae, Chrysomelidae (Bruchinae), Curculionidae and Dryophthoridae and lepidopterans

from the family Gelechiidae. Russia: **EP** (NC). – Europe (EE), N and S America.

Pteromalus chrysos Walker, 1836 (*Pteromalus inclusus* Walker, 1836; *P. telon* Walker, 1839; *P. zipaetes* Walker, 1839; *P. eucerus* Ratzeburg, 1848; *Etroxys acutigena* Thomson, 1878; *Hypopteromalus poecilopus* Crawford, 1910). Primary parasitoid of coleopterans from the family Chrysomelidae, dipterans from the family Tephritidae, hymenopterans from the families Diprionidae and Tenthredinidae and many families of Lepidoptera; secondary parasitoid of hymenopterans from the families Bethyridae, Braconidae, Ichneumonidae, Encyrtidae and Torymidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Turkey, Kazakhstan.

Pteromalus cioni (Thomson, 1878) [Etroxys]. Primary parasitoid of coleopterans from the family Curculionidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE), Kazakhstan.

Pteromalus crassinervis (Thomson, 1878) [Etroxys]. Primary parasitoid of coleopterans from the family Curculionidae and lepidopterans from the family Pyralidae. Russia: without regions (Thompson, 1958). – Europe (WE, NE, EE), Uzbekistan.

Pteromalus cyniphidis (Linnaeus, 1758) [Ichneumon] (*Cynips capreae* Linnaeus, 1761). Primary parasitoid of coleopterans from the family Curculionidae and hymenopterans from the families Cynipidae, Eurytomidae and Tenthredinidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, N America.

Pteromalus dispar (Curtis, 1827) [Colas] (*Diplolepis braconidis* Bouché, 1834; *Pteromalus larvarum* Nees, 1834; *P. basalis* Walker, 1835; *P. mesochlorus* Walker, 1835; *P. cabarnos* Walker, 1839; *P. saravus* Walker, 1845; *P. jovanensis* Ratzeburg, 1848; *Etroxys radialis* Thomson, 1878). Primary parasitoid of coleopterans from the family Curculionidae and lepidopterans from the families Coleophoridae, Noctuidae, Pieridae, Pyralidae and Zygaenidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (C, NC), **FE** (MG). – Europe (WE, NE, SE, EE), Pakistan, Kazakhstan.

Pteromalus elevatus (Walker, 1834) [Eutelus] (*Pteromalus boreus* Walker, 1839; *P. ceropasades* Walker, 1839; *P. deucetius* Walker, 1839; *Etroxys dentifer* Thomson, 1878). Primary parasitoid of dipterans from the family Tephritidae, hymenopterans from the families Cynipidae and Eurytomidae and lepidopterans from the family Pieridae; secondary parasitoid of hymenopterans from the family Eulophidae. Russia: **EP** (NW, C), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Iran, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, N America.

Pteromalus microgastris (Kurdjumov, 1912) [Habrocytus]. Primary parasitoid of coleopterans from the family Curculionidae and lepidopterans from the families Noctuidae and Pieridae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (C). – Europe (SE, EE).

Pteromalus musaeus Walker, 1844 (*Pteromalus tarsatus* Zetterstedt, 1838, nom. praeocc., nec Nees, 1834; *Etroxys trypetae* Thomson, 1878). Primary parasitoid of dipterans from the family Tephritidae and lepidopterans from the family Gelechiidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).

Pteromalus neobscurus Özdikmen, 2011 (*Etroxys obscurus* Thomson, 1878, nom. praeocc., nec *Pteromalus obscurus* Nees, 1834). Primary parasitoid of dipterans from the family Calliphoridae and lepidopterans from the families Oecophoridae and Tortricidae; secondary parasitoid of hymenopterans from the family Chalcididae. Russia: without regions (Thompson, 1958). – Europe (WE, EE), Kazakhstan.

Pteromalus ochrocerus (Thomson, 1878) [Etroxys] (*Pteromalus ovatus* Walker, 1835, nom. praeocc., nec Nees, 1834; *P. ovatulus* Dalla Torre, 1898). Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the family Tephritidae and hymenopterans from the family Cynipidae. Russia: without regions (Thompson, 1958). – Europe (WE, NE, EE).

Pteromalus platyphilus Walker, 1874 (*Pteromalus amplus* Walker, 1836; *Catolaccus pappi* Szelenyi, 1982). Primary parasitoid of hemipterans from the family Aphididae and Araneae from the family Dictynidae. Russia: **FE** (AM). – Europe (WE, NE, SE, EE), Turkey, Afghanistan, Turkmenistan, Kyrgyzstan, Kazakhstan.

Pteromalus procerus Graham, 1969. Primary parasitoid of coleopterans from the family Curculionidae. Russia: **FE** (PR, SA). – Europe (WE, NE, EE), China (NC).

Pteromalus proprius Walker, 1874. Russia: **FE** (AM).

Pteromalus puparum (Linnaeus, 1758) [Ichneumon] (*Ichneumon antiopae* Scopoli, 1763; *Pteromalus latifrons* Walker, 1835; *P. cephalotes* Walker, 1836; *P. comes* Walker, 1836; *P. ornatus* Walker, 1839; *P. brassicae* Curtis, 1842; *P. pontiae* Curtis, 1842; *P. orinus* Walker, 1845; *P. nigricans* Walker, 1872; *P. pieridis* Provancher, 1881; *P. vanessae* Howard, 1889; *P. nigrifrons* Dalla Torre, 1898; *P. australicus* Girault et Dodd, 1915). Primary parasitoid of coleopterans from the families Chrysomelidae (Bruchinae) and Curculionidae (including Scolytinae), dipterans from the family Chloropidae, hemipterans from the family Diaspididae, hymenopterans from the families Cynipidae, Sphecidae and Vespidae and many families of Lepidoptera; secondary parasitoid of hymenopterans from the families Braconidae, Ichneumonidae and Pteromalidae. Russia: **EP** (NW, C, S, NC), **WS** (AL), **FE** (AM, KH, PR, SA, KA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iraq, Israel, Iran, Pakistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NE, CC), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.

Pteromalus semotus (Walker, 1834) [Eutelus] (*Pteromalus cupreus* Walker, 1835; *P. imbutus* Walker, 1835; *P. lugubris* Walker, 1835; *P. solutus* Walker, 1835; *P. equestris*

- Walker, 1836; *P. maerens* Walker, 1836; *P. thalassinus* Walker, 1836; *P. pione* Walker, 1839; *P. variabilis* Ratzeburg, 1844; *P. amnisos* Walker, 1848; *P. glautias* Walker, 1848; *Etroxys parvinucha* Thomson, 1878; *Pteromalus cupreicolor* Dalla Torre, 1898; *P. maereus* Dalla Torre, 1898; *Etroxys marginicollis* Cameron, 1906; *Habrocytus milleri* Delucchi et Verbeke, 1953). Primary parasitoid of coleopterans from the families Anobiidae, Apionidae, Chrysomelidae and Curculionidae, hymenopterans from the family Diprionidae and many families of Lepidoptera; secondary parasitoid of hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (C, E, NC), **WS** (AL), **FE** (KA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Syria, Pakistan, Turkmenistan, Kazakhstan, China (NC), Japan, N America, India, Australasia.
- Pteromalus sequester** Walker, 1835 (*Pteromalus infectus* Walker, 1835; *P. placidus* Walker, 1835; *P. varius* Walker, 1835; *P. simulans* Walker, 1836; *P. oroetes* Walker, 1839; *P. eulimene* Walker, 1848; *P. leguminum* Ratzeburg, 1852; *P. insularis* Walker, 1872; *Habrocytus medicaginis* Gahan, 1914). Primary parasitoid of coleopterans from the families Apionidae, Chrysomelidae (Bruchinae) and Curculionidae, dipterans from the families Cecidomyiidae and Tephritidae, hymenopterans from the family Eurytomidae and lepidopterans from the family Pyralidae. Russia: **EP** (NW, C, S, NC), **WS** (NS, AL), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Iraq, Israel, Iran, Kyrgyzstan, Kazakhstan, N America, India, Afrotropics, S America, Australasia.
- Pteromalus tereus** Walker, 1839. Russia: **FE** (KA). – Europe (WE, NE, EE).
- Pteromalus varians** (Spinola, 1808) [Diplolepis] (*Pteromalus grandis* Walker, 1835; *P. latipennis* Walker, 1835; *P. tenuicornis* Foerster, 1841). Primary parasitoid of coleopterans from the families Cerambycidae and Curculionidae and dipterans from the family Gracillariidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Kazakhstan.
- Pteromalus vibulenus** (Walker, 1839) [Ormocerus] (*Habrocytus blunckii* Blunck, 1944). Primary parasitoid of coleopterans from the families Cerambycidae and Curculionidae, hymenopterans from the family Cynipidae and lepidopterans from the families Gelechiidae, Pieridae, Pyralidae, Tortricidae and Zygaenidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **FE** (AM, PR). – Europe (WE, NE, SE, EE).
- RHAPHITELUS** Walker, 1834 (*Styloceras* Ratzeburg, 1844; *Rhaphidotelus* Agassiz, 1845; *Storthygocerus* Ratzeburg, 1848; *Eucercysius* Brèthes, 1913). Type species: *Rhaphitelus maculatus* Walker, 1834. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World and Palaearctic – 3, Russia – 1.
- Rhaphitelus maculatus** Walker, 1834 (*Pteromalus hecato* Walker, 1839; *P. subulifer* Foerster, 1841; *Eucercysius scolytii* Brèthes, 1913). Primary parasitoid of coleopterans from the family Curculionidae and lepidopterans from the family Cossidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NE, NC, NW, SW), Japan, N America, India, SE Asia, S America, Australasia.
- RHOPALICUS** Foerster, 1856. Type species: *Cleonymus maculifer* Foerster, 1841 (= *Cheiopachus tutela* Walker, 1836). The genus is distributed in the Holarctic and Australasian regions. Number of species: World – 11, Palaearctic – 8, Russia – 3.
- Rhopalicus guttatus** (Ratzeburg, 1844) [Ichneumon]. Primary parasitoid of coleopterans from the families Chrysomelidae (Bruchinae), Curculionidae and lepidopterans from the family Pyralidae. Russia: **EP** (C), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China (NC, SW).
- Rhopalicus quadratus** (Ratzeburg, 1844) [Pteromalus] (*Pteromalus neostadiensis* Ratzeburg, 1844; *Rhopalicus brevicornis* Thomson, 1878). Primary parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (N, NW, C, E, NC), **UR**, **WS** (NS), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, China (NE, NC), Japan.
- Rhopalicus tutela** (Walker, 1836) [Cheiopachus] (*Cleonymus maculifer* Foerster, 1841; *Pteromalus immaculatus* Ratzeburg, 1844; *P. spinolae* Ratzeburg, 1844; *P. suspensus* Ratzeburg, 1844; *P. aemulus* Ratzeburg, 1848; *P. lunula* Ratzeburg, 1848; *P. lunulus* Ratzeburg, 1848; *P. multicolor* Ratzeburg, 1848; *Rhopalicus annellus* Thomson, 1878). Primary parasitoid of coleopterans from the families Bostrychidae, Curculionidae and dipterans from the family Cecidomyiidae. Russia: **EP** (N, NW, C), **UR**, **ES** (KR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Armenia, Turkey, Kyrgyzstan, Kazakhstan, China (NE, NC, SW), Japan, N America, Australasia.
- ROHATINA** Bouček, 1954. Type species: *Rohatina monstrosa* Bouček, 1954. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 1.
- Rohatina monstrosa** Bouček, 1954. Russia: **EP** (C, CR). – Europe (NE, SE, EE).
- ROPTROCERUS** Ratzeburg, 1848 (*Pachyceras* Ratzeburg, 1844, nom. praeocc., nec Schoenherr 1823; *Roptroceroidea* Ishii, 1938). Type species: *Pachyceras xylophagorum* Ratzeburg, 1844. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 12, Palaearctic – 10, Russia – 3.
- Roptrocerus brevicornis** Thomson, 1878. Primary parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (N, NW, C, NC), **UR**, **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia.

- Roptrocercus mirus** (Walker, 1834) [Amblymerus] (*Pachycercus janssoni* Hedqvist, 1955). Primary parasitoid of coleopterans from the family Curculionidae and lepidopterans from the families Lymantriidae and Notodontidae. Russia: **EP** (N, NW, C), **UR**, **ES** (KR), **FE** (PR). – Europe (WE, NE, EE), China (NE, NC), Japan.
- Roptrocercus xylophagorum** (Ratzeburg, 1844) [Pachycercus] (*Pachycercus eccoptogastri* Ratzeburg, 1844; *Roptrocercus rectus* Provancher, 1887; *R. sulcatus* Waterston, 1922; *Roptroceroidea ips* Ishii, 1938; *R. karafutoensis* Ishii, 1938). Primary parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (N, C, E, NC), **UR**, **WS** (NS), **ES** (KR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Israel, Kazakhstan, China (NE, NC, SW, SE), Japan, N America, India, S America, Australasia.
- SCEPTROTHELYS** Graham, 1956 (*Brimeria* Hedqvist, 1977; *Stenetroidea* Szelényi, 1982). Type species: *Pteromalus grandiclava* Walker, 1835. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 8, Russia – 4.
- Sceptrothelys consocius** (Walker, 1874) [Pteromalus]. Russia: **FE** (AM).
- Sceptrothelys deione** (Walker, 1839) [Miscogaster] (*Pteromalus charops* Walker, 1839; *P. aeacus* Walker, 1848; *Metopon aeneiscapus* Thomson, 1878; *M. punctatum* Thomson, 1878; *Eurydinota lividicorpus* Girault, 1917). Primary parasitoid of lepidopterans from the families Coleophoridae, Gelechiidae and Nepticulidae. Russia: **FE** (KA). – Europe (WE, NE, EE), N America.
- Sceptrothelys grandiclava** (Walker, 1835) [Pteromalus] (*Pteromalus claviger* Foerster, 1841; *Brimeria clavata* Hedqvist, 1977). Primary parasitoid of coleopterans from the family Curculionidae and lepidopterans from the family Pieridae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE), N America.
- Sceptrothelys placens** (Walker, 1874) [Pteromalus]. Russia: **FE** (AM).
- SCHIZONOTUS** Ratzeburg, 1852. Type species: *Pteromalus sieboldi* Ratzeburg, 1848. The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 5, Palaearctic – 3, Russia – 2.
- Schizonotus latus** (Walker, 1835) [Pteromalus] (*Arthrolytus incongruens* Masi, 1907; *Coelopisthia smithii* Gahan, 1913). Primary parasitoid of coleopterans from the family Chrysomelidae; secondary parasitoid of dipterans from the family Tachinidae. Russia: **FE** (AM, PR, KA). – Europe (WE, SE, EE), N Africa, Pakistan, Turkmenistan, Kazakhstan, China (NE, NC, NW, SW), Japan, N America.
- Schizonotus sieboldi** (Ratzeburg, 1848) [Pteromalus]. Primary parasitoid of coleopterans from the family Chrysomelidae, dipterans from the family Calliphoridae and lepidopterans from the family Notodontidae. Russia: **EP** (E), **WS** (AL), **ES** (IR, YA), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, Pakistan, Turkmenistan, Uzbekistan, Kazakhstan, China (NE), N America.
- SOROSINA** Dzhankmen, 1993. Type species: *Sorosina florenskayae* Dzhankmen, 1993. Monotypic Palaearctic genus.
- Sorosina florenskayae** Dzhankmen, 1993. Russia: **FE** (PR).
- SPANIOPUS** Walker, 1833 (*Isocyrtus* Thomson, 1878; *Polycelis* Thomson, 1878; *Polyscelis* Dalla Torre, 1897; *Neopolycelis* Hincks, 1944). Type species: *Spaniopus dissimilis* Walker, 1833. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 12, Russia – 9.
- Spaniopus belokobylskiji** Tselikh, 2015. Russia: **FE** (PR).
- Spaniopus dissimilis** Walker, 1833 (*Spaniopus elegans* Foerster, 1856; *Polyscelis modestus* Gahan, 1922). Primary parasitoid of dipterans from the families Cecidomyiidae and Chloropidae, hymenopterans from the family Cynipidae, lepidopterans from the families Coleophoridae and Elachistidae and Araneae from the family Linyphiidae; secondary parasitoid of hymenopterans from the families Braconidae and Platygasteridae. Russia: **FE** (PR). – Europe (WE, NE, EE), N America.
- Spaniopus fulvicornis** Bouček, 1972. Russia: **FE** (PR). – Europe (NE, EE).
- Spaniopus japonicus** Kamijo, 1981. Primary parasitoid of dipterans from the family Cecidomyiidae and lepidopterans from the families Gracillariidae and Tortricidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **FE** (PR, KA, MG). – Korean Peninsula, Japan.
- Spaniopus monospilus** (Thomson, 1878) [*Isocyrtus*] (*Polyscelis websteri* Ashmead, 1895). Primary parasitoid of hymenopterans from the family Cynipidae; secondary parasitoid of hymenopterans from the families Braconidae and Eurytomidae. Russia: **EP** (C), **UR**, **FE** (KH). – Europe (NE), N America.
- Spaniopus nigriceps** Kamijo, 1981. Russia: **FE** (KA). – Japan.
- Spaniopus peisonis** (Erdős, 1957) [Gyrinophagus]. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (MG). – Europe (WE, NE, EE).
- Spaniopus sasacolae** Kamijo, 1981. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (PR). – Japan.
- Spaniopus varicornis** Bouček, 1972. Russia: **FE** (KA). – Europe (EE).
- SPHEGIGASTER** Spinola, 1811 (*Trigonogastra* Ashmead, 1904; *Paratrigonogastra* Girault, 1915; *Basilewskyella* Risbec, 1957). Type species: *Diplolepis pallicornis* Spinola, 1808. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 61, Palaearctic – 30, Russia – 13.

- Sphegigaster cuscuteae** Ferrière, 1959. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **FE** (PR, KA). – Europe (WE, NE, EE), Iran, Kazakhstan, SW Asia.
- Sphegigaster cuspidata** Huang, 1990. Russia: **FE** (KA). – China (SW).
- Sphegigaster hamugurivora** Ishii, 1953. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **FE** (SA). – Korean Peninsula, Japan.
- Sphegigaster hypocyrta** Huang, 1990. Russia: **FE** (SA). – China (NE, CC, SW).
- Sphegigaster intersita** Graham, 1969. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC), **FE** (AM, SA, MG). – Europe (WE, NE, EE), Kazakhstan, China (NC), Korean Peninsula.
- Sphegigaster mutica** Thomson, 1878. Russia: **FE** (PR, SA). – Europe (NE, EE), China (NE, NC).
- Sphegigaster nigricornis** (Nees, 1834) [Chrysolampus]. Primary parasitoid of coleopterans from the family Apionidae and dipterans from the family Agromyzidae. Russia: **EP** (NW, NC), **FE** (SA). – Europe (WE, EE), Kazakhstan.
- Sphegigaster orobanchiae** Kurdjumov, 1912. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (C, NC). – Europe (SE, EE), Iraq, Iran.
- Sphegigaster pallicornis** (Spinola, 1808) [Diplolepis] (*Merismus flavicornis* Walker, 1833; *Chrysolampus coronatus* Foerster, 1841; *Ch. pallidicornis* Dalla Torre, 1898). Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, N America.
- Sphegigaster pedunculiventris** (Spinola, 1808) [Diplolepis] (*Merismus aculeatus* Walker, 1833). Primary parasitoid of coleopterans from the family Apionidae. Russia: **FE** (KA). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Sphegigaster stepicola** Bouček, 1965 (*Acroclisis melanagromyzae* Mani, 1971). Primary parasitoid of coleopterans from the family Apionidae. Russia: **EP** (NC), **FE** (SA). – Europe (WE, SE, EE), N Africa, Iran, Kazakhstan, China (NE, SW, SE), India, SE Asia, Afrotropics.
- Sphegigaster truncata** Thomson, 1878. Russia: **EP** (NC), **FE** (PR, SA, MG). – Europe (WE, NE, SE, EE), Iran, Kazakhstan, China (NE, NC, SW).
- Sphegigaster yunnanensis** Özdikmen, 2011 (*Sphegigaster carinata* Huang, 1990). Russia: **FE** (AM, PR). – China (SW).
- SPILOMALUS** Graham, 1956. Type species: *Pteromalus quadrinota* Walker, 1835. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 4, Russia – 1.
- Spilomalus quadrinota** (Walker, 1835) [Pteromalus]. Primary parasitoid of coleopterans from the families Curculionidae and Rhynchitidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE).
- SPINTHERUS** Thomson, 1878. Type species: *Etroxys obscurus* Thomson, 1878 (= *Pteromalus dubius* Nees, 1834). The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 2, Russia – 1.
- Spintherus dubius** (Nees, 1834) [Pteromalus] (*Pteromalus nigroaeneus* Walker, 1835; *P. caligatus* Walker, 1836; *P. conterminus* Walker, 1836; *P. codrus* Walker, 1839; *P. flavitarsis* Foerster, 1841; *P. lutescens* Foerster, 1841; *P. alimentus* Walker, 1848; *P. anchinoe* Walker, 1848; *P. caligatus* Walker, 1874; *Etroxys obscurus* Thomson, 1878). Primary parasitoid of coleopterans from the family Apionidae and lepidopterans from the family Pyralidae; secondary parasitoid of hymenopterans from the family Eurytomidae. Russia: **EP** (NW, C, NC), **FE** (AM). – Europe (WE, NE, SE, EE), Turkey, Kyrgyzstan, Kazakhstan.
- STENETRA** Masi, 1931 (*Neolonchetron* Szélenyi, 1982). Type species: *Stenetra ligustica* Masi, 1931. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 2, Russia – 1.
- Stenetra ligustica** Masi, 1931. Russia: **FE** (PR). – Europe (SE, EE), Azerbaijan, Kazakhstan.
- STENOMALINA** Ghesquière, 1946 (*Stenomalus* Thomson, 1878). Type species: *Etroxys (Stenomalus) crassicornis* Thomson, 1878 (= *Pteromalus illudens* Walker, 1836). The genus is distributed in the Holarctic, Oriental and Afrotropical regions. Number of species: World – 23, Palaearctic – 22, Russia – 7.
- Stenomalina communis** (Nees, 1834) [Pteromalus] (*Pteromalus bifrons* Walker, 1836; *P. continuus* Walker, 1836; *P. erasippus* Walker, 1839; *P. mycale* Walker, 1839; *P. nycitimus* Walker, 1839; *P. cerycus* Walker, 1848; *Etroxys rugosus* Thomson, 1878; *Stenomalus laetus* Ruschka, 1912). Primary parasitoid of dipterans from the family Chloropidae, hymenopterans from the family Cynipidae and lepidopterans from the family Pyralidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Stenomalina favorinus** (Walker, 1839) [Pteromalus]. Russia: **EP** (NC), **FE** (MG). – Europe (WE, NE, SE, EE), Turkey.
- Stenomalina iera** (Walker, 1844) [Pteromalus]. Primary parasitoid of dipterans from the family Syrphidae. Russia: **FE** (SA, KA, MG). – Europe (WE, NE), Iran.
- Stenomalina laticeps** (Walker, 1850) [Pteromalus]. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, China (NC).
- Stenomalina liparae** (Giraud, 1863) [Pteromalus]. Primary parasitoid of dipterans from the family Chloropidae. Russia: **EP** (NW, C), **FE** (PR, SA). – Europe (WE, NE, EE), China (NC, NW).
- Stenomalina micans** (Olivier, 1813) [Pteromalus] (*Pteromalus bellus* Walker, 1836). Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae), dipterans from the families Cecidomyiidae and Chloropidae; secondary parasitoid of hymenopterans

from the family Braconidae. Russia: **EP** (NW, C), **FE** (PR, KA). – Europe (WE, NE, EE), Kazakhstan, China (NE, NW, SW).

Stenomalina pilosa Xiao et Huang, 1999. Russia: **FE** (SA). – China (NE).

STICHOCREPIS Foerster, 1860. Type species: *Stichocrepis armata* Foerster, 1860. Monotypic Palaearctic genus.

Stichocrepis armata Foerster, 1860. Primary parasitoid of lepidopterans from the families Geometridae and Sesiidae. Russia: **EP** (C), **WS** (AL). – Europe (WE, NE, SE, EE), Kazakhstan.

SYNEDRUS Graham, 1956. Type species: *Synedrus cavigena* Graham, 1956 (= *Pteromalus transiens* Walker, 1835). The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 2.

Synedrus kasparyani Tselikh, 2013. Russia: **WS** (AL), **FE** (SA).

Synedrus transiens (Walker, 1835) [Pteromalus] (*Synedrus cavigena* Graham, 1956). Russia: **FE** (SA). – Europe (WE, NE, EE).

SYNTOMOPUS Walker, 1833 (*Merismorella* Girault, 1926; *Dudichilla* Szélnyi, 1970). Type species: *Syntomopus incurvus* Walker, 1833. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 19, Palaearctic – 9, Russia – 3.

Syntomopus incisus Thomson, 1878. Primary parasitoid of dipterans from the family Agromyzidae and hymenopterans from the family Cynipidae. Russia: **EP** (NW), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, China (NC, SW, SE).

Syntomopus incurvus Walker, 1833 (*Miscogaster dirce* Walker, 1839; *Lamprotatus phylander* Walker, 1848; *Chrysolampus madizae* Rondani, 1877). Primary parasitoid of dipterans from the family Agromyzidae and lepidopterans from the family Pterophoridae. Russia: **EP** (NW), **WS** (AL), **FE** (KH, SA). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, China (NC).

Syntomopus thoracicus Walker, 1833. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC), **FE** (SA, KA, MG). – Europe (WE, SE, EE), Kazakhstan, China (NC, NW, CC, SW, SE).

TOMICOBIA Ashmead, 1899 (*Ipocoelius* Ruschka, 1924; *Karpinskiella* Bouček, 1955). Type species: *Tomicobia tibialis* Ashmead, 1904. The genus is distributed in the Holarctic and Neotropical regions. Number of species: World – 14, Palaearctic – 10, Russia – 3.

Tomicobia acuminati Hedqvist, 1959. Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae). Russia: **EP** (E), **FE** (PR). – Europe (WE, EE).

Tomicobia pityophthori (Bouček, 1955) [Karpinskiella]. Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae). Russia: **UR**. – Europe (WE, NE, EE).

Tomicobia seitneri (Ruschka, 1924) [Ipocoelius]. Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae). Russia: **EP** (N, NW, C), **UR**. – Europe (WE, NE, SE, EE), Mongolia, China (NE, NC), Japan.

TOXEUMA Walker, 1833 (*Cirdania* Hedqvist, 1974). Type species: *Toxeuma fuscicornis* Walker, 1833. The genus is distributed in the Holarctic and Neotropical regions. Number of species: World – 19, Palaearctic – 6, Russia – 3.

Toxeuma acilius (Walker, 1848) [Lamprotatus]. Russia: **FE** (PR, SA). – Europe (WE, NE, EE).

Toxeuma paludum Graham, 1959. Primary parasitoid of lepidopterans from the family Coleophoridae. Russia: **FE** (SA, KA). – Europe (WE, NE).

Toxeuma subtruncatum Graham, 1959. Russia: **FE** (SA). – Europe (WE, NE, EE).

TRICHOMALOPSIS Crawford, 1913 (*Eupteromalus* Kurdjumov, 1913; *Nemicromelus* Girault, 1917; *Metadicylus* Girault, 1926). Type species: *Trichomalopsis shirakii* Crawford, 1913. Cosmopolitan. Number of species: World – 57, Palaearctic – 38, Russia – 11.

Trichomalopsis americana (Gahan, 1933) [Eupteromalus]. Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the families Calliphoridae, Cecidomyiidae, Coelopidae, Ephydriidae, Muscidae and Tephritidae, hymenopterans from the family Cephidae and lepidopterans from the families Gelechiidae, Noctuidae and Pieridae; secondary parasitoid of hymenopterans from the families Braconidae, Eulophidae and Ichneumonidae. Russia: without regions (Thompson, 1958). – Europe (EE), N America.

Trichomalopsis apanteloctena (Crawford, 1911) [Trichomalus] (*Eupteromalus parnarae* Gahan, 1919). Primary parasitoid of coleopterans from the family Chrysomelidae, dipterans from the families Agromyzidae, Cecidomyiidae and Ephydriidae, lepidopterans from the families Hesperidae, Limacodidae, Noctuidae, Pieridae, Pyralidae, Saturniidae, Tortricidae and Yponomeutidae and orthopterans from the family Acrididae; secondary parasitoid of hymenopterans from the families Bethyridae, Braconidae, Eulophidae, Eurytomidae and Scelionidae. Russia: **FE** (PR). – China (NC, CC, SW), Korean Peninsula, Japan, India, SE Asia.

Trichomalopsis deplanata Kamijo et Grissell, 1982. Primary parasitoid of coleopterans from the family Chrysomelidae, dipterans from the families Agromyzidae and Tachinidae and lepidopterans from the families Hesperidae and Pyralidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **FE** (PR). – China, Korean Peninsula, Japan, India, Afro-tropics, S America, Australasia.

- Trichomalopsis hemiptera** (Walker, 1835) [Pteromalus] (*Pteromalus apicalis* Walker, 1835; *P. pedestris* Foerster, 1861; *P. nidulans* Thomson, 1878). Primary parasitoid of dipterans from the families Anthomyiidae, Cecidomyiidae, Chloropidae, hymenopterans from the family Cynipidae, lepidopterans from the families Arctiidae, Lymantriidae, Noctuidae, Pieridae, Pyralidae and Yponomeutidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE), N Africa, Turkey, Kazakhstan, China, Korean Peninsula, Japan, N and S America, Australasia.
- Trichomalopsis microptera** (Lindeman, 1887) [Merisus] (*Baeotomus coxalis* Ashmead, 1897; *Eupteromalus arvensis* Kurdjumov, 1914). Primary parasitoid of coleopterans from the family Chrysomelidae and dipterans from the families Cecidomyiidae and Chloropidae. Russia: **EP** (C), **WS** (NS). – Europe (WE, NE, EE), N Africa, Kazakhstan, N America.
- Trichomalopsis oryzae** Kamijo et Grissell, 1982. Primary parasitoid of coleopterans from the family Chrysomelidae, dipterans from the families Agromyzidae, Ephydriidae and Stratiomyiidae and lepidopterans from the families Bucculatricidae and Noctuidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **FE** (PR, SA). – China (CC), Korean Peninsula, Japan.
- Trichomalopsis peregrina** (Graham, 1969) [Eupteromalus]. Primary parasitoid of dipterans from the families Tephritidae and lepidopterans from the families Lymantriidae and Pieridae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Braconidae and Pteromalidae. Russia: **EP** (C). – Europe (WE, SE, EE), Turkey, Iran, Kazakhstan, N America.
- Trichomalopsis pospelovi** (Kurdjumov, 1912) [Pteromalus]. Primary parasitoid of coleopterans from the family Buprestidae. Russia: without regions (Thompson, 1958). – Europe (EE).
- Trichomalopsis shirakii** Crawford, 1913. Primary parasitoid of coleopterans from the family Chrysomelidae, dipterans from the families Agromyzidae and Ephydriidae and lepidopterans from the families Elachistidae, Hesperidae and Yponomeutidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the family Braconidae. Russia: **FE** (PR, SA, KA). – China (CC), Korean Peninsula.
- Trichomalopsis subapterus** (Riley, 1885) [Merisus] (*Pteromalus fulvipes* Forbes, 1885). Primary parasitoid of dipterans from the families Cecidomyiidae and Chloropidae; secondary parasitoid of hymenopterans from the family Platygastriidae. Russia: **EP** (C). – Europe (WE, EE), N America.
- Trichomalopsis tigris** (Walker, 1839) [Pteromalus]. Primary parasitoid of *Bucculatrix maritima* Stain. (Lepidoptera: Bucculatricidae). Russia: **EP** (NC). – Europe (WE, SE), Kazakhstan.
- TRICHOMALUS** Thomson, 1878 (*Lanceosoma* Erdős, 1953). Type species: *Isocyrtus punctinucha* Thomson, 1878 (= *Eutelus posticus* Walker, 1835). The genus is distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 72, Palaearctic – 66, Russia – 12.
- Trichomalus campestris** (Walker, 1834) [Amblymerus] (*Amblymerus tenuicornis* Walker, 1834; *Pteromalus cyniphis* Nees, 1834; *P. rufipes* Nees, 1834; *P. fumipennis* Walker, 1835; *P. redactus* Walker, 1835; *P. tenuis* Walker, 1835; *P. concisus* Walker, 1836; *P. nubeculosus* Foerster, 1841; *Isocyrtus coxalis* Thomson, 1878). Primary parasitoid of coleopterans from the families Apionidae and Curculionidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Israel.
- Trichomalus cristatus** (Foerster, 1841) [Pteromalus]. Primary parasitoid of dipterans from the families Cecidomyiidae and Chloropidae. Russia: **EP** (NW, C, E), **UR**, **WS** (NS). – Europe (WE, EE).
- Trichomalus gracilicornis** (Zetterstedt, 1838) [Pteromalus] (*Isocyrtus punctiger* Thomson, 1878). Russia: **FE** (MG). – Europe (WE, NE, SE, EE).
- Trichomalus flagellaris** Graham, 1969. Primary parasitoid of coleopterans from the family Apionidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).
- Trichomalus fulvipes** (Walker, 1836) [Pteromalus] (*Pteromalus operosus* Foerster, 1841). Primary parasitoid of coleopterans from the family Apionidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Israel.
- Trichomalus inscitus** (Walker, 1835) [Pteromalus] (*Pteromalus affinis* Walker, 1835; *P. microcerus* Walker, 1835; *P. tristis* Walker, 1835; *P. deiochus* Walker, 1839; *P. reconditus* Foerster, 1841; *P. diachymatis* Ratzeburg, 1844; *P. orchestis* Ratzeburg, 1844; *P. lampe* Walker, 1848; *Isocyrtus subnudus* Thomson, 1878). Primary parasitoid of coleopterans from the family Curculionidae and lepidopterans from the family Lyonetiidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N America.
- Trichomalus lonchaeae** Bouček, 1959. Primary parasitoid of *Lonchaea zetterstedti* Beck. (Diptera: Lonchaeidae). Russia: **EP** (NC). – Europe (WE, NE, EE).
- Trichomalus nanus** (Walker, 1836) [Pteromalus] (*Pteromalus lucidus* Foerster, 1841; *P. dipoenos* Walker, 1848; *P. versutus* Foerster, 1861; *P. speciosus* Dalla Torre, 1898). Primary parasitoid of coleopterans from the family Curculionidae and dipterans from the family Chloropidae. Russia: **EP** (C), **FE** (MG). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Trichomalus perfectus** (Walker, 1835) [Pteromalus] (*Pteromalus decius* Walker, 1835; *P. decorus* Walker, 1835; *P. opulentus* Foerster, 1841; *Isocyrtus laevinucha* Thomson, 1878). Primary parasitoid of coleopterans from the

family Curculionidae, dipterans from the family Cecidomyiidae and hymenopterans from the family Torymidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Iran, N America.

Trichomalus posticus (Walker, 1835) [Eutelus] (*Pteromalus sunides* Walker, 1845; *Isocyrtus punctinucha* Thomson, 1878). Primary parasitoid of coleopterans from the family Apionidae and dipterans from the family Chloropidae; secondary parasitoid of hymenopterans from the family Pteromalidae. Russia: **EP** (E), **WS** (OM, NS, KM, AL), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan.

Trichomalus repandus (Walker, 1835) [Pteromalus] (*Pteromalus stenotelus* Walker, 1836; *P. samus* Walker, 1839; *P. cryptophagus* Foerster, 1841; *P. praetermissus* Foerster, 1841; *Isocyrtus pallicornis* Thomson, 1878; *Trichomalus pallidicornis* Dalla Torre, 1898). Russia: **FE** (PR, MG). – Europe (WE, NE, EE).

Trichomalus statutus (Foerster, 1841) [Pteromalus] (*Pteromalus fertilis* Foerster, 1841). Primary parasitoid of dipterans from the family Chloropidae. Russia: **EP** (C). – Europe (WE, NE, EE), N America.

TRIGONODERUS Westwood, 1832 (*Pterolycus* Ratzeburg, 1848). Type species: *Trigonoderus princeps* Westwood, 1832. The genus is distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 24, Palaearctic – 15, Russia – 8.

Trigonoderus cyanescens (Foerster, 1841) [Cleonimus] (*Hetroxys gribodii* Vollenhoven, 1878; *Trigonoderus cyanescens flavobasalis* Novicky, 1955; *T. filatus binubilatus* Erdős, 1960). Primary parasitoid of coleopterans from the families Buprestidae and Curculionidae (Scolytinae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE).

Trigonoderus dolichogaster Kamijo, 2000. Russia: **FE** (PR). – Japan.

Trigonoderus fraxini Yang, 1996. Primary parasitoid of coleopterans from the families Cerambycidae and Curculionidae (Scolytinae). Russia: **FE** (PR). – China (NE, NC), Korean Peninsula, Japan.

Trigonoderus nigrocephalus Kamijo, 2000. Russia: **FE** (PR, SA). – Korean Peninsula, Japan.

Trigonoderus princeps Westwood, 1832 (*Trigonoderus atrovirens* Walker, 1836; *T. obscurus* Walker, 1836; *Pteromalus hirtipes* Zetterstedt, 1838; *P. lichtensteinii* Ratzeburg, 1844). Primary parasitoid of coleopterans from the families Cerambycidae and Curculionidae (Scolytinae). Russia: **EP** (NC), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Japan.

Trigonoderus pulcher Walker, 1836 (*Trigonoderus contemptus* Walker, 1836; *T. tristis* Walker, 1836; *T. sokanowskii pseudoprinceps* Novicky, 1955). Russia: **EP** (C, NC), **ES** (IR), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), Iran, Japan, India.

Trigonoderus sokanowskii Novicky, 1955. Russia: **EP** (NC).

Trigonoderus yamamotoi Kamijo, 2000. Russia: **FE** (PR). – Japan.

TRITNEPTIS Girault, 1908 (*Kvaseria* Hedqvist, 1978). Type species: *Tritneptis hemerocampae* Girault, 1908. The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 14, Palaearctic – 9, Russia – 2.

Tritneptis diprionis Gahan, 1938. Primary parasitoid of hymenopterans from the families Diprionidae and Tenthredinidae. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE), Kazakhstan, N America.

Tritneptis klugii (Ratzeburg, 1844) [Pteromalus] (*Pteromalus nematicida* Packard, 1883). Primary parasitoid of hymenopterans from the families Diprionidae and Tenthredinidae, lepidopterans from the family Tortricidae; secondary parasitoid of hymenopterans from the family Ichneumonidae. Russia: **EP** (NW, S), **WS** (AL). – Europe (WE, NE, EE), Armenia, Kazakhstan, N America.

UROLEPIS Walker, 1846 (*Halizoa* Foerster, 1856; *Belonura* Ashmead, 1896). Type species: *Ormocerus maritimus* Walker, 1834. The genus is distributed in the Holarctic region. Number of species: World – 3, Palaearctic – 2, Russia – 1.

Urolepis maritima (Walker, 1834) [Ormocerus] (*Ormocerus maritimus* Walker, 1834; *Miscogaster stygne* Walker, 1839; *Pteromalus salinus* Heydon, 1844; *P. alope* Walker, 1848). Primary parasitoid of many families of Diptera. Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), N Africa, Iraq, Israel, Iran, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia, N America.

USUBAIA Kamijo, 1983. Type species: *Usubaia liparae* Kamijo, 1983. Monotypic Palaearctic genus.

Usubaia liparae Kamijo, 1983. Primary parasitoid of *Lipara* sp. (Diptera: Chloropidae). Russia: **FE** (PR, SA). – Japan.

XIPHYDRIOPHAGUS Ferrière, 1952. Type species: *Pteromalus meyerinckii* Ratzeburg, 1848. Monotypic Palaearctic genus.

Xiphydriophagus meyerinckii (Ratzeburg, 1848) [Pteromalus] (*Pteromalus xiphydriae* Fahringer, 1935). Primary parasitoid of hymenopterans from the family Xiphydriidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).

Subfamily SPALANGIINAE

SPALANGIA Latreille, 1805 (*Prospalangia* Brèthes, 1915). Type species: *Spalangia nigra* Latreille, 1805. Cosmopolitan. Number of species: World – 68, Palaearctic – 23, Russia – 9.

Spalangia cameroni Perkins, 1910 (*Spalangia philippinensis* Fullaway, 1917; *S. muscidarum texensis* Girault,

1920; *S. melanogastra* Masi, 1940; *S. atherigona* Risbec, 1951). Primary parasitoid of many families of Diptera and lepidopterans from the family Bombycidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Pakistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China, Korean Peninsula, N America, India, SE Asia, Afrotropics, S America, Australasia.

Spalangia crassicornis Bouček, 1963. Primary parasitoid of dipterans from the family Milichiidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).

Spalangia drosophilae Ashmead, 1887. Primary parasitoid of dipterans from the families Chloropidae, Drosophilidae, Lauxaniidae, Muscidae, Sarcophagidae, Sepsidae, Tachinidae and Tephritidae, hymenopterans from the families Cynipidae, Diapriidae and Figitidae and lepidopterans from the families Gelechiidae and Pyralidae. Russia: **EP** (NW). – Europe (EE), N Africa, China (CC), N and S America.

Spalangia erythromera Foerster, 1850 (*Spalangia spuria* Foerster, 1850; *S. umbellatarum* Foerster, 1850). Primary parasitoid of dipterans from the families Anthomyiidae, Lonchaeidae, Muscidae, Phoridae and Sepsidae. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, China (NE, NC, NW, SW), N and S America.

Spalangia fuscipes Nees, 1834. Primary parasitoid of dipterans from the families Cecidomyiidae and Chloropidae. Russia: **EP** (NW, C, NC), **UR**, **WS** (NS). – Europe (WE, NE, SE, EE), N Africa, Turkey, China (NC, SE), N America, India, SE Asia.

Spalangia nigra Latreille, 1805 (*Spalangia hirta* Haliday, 1833; *S. rugosicollis* Ashmead, 1894). Primary parasitoid of coleopterans from the family Scarabaeidae, dipterans from the families Anthomyiidae, Calliphoridae, Chloropidae, Muscidae, Phoridae, Sarcophagidae, Sepsidae, Syrphidae and Tephritidae, hymenopterans from the family Diprionidae and lepidopterans from the families Coleophoridae and Pyralidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), N Africa, China (NE, NC, SW), Korean Peninsula, Japan, N America, India, S America, Australasia.

Spalangia nigripes Curtis, 1839 (*Spalangia hyaloptera* Foerster, 1850; *S. formicaria* Kieffer, 1905; *S. muscarum* Girault, 1920). Primary parasitoid of dipterans from the families Calliphoridae and Muscidae. Russia: **EP** (S). – Europe (WE, NE, SE, EE), Lebanon, Uzbekistan, N America.

Spalangia nigroaenea Curtis, 1839 (*Spalangia homalaspis* Foerster, 1850; *S. astuta* Foerster, 1851; *S. muscidarum* Richardson, 1913; *Prospalangia platensis* Brèthes, 1915; *Spalangia abenabooi* Girault, 1932; *S. sundaica* Graham, 1932; *S. mors* Girault, 1933). Primary parasitoid of many families of Diptera and lepidopterans from the family Pyralidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Pakistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China, Korean Peninsula, N America, India, SE Asia, Afrotropics, S America, Australasia.

Spalangia subpunctata Foerster, 1850 (*Spalangia leptogramma* Foerster, 1850). Primary parasitoid of dipterans from the families Anthomyiidae, Calliphoridae, Muscidae, Otitidae, Sarcophagidae and Syrphidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), N Africa, Turkey, Tajikistan, Uzbekistan, Kazakhstan, China (NC).

39. FAMILY EUPELMIDAE

O.V. KOSHELEVA AND V.A. TRJAPITZIN

Members of the family Eupelmidae are usually of 3 mm, but some up to 9 mm length, especially in the tropics. Males and females are similar in morphological structures in the subfamilies Calosotinae and Neanastatinae, but very large sexual dimorphism is known in the subfamily Eupelminae. The Calosotinae is possibly the most plesiomorphic group, but all three subfamilies include a mixture of primitive and derived features. Eupelmidae does not have any autopomorphic features that distinguish its members from other families. This family cannot be diagnosed without including some members that do not have some of its diagnostic features and without excluding some taxa whose members have one or more of the features (Gibson, 1986).

All the species are ectoparasitoids (or hyperparasitoids) of insects usually concealed in plant tissues or cocoons, or are endoparasitoids or predators of insect or spiders eggs.

The family is distributed worldwide, mainly in the tropical and subtropical regions. Number of taxa: World – 3 subfamilies, 43 genera and 1091 species, Palaearctic – 3/14/245, Russia – 3/9/38.

References. Lindeman, 1887; Nikol'skaya, 1934b, 1952; Romanova, 1949; Nefedov, 1953; Nikol'skaya, Kyao, 1954; Kolomiets, 1957, 1958, 1962; Ryvkin, 1957; Peck, 1963; Bouček, 1966, 1977; Sinadskiy, 1967; Chumakova, 1968; Krushev, 1973; Zatyamina et al., 1976; Trjapitzin, 1978f; Artokhin, 1983a; Kalina, 1984; Gibson, 1986, 1989, 1995, 1997, 2005, 2010, 2011, 2017; Zerova et al., 1989; Sharkov, 1995b; Kostjukov et al., 2004a; Kovalenkov et al., 2004a; Zerova, Proshchalykin, 2012; Gibson, Fusu, 2016; Kosheleva, 2019a; Noyes, 2019.

Subfamily CALOSOTINAE

The species of this subfamily are characterized by broad and transverse mesoscutum, anteriorly convex with front corners protruding as shoulders behind more narrow pronotum; notauli sulcate, usually indistinct, either V-shaped or subparallel. Calosotines are ectoparasitoids of wood-inhabiting Coleoptera. Number of taxa: World – 8 genera and 157 species, Palaearctic – 4/53, Russia – 4/10.

BALCHA Walker, 1862 (*Elemba* Cameron, 1908; *Sauteria* Masi, 1927). **Type species:** *Balcha cylindrica* Walker, 1862. The genus is distributed almost worldwide, except

for Neotropical region. Number of species: World – 16, Palaearctic – 1, Russia – 1.

Balcha reticulata (Nikol'skaya, 1952) [*Calosota*]. Russia: **FE** (PR).

CALOSOTA Curtis, 1836 (*Calosoter* Walker, 1837; *Metacalosoter* Masi, 1917; *Hylephila* Masi, 1927; *Hylephilisca* Ghesquière, 1946; *Minaia* Pagliano et Scaramozzino, 1990). Type species: *Calosota vernalis* Curtis, 1836 (= *Calosota aestivalis* Curtis, 1836). Cosmopolitan. Number of species: World – 70, Palaearctic – 27, Russia – 6.

Calosota acron (Walker, 1848) [Eupelmus] (*Trigonoderus contractus* Walker, 1872; *Calosota anguinalis* Ruschka, 1921; *C. pseudotsugae* Burks, 1973). Primary parasitoid of coleopterans from the families Curculionidae (Scolytinae) and Cerambycidae; secondary parasitoid of hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), N America.

Calosota agrili Nikol'skaya, 1952. Primary parasitoid of *Agrilus* sp. (Coleoptera: Buprestidae). Russia: **EP** (C, S). – Europe (EE).

Calosota aestivalis Curtis, 1836 (*Calosota vernalis* Walker, 1837; *C. fumipennis* Bolívar y Pieltáin, 1923; *C. septentrionalis* Hedqvist, 1956; *C. kentra* Burks, 1973; *C. montana* Burks, 1973). Primary parasitoid of coleopterans from the families Anobiidae, Buprestidae, Cerambycidae, Cleridae and Curculionidae (Scolytinae). Russia: **EP** (N, NW, C, E, NC, CR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Jordan, Israel, Tajikistan, N America.

Calosota incognita Nikol'skaya, 1952. Russia: **FE** (PR).

Calosota obscura Ruschka, 1921 (*Calosota lixobia* Erdős, 1946). Primary parasitoid of coleopterans from the families Curculionidae and Mordellidae, associated with galls of Cynipidae (Hymenoptera); secondary parasitoid of *Entedon* sp. (Hymenoptera: Eulophidae). Russia: **EP** (CR). – Europe (WE, SE, EE), Uzbekistan.

EUSANDALUM Ratzeburg, 1852 (*Stenocera* Curtis, 1836; *Polymoria* Foerster, 1856; *Ratzeburgia* Foerster, 1856; *Stenoceroidea* Dalla Torre, 1897; *Meseusandalum* Girault, 1915; *Polymorioides* Masi, 1941; *Notosandalum* De Santis, 1968; *Exosandalum* Bouček, 1988). Type species: *Eusandalum abbreviatum* Ratzeburg, 1852 (= *Eupelmus inermis* Ratzeburg, 1848). Cosmopolitan. Number of species: World – 57, Palaearctic – 17, Russia – 3.

Eusandalum coronatum (Thomson, 1876) [Polymoria] (*Polymoria gomezi* Bolívar y Pieltáin, 1926; *P. segurensis* Bolívar y Pieltáin, 1926). Primary parasitoid of coleopterans from the families Buprestidae and Curculionidae. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).

Eusandalum elongatum (Ruschka, 1921) [Polymoria]. Primary parasitoid of *Phaenops cyanea* F. (Coleoptera: Buprestidae). Russia: **EP** (CR). – Europe (WE, EE).

Eusandalum flavipenne Ruschka, 1921 (*Polymoria dalmatica* Ruschka, 1921; *P. cavifrons* Nikol'skaya, 1952). Primary

parasitoid of *Agrilus cuprescens* Mén. and *A. macroderus* Abeille de Perrin (Coleoptera: Buprestidae). Russia: **EP** (C, S). – Europe (WE, SE, EE).

PENTACLADIA Westwood, 1835 (*Chirolophus* Haliday, 1862; *Charitolophus* Foerster, 1878). Type species: *Pentaccladia elegans* Westwood, 1820. The genus is distributed in the Palaearctic and Afrotropical (Madagascar) regions. Number of species: World – 7, Palaearctic – 6, Russia – 1.

Pentaccladia elegans Westwood, 1835 (*Chirolophus halidayi* Walker, 1873; *Ch. incertus* Masi, 1923). Russia: **EP** (C). – Europe (WE, SE, EE), N Africa, Azerbaijan, Mongolia.

Subfamily EUPELMINAE

The mesosoma highly dimorphic in females and males (males are pteromalid-like in features). Mesoscutum of female with notauli V-shaped or furrow-like and mesopleuron with acropleuron convex and extending to metapleuron. The majority of eupelmines apparently are ectoparasitoids of the larvae and prepupae of Diptera, Hymenoptera and Lepidoptera, predators or endoparasitoids of the eggs of Araneae, Blattaria, Heteroptera, Lepidoptera, Mantodea, Orthoptera and Phasmida (Gibson, 1995).

Number of taxa: World – 31 genera and about 844 species, Palaearctic – 8/181, Russia – 4/26.

ANASTATUS Motschulsky, 1859 (*Cacotropia* Motschulsky, 1863; *Antigaster* Walsh et Riley, 1869; *Misochoris* Rondani, 1877; *Solindenia* Cameron, 1883; *Paraguayia* Girault, 1911; *Parasolindenia* Girault, 1913; *Parooderella* Girault, 1913; *Pseudanastatus* Masi, 1917; *Pseudooderella* Brèthes, 1922; *Cerycium* Erdős, 1946; *Paravignalia* Risbec, 1951; *Vignalia* Risbec, 1951; *Proanastatus* De Santis, 1952; *Descampsia* Risbec, 1955; *Anastatimorpha* Erdős, 1957). Type species: *Anastatus mantoidae* Motschulsky, 1859. Cosmopolitan. Number of species: World – 149, Palaearctic – 32, Russia – 4.

Anastatus bifasciatus (Geoffroy, 1785) [Cynips] (*Cinips bombycum* Fonscolombe, 1832; *Pteromalus gemmarum* Fonscolombe, 1832; *P. oomyzus* Rondani, 1872; *P. ovivorus* Rondani, 1872; *Misocoris ovivorus* Rondani, 1872; *M. oophagus* Rondani, 1877; *Eupelmus subaeneus* De Stefani, 1898; *Anastatus gastropachae* Ashmead, 1904; *A. eurycephalus* Masi, 1919; *Cerycium pratense* Erdős, 1946). Primary egg-parasitoid of insects from the orders Hemiptera, Orthoptera and Lepidoptera; secondary parasitoid of *Meteorus* sp. and *Pauesia pini* Haliday (Hymenoptera: Braconidae, Aphidiidae). Russia: **EP** (C, E, S, NC, CR). – Europe (WE, NE, SE, EE), N Africa, Abkhazia, Georgia, Azerbaijan, Turkey, Lebanon, Israel, Kyrgyzstan, Kazakhstan, China, Korean Peninsula, Japan (Kyu), N America, India, SE Asia, Afrotropics.

- Anastatus giraudi** (Ruschka, 1921) [Eupelmus] (*Anastatus dolichopterus* Bolívar y Pieltáin, 1935). Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Anastatus japonicus** Ashmead, 1904 (*Anastatus disparis* Ruschka, 1921). Primary egg-parasitoid of lepidopterans. Russia: **EP** (C, E, S, NC, CR), **UR**, **ES** (BR), **FE** (PR). – Europe (WE, SE, EE), N Africa, Turkey, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NE, NC, SE), Korean Peninsula, Japan, N America (introduced), India.
- Anastatus rutilus** (Nikol'skaya, 1952) [Eupelmus]. Russia: **EP** (CR).
- EUELMUS** Dalman, 1820 (*Macroneura* Walker, 1837; *Holceupelmus* Cameron, 1905; *Charitopella* Crosby, 1909; *Bruchocida* Crawford, 1913; *Episolidelia* Girault, 1914; *Lindesonius* Brèthes, 1916; *Rafa* Brèthes, 1916; *Charitopodinus* Bridwell, 1918; *Eupelmella* Masi, 1919; *Lepideupelmus* Timberlake, 1926; *Neosolidenia* Gourlay, 1928; *Fanamokala* Risbec, 1960; *Cocceupelmus* Kalina, 1984). Type species: *Eupelmus memnonius* Dalman, 1820. Cosmopolitan. Number of species: World – 337, Palaearctic – 114, Russia – 18.
- Eupelmus (Episolidelia) australiensis** (Girault, 1913) [Idoleupelmus] (*Eupelmus australicus* Girault, 1915; *E. listeri* Girault, 1915; *E. popa* Girault, 1917; *E. zangherii* Masi, 1946; *Brasema leersiae garouae* Risbec, 1955). Primary parasitoid of *Contarinia sorghicola* Coquillett and *Stenodiplosis panici* Plotnikov (Diptera: Cecidomyiidae); secondary parasitoid of hymenopterans from the family Eulophidae. Russia: **EP** (NC). – Europe (SE, EE), China, N America, India, Afrotropics, S America, Australia.
- Eupelmus (Episolidelia) fuscipennis** Foerster, 1860 (*Eupelmus capillaris* Bolívar y Pieltáin, 1934; *Cerambycobius bifurcatus* Nikol'skaya, 1952). Primary parasitoid of *Kaltenbachiola strobili* Winn. (Diptera: Cecidomyiidae). Russia: **EP** (NC). – Europe (WE, SE, EE).
- Eupelmus (Episolidelia) linearis** Foerster, 1860 (*Eupelmus subvittatus* Walker, 1872). Primary parasitoid of Cecidomyiidae (Diptera) and *Andricus coriarius* Hartig. (Hymenoptera: Cynipidae). Russia: **EP** (NC, CR), **UR**. – Europe (WE, SE, EE), Caucasus.
- Eupelmus (Episolidelia) testaceiventris** (Motschulsky, 1863) [Roptrocerus] (*Callimome ceylonica* Motschulsky, 1863; *Idoleupelmus vulgaris* Girault, 1913; *Episolidelia varicolor* Girault, 1914; *Eupelmus auriventris* Girault, 1915; *E. baileyi* Girault, 1915; *E. folsomi* Girault, 1915; *E. scudderi* Girault, 1915; *E. vulgarellus* Girault, 1915; *E. dodo* Girault, 1921; *E. inkaka* Girault, 1921; *E. flaviger* Masi, 1934; *E. valentinus* Bolívar y Pieltáin, 1934; *Brasema leersiae* Risbec, 1956; *Eupelmus renominatus* Bouček, 1970). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (PR). – Europe (SE), China, India, Afrotropics, Australia.
- Eupelmus (Eupelmus) annulatus** Nees, 1834 (*Eupelmus nubilipennis* Foerster, 1860). Primary parasitoid of insects from the families Coccinellidae and Curculionidae (Coleoptera), Cynipidae and Diprionidae (Hymenoptera) and some Lepidoptera; secondary parasitoid of Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Saudi Arabia, Iran, N America.
- Eupelmus (Eupelmus) atropurpureus** Dalman, 1820 (*Cleonymus hemipterus* Fonscolombe, 1832). Primary parasitoid of Chrysomelidae and Curculionidae (Coleoptera), Cecidomyiidae and Chloropidae (Diptera), Cynipidae, Eurytomidae, Diprionidae and Cephidae (Hymenoptera), Coleophoridae and Zygaenidae (Lepidoptera); secondary parasitoid of hymenopterans from the family Braconidae, Eulophidae, Eurytomidae and Pteromalidae. Russia: **EP** (C, S, NC, CR), **UR**, **WS** (AL), **ES** (KR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Azerbaijan, Turkey, Kyrgyzstan, Kazakhstan, China (CC).
- Eupelmus (Eupelmus) azureus** Ratzeburg, 1844 (*Pteromalus cordairii* Ratzeburg, 1844; *Eupelmus spongipartus* Foerster, 1860). Primary parasitoid of Cynipidae (Hymenoptera). Russia: **EP** (NC). – Europe (WE, SE, EE), Turkey, Lebanon, Israel, Iran, N America.
- Eupelmus (Eupelmus) confusus** Al Khatib, 2015. Primary parasitoid of Cecidomyiidae and Tephritidae (Diptera), Cynipidae and Eurytomidae (Hymenoptera), Pyralidae (Lepidoptera). Russia: **EP** (CR). – Europe (WE, NE, SE, EE), N Africa, Armenia, Turkey, Jordan, Lebanon, Israel, United Arab Emirates, Iran.
- Eupelmus (Eupelmus) fulvipes** Foerster, 1860. Primary parasitoid of Cecidomyiidae (Diptera) and Cynipidae (Hymenoptera). Russia: **EP** (C, NC). – Europe (WE, SE, EE), Caucasus, Turkey, Azerbaijan, Iran.
- Eupelmus (Eupelmus) kiefferi** De Stefani, 1898. Primary parasitoid of insects from the families Curculionidae (Coleoptera), Cecidomyiidae (Diptera), Aphididae and Coccidae (Hemiptera), Cynipidae and Tenthredinidae (Hymenoptera), Gelechiidae, Gracillariidae, Lasiocampidae and Tortricidae (Lepidoptera). Russia: **EP** (C, S, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Syria, Jordan, Lebanon, Saudi Arabia, Kazakhstan, China, Korean Peninsula, Japan, Afrotropics.
- Eupelmus (Eupelmus) microzonus** Foerster, 1860 (*Eupelmus insulae* Masi, 1919; *E. nigricauda* Nikol'skaya, 1952). Primary parasitoid of Cynipidae and Eurytomidae (Hymenoptera) and some species from the orders of Coleoptera and Lepidoptera. Russia: **EP** (C, E, S, NC, CR), **WS** (TK, NS), **FE** (PR). – Europe (WE, SE, EE), N Africa, Abkhazia, Caucasus, Turkey, Israel, United Arab Emirates, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China, N America.
- Eupelmus (Eupelmus) pini** Taylor, 1927 (*Eupelmus aloysii* Russo, 1938; *E. sculpturatus* Nikol'skaya, 1952; *E. suecicus* Hedqvist, 1963; *E. carinifrons* Yang, 1996). Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae) and some species from the families

- Buprestidae and Cerambycidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China (NC, SW), Korean Peninsula, Japan, N America.
- Eupelmus (Eupelmus) pistaciae** Al Khatib, 2015. Parasitoid of *Megastigmus pistaciae* Walk. (Hymenoptera: Torymidae). **EP** (CR). – Europe (WE, SE), N Africa, Turkey, Saudi Arabia.
- Eupelmus (Eupelmus) simizonus** Al Khatib, 2015. Russia: **EP** (C). – Europe (WE, NE, EE).
- Eupelmus (Eupelmus) urozonus** Dalman, 1820 (*Eupelmus zonurus* Dalman, 1820; *Pteromalus orthia* Walker, 1839; *P. audouinii* Ratzeburg, 1844; *P. dufourii* Ratzeburg, 1848; *Eupelmus bedeguaris* Ratzeburg, 1852; *E. hostilis* Foerster, 1860). Primary parasitoid of various insects from the families Cynipidae (Hymenoptera), Cecidomyiidae and Tephritidae (Diptera), Chrysomelidae (Bruchinae) and Curculionidae (Coleoptera), Lymantriidae, Tortricidae and Oecophoridae (Lepidoptera). Russia: **EP** (NW, C, E, S, NC, CR), **WS** (AL), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Abkhazia, Caucasus, Turkey, Syria, Jordan, Lebanon, Israel, Saudi Arabia, Iran, Afghanistan, Pakistan, Tajikistan, Kazakhstan, China (NC, CC, SW), Korean Peninsula, Japan, N America, India, Afrotropics, Australia.
- Eupelmus (Macroneura) falcatus** (Nikol'skaya, 1952) [Eupelmella]. Primary parasitoid of *Tetramesa* sp. and secondary parasitoid of *Eurytoma* spp. (Hymenoptera: Eurytomidae). Russia: **UR**. – Europe (WE, SE, EE), Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Eupelmus (Macroneura) karschii** Lindeman, 1887. Primary parasitoid of *Mayetiola destructor* Say (Diptera: Cecidomyiidae). Russia: **EP** (C). – Europe (WE).
- Eupelmus (Macroneura) vesicularis** (Retzius, 1783) [Ichneumon] (*Eupelmus degeeri* Dalman, 1820; *E. geeri* Nees, 1834; *Macroneura maculipes* Walker, 1837; *Eupelmus messene* Walker, 1839; *Theocolax canadensis* Provancher, 1883; *Euryscapus saltator* Lindeman, 1887; *Eupelmus albitarsis* Costa, 1888). Primary or (sometimes) secondary parasitoid of insects from orders Coleoptera, Diptera, Hymenoptera and Lepidoptera. Russia: **EP** (NW, C, S, NC, CR), **WS** (TK, NS), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Abkhazia, Georgia, Armenia, Turkey, Israel, Iran, Turkmenistan, Kazakhstan, China (NE), N America, Australia.
- MEROSTENUS** Walker, 1837 (*Urocryptus* Westwood, 1839; *Eupelminus* Dalla Torre, 1897). Type species: *Merostenus phedyma* Walker, 1837 (= *Eupelmus excavatus* Dalman, 1820). The genus is distributed in the Holarctic, Afrotropical and Australasian regions. Number of species: World – 52, Palearctic – 10, Russia – 2.
- Merostenus excavatus** (Dalman, 1820) [Eupelmus] (*Merostenus phedyma* Walker, 1837). Primary parasitoid of *Hypera variabilis* Hbst. (Coleoptera: Curculionidae). Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE), N America.
- Merostenus hungaricus** (Erdős, 1959) [Eupelmus]. Reared from galls of *Pediaspis aceris* Gmelin (Hymenoptera: Cynipidae). Russia: **FE** (KH). – Europe (WE, SE, EE).
- MESOCOMYS** Cameron, 1905 (*Semianastatus* Kalina, 1984). Type species: *Mesocomys pulchriceps* Cameron, 1905. This genus is distributed in the Palearctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 13, Palearctic – 7, Russia – 2.
- Mesocomys albitarsis** (Ashmead, 1904) [Anastatus]. Egg parasitoid of lepidopterans from the families Lasiocampidae, Lymantriinae and Saturniidae. Russia: **FE** (PR). – China (NC, CC), Korean Peninsula, Japan, SE Asia.
- Mesocomys kalinai** Özdikmen, 2011 (*Semianastatus orientalis* Kalina, 1984). Egg parasitoid of *Caligula japonica* Moore (Lepidoptera, Saturniidae). Russia: **FE** (PR). – N Africa.

Subfamily NEANASTATINAE

The species of this subfamily are characterized by acropleuron separated from metapleuron by subdivided upper and lower mesepimeron; pronotum in dorsal view transverse to elongate-subtriangular, without mediolongitudinal line; dorsellum V-like; metatibia in most species compressed, wider apically than basally; fore wing entirely setose (Gibson, 1989). Primary larval or pupal parasitoids of wood-boring beetles.

Number of taxa: World – 4 genera (4 from fossils, Baltic amber) and 90 (4 fossil) species, Palearctic – 2/11 (1/1 fossil), Russia – 1/2.

METAPELMA Westwood, 1835 (*Halidea* Foerster, 1856; *Halidayella* Dalla Torre, 1897). Type species: *Metapelma spectabilis* Westwood, 1835. Cosmopolitan. Number of species: World – 38, Palearctic – 5, Russia – 2.

Metapelma nobile (Foerster, 1860) [Halidea]. Parasitoid of xylophagous coleopterans *Hedobia pubescens* Oliv. (Anobiidae) and *Agrilus roscidus* Kiesw. (Buprestidae). Russia: **EP** (NC). – Europe (WE, SE, EE), Georgia, Turkmenistan, Tajikistan.

Metapelma pacificum Nikol'skaya, 1952. Russia: **FE** (PR).

40. FAMILY ENCYRTIDAE

V.A. TRJAPITZIN AND E.V. TSELIKH

Encyrtids are minute to small chalcid wasps of 0.25–4.0 mm length. They are characterised by mesoscutum transverse and without notauli, or if sometimes notauli are presented then they are very shallow and curved; mesopleuron very enlarged; cercal plates not at apex of gaster.

Majority of encyrtids are endoparasitoids of many families of Hemiptera, but others are parasitoids of Lepidoptera, Diptera, Coleoptera and Acarina. Some species are

hyperparasitoids of other Encyrtidae, Aphelinidae, Pteromalidae, Braconidae, Dryinidae, etc. (Noyes, 2019).

Number of taxa: World – 460 genera and 3735 species, Palaearctic – 227/about 1700, Russia – 118/490.

References. Walker, 1874; Nikol'skaya, 1950; Thompson, 1955; Gordeeva, 1960; Sugonyaev, 1962, 1965a, 1965b, 1970, 1976a, 1976b, 1977, 1984, 1999; Trjapitzin, 1962, 1964, 1965, 1967, 1968, 1972, 1977, 1978d, 1986, 1988, 1989, 1994, 1998, 2001, 2007, 2011, 2012, 2013; Kozlenko, 1965; Lipa, Semyanov, 1967; Pilipyuk, 1971a, 1971b, 1974, 1981; Pilipyuk, Sugonyaev, 1971; Trjapitzin, Sugonyaev, 1972; Filatova, 1974; Pilipyuk, Trjapitzin, 1974; Shapiro et al., 1975; Bouček, 1977; Khlopunov, 1979a, 1979b, 1981a, 1981b, 1981c, 1987; Litvinchuk, Trjapitzin, 1979; Logvinovskaya, 1980, 1981; Sharkov, 1983, 1984a, 1984b, 1984c, 1985, 1986, 1988a, 1988b, 1995a; Stanionyte, 1984; Kuznetsova, 1987; Myartseva, 1987; Sharkov, Voinovich, 1988; Jensen, Sharkov, 1989; Kravchenko, 1989; Sakhnov, 1992, 1995; Krotova, 1993; Trjapitzin, Manukyan, 1993; Trjapitzin, Sitdikov, 1993; Noyes, Hayat, 1994; Sharkov, Trjapitzin, 1995; Storozheva et al., 1995; Trjapitzin et al., 1995; Voinovich et al., 1996; Trjapitzin, Doganlar, 1997; Trjapitzin, Ruiz-Cancino, 2000; Semyanov, Trjapitzin, 2004; Trjapitzin, Myartseva, 2004; Sugonyaev, Voinovich, 2006; Sugonyaev, Gavriluk, 2012; Simutnik, 2014; Yao et al., 2016; Noyes, 2019.

Subfamily ENCARTINAE

ACEROPHAGUS Smith, 1880 (*Rhopoideus* Howard, 1898; *Pseudaphycus* Clausen, 1915; *Psilomirinus* Brèthes, 1916). Type species: *Acerophagus coccois* Smith, 1880. Cosmopolitan. Number of species: World – 99, Palaearctic – 14, Russia – 6.

Acerophagus angelicus (Howard, 1898) [Aphycus]. Primary parasitoid of hemipterans from the family Pseudococcidae; secondary parasitoid of *Pachyneuron* sp. (Hymenoptera: Chalcidoidea). Russia: without regions (Noyes, Hayat, 1994). – Israel, N America, Afrotropics, S America.

Acerophagus austriacus (Mercet, 1925) [Pseudaphycus]. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE).

Acerophagus clavatus (Pilipyuk, 1981) [Pseudaphycus]. Primary parasitoid of *Phenacoccus aceris* Sign. (Hymenoptera: Pseudococcidae). Russia: **FE** (SA).

Acerophagus coccurae (Sharkov, 1995) [Pseudaphycus]. Primary parasitoid of *Coccurea suwakensis* Kuw. et Toyod. (Hymenoptera: Pseudococcidae). Russia: **FE** (AM, PR).

Acerophagus maculipennis (Mercet, 1923) [Pseudaphycus]. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (C). – Europe (WE, SE), Georgia, India, Afrotropics, Australasia.

Acerophagus malinus (Gahan, 1946) [Pseudaphycus]. Primary parasitoid of hemipterans from the families

Aphididae, Coccidae, Kermesidae and Pseudococcidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NC, CC, SW), Korean Peninsula, Japan, N America.

ADELENCYRTUS Ashmead, 1900 (*Epiencyrtoides* Girault, 1915; *Anabrolepis* Timberlake, 1920; *Rotrencyrtus* Risbec, 1959). Type species: *Encyrtus chionaspis* Howard, 1896. Cosmopolitan. Number of species: World – 44, Palaearctic – 13, Russia – 3.

Adelencyrtus aulacaspidis (Brèthes, 1914) [Prionomitus]. Primary parasitoid of hemipterans from the families Coccidae and Diaspididae; secondary parasitoid of hymenopterans from the family Aphelinidae. Russia: **EP** (NW, NC), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Kazakhstan, China (NC, CC, SW, SE), Japan, N and S America, Australasia.

Adelencyrtus intersectus (Fonscolombe, 1832) [Encyrtus] (*Encyrtus zetterstedtii* Westwood, 1837; *E. dendripennis* Ratzeburg, 1852; *Eupelmus pictipennis* Six, 1867; *Anabrolepis extranea* Timberlake, 1920). Primary parasitoid of hemipterans from the families Acleridae, Asterolecaniidae, Coccidae and Diaspididae. Russia: **EP** (NW, C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, China (NE, NC, SW, WP, SE), Japan, N America, India, SE Asia, Australasia.

Adelencyrtus subapterus (Kurdjumov, 1912) [Encyrtus]. Primary parasitoid of *Acanthococcus greeni* Newstead (Hemiptera: Eriococcidae). Russia: **EP** (C). – Europe (EE).

AGEKIANELLA Trjapitzin, 1981. Type species: *Chalcerinys notatifemur* Hoffer, 1976. Cosmopolitan. Number of species: World and Palaearctic – 2, Russia – 1.

Agekianella notatifemur (Hoffer, 1976) [Chalcerinys] (*Agekianella koponeni* Trjapitzin, 1981). Russia: **EP** (C), **FE** (PR). – Europe (NE, SE), Georgia.

AGENIASPIS Dahlbom, 1857 (*Holcothorax* Mayr, 1876; *Leuroceroides* Girault, 1915; *Paraleurocerus* Girault, 1915; *Microthopos* Girault, 1932; *Gibberella* Miller, 1961). Type species: *Encyrtus fuscicollis* Dalman, 1820. Cosmopolitan. Number of species: World – 19, Palaearctic – 10, Russia – 4.

Ageniaspis atricollis (Dalman, 1820) [Encyrtus] (*Encyrtus phrosime* Walker, 1848; *Litomastix annellus* Thomson, 1876). Primary parasitoid of lepidopterans from the families Gracillariidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, E), **UR**, **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia.

Ageniaspis fuscicollis (Dalman, 1820) [Encyrtus] (*Pteromalus cyanocephalus* Bouché, 1834; *Encyrtus cyanocephalus* Goureaux, 1847; *Ageniaspis praysincola* Silvestri, 1907). Primary parasitoid of hemipterans from the family Coccidae and lepidopterans from the families

- Gracillariidae, Noctuidae, Tortricidae and Yponomeutidae; secondary parasitoid of dipterans from the family Tephritidae. Russia: **EP** (N, NW, NC), **WS** (TK, AL), **ES** (KR, IR), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Lebanon, Israel, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NE), Korean Peninsula, N America, SE Asia, S America.
- Ageniaspis nigricollis** Khlopunov, 1979. Russia: **EP** (C).
- Ageniaspis testaceipes** (Ratzeburg, 1848) [Encyrtus] (*Holcothorax nepticulae* Mayr, 1876; *H. vellutatus* Askew, 1983). Primary parasitoid of lepidopterans from the families Gelechiidae, Gracillariidae, Lyonetiidae and Nepticulidae. Russia: **EP** (NW, C, S, NC), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Iran, Kyrgyzstan, China (NC), Korean Peninsula, Japan, N America.
- AGROMYZAPHAGUS** Gahan, 1912. Type species: *Agromyzaphagus detrimentosus* Gahan, 1912. Monotypic genus; distributed in the Holarctic region.
- Agromyzaphagus detrimentosus** Gahan, 1912 (*Bothriothorax distinctus* Mercet, 1921). Primary parasitoid of dipterans from the family Chamaemyiidae. Russia: **EP** (NC), **WS** (AL). – Europe (SE, EE), Kazakhstan, Mongolia, N America.
- ANICETUS** Howard, 1896 (*Asteropaues* Howard, 1898; *Habrolepopterygis* Girault, 1915; *Paraceraptocherus* Girault, 1920; *Krishnieriella* Mani, 1935). Type species: *Anicetus ceylonensis* Howard, 1896. Cosmopolitan. Number of species: World – 50, Palaearctic – 18, Russia – 2.
- Anicetus annulatus** Timberlake, 1919 (*Anicetus eous* Trjapitzin, 1965). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **FE** (PR). – Europe (SE), China (NE, NC, CC, SW, SE), Japan, N America, India, SE Asia, S America, Australasia.
- Anicetus thymi** Sharkov, 1988. Primary parasitoid of *Parthenolecanium persicae* F. (Hemiptera: Coccidae). Russia: **FE** (PR).
- ANTHEMUS** Howard, 1896 (*Hexalis* Bakkendorf, 1939). Type species: *Anthemus chionaspidis* Howard, 1896. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 22, Palaearctic – 7, Russia – 1.
- Anthemus funicularis** (Bakkendorf, 1939) [Hexalis]. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (NW). – Europe (NE, EE), Georgia.
- APHYCASPIS** Hoffer, 1954. Type species: *Aphycus snoflaki* Hoffer, 1954. The genus is distributed in the Palaearctic, Oriental and Neotropical regions. Number of species: World – 4, Palaearctic and Russia – 1.
- Aphycaspis snoflaki** (Hoffer, 1954) [Aphycus]. Russia: **EP** (NW, C). – Europe (NE, EE).
- APHYCOIDES** Mercet, 1921 (*Plesiomicroterys* Ishii, 1928; *Curbitus* Hoffer, 1957). Type species: *Aphycus matritensis* Mercet, 1921. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 9, Russia – 3.
- Aphycoides clavellatus** (Dalman, 1820) [Encyrtus] (*Encyrtus corybas* Walker, 1837; *E. liriopae* Walker, 1837; *E. iliithyia* Walker, 1838; *E. mysus* Walker, 1838; *E. alycoeus* Walker, 1848; *E. cephalotes* Ratzeburg, 1852; *Microterys radialis* Thomson, 1876; *Holcencyrtus physokermis* Girault, 1916; *Aphycoides merceti* Ferrière, 1953; *Curbitus viridescens* Hoffer, 1957). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (AL), **ES** (IR, YA), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Kyrgyzstan, Kazakhstan, Mongolia, Japan, N America.
- Aphycoides fuscipennis** (Ashmead, 1904) [Tachinaephagus] (*Plesiomicroterys infuscatus* Ishii, 1928). Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR, SA). – Mongolia, China, Japan.
- Aphycoides speciosus** Hoffer, 1965 (*Aphycoides czekiacus* Özdikmen, 2011). Primary parasitoid of *Eulecanium douglasi* Sulc (Hemiptera: Coccidae). Russia: **EP** (N), **WS** (TM). – Europe (NE, EE).
- APHYCULUS** Hoffer, 1954. Type species: *Aphyculus zavadili* Hoffer, 1954. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 7, Russia – 2.
- Aphyculus antoninae** Pilipyuk et Trjapitzin, 1974. Primary parasitoid of *Antonina crawi* Cock. (Hemiptera: Pseudococcidae). Russia: **FE** (SA).
- Aphyculus sasae** Sharkov, 1995. Primary parasitoid of *Dysmicoccus kaiensis* Kanda (Hemiptera: Pseudococcidae). Russia: **FE** (SA).
- APHYCUS** Mayr, 1876 (*Aphycoides* Williams, 1916; *Waterstonia* Mercet, 1917). Type species: *Encyrtus apicalis* Dalman, 1820. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 29, Palaearctic – 21, Russia – 8.
- Aphycus apicalis** (Dalman, 1820) [Encyrtus] (*Aphycus albicornis* Timberlake, 1916; *Waterstonia fuliginosa* Compere et Annecke, 1961). Primary parasitoid of hemipterans from the families Coccidae and Pseudococcidae. Russia: **EP** (NW, C, S, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, China (CC), Japan, N America.
- Aphycus danzigae** Sharkov, 1995. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **FE** (PR).
- Aphycus hadzibejliae** Trjapitzin, 1962. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC). – Georgia, Armenia, Azerbaijan.

- Aphycus moravicus** (Hoffer, 1952) [Echthroplexiella]. Russia: **WS** (AL), **ES** (IR). – Europe (WE, EE), Turkey.
- Aphycus primus** (Mercet, 1917) [Waterstonia]. Primary parasitoid of *Chionaspis pinifoliae* Fitch (Hemiptera: Diaspididae). Russia: **EP** (C). – Europe (SE), Turkey.
- Aphycus secundus** (Mercet, 1925) [Waterstonia]. Russia: **ES** (TU), **FE** (PR). – Europe (SE), N Africa.
- Aphycus shutovae** (Nikolskaya, 1952) [Metaphycus]. Primary parasitoid of *Phenacoccus aceris* Sign. (Hemiptera: Pseudococcidae). Russia: **FE** (PR).
- Aphycus sumavicus** Hoffer, 1954. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (N, NW, C). – Europe (NE, EE), Georgia.
- ARRHENOPHAGUS** Aurivillius, 1888 (*Mymariella* Risbec, 1951). Type species: *Arrhenophagus chionaspidis* Aurivillius, 1888. Cosmopolitan. Number of species: World – 4, Palaearctic and Russia – 2.
- Arrhenophagus albitibiae** Girault, 1915 (*Arrhenophagus albipes* Girault, 1915). Primary parasitoid of hemipterans from the family Diaspididae. Russia: **FE** (PR). – China (SE), Japan, N America, SE Asia.
- Arrhenophagus chionaspidis** Aurivillius, 1888 (*Coccobius diaspidis* Ashmead, 1900; *Mymariella parlatoreae* Risbec, 1951; *Arrhenophagus diaspidiatus* Agarwal, 1963; *A. intermedius* Blanchard, 1964). Primary parasitoid of hemipterans from the families Coccidae, Diaspididae and Eriococcidae. Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, China (CC, SE), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- ASTYMACHUS** Howard, 1898. Type species: *Astymachus japonicus* Howard, 1898. The genus is distributed in the Palaearctic, Oriental and Afrotropical regions. Number of species: World – 6, Palaearctic – 2, Russia – 1.
- Astymachus phragmitis** Trjapitzin, 1962. Primary parasitoid of *Nipponaclerda turanica* Borchs. (Hemiptera: Acleridae). Russia: **EP** (NC). – Azerbaijan, Turkmenistan.
- BAEOCHARIS** Mayr, 1876 (*Sphaeropisthus* Thomson, 1876). Type species: *Baeocharis pascuorum* Mayr, 1876. The genus is distributed in the Holarctic region. Number of species: World, Palaearctic and Russia – 2.
- Baeocharis maritimus** Sharkov, 1995. Russia: **FE** (PR).
- Baeocharis pascuorum** Mayr, 1876 (*Encyrtus flavoscutatus* Six, 1876). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW, C, NC), **ES** (IR), **FE** (KH). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Kazakhstan, Mongolia, China (NE), N America.
- BETHYLOMIMUS** Trjapitzin, 1962. Type species: *Bethylomimus liaoi* Trjapitzin, 1962. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 4, Russia – 2.
- Bethylomimus abaris** Trjapitzin, 1967. Russia: **FE** (PR).
- Bethylomimus academus** Trjapitzin, 1967. Russia: **FE** (PR).
- BLASTOTHRIX** Mayr, 1876. Type species: *Encyrtus sericeus* Dalman, 1820. The genus is distributed in the Holarctic and Afrotropical regions. Number of species: World – 27, Palaearctic – 25, Russia – 12.
- Blastothrix allae** Sharkov, 1985. Primary parasitoid of hemipterans from the family Kermesidae. Russia: **FE** (PR).
- Blastothrix brittanica** Girault, 1917 (*Blastothrix anomala* Sugonjaev, 1960). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **EP** (N, NW, C, NC), **WS** (AL), **ES** (IR, YA), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Iran, Pakistan, Kazakhstan, Mongolia, China (NC), N America.
- Blastothrix ericeri** Sugonjaev, 1965. Primary parasitoid of *Ericerus pela* Chavannes (Hemiptera: Coccidae). Russia: **FE** (PR).
- Blastothrix erythrostetha** (Walker, 1847) [Encyrtus] (*Blastothrix kermivora* Ishii, 1928; *B. clara* Nikolskaya, 1952). Primary parasitoid of hemipterans from the families Coccidae and Kermesidae. Russia: **EP** (C), **FE** (PR). – Europe (WE, SE, EE), N Africa, Georgia, Armenia, Turkey, Israel, Japan.
- Blastothrix hedqvisti** Sugonjaev, 1984. Primary parasitoid of *Parthenolecanium fletcheri* Cock. (Hemiptera: Coccidae). Russia: **EP** (C). – Europe (EE), N America.
- Blastothrix hungarica** Erdős, 1959 (*Blastothrix meridionalis* Sugonjaev, 1964). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC). – Europe (WE, EE), Georgia, Azerbaijan, Turkey, Iran, Afghanistan, Japan.
- Blastothrix longipennis** Howard, 1881 (*Blastothrix confusa* Erdős, 1959). Primary parasitoid of hemipterans from the families Aphididae, Coccidae, Eriococcidae, Kermesidae and lepidopterans from the family Gelechiidae. Russia: **EP** (NW, C, S, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NC), Japan, N America.
- Blastothrix matesovae** Sugonjaev, 1964. Primary parasitoid of *Eulecanium caraganae* Borchs. (Hemiptera: Coccidae). Russia: **WS** (AL), **ES** (BR), **FE** (PR). – Europe (EE), Kazakhstan, Mongolia.
- Blastothrix nikolskajae** Sugonjaev, 1964. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC), **ES** (YA), **FE** (AM, PR). – Europe (EE), Georgia, Armenia, Uzbekistan, Kazakhstan, Mongolia.
- Blastothrix sericea** (Dalman, 1820) [Encyrtus] (*Encyrtus saccas* Walker, 1851; *Blastothrix coryli* Alam, 1961). Primary parasitoid of dipterans from the family Syrphidae and hemipterans from the families Coccidae, Diaspididae, Kermesidae and Pseudococcidae. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE),

- Georgia, Turkey, Iran, Pakistan, China (NC, NW, CC, SW), N America, India.
- Blastothrix truncatipennis** (Ferrière, 1955) [Microterys] (*Microterys tatricus* Erdős, 1955; *Blastothrix pragensis* Hoffer, 1963; *Microterys minutus* Bakkendorf, 1965; *Zaomma trichomasthoides* Hoffer, 1965; *Blastothrix trjapitzini* Sugonjaev, 1976). Primary parasitoid of hemipterans from the families Aphididae and Coccidae. Russia: **EP** (N, NW, C), **ES** (IR), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, Mongolia.
- Blastothrix turanica** Sugonjaev, 1964. Primary parasitoid of *Rhodococcus turanicus* Archan. (Hemiptera: Coccidae). Russia: **EP** (NC). – Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Pakistan, Uzbekistan, Kazakhstan.
- BOTHRIOTHORAX** Ratzeburg, 1844 (*Trimorphocerus* Dahlbom, 1857). Type species: *Bothriothorax altensteini* Ratzeburg, 1844. The genus is distributed in the Holarctic region. Number of species: World – 33, Palaearctic – 22, Russia – 13.
- Bothriothorax aralius** (Walker, 1837) [Encyrtus] (*Encyrtus eupales* Walker, 1837). Russia: **EP** (C, NC), **WS** (NS). – Europe (WE, NE, EE), Armenia, Azerbaijan, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.
- Bothriothorax callosus** Thomson, 1876. Russia: **EP** (NW). – Europe (NE).
- Bothriothorax clavicornis** (Dalman, 1820) [Encyrtus] (*Bothriothorax conformis* Thomson, 1876). Primary parasitoid of dipterans from the family Syrphidae. Russia: **EP** (NW, C, S, NC), **WS** (TK, NS, AL), **FE** (KH, SA, MG, CH). – Europe (WE, NE, SE, EE), Armenia, Turkey, Uzbekistan, Mongolia, China.
- Bothriothorax cyaneus** Nikolskaya, 1952. Russia: **ES** (YA). – Europe (NE).
- Bothriothorax ghesquieri** Ferrière, 1956. Primary parasitoid of *Lipara* sp. (Diptera: Chloropidae). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia.
- Bothriothorax icelos** Trjapitzin, 1967. Russia: **FE** (PR).
- Bothriothorax intermedius** Claridge, 1964. Primary parasitoid of *Xanthogramma* sp. (Diptera: Syrphidae). Russia: **EP** (C). – Europe (WE, NE, SE).
- Bothriothorax kasparyani** Khlopunov, 1979. Russia: **FE** (KH, PR).
- Bothriothorax paliji** (Khlopunov, 1979) [Pentelicus]. Russia: **FE** (KH, PR).
- Bothriothorax paradoxus** (Dalman, 1820) [Encyrtus] (*Encyrtus nicippe* Walker, 1840). Primary parasitoid of dipterans from the family Syrphidae and lepidopterans from the families Lasiocampidae, Lymantriidae and Notodontidae; secondary parasitoid of dipterans from the family Tachinidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Mongolia.
- Bothriothorax phineus** Trjapitzin, 1967. Russia: **FE** (PR).
- Bothriothorax serratellus** (Dalman, 1820) [Encyrtus]. Primary parasitoid of dipterans from the family Syrphidae.
- Russia: **EP** (N, NW, C), **WS** (TK), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran, Tajikistan, Mongolia.
- Bothriothorax wichmani** Ferrière, 1956. Primary parasitoid of *Lonchaea* sp. (Diptera: Lonchaeidae). Russia: **EP** (NW, C). – Europe (WE, NE, EE).
- BRACHYENCYRTUS** Hoffer, 1959 (*Brachycyrtus* Hoffer, 1957, nom. praeocc., nec Kriechbaumer, 1880). Type species: *Brachycyrtus araneoides* Hoffer, 1957. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 2, Russia – 1.
- Brachyencyrtus araneoides** (Hoffer, 1957) [Brachycyrtus]. Russia: **EP** (NW). – Europe (NE, EE).
- CEBALLOSIA** Mercet, 1921. Type species: *Ceballosia dusmeti* Mercet, 1921. The genus is distributed in the Palaearctic and Oriental regions. Number of species: World and Palaearctic – 2, Russia – 1.
- Ceballosia dusmeti** Mercet, 1921. Russia: **EP** (NC). – Europe (WE, SE, EE), Armenia, Azerbaijan.
- CERAPTEROCEROIDES** Ashmead, 1904 (*Metacerap-terocerus* Ishii, 1928). Type species: *Cerapterocero-ides japonicus* Ashmead, 1904. The genus is distributed in the Palaearctic and Oriental regions. Number of species: World – 12, Palaearctic – 5, Russia – 2.
- Cerapteroceroides japonicus** Ashmead, 1904. Primary parasitoid of hemipterans from the families Coccidae, Eriococcidae, Lecanodiaspididae, Pseudococcidae and Trioizidae. Russia: **FE** (PR). – Pakistan, China (SW), Japan, India.
- Cerapteroceroides similis** (Ishii, 1925) [Cerapterocerus]. Primary parasitoid of *Ericerus pela* Chavannes (Hemiptera: Coccoidea). Russia: **FE** (PR). – China (CC, SW), Japan, India.
- CERAPTEROCERUS** Westwood, 1833 (*Jurinia* Costa, 1839; *Telegraphus* Ratzeburg, 1848). Type species: *Cerapterocerus mirabilis* Westwood, 1833. Cosmopolitan. Number of species: World – 11, Palaearctic – 4, Russia – 2.
- Cerapterocerus celadus** (Walker, 1838) [Encyrtus] (*Cerapterocerus pilicornis* Thomson, 1876). Primary parasitoid of hemipterans from the families Coccidae, Eriococcidae and Pseudococcidae. Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, China (NC).
- Cerapterocerus mirabilis** Westwood, 1833 (*Encyrtus anebus* Walker, 1837; *Jurinia platycera* Costa, 1839; *Encyrtus mirabilicornis* Foerster, 1841; *Telegraphus maculipennis* Ratzeburg, 1848; *Cerapterocerus multiradiata* Thomson, 1876). Primary parasitoid of hemipterans from the families Aclerdidae, Coccidae, Diaspididae, Kermesidae and Pseudococcidae; secondary parasitoid of hymenopterans

from the family Encyrtidae. Russia: **EP** (C, S, NC), **WS** (AL), **ES** (IR, BR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Japan, India, Afrotropics.

CERCHYSIELLA Girault, 1914 (*Aratus* Howard, 1897; *Ericydnella* Girault, 1915; *Mirrencyrtus* Girault, 1915; *Zeteticontus* Silvestri, 1915; *Mimencyrtus* Girault, 1923; *Aratiscus* Ghesquiere, 1946; *Prolitomastix* Hoffer, 1954). Type species: *Cerchysiella nigrella* Girault, 1914. Cosmopolitan. Number of species: World – 36, Palaearctic – 12, Russia – 5.

Cerchysiella amurensis (Khlopunov, 1981) [*Zeteticontus*]. Russia: **FE** (KH).

Cerchysiella centennalis (Erdős, 1955) [*Zeteticontus*]. Russia: **EP** (N, NW, C), **WS** (NS), **FE** (PR). – Europe (WE, NE, SE, EE).

Cerchysiella laeviscuta (Thomson, 1876) [*Microterys*]. Primary parasitoid of coleopterans from the families Cryptophagidae and Nitidulidae. Russia: **EP** (NW, C, NC), **UR**, **ES** (BR). – Europe (WE, NE, SE, EE), Georgia, Afghanistan, Mongolia.

Cerchysiella planiscutellum (Mercet, 1921) [*Zeteticontus*] (*Trichomasthus laeviscuta* Erdős, 1946; *Prolitomastix vestonicensis* Hoffer, 1954). Primary parasitoid of coleopterans from the family Nitidulidae. Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Afghanistan, Turkmenistan, Tajikistan, Kazakhstan.

Cerchysiella takenakai (Tachikawa, 1980) [*Zeteticontus*]. Primary parasitoid of coleopterans from the family Erotylidae. Russia: **FE** (PR). – Japan.

CERCHYSIUS Westwood, 1832. Type species: *Encyrtus urocerus* Dalman, 1820 (= *Encyrtus subplanus* Dalman, 1820). Cosmopolitan. Number of species: World – 14, Palaearctic – 3, Russia – 1.

Cerchysius subplanus (Dalman, 1820) [*Encyrtus*] (*Encyrtus urocerus* Dalman, 1820; *Cerchysius stigmatalis* Westwood, 1832; *Encyrtus melanopus* Walker, 1837; *E. caudatus* Foerster, 1841). Primary parasitoid of dipterans from the family Chamaemyiidae and hemipterans from the families Eriococcidae and Pseudococcidae. Russia: **EP** (N, NW, C, NC), **WS** (AL), **FE** (AM, KH, PR, SA, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Afghanistan, Mongolia, China, Korean Peninsula, India, SE Asia.

CERCOBELUS Walker, 1842. Type species: *Encyrtus jugaeus* Walker, 1837. The genus is distributed in the Palaearctic, Oriental and Neotropical regions. Number of species: World – 7, Palaearctic and Russia – 1.

Cercobelus jugaeus (Walker, 1837) [*Encyrtus*] (*Encyrtus parus* Walker, 1837). Primary parasitoid of hemipterans

from the family Psyllidae and lepidopterans from the family Psychidae. Russia: **EP** (NC), **FE** (KH). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan.

CHARITOPSIS Trjapitzin, 1969 (*Charitopus* Trjapitzin, 1969). Type species: *Charitopus laticornis* Trjapitzin, 1969. Monotypic Palaearctic genus.

Charitopsis laticornis (Trjapitzin, 1964) [*Charitopus*]. Russia: **EP** (C). – Europe (EE), Kazakhstan.

CHEILONEURUS Westwood, 1833 (*Chilonevrus* Agassiz, 1848; *Chrysophagus* Ashmead, 1894; *Blatticida* Ashmead, 1904; *Echthronatopus* Perkins, 1906; *Saronotum* Perkins, 1906; *Cristatithorax* Girault, 1911; *Chrysophagoides* Girault, 1915; *Epicheiloneurus* Girault, 1915; *Eusemionella* Girault, 1915; *Eusemionopsis* Girault, 1918; *Procheiloneurus* Girault, 1920; *Aulonops* Timberlake, 1922; *Hypergonatopus* Timberlake, 1922; *Raphaelana* Girault, 1926; *Bekilyia* Risbec, 1952; *Metacheiloneurus* Hoffer, 1957; *Tobiasia* Trjapitzin, 1962). Type species: *Encyrtus elegans* Dalman, 1820. Cosmopolitan. Number of species: World – 151, Palaearctic – 28, Russia – 15.

Cheiloneurus boldyrevi Trjapitzin et Agekyan, 1978. Primary parasitoid of dipterans from the family Syrphidae and hemipterans from the family Flatidae; secondary parasitoid of hymenopterans from the family Dryinidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Georgia, Armenia, Iran, Tajikistan, Uzbekistan.

Cheiloneurus claviger Thomson, 1876 (*Cheiloneurus japonicus* Ashmead, 1904; *Ch. graeffei* Ruschka, 1923). Primary parasitoid of hemipterans from the families Coccidae, Eriococcidae, Kermesidae and Pseudococcidae; secondary parasitoid of hymenopterans from the families Aphelinidae and Encyrtidae. Russia: **EP** (N, NW, C, NC), **ES** (IR, BR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, China (NE, NC, CC, SW, SE), Japan.

Cheiloneurus daghestanicus Özdikmen, 2011 (*Tobiasia bifasciata* Trjapitzin, 1962). Primary parasitoid of hemipterans from the family Acleridae. Russia: **EP** (NC). – Turkmenistan.

Cheiloneurus elegans (Dalman, 1820) [*Encyrtus*]. Primary parasitoid of dipterans from the family Cecidomyiidae and hemipterans from the families Acleridae, Coccidae, Kermesidae and Pseudococcidae; secondary parasitoid of hymenopterans from the families Encyrtidae and Platygastriidae. Russia: **EP** (NW, C, NC), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, N America, India, Afrotropics, S America.

Cheiloneurus fulvescens Hoffer, 1957. Primary parasitoid of *Tetramesa aneurolepidii* Zerova (Hymenoptera: Eurytomidae). Russia: **EP** (NW, S, NC). – Europe (WE, SE,

- EE), Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Cheiloneurus kollari** (Mayr, 1876). Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae and Pseudococcidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Iran.
- Cheiloneurus longiventris** Ruschka, 1923. Russia: **FE** (PR). – Europe (WE, EE), Kazakhstan.
- Cheiloneurus matsuyamensis** Tachikawa, 1956. Primary parasitoid of hemipterans from the family Kermesidae. Russia: **FE** (PR). – Japan.
- Cheiloneurus paralia** (Walker, 1837) [Encyrtus] (*Cheiloneurus formosus* Boheman, 1852; *Ch. eriococchi* Alam, 1957; *Ch. mongolicus* Szélnyi, 1971). Primary parasitoid of hemipterans from the families Asterolecaniidae, Cero-coccidae, Coccidae, Eriococcidae, Kermesidae and Pseudococcidae; secondary parasitoid of hymenopterans from the family Encyrtidae. Russia: **EP** (N, NW, C), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Kazakhstan, Mongolia.
- Cheiloneurus phenacocci** Trjapitzin, 1964. Primary parasitoid of hemipterans from the families Coccidae and Pseudococcidae; secondary parasitoid of hymenopterans from the family Encyrtidae. Russia: **FE** (PR). – Japan.
- Cheiloneurus quadricolor** (Girault, 1915) [Cristatithorax] (*Cheiloneurus yasumatsui* Trjapitzin, 1971; *Ch. brevipennis* Fatima et Shafee, 1994). Primary parasitoid of hemipterans from the family Lophopidae; secondary parasitoid of hymenopterans from the family Dryinidae. Russia: **UR**. – Europe (WE), N Africa, Afghanistan, Pakistan, Turkmenistan, Tajikistan, India, Australasia.
- Cheiloneurus quercus** Mayr, 1876 (*Cheiloneurus tenuicornis* Ishii, 1928). Primary parasitoid of hemipterans from the families Coccidae, Kermesidae and Pseudococcidae. Russia: **FE** (PR, SA). – Europe (WE, SE, EE), Turkey, China (NE, NC), Japan.
- Cheiloneurus rediculus** (Trjapitzin et Khlopunov, 1978) [Metacheiloneurus]. Russia: **EP** (NW, C), **WS** (AL). – Europe (NE, EE), Kazakhstan.
- Cheiloneurus submuticus** Thomson, 1876 (*Metacheiloneurus moestus* Hoffer, 1957). Russia: **EP** (NW, C), **WS** (NS), **FE** (SA, KA, MG). – Europe (WE, NE, EE), Armenia, Kazakhstan, Mongolia.
- Cheiloneurus victor** Hoffer, 1957. Russia: **EP** (NC). – Europe (SE, EE).
- CHOREIA** Westwood, 1833 (*Crantor* Haliday, 1833; *Choreaspis* Hoffer, 1953; *Paraschaediella* Hoffer, 1954). Type species: *Choreia nigroaenea* Westwood, 1833 (= *Encyrtus inepta* Dalman, 1820). The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 5, Russia – 2.
- Choreia inepta** (Dalman, 1820) [Encyrtus] (*Choreia nigroaenea* Westwood, 1833). Primary parasitoid of hemipterans *Lecanopsis formicarum* Newstead (Coccidae). Russia: **EP** (NW, C, NC), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Mongolia.
- Choreia maculata** (Hoffer, 1954) [Paraschaediella]. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC). – Europe (EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Uzbekistan, Kazakhstan.
- COCCIDENCYRTUS** Ashmead, 1900 (*Encyrtomyia* Girault, 1915; *Omphalencyrtus* Girault, 1915; *Coccidencyrtoidea* Blanchard, 1940; *Neoadelencyrtus* Hayat, Alam et Agarwal, 1975). Type species: *Encyrtus ensifer* Howard, 1885. Cosmopolitan. Number of species: World – 35, Palaearctic – 14, Russia – 3.
- Coccidencyrtus lepidosaphidis** Sharkov, 1995. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **FE** (PR).
- Coccidencyrtus maritimus** Sharkov, 1995. Russia: **FE** (PR).
- Coccidencyrtus steinbergi** Chumakova et Trjapitzin, 1964. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **FE** (PR). – Europe (SE), Korean Peninsula.
- COELOPENCYRTUS** Timberlake, 1919 (*Epaenasomyia* Girault, 1919; *Nesencyrtus* Timberlake, 1919; *Giraultella* Gahan et Fagan, 1923; *Batrachencyrtus* Jansson, 1957; *Lymanera* Szélnyi, 1972). Type species: *Coelopencyrtus odyneri* Timberlake, 1919. Cosmopolitan. Number of species: World – 31, Palaearctic – 9, Russia – 2.
- Coelopencyrtus arenarius** (Erdős, 1957) [Adelencyrtus] (*Coelopencyrtus malyshevi* Trjapitzin, 1960; *Oobius maningeri* Szélnyi, 1972). Primary parasitoid of hymenopterans from the family Apidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey.
- Coelopencyrtus callidii** (Jansson, 1957) [Batrachencyrtus] (*Coelopencyrtus cephalotus* Hedqvist, 1973). Primary parasitoid of coleopterans from the family Cerambycidae and hymenopterans from the families Apidae and Sphecidae. Russia: **EP** (C, NC). – Europe (WE, NE, EE), Turkey, Iran, Kazakhstan, Mongolia.
- COMPERIA** Gomes, 1942. Type species: *Dicarnosis merceti* Compere, 1938. Cosmopolitan. Number of species: World – 7, Palaearctic – 2, Russia – 1.
- Comperia merceti** (Compere, 1938) [Dicarnosis]. Primary parasitoid of dictyopterans from the families Blattellidae and Blattidae. Russia: **EP** (C). – Europe (WE), N America, India, Afrotropics, S America.
- COMPERIELLA** Howard, 1906 (*Pseudanusia* Girault, 1915; *Habrolepistia* Mercet, 1921). Type species: *Comperiella bifasciata* Howard, 1906. Cosmopolitan. Number of species: World – 11, Palaearctic – 5, Russia – 2.
- Comperiella bifasciata** Howard, 1906 (*Habrolepistia cera-pterocera* Mercet, 1921; *H. eugeniae* Risbec, 1952). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE,

- SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Israel, Iran, Pakistan, China (NC, CC, SW, SE), Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Comperiella indica** Ayyar, 1934. Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **FE** (PR, SA). – China (CC, SE), Japan, India.
- COPIDOSOMA** Ratzeburg, 1844 (*Litomastix* Thomson, 1876; *Pentacnemus* Howard, 1892; *Berecynthus* Howard, 1898; *Parapsilophrys* Howard, 1898; *Pseudencyrtella* Girault, 1913; *Paracaenocercus* Girault, 1915; *Zaomencyrtus* Girault, 1915; *Paracopidosomopsis* Girault, 1916; *Verdunia* Mercet, 1917; *Paralitomastix* Mercet, 1921; *Angeliconana* Girault, 1922; *Neocopidosoma* Ishii, 1923; *Parasteropaeus* Girault, 1923; *Mesocopidosomyia* Girault, 1925; *Mesencyrtus* Timberlake, 1941; *Berecynthiscus* Ghesquiere, 1946; *Arrenoclavus* Doutt, 1948; *Pentalitomastix* Eady, 1960; *Pseudolitomastix* Eady, 1960). Type species: *Copidosoma boucheanum* Ratzeburg, 1844. Cosmopolitan. Number of species: World – 208, Palaearctic – 136, Russia – 40.
- Copidosoma aeneum** Sharkov, 1985. Russia: **FE** (PR).
- Copidosoma agrotis** (Fonscolombe, 1832) [Cynips] (*Litomastix auricollis* Thomson, 1876; *L. peregrinus* Mercet, 1921). Primary parasitoid of lepidopterans from the families Noctuidae and Nymphalidae. Russia: **EP** (NW, C), **UR**, **WS** (KM, AL), **ES** (KR, IR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Turkmenistan, Kazakhstan, Mongolia, China (NE, NC, NW, WP).
- Copidosoma aithya** (Walker, 1837) [Encyrtus] (*Encyrtus hydramon* Walker, 1848; *Copidosoma kriechebaumeri* Mayr, 1876; *Litomastix phalaenarum* Thomson, 1876; *L. quercicola* Mercet, 1921; *L. salicinus* Erdős, 1956). Primary parasitoid of lepidopterans from the families Noctuidae, Oecophoridae and Pyralidae. Russia: **EP** (NW), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey.
- Copidosoma amurense** Sharkov, 1988. Russia: **FE** (KH).
- Copidosoma ancharus** (Walker, 1837) [Encyrtus] (*Cerchysius vulso* Walker, 1846; *Copidosoma nanellae* Silvestri, 1923; *C. globiceps* Erdős, 1955). Primary parasitoid of lepidopterans from the family Gelechiidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), China (NC, SW), N America.
- Copidosoma arenicola** (Trjapitzin, 1967) [Pentalitomastix]. Russia: **FE** (PR). – India.
- Copidosoma aretas** (Walker) [Encyrtus] (*Encyrtus telesto* Walker, 1838; *Copidosoma tortricis* Waterston, 1920; *Litomastix suspectus* Bakkendorf, 1965; *Copidosoma lembolovicum* Trjapitzin, 1994). Primary parasitoid of lepidopterans from the families Coleophoridae, Oecophoridae, Pyralidae and Tortricidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), China (NE, NC).
- Copidosoma augasmatis** Trjapitzin, 1968. Primary parasitoid of lepidopterans from the family Coleophoridae.
- Russia: **EP** (NC). – Armenia, Azerbaijan, Turkmenistan, Kazakhstan.
- Copidosoma boucheanum** Ratzeburg, 1844 (*Encyrtus hilaris* Ratzeburg, 1852; *E. cultriformis* Mayr, 1876; *Copidosoma cultriforme* Hoffer, 1957). Primary parasitoid of hemipterans from the family Aphididae and lepidopterans from the families Gelechiidae, Lymantriidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C), **UR**. – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran, Kazakhstan, Mongolia, China (NW, WP).
- Copidosoma cervius** (Walker, 1846) [Encyrtus] (*Litomastix truncatulus* Thomson, 1876; *L. moldavica* Hoffer, 1957; *L. tvediensis* Bakkendorf, 1965). Primary parasitoid of lepidopterans from the families Epermeniidae, Geometridae and Tortricidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Georgia.
- Copidosoma chalconotum** (Dalman, 1820) [Encyrtus] (*Encyrtus mitreus* Walker, 1837; *E. phithra* Walker, 1837). Primary parasitoid of lepidopterans from the families Geometridae, Noctuidae, Oecophoridae and Tortricidae. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), Armenia, China (NC, SW).
- Copidosoma exortivum** Sharkov, 1988. Russia: **FE** (PR).
- Copidosoma filicorne** (Dalman, 1820) [Encyrtus] (*Encyrtus geniculatus* Dalman, 1820; *E. didius* Walker, 1837; *Copidosoma montanum* Mercet, 1921; *C. glandiferellae* Barron et Bisdee, 1984). Primary parasitoid of lepidopterans from the families Gelechiidae, Tortricidae and Yponomeutidae. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Georgia, Armenia, Iran, Afghanistan, Tajikistan, Uzbekistan, Kazakhstan, China (NE), N America.
- Copidosoma flagellare** (Dalman, 1820) [Encyrtus] (*Encyrtus tegularis* Ratzeburg, 1852). Primary parasitoid of lepidopterans from the families Nymphalidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Azerbaijan, China (NE, NC).
- Copidosoma floridanum** (Ashmead, 1900) [Berecynthus] (*Copidosoma japonicum* Ashmead, 1904; *Litomastix argentinus* Brèthes, 1913; *Holcencyrtus calypso* Crawford, 1914; *Paracopidosomopsis javae* Girault, 1917; *Prionomitus brasiliensis* Brèthes, 1920; *Litomastix intermedia* Mercet, 1921; *L. walshi* Mercet, 1922; *L. maculata* Ishii, 1928; *L. brethesi* Blanchard, 1936; *L. daccaensis* Mani, 1941; *Paralitomastix phytometrae* Risbec, 1951). Primary parasitoid of hemipterans from the families Aphididae and Reduviidae and lepidopterans from the families Hesperidae, Limacodidae, Noctuidae, Notodontidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC), **UR**, **WS** (TK), **ES** (IR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Iran, China (NC, NE, CC, SE), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Copidosoma fulgens** Sharkov, 1985. Russia: **FE** (PR).
- Copidosoma fuscisquama** (Thomson, 1876) [Litomastix]. Primary parasitoid of hemipterans from the families

- Noctuidae and Tortricidae. Russia: **EP** (NW, C). – Europe (WE, NE, EE), China (NE, NC).
- Copidosoma gibbosum** Sharkov, 1988. Russia: **FE** (PR).
- Copidosoma herbicola** Sharkov, 1988. Russia: **FE** (PR).
- Copidosoma hofferi** (Sharkov, 1985) [Paralitomastix]. Russia: **FE** (PR).
- Copidosoma iole** (Trjapitzin, 1967) [Paralitomastix]. Russia: **FE** (PR).
- Copidosoma iracundum** Erdős, 1957 (*Copidosoma savsdargi* Trjapitzin, 1968). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Mongolia.
- Copidosoma iridescens** Sharkov, 1985. Russia: **FE** (PR).
- Copidosoma katuniense** (Litvinchuk et Trjapitzin, 1979) [Litomastix]. Primary parasitoid of lepidopterans from the family Tortricidae. Russia: **WS** (AL).
- Copidosoma luciphilum** (Sharkov, 1985) [Litomastix]. Russia: **FE** (PR).
- Copidosoma myartsevae** Sharkov, 1988. Russia: **FE** (PR).
- Copidosoma nekrasovi** Trjapitzin, 1998. Russia: **FE** (KA).
- Copidosoma nocturnum** Sharkov, 1985. Russia: **FE** (AM, PR).
- Copidosoma nubilum** Sharkov, 1988. Russia: **FE** (PR).
- Copidosoma paralios** (Sharkov, 1985) [Paralitomastix]. Russia: **FE** (PR).
- Copidosoma recurvariae** Sharkov, 1988. Primary parasitoid of *Recurvaria* sp. (Lepidoptera: Gelechiidae). Russia: **FE** (PR).
- Copidosoma remotum** Sharkov, 1988. Russia: **FE** (PR). – India.
- Copidosoma sinevi** Sharkov, 1988. Primary parasitoid of lepidopterans from the family Gelechiidae. Russia: **FE** (PR).
- Copidosoma sosares** (Walker, 1837) [Encyrtus] (*Encyrtus molos* Walker, 1848; *Copidosoma hartmanni* Mayr, 1876; *Litomastix latifrons* Thomson, 1876; *L. pinicola* Mercet, 1921; *L. alexandri* Myartseva, 1979; *L. dailinicus* Liao, 1987). Primary parasitoid of lepidopterans from the families Noctuidae, Oecophoridae and Tortricidae. Russia: **EP** (NW, C), **UR**, **WS** (TK, NS). – Europe (WE, NE, SE, EE), Georgia, Kyrgyzstan, China (NE).
- Copidosoma subalbicorne** (Hoffer, 1960) [Paralitomastix]. Primary parasitoid of lepidopterans from the family Gelechiidae and Araneae from the family Salticidae. Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, EE), China (NE, CC, SE), India.
- Copidosoma terebrator** Mayr, 1876 (*Copidosoma giganteum* Hoffer, 1957; *C. bohemicum* Hoffer, 1969). Primary parasitoid of lepidopterans from the family Gelechiidae. Russia: **UR**. – Europe (WE, NE, EE), China (NC).
- Copidosoma truncatellum** (Dalman, 1820) [Encyrtus] (*Encyrtus atheas* Walker, 1837; *Litomastix aestivalis* Mercet, 1921). Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae) and lepidopterans from the families Coleophoridae, Cossidae, Geometridae, Hepialidae, Noctuidae, Notodontidae, Oecophoridae and Papilionidae. Russia: **EP** (N, NW, C), **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, China (SW, WP), N America, Afrotropics, S America.
- Copidosoma ultimum** Sharkov, 1988. Russia: **FE** (PR).
- Copidosoma varicorne** (Nees, 1834) [Encyrtus] (*Paralitomastix gallaephila* Risbec, 1951; *P. sylleptae* Risbec, 1951; *Copidosoma annulata* Nikolskaya, 1952; *Paralitomastix batorligetensis* Erdős, 1960; *P. clavellatus* Erdős, 1960). Primary parasitoid of hymenopterans from the family Vespidae and lepidopterans from the families Gelechiidae, Pyralidae, Tortricidae and Yponomeutidae. Russia: **EP** (C, E, S, NC), **WS** (AL), **ES** (IR), **FE** (PR). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Lebanon, Israel, Iran, Afghanistan, Pakistan, Turkmenistan, Kazakhstan, China (NE, SW), India, Afrotropics.
- Copidosoma venustum** Sharkov, 1988. Russia: **FE** (PR).
- DISCODES** Foerster, 1856 (*Phaenodiscus* Foerster, 1856).
Type species: *Encyrtus aeneus* Dalman, 1820. The genus is distributed in the Holarctic and Afrotropical regions. Number of species: World – 41, Palaearctic – 36, Russia – 8.
- Discodes aeneus** (Dalman, 1820) [Encyrtus] (*Encyrtus melanopterus* Nees, 1834; *E. statius* Walker, 1850). Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae, Diaspididae and Pseudococcidae. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Georgia, Turkey, Israel, N America.
- Discodes bicolor** Sharkov, 1995. Russia: **WS** (AL), **FE** (PR).
- Discodes coccophagus** (Ratzeburg, 1848) [Encyrtus]. Primary parasitoid of hemipterans from the family Coccidae; secondary parasitoid of hymenopterans from the family Encyrtidae. Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Kyrgyzstan.
- Discodes coccuae** Sharkov et Sugonjaev, 1995. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **FE** (PR).
- Discodes fulvescens** Trjapitzin, 1967. Russia: **FE** (PR).
- Discodes minor** (Mercet, 1921) [Phaenodiscus]. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW). – Europe (SE).
- Discodes rubtzovi** Sugonjaev, 1971. Primary parasitoid of hemipterans from the families Cerococcidae and Coccidae. Russia: **EP** (NC). – Europe (EE), Armenia, Azerbaijan, Iran, Kazakhstan, Mongolia.
- Discodes trjapitzini** Herthetvztian, 1979. Russia: **EP** (S, NC). – Europe (WE, EE), Georgia, Armenia, Azerbaijan, Turkey.
- ECHTHROPLEXIELLA** Mercet, 1921 (*Lutfia* Trjapitzin, 1965). Type species: *Echthroxplexiella submetallica* Mercet, 1921. The genus is distributed in the Holarctic and Neotropical regions. Number of species: World – 32, Palaearctic – 31, Russia – 9.
- Echthroxplexiella aeneiventris** Mercet, 1921. Primary parasitoid of hemipterans from the family Coccidae. Russia:

- EP** (NC), **ES** (TU). – Europe (SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Mongolia.
- Echthroplexiella irinae** Nikolskaya, 1952. Russia: **UR**.
- Echthroplexiella kozlovi** Trjapitzin, 1972. Russia: **ES** (TU). – Kazakhstan.
- Echthroplexiella neiagloria** Trjapitzin, 1972. Russia: **ES** (TU, IR). – Mongolia.
- Echthroplexiella obscura** (Hoffer, 1954) [Waterstonia]. Russia: **FE** (PR). – Europe (EE), Georgia.
- Echthroplexiella phacelina** Trjapitzin, 1972. Russia: **ES** (TU). – Mongolia.
- Echthroplexiella rimshai** Trjapitzin, 2013. Russia: **EP** (C).
- Echthroplexiella splendens** Szélényi, 1972. Russia: **EP** (C), **WS** (AL). – Mongolia.
- Echthroplexiella tertia** (Hoffer, 1954) [Waterstonia]. Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, EE).
- ECHTHROPLEXIS** Foerster, 1856 (*Caenocercus* Thomson, 1876; *Bothriencyrtus* Timberlake, 1919; *Eucantabria* Mercet, 1921). Type species: *Coenocercus puncticollis* Thomson, 1876. The genus is distributed in the Holarctic region. Number of species: World – 3, Palaearctic – 2, Russia – 1.
- Echthroplexis puncticollis** (Thomson, 1876) [*Caenocercus*] (*Eucantabria azurea* Mercet, 1921). Primary parasitoid of hymenopterans from the family Cynipidae and neuropterans from the family Hemerobiidae. Russia: **EP** (C), **WS** (AL), **ES** (TU, IR). – Europe (WE, NE, SE, EE), Armenia, Mongolia.
- ECTROMA** Westwood, 1833 (*Metallon* Walker, 1848; *Pezobius* Foerster, 1860; *Concentrolinea* Bakkendorf, 1965). Type species: *Ectroma fulvescens* Westwood, 1833. The genus is distributed in the Palaearctic, Afrotropical and Neotropical regions. Number of species: World – 11, Palaearctic – 9, Russia – 5.
- Ectroma albiclavatum** (Hoffer, 1957) [Metallon]. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (C, NC), **FE** (PR, KA). – Europe (SE, EE), Georgia.
- Ectroma annulicorne** Trjapitzin, 1972. Russia: **ES** (BR), **FE** (PR). – Kazakhstan, Mongolia.
- Ectroma arenarium** (Erdős, 1955) [Metallon] (*Concentrolinea heterocornis* Bakkendorf, 1965). Russia: **EP** (NW, C), **UR**, **WS** (AL), **ES** (IR). – Europe (WE, NE, EE), Mongolia.
- Ectroma fulvescens** Westwood, 1833 (*Metallon acacalis* Walker, 1848; *Pezobius polychromus* Foerster, 1860; *Mayridia desertorum* Hoffer, 1953). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Azerbaijan.
- Ectroma reinhardi** (Mayr, 1876) [Ericydnus]. Russia: **EP** (NW, C), **UR**, **WS** (AL), **ES** (YA). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia.
- ENCYRTUS** Latreille, 1809 (*Comys* Foerster, 1856; *Eucomys* Foerster, 1856; *Howardia* Dalla Torre, 1897; *Howardiella* Dalla Torre, 1898; *Allorhopoideus* Brèthes, 1916; *Prorhopoideus* Brèthes, 1921). Type species: *Chrysis infidus* Rossi, 1790. Cosmopolitan. Number of species: World – 90, Palaearctic – 41, Russia – 6.
- Encyrtus albitarsis** Zetterstedt, 1838 (*Encyrtus niveitarsis* Thomson, 1876). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (N, NW, C), **ES** (YA), **FE** (KH, PR, MG). – Europe (WE, NE, EE).
- Encyrtus aurantii** (Geoffroy, 1785) [Cynips] (*Comys lecaniorum* Mayr, 1876; *C. bicolor* Howard, 1881; *C. albicoxa* Ashmead, 1885; *Eucomys argenticoxa* Girault, 1915; *E. argentiscapus* Girault, 1915; *E. aurantifasciata* Girault, 1915; *E. hibisci* Girault, 1915; *Allorhopoideus mirabilis* Brèthes, 1916; *Encyrtus barbatus* Timberlake, 1919; *Cheiloneurus cocci* Risbec, 1951; *Eucomys ceroplastis* Agarwal, 1965). Primary parasitoid of hemipterans from the families Aleyrodidae, Coccidae, Diaspididae, Eriococcidae and Pseudococcidae. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Lebanon, Israel, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, China (CC, SW, SE), Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Encyrtus infelix** (Embleton, 1902) [Comys] (*Eucomys hortensis* Girault, 1915; *E. proserpinensis* Girault, 1915; *E. tananarivensis* Risbec, 1952). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW, C). – Europe (WE, NE), N Africa, Turkey, Israel, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Encyrtus infidus** (Rossi, 1790) [Chrysis] (*Pteromalus scutellatus* Swederus, 1795; *Encyrtus obscurus* Dalman, 1820; *E. scutellaris* Dalman, 1820; *E. scutellaris* Fonscolombe, 1832; *Eucomys incerta* Nikolskaya, 1952). Primary parasitoid of hemipterans from the families Coccidae and Kermesidae. Russia: **EP** (N, NW), **UR**, **WS** (TM, AL), **ES** (IR, BR, YA), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NC, SE), Korean Peninsula, Japan, N America.
- Encyrtus longipes** Walker, 1874. Russia: **FE** (AM).
- Encyrtus swederi** Dalman, 1820 (*Encyrtus hirticornis* Dalman, 1820; *E. vitis* Curtis, 1832). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (N, NW, C), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Mongolia, S America.
- EUCOCCIDOPHAGUS** Hoffer, 1963. Type species: *Ixodiphagus biroi* Erdős, 1955. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 6, Russia – 3.
- Eucoccidophagus breviventris** (Kurdjumov, 1912) [Encyrtus]. Primary parasitoid of hemipterans from the family Eriococcidae. Russia: without regions (Thompson, 1955). – Europe (EE), Georgia.
- Eucoccidophagus karelianus** Sharkov, 1988. Russia: **EP** (N). – Europe (NE).

- Eucoccidophagus semiluniger** (Hoffer, 1959) [Ixodiphagus]. Primary parasitoid of hemipterans from the families Eriococcidae and Pseudococcidae. Russia: **EP** (E). – Europe (WE, EE), Mongolia.
- EUGAHANIA** Mercet, 1926. Type species: *Bothriothorax fumipennis* Ratzeburg, 1852. The genus is distributed in the Palearctic and Oriental regions. Number of species: World – 8, Palearctic – 6, Russia – 5.
- Eugahania fumipennis** (Ratzeburg, 1852) [Bothriothorax]. Primary parasitoid of hemipterans from the family Cica-dellidae. Russia: **EP** (NW, S), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Turkey, Turkmenistan, Tajikistan, Kyrgyzstan, Kazakhstan, Mongolia, China, Japan.
- Eugahania latiscapus** (Ishii, 1925) [Chalcaspis] (*Eugahania ishiharai* Tachikawa, 1956). Russia: **FE** (KH, PR). – Japan, India, SE Asia.
- Eugahania limnatis** Sharkov, 1984. Russia: **FE** (PR).
- Eugahania trjapitzini** Sharkov, 1984. Russia: **FE** (PR).
- Eugahania yanoi** Tachikawa, 1956 (*Eugahania mongolica* Hoffer, 1970). Russia: **FE** (PR, SA). – Mongolia, Japan.
- EUPOECILOPODA** Novicky et Hoffer, 1953. Type species: *Isodromus perpunctatus* Masi, 1942. The genus is distributed in the Palearctic region. Number of species: World and Palearctic – 2, Russia – 1.
- Eupoecilopoda perpunctata** (Masi, 1942) [Isodromus]. Primary parasitoid of coleopterans from the family Coccinellidae and neuropterans from the family Chrysopidae. Russia: **EP** (NW, C, S), **ES** (BR). – Europe (WE, SE, EE), Iran, Turkmenistan, Kyrgyzstan, Kazakhstan, Mongolia, China.
- EUSEMION** Dahlbom, 1857. Type species: *Encyrtus corniger* Walker, 1838 (= *Encyrtus cornigerum* Walker, 1838). The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World and Palearctic – 2, Russia – 1.
- Eusemion cornigerum** (Walker, 1838) [Encyrtus] (*Encyrtus corniger* Walker, 1838; *Eusemion tsukumiense* Tachikawa, 1957). Primary parasitoid of hemipterans from the families Coccidae, Diaspididae, Eriococcidae and Pseudococcidae; secondary parasitoid of hymenopterans from the family Encyrtidae. Russia: **EP** (N, NW, C, NC), **ES** (IR), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, China (NC, CC, SW), Japan, Australasia.
- GINSIANA** Erdős et Novicky, 1955 (*Ooencyrtus* Hoffer, 1963; *Poglothys* Szelényi, 1972). Type species: *Ginsiana obscura* Erdős et Novicky, 1955. The genus is distributed in the Holarctic region. Number of species: World – 12, Palearctic – 7, Russia – 5.
- Ginsiana carpetana** (Mercet, 1921) [Microterys] (*Copidosoma matranum* Erdős, 1957; *Ooencyrtus brevicauda* Hoffer, 1963). Russia: **EP** (NW, C, S, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Turkmenistan, Tajikistan.
- Ginsiana longicornis** Trjapitzin, 1969 (*Ginsiana tenuicornis* Hoffer, 1970). Russia: **EP** (C). – Armenia, Mongolia, China.
- Ginsiana obscura** Erdős et Novicky, 1955. Russia: **EP** (NW). – Europe (WE, NE, EE), Georgia, Mongolia.
- Ginsiana praepannonica** (Erdős, 1957) [Copidosoma] (*Ooencyrtus terebrator* Hoffer, 1963). Russia: **EP** (N, NW, C), **WS** (AL), **ES** (IR). – Europe (NE, EE), Armenia, Azerbaijan, Kazakhstan, Mongolia.
- Ginsiana sejuncta** Sharkov, 1995. Russia: **FE** (SA).
- HABROLEPIS** Foerster, 1856 (*Gymnoneura* Risbec, 1951). Type species: *Encyrtus nubilipennis* Walker, 1838 (= *Encyrtus dalmanni* Westwood, 1837). The genus is distributed in the Holarctic, Afrotropical, Neotropical and Australasian regions. Number of species: World – 17, Palearctic – 8, Russia – 1.
- Habrolepis dalmanni** (Westwood, 1837) [Encyrtus] (*Encyrtus nubilipennis* Walker, 1838; *Habrolepis pulchris* Bořoc, 1962). Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae, Diaspididae and Pseudococcidae and lepidopterans from the family Lyonetiidae. Russia: **EP** (NW, C, NC), **FE** (KH). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, N America, Afrotropics, S America, Australasia.
- HELEGONATOPUS** Perkins, 1906 (*Chalcerinys* Perkins, 1906; *Schedioides* Mercet, 1919; *Euchalcerinys* Timberlake, 1922; *Hazmburkia* Hoffer, 1954; *Masencyrtus* Hoffer, 1960). Type species: *Helegonatopus pseudophanes* Perkins, 1906. Cosmopolitan. Number of species: World – 13, Palearctic – 8, Russia – 4.
- Helegonatopus dimorphus** (Hoffer, 1954) [Hazmburkia]. Primary parasitoid of coleopterans from the family Cica-dellidae. Russia: **EP** (N, NW, C), **FE** (SA). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, Mongolia.
- Helegonatopus facialis** Szelényi, 1972. Russia: **EP** (NC). – Europe (EE).
- Helegonatopus nikolskajae** Hoffer, 1965. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Helegonatopus rasnitsyni** (Trjapitzin, 1963) [Schedioides]. Secondary parasitoid of hymenopterans from the family Dryinidae. Russia: **EP** (C), **ES** (BR). – Europe (EE), Turkmenistan, Kazakhstan, Mongolia.
- HEXENCYRTUS** Girault, 1915 (*Heteroleptomastix* Ishii, 1928; *Calliencyrtus* De Santis, 1960). Type species: *Hexencyrtus albiclava* Girault, 1915. The genus is distributed in the Palearctic, Neotropical and Australasian regions. Number of species: World – 3, Palearctic and Russia – 1.

- Hexencyrtus miyama** (Ishii, 1928) [Heteroleptomastix] (*Heteroleptomastix matsuyamensis* Tachikawa, 1963). Russia: **FE** (PR). – Japan.
- HOMALOTYLOIDEA** Mercet, 1921. Type species: *Homalotylus latiscapus* Masi, 1919. The genus is distributed in the Palaearctic and Afrotropical regions. Number of species: World – 8, Palaearctic – 7, Russia – 1.
- Homalotyloidea nowickyi** Hoffer, 1957. Russia: **EP** (NW), **ES** (IR). – Europe (WE, NE, EE), Kazakhstan.
- HOMALOTYLUS** Mayr, 1876 (*Nobrimus* Thomson, 1876; *Mendozaniella* Brèthes, 1913; *Hemaenasioidea* Girault, 1916; *Anisotylus* Timberlake, 1919; *Lepidaphycus* Blanchard, 1936; *Neoaenasioidea* Agarwal, 1966). Type species: *Encyrtus flaminus* Dalman, 1820. Cosmopolitan. Number of species: World – 66, Palaearctic – 21, Russia – 4.
- Homalotylus ephippium** (Ruschka, 1923) [Echthroplexis] (*Homalotylus rubricatus* Sharkov, 1995). Primary parasitoid of coleopterans from the family Coccinellidae. Russia: **EP** (NW), **ES** (YA), **FE** (PR). – Europe (WE, NE, SE, EE), Iran.
- Homalotylus eytelweinii** (Ratzeburg, 1844) [Encyrtus]. Primary parasitoid of coleopterans from the family Coccinellidae, dipterans from the family Phoridae and hemipterans from the family Pseudococcidae; secondary parasitoid of dipterans from the family Phoridae. Russia: **EP** (NW), **WS** (TK, AL), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Iran, Afghanistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Japan, India, SE Asia, Afrotropics, S America.
- Homalotylus flaminus** (Dalman, 1820) [Encyrtus] (*Homalotylus microgaster* Girault, 1917). Primary parasitoid of coleopterans from the families Chrysomelidae and Coccinellidae and hemipterans from the families Coccidae and Pseudococcidae. Russia: **EP** (NW, C), **WS** (TK, AL), **ES** (TU, IR), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Jordan, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE, NC, CC, SW, SE), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Homalotylus platynaspidis** Hoffer, 1963. Primary parasitoid of coleopterans from the family Coccinellidae. Russia: **EP** (C, NC). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan.
- HOPLOPSIS** De Stefani, 1889 (*Mayriella* Mercet, 1921; *Mayrisca* Ghesquiere, 1946). Type species: *Hoplopsis mayri* De Stefani, 1889 (= *Ichneumon minutus* Fabricius, 1793). The genus is distributed in the Palaearctic and Neotropical regions. Number of species: World – 2, Palaearctic and Russia – 1.
- Hoplopsis minuta** (Fabricius, 1793) [Ichneumon] (*Hoplopsis mayri* De Stefani, 1889; *Trichomasthus procerus* Mercet, 1921; *T. nigricans* Masi, 1924; *T. nigratus* Nikolskaya, 1952; *Mayriella erdosi* Hoffer, 1953). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Kazakhstan.
- IDIOCOCOPHILUS** Tachikawa et Gordh, 1987. Type species: *Idiococcophilus japonicus* Tachikawa et Gordh, 1987. Monotypic Palaearctic genus.
- Idiococcophilus japonicus** Tachikawa et Gordh, 1987. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **FE** (SA). – Japan.
- ISODROMUS** Howard, 1887 (*Parataneostigma* Girault, 1915). Type species: *Isodromus iceryae* Howard, 1887. The genus is distributed in the Holarctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 24, Palaearctic – 17, Russia – 6.
- Isodromus flaviceps** (Dalman, 1820) [Encyrtus]. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NW, C, NC), **FE** (KH, SA). – Europe (WE, NE, EE).
- Isodromus flaviscutum** Hoffer et Trjapitzin, 1978. Primary parasitoid of neuropterans from the family Chrysopidae. Russia: **EP** (C, S, NC). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kazakhstan.
- Isodromus kerzhneri** Sharkov, 1984. Russia: **FE** (PR).
- Isodromus limosus** Hoffer, 1969. Russia: **EP** (C). – Europe (EE).
- Isodromus ustianae** Hoffer et Trjapitzin, 1967. Primary parasitoid of neuropterans from the family Chrysopidae. Russia: **EP** (S). – Europe (EE), Armenia, Azerbaijan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Isodromus vinulus** (Dalman, 1820) [Encyrtus] (*Encyrtus intermedius* Boheman, 1852). Primary parasitoid of neuropterans from the family Chrysopidae. Russia: **EP** (NW, C, S), **WS** (NS), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Kazakhstan, Mongolia, N America.
- IXODIPHAGUS** Howard, 1907 (*Hunterellus* Howard, 1908; *Australzaomma* Girault, 1925). Type species: *Ixodiphagus texanus* Howard, 1907. Cosmopolitan. Number of species: World – 15, Palaearctic – 4, Russia – 2.
- Ixodiphagus hirtus** Nikolskaya, 1950. Primary parasitoid of acaridans from the family Ixodidae. Russia: **FE** (KH, PR).
- Ixodiphagus hookeri** (Howard, 1908) [Hunterellus] (*Ixodiphagus caucurtei* Buysson, 1912; *Habrolepis caniphila* Risbec, 1951). Primary parasitoid of acaridans from the family Ixodidae. Russia: **EP** (C, NC), **FE** (KH, PR). – Europe (WE, SE, EE), N Africa, Uzbekistan, Kazakhstan, N America, India, SE Asia, Afrotropics, S America, Australasia.

- LAMENNAISIA** Girault, 1922 (*Mercetencyrtus* Trjapitzin, 1963; *Sabirella* Agarwal, Agarwal et Khan, 1980; *Negeniaspidius* Trjapitzin, 1982). Type species: *Lamennaisia quadridentata* Girault, 1922. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 5, Palaearctic and Russia – 2.
- Lamennaisia ambigua** (Nees, 1834) [Encyrtus] (*Encyrtus nasidius* Walker, 1846; *E. acratos* Walker, 1848; *E. dubius* Howard, 1889; *E. dubiosus* Dalla Torre, 1898; *Habrolepoidea tarsalis* Girault, 1916; *Sabirella indica* Agarwal, Agarwal et Khan, 1980; *Adelencyrtus longiscapus* Fatima et Shafee, 1994). Primary parasitoid of coleopterans from the families Chrysomelidae (Bruchinae) and Lathrididae and hemipterans from the family Margarodidae. Russia: **EP** (NW, C, S, NC), **WS** (NS), **ES** (IR, BR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Afghanistan, Turkmenistan, Tajikistan, Kazakhstan, Mongolia, China, N America, India, SE Asia, Australasia.
- Lamennaisia nobilis** (Nees, 1834) [Encyrtus] (*Coccidencyrtus pretiosus* Mercet, 1921). Russia: **EP** (C, S, NC), **WS** (AL), **ES** (IR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Israel, Afghanistan, Turkmenistan, India, Afrotropics.
- LEIOCYRTUS** Erdős et Novicky, 1955. Type species: *Leioencyrtus clavatus* Erdős et Novicky, 1955. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 2, Russia – 1.
- Leioencyrtus clavatus** Erdős et Novicky, 1955. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- MAHENCYRTUS** Masi, 1917 (*Tyndarichoides* Mercet, 1921; *Protyndarichus* Mercet, 1923). Type species: *Mahencyrtus occultans* Masi, 1917. Cosmopolitan. Number of species: World – 14, Palaearctic – 3, Russia – 1.
- Mahencyrtus comara** (Walker, 1837) [Encyrtus] (*Tyndarichoides metallicus* Mercet, 1921; *Protyndarichus balatonicus* Erdős, 1957; *P. britannicus* Alam, 1957; *P. graminum* Erdős, 1957). Primary parasitoid of hemipterans from the families Coccidae and Pseudococcidae. Russia: **EP** (N, NW, C, NC), **FE** (KH, SA, MG). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Turkmenistan, Kazakhstan, Mongolia, China (NE).
- MAYRIDIA** Mercet, 1921 (*Superprionomitus* Mercet, 1921; *Indoencyrtus* Hayat et Verma, 1978). Type species: *Mayridia pulchra* Mercet, 1921. The genus is distributed in the Holarctic, Oriental and Afrotropical regions. Number of species: World – 34, Palaearctic – 27, Russia – 8.
- Mayridia clio** Trjapitzin, 1967. Russia: **FE** (PR).
- Mayridia clodia** Sharkov, 1995. Russia: **FE** (PR).
- Mayridia colocensis** Erdős, 1957. Russia: **EP** (S, NC). – Europe (EE), Georgia.
- Mayridia formosula** Mercet, 1921. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (C, S, NC), **ES** (IR). – Europe (SE, EE), Armenia, Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.
- Mayridia hyalipennis** Trjapitzin, 1968. Russia: **EP** (NC). – Europe (EE), Armenia, Azerbaijan.
- Mayridia myrlea** (Walker, 1838) [Encyrtus] (*Encyrtus bifasciatellus* Mayr, 1876). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (N, NW, C, NC), **FE** (SA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Tajikistan, Mongolia.
- Mayridia procera** (Mercet, 1921) [Superprionomitus]. Russia: **EP** (NW, NC), **FE** (KH, PR). – Europe (WE, SE, EE), Georgia, Turkey, Israel, Kazakhstan, N America, India.
- Mayridia pulchra** Mercet, 1921. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC), **FE** (PR). – Europe (NE, SE, EE), N Africa, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Kazakhstan, India.
- METABLASTOTHRIX** Sugonjaev, 1964. Type species: *Blastothrix (Metablastothrix) isomorpha* Sugonjaev, 1964. The genus is distributed in the Holarctic and Neotropical regions. Number of species: World and Palaearctic – 2, Russia – 1.
- Metablastothrix isomorpha** (Sugonjaev, 1964) [Blastothrix] (*Apterencyrtus trichomasthoides* Hoffer, 1965). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (N, NW, C), **ES** (IR), **FE** (AM, PR). – Europe (EE), Kazakhstan.
- METANOTALIA** Mercet, 1921. Type species: *Metanotalia hispanica* Mercet, 1921 (= *Ectroma maderensis* Walker, 1872). Distributed in the Holarctic and Australasian regions. Monotypic genus.
- Metanotalia maderensis** (Walker, 1872) [Ectroma] (*Metanotalia hispanica* Mercet, 1921). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC). – Europe (WE, SE, EE), N Africa, Turkey, Israel, N America, Australasia.
- METAPHYCUS** Mercet, 1917 (*Aenasioidea* Girault, 1911; *Tyndarichoides* Girault, 1920; *Euaphycus* Mercet, 1921; *Mercetiella* Dozier, 1926; *Oaphycus* Girault, 1932; *Erythrphycus* Compere, 1947; *Melanaphycus* Compere, 1947; *Anaphycus* Sugonjaev, 1960; *Mesaphycus* Sugonjaev, 1960; *Notoencyrtus* De Santis, 1964; *Xenaphycus* Trjapitzin, 1978; *Aenigmaphycus* Sharkov et Voynovich, 1988). Type species: *Aphycus zebratus* Mercet, 1917. Cosmopolitan. Number of species: World – 470, Palaearctic – 109, Russia – 27.
- Metaphycus asterolecanii** (Mercet, 1923) [Aphycus] (*Euaphycus variolosus* Alam, 1957). Primary parasitoid of hemipterans from the families Asterolecaniidae and

- Coccidae. Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Turkey.
- Metaphycus ater** (Mercet, 1925) [Euaphycus] (*Aphycus nigrinus* Mercet, 1921). Primary parasitoid of hemipterans from the family Eriococcidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Metaphycus chermis** (Fonscolombe, 1832) [Cinips] (*Encyrtus fulvifrons* Walker, 1838; *Aphycus mayri* Timberlake, 1916). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), N America.
- Metaphycus dispar** (Mercet, 1925) [Euaphycus] (*Metaphycus tamakatakaigara* Tachikawa, 1957). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC), **WS** (AL), **ES** (BR), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NC, NW, CC, SW), Japan, N America.
- Metaphycus ericeri** Trjapitzin, 1967. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC), **FE** (PR). – China (NE).
- Metaphycus flavovarius** (Mercet, 1921) [Paraphycus] (*Paraphycus vigil* Erdős, 1957). Russia: **EP** (N, NW, C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Turkmenistan, Mongolia.
- Metaphycus flavus** (Howard, 1881) [Aphycus] (*Aphycus hesperidum* Mercet, 1916; *Metaphycus mauritanicus* Compere, 1940). Primary parasitoid of hemipterans from the families Cerococcidae, Coccidae, Diaspididae, Eriococcidae and Kerriidae; secondary parasitoid of hymenopterans from the family Encyrtidae. Russia: without regions (Noyes, Hayat, 1994). – Europe (WE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Lebanon, Israel, Iran, N America, India, S America.
- Metaphycus insidiosus** (Mercet, 1921) [Aphycus] (*Metaphycus taxi* Alam, 1957). Primary parasitoid of hemipterans from the family Coccidae; secondary parasitoid of hymenopterans from the families Aphelinidae and Pteromalidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Kazakhstan, China (NE), N America.
- Metaphycus luteolus** (Timberlake, 1916) [Aphycus]. Primary parasitoid of hemipterans from the family Coccidae; secondary parasitoid of hymenopterans from the family Encyrtidae. Russia: without regions (Noyes, Hayat, 1994). – Europe (SE, EE), Georgia, Azerbaijan, N America, Afrotropics, S America, Australasia.
- Metaphycus maritimus** Sugonjaev, 1977. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR).
- Metaphycus melanostomatus** (Timberlake, 1916) [Aphycus]. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Japan, N America.
- Metaphycus murakamii** Sugonjaev, 1977. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR).
- Metaphycus nadius** (Walker, 1838) [Encyrtus] (*Encyrtus sylaeus* Walker, 1838; *Aphycus pinicola* Mercet, 1917; *Euaphycus intermedius* Mercet, 1925; *E. callunae* Alam, 1957; *E. duplus* Chumakova, 1961). Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae and Diaspididae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Georgia, China (NE, NW, WP).
- Metaphycus nitens** (Kurdjumov, 1912) [Aphycus]. Primary parasitoid of hemipterans from the family Eriococcidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), China (NC).
- Metaphycus paluster** (Sharkov et Voynovich, 1988) [Aenigmaphycus]. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (N). – Europe (NE).
- Metaphycus pappus** (Walker, 1838) [Encyrtus] (*Metaphycus notatus* Hoffer, 1954). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Azerbaijan.
- Metaphycus provisus** Sugonjaev, 1977. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (N), **ES** (IR, YA). – Kazakhstan.
- Metaphycus punctipes** (Dalman, 1820) [Encyrtus] (*Aphycus phaeus* Erdős, 1955; *Metaphycus salicis* Erdős, 1956). Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae) and hemipterans from the families Asterolecaniidae, Coccidae, Diaspididae and Kermesidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Azerbaijan, Lebanon, Iran, Japan, N America.
- Metaphycus rukavishnikovii** Trjapitzin, 1972. Russia: **ES** (TU), **FE** (PR). – Mongolia.
- Metaphycus sharkovi** Özdikmen, 2011 (*Aenasioidea insularis* Sharkov, 1988, nom. praecox, nec *Metaphycus insularis* Annecke and Mynhardt, 1981). Russia: **FE** (SA).
- Metaphycus sibiricus** Sugonjaev, 1977. Russia: **WS** (AL), **ES** (IR), **FE** (PR). – Kazakhstan, Mongolia.
- Metaphycus silvestrii** Sugonjaev, 1970. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (C, NC). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey.
- Metaphycus spiraeae** Trjapitzin, 1964. Russia: **ES** (YA), **FE** (PR).
- Metaphycus stagnarum** Hoffer, 1954 (*Metaphycus melanus* Sugonjaev, 1960). Primary parasitoid of hemipterans from the families Coccidae and Pseudococcidae. Russia: **EP** (N, NW), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan.
- Metaphycus taigae** Sugonjaev, 1877. Primary parasitoid of hemipterans from the family Coccidae. Russia: **ES** (IR, YA). – Kazakhstan, Mongolia.
- Metaphycus unicolor** Hoffer, 1954 (*Aphycus picearum* Erdős, 1955). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW, C), **ES** (YA). – Europe (WE, NE, SE, EE), Mongolia.

- Metaphycus zebratus** (Mercet, 1917) [Aphycus] (*Aphycus parvus* Mercet, 1921). Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae, Diaspididae, Eriococcidae and Pseudococcidae. Russia: **EP** (NW, C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Kazakhstan, Mongolia, N America, India.
- METAPSYLLAEPHAGUS** Myartseva, 1980 (*Tassiliana* Trjapitzin, 1989). Type species: *Metapsyllaephagus desantisi* Myartseva, 1980. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 11, Russia – 1.
- Metapsyllaephagus popovi** (Trjapitzin, 1967) [Psyllaephagus]. Russia: **FE** (PR).
- MICROTERTYS** Thomson, 1876 (*Sceptrophorus* Foerster, 1856; *Apentelicus* Fullaway, 1913; *Aschitus* Mercet, 1921; *Paraphaenodiscoides* Mercet, 1921; *Birous* Erdős et Novicky, 1955; *Anicetellus* Szelényi, 1972; *Viggiana* Trjapitzin, 1972). Type species: *Encyrtus sylvius* Dalman, 1820. Cosmopolitan. Number of species: World – 225, Palaearctic – 155, Russia – 44.
- Microterys aeneiventris** (Walker, 1837) [Encyrtus] (*Encyrtus micropterus* Mercet, 1921; *Metallon usticorne* Erdős, 1955; *Microterys nikolskajae* Erdős, 1955). Primary parasitoid of hemipterans from the family Eriococcidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Armenia, Kazakhstan.
- Microterys ambulator** Sharkov, 1986. Russia: **FE** (PR).
- Microterys axis** Trjapitzin, 1978. Russia: **EP** (NW).
- Microterys bellae** Trjapitzin, 1968 (*Microterys eulecanii* Pilipyuk et Sugonjaev, 1971). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC), **ES** (IR, BR, YA), **FE** (SA). – Europe (NE), Turkey, Iran, Kyrgyzstan, Kazakhstan, China.
- Microterys brachypterus** (Mercet, 1921) [Encyrtus]. Russia: **EP** (NC). – Europe (WE, SE, EE).
- Microterys cneus** Trjapitzin et Sugonjaev, 1976. Primary parasitoid of hemipterans from the families Coccidae and Pseudococcidae. Russia: **EP** (N). – Turkey, Iran.
- Microterys continentalis** Sugonjaev, 1976. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR).
- Microterys curio** Trjapitzin, 1966. Russia: **EP** (N), **ES** (YA). – Europe (NE).
- Microterys danzigae** Sugonjaev, 1971. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR, SA).
- Microterys degeneratus** Ishii, 1928. Russia: **FE** (PR). – Japan.
- Microterys duplicatus** (Nees, 1834) [Encyrtus]. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Mongolia.
- Microterys eleutherococci** Trjapitzin et Sugonjaev, 1972. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR).
- Microterys ericeri** Ishii, 1923 (*Microterys evelinae* Trjapitzin, 1966; *M. tachikawai* Sugonjaev, 1976). Russia: **FE** (PR). – Iran, China (NE, NC, CC, SW), Japan.
- Microterys fuscipennis** (Dalman, 1820) [Encyrtus] (*Microterys longiscapus* Sugonjaev, 1962). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (N, NW, C), **WS** (AL), **ES** (IR, YA), **FE** (PR, SA). – Europe (WE, NE, EE), Azerbaijan, Mongolia.
- Microterys herbaceus** Sugonjaev, 1962. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW). – Europe (EE).
- Microterys hortulanus** Erdős, 1956. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (C, S, NC). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Uzbekistan, Kyrgyzstan.
- Microterys ilus** Trjapitzin, 1967. Russia: **FE** (PR).
- Microterys incertus** Sharkov, 1986. Russia: **FE** (SA).
- Microterys interpunctus** (Dalman, 1820) [Encyrtus]. Primary parasitoid of hemipterans from the families Kermesidae and Ortheziidae. Russia: **EP** (N). – Europe (NE), Japan, N America.
- Microterys itylus** Trjapitzin, 1967. Russia: **FE** (PR).
- Microterys jalysus** (Walker, 1837) [Encyrtus] (*Paraphaenodiscus distinctus* Hoffer, 1954). Russia: **WS** (AL), **ES** (BR), **FE** (KH, PR). – Europe (NE, SE, EE), Kazakhstan, Mongolia.
- Microterys ladogensis** Trjapitzin, 1994. Russia: **EP** (NW).
- Microterys lunatus** (Dalman, 1820) [Encyrtus]. Primary parasitoid of hemipterans from the families Coccidae, Kermesidae and Pseudococcidae. Russia: **EP** (N, NW, C), **UR**, **WS** (AL), **ES** (IR, YA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, N America.
- Microterys madyes** (Walker, 1837) [Encyrtus] (*Paraphaenodiscus mariae* Hoffer, 1953; *P. javorinensis* Hoffer, 1958). Russia: **EP** (C), **WS** (AL). – Europe (WE, NE, SE, EE), Mongolia.
- Microterys matritensis** (Mercet, 1921) [Encyrtus] (*Encyrtus feudatarius* Mercet, 1921). Primary parasitoid of hemipterans from the families Acleridae and Eriococcidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Microterys melanostomatus** Trjapitzin, 1964. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR).
- Microterys notus** Sugonjaev, 1976. Primary parasitoid of hemipterans from the family Coccidae. Russia: **WS** (AL), **FE** (PR). – Europe (SE).
- Microterys novikovi** (Trjapitzin, 1994) [Aschitus]. Russia: **EP** (NW).
- Microterys obventionis** Sugonjaev, 1999. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (N), **WS** (TM).

- Microterys sasae** Pilipyuk et Trjapitzin, 1974. Russia: **FE** (SA).
- Microterys sceptoriger** (Foerster, 1841) [Encyrtus] (*Sceptorphorus anomalus* Foerster, 1856). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW, NC). – Europe (WE, NE, EE), Georgia.
- Microterys steinbergi** Sugonjaev, 1971. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC).
- Microterys subcupratus** (Dalman, 1820) [Encyrtus] (*Microterys paroudablis* Sugonjaev, 1962). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NW, C). – Europe (WE, NE, EE).
- Microterys sugonjaevi** Trjapitzin, 1968. Russia: **EP** (NC). – Europe (SE, EE), Azerbaijan.
- Microterys sylvius** (Dalman, 1820) [Encyrtus] (*Encyrtus zephyrinus* Dalman, 1820; *Microterys titiani* Girault, 1917). Primary parasitoid of hemipterans from the family Coccidae; secondary parasitoid of hymenopterans from the family Pteromalidae. Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Lebanon, Iran, Turkmenistan, Japan, N America.
- Microterys temporarius** Sugonjaev, 1976. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC).
- Microterys tessellatus** (Dalman, 1820) [Encyrtus] (*Encyrtus obscuricornis* Mercet, 1921). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW, C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Mongolia, N America.
- Microterys tricoloricornis** (De Stefani, 1886) [Encyrtus] (*Encyrtus consobrinus* Mercet, 1921). Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR). – Europe (SE), Georgia, Turkey, Israel, Turkmenistan, N America.
- Microterys tshumakovae** Pilipyuk et Sugonjaev, 1971. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (SA).
- Microterys turanicus** Sugonjaev, 1965 (*Microterys insularis* Pilipyuk et Sugonjaev, 1971). Primary parasitoid of hemipterans from the family Coccidae. Russia: **ES** (BR, YA), **FE** (AM, PR, SA). – Uzbekistan, Kyrgyzstan, Kazakhstan.
- Microterys tyimi** Pilipyuk et Sugonjaev, 1971. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (SA).
- Microterys ulmi** Sharkov, 1986. Primary parasitoid of hemipterans from the family Eriococcidae. Russia: **FE** (PR).
- Microterys vitripennis** Sharkov, 1986. Russia: **FE** (PR).
- Microterys zarina** (Walker, 1837) [Encyrtus] (*Encyrtus rogenhoferi* Mayr, 1876; *E. calonotus* Mercet, 1921; *Trichomasthus rhizococci* Trjapitzin, 1978). Primary parasitoid of hemipterans from the families Coccidae and Eriococcidae. Russia: **EP** (NW), **FE** (SA). – Europe (WE, NE, SE, EE).
- NEASTYMACHUS** Girault, 1915 (*Nikolskiella* Trjapitzin, 1962; *Pseudmicroterys* Shafee, Alam et Agarwal, 1975). Type species: *Neastymachus auraticorpus* Girault, 1915. The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World – 20, Palaearctic – 5, Russia – 2.
- Neastymachus luteus** (Nikolskaya, 1952) [Microterys]. Primary parasitoid of hemipterans from the family Aclerididae. Russia: **EP** (NC). – Turkmenistan, Uzbekistan, Mongolia.
- Neastymachus secundus** (Trjapitzin, 1962) [Nikolskiella]. Primary parasitoid of hemipterans from the family Aclerididae. Russia: **EP** (NC). – Afghanistan, Turkmenistan.
- NEOCYRTUS** Trjapitzin, 1985. Type species: *Ooencyrtus dictys* Trjapitzin, 1967. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 4, Russia – 3.
- Neocyrtus dictys** (Trjapitzin, 1967) [Ooencyrtus]. Russia: **FE** (PR).
- Neocyrtus intermedius** (Trjapitzin, 1967) [Ooencyrtus]. Russia: **FE** (PR).
- Neocyrtus pentheus** (Trjapitzin, 1967) [Ooencyrtus]. Russia: **FE** (PR).
- NERISSA** Trjapitzin, 1977. Type species: *Nerissa kuslitskyi* Trjapitzin, 1977. Monotypic Palaearctic genus.
- Nerissa kuslitskyi** Trjapitzin, 1977. Russia: **FE** (PR).
- OObIUS** Trjapitzin, 1963 (*Avetianella* Trjapitzin, 1968; *Szeleenyiola* Trjapitzin, 1977; *Oophagus* Liao, 1987). Type species: *Tyndarichus rudnevi* Nowicki, 1928. Cosmopolitan. Number of species: World – 45, Palaearctic – 12, Russia – 3.
- Oobius primorskyensis** Yao et Duan, 2016. Primary parasitoid of coleopterans from the family Buprestidae. Russia: **FE** (PR).
- Oobius rudnevi** (Nowicki, 1928) [Tyndarichus]. Primary parasitoid of coleopterans from the family Cerambycidae. Russia: without regions (Thompson, 1955). – Europe (EE), N Africa, Georgia.
- Oobius zahaikovitshi** Trjapitzin, 1963. Primary parasitoid of coleopterans from the family Buprestidae. Russia: **EP** (C, S, NC). – Europe (WE, SE, EE), Georgia.
- OOENCYRTUS** Ashmead, 1900 (*Echthrodryinus* Perkins, 1906; *Ectopiognatha* Perkins, 1906; *Fulgoridicida* Perkins, 1906; *Schedius* Howard, 1910; *Tetracnemella* Girault, 1915; *Xesmatia* Timberlake, 1920; *Pseudolitomastix* Ristic, 1954; *Simmondsiella* Noyes, 1980). Type species: *Encyrtus clisiocampae* Ashmead, 1893. Cosmopolitan. Number of species: World – 339, Palaearctic – 67, Russia – 11.
- Ooencyrtus acastus** Trjapitzin, 1967. Russia: **FE** (PR). – Europe (NE).

- Ooencyrtus acestes** Trjapitzin, 1967. Russia: **FE** (PR).
- Ooencyrtus dictyoplocae** Sharkov, 1995. Primary parasitoid of lepidopterans from the family Saturniidae. Russia: **FE** (PR).
- Ooencyrtus fecundus** Ferrière et Voegelé, 1961. Primary parasitoid of hemipterans from the families Coreidae, Pentatomidae, Pyrrhocoridae, Reduviidae and Scutelleridae and lepidopterans from the families Lasiocampidae and Sphingidae. Russia: **EP** (NW). – N Africa, Turkey, Iran.
- Ooencyrtus kuvanae** (Howard, 1910) [Schedius] (*Ooencyrtus malacosomae* Liao, 1987). Primary parasitoid of hemipterans from the families Coreidae and Fulgoridae, lepidopterans from the families Lasiocampidae, Lymantriidae and Saturniidae and neuropterans from the family Chrysopidae; secondary parasitoid of hymenopterans from the families Braconidae and Eupelmidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, SE, EE), N Africa, Georgia, Turkey, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NE, NC, NW, SW), Korean Peninsula, Japan, N America, SE Asia, Afrotropics.
- Ooencyrtus nigerrimus** Ferrière et Voegelé, 1961. Primary parasitoid of hemipterans from the families Coreidae, Pentatomidae, Pyrrhocoridae, Reduviidae and Scutelleridae and lepidopterans from the families Lasiocampidae and Sphingidae. Russia: **EP** (NW). – Europe (NE), N Africa, Iran.
- Ooencyrtus pinicola** (Matsumura, 1926) [Encyrtus]. Primary parasitoid of lepidopterans from the families Bombycidae, Lasiocampidae and Lymantriidae. Russia: **UR**, **WS** (OM, TK, NS, KM, AL), **ES** (TU, IR, BR), **FE** (AM, PR, SA). – Kazakhstan, China (NE, NW), Japan.
- Ooencyrtus smirnovi** Myartseva, 1986. Primary parasitoid of lepidopterans from the family Geometridae. Russia: **EP** (NC).
- Ooencyrtus solidus** Khlopunov, 1981. Primary parasitoid of hemipterans from the family Pentatomidae. Russia: **EP** (C). – Europe (NE).
- Ooencyrtus tardus** (Ratzeburg, 1844) [Encyrtus] (*Ooencyrtus concinnus* Romanova, 1954). Primary parasitoid of lepidopterans from the families Lasiocampidae and Lymantriidae. Russia: **EP** (C, E, S, NC), **UR**, **FE** (PR). – Europe (WE, EE), N Africa, Georgia, Turkey, Kazakhstan.
- Ooencyrtus telenomicida** (Vassiliev, 1904) [Encyrtus] (*Schedius flavofasciatus* Mercet, 1921). Primary parasitoid of hemipterans from the families Coreidae, Pentatomidae, Pyrrhocoridae, Reduviidae and Scutelleridae, lepidopterans from the families Lasiocampidae, Lymantriidae, Notodontidae, Papilionidae and Sphingidae; secondary parasitoid of hymenopterans from the family Scelionidae. Russia: **EP** (C, E, S, NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Pakistan, Turkmenistan, Uzbekistan, Kazakhstan, China (NC), India.
- ORIENCYRTUS** Sugonjaev et Trjapitzin, 1974. Type species: *Oriencyrtus beybienkoi* Sugonjaev et Trjapitzin, 1974. Number of species: World and Palaearctic – 2, Russia – 1.
- Oriencyrtus beybienkoi** Sugonjaev et Trjapitzin, 1974. Primary parasitoid of hemipterans from the families Coccidae and Margarodidae. Russia: **FE** (PR). – Mongolia, China (NE, NC, NW).
- PARABLASTOTHRIX** Mercet, 1917 (*Calometopia* Mercet, 1921). Type species: *Calometopia flavicornis* Mercet, 1917. The genus is distributed in the Holarctic, Neotropical and Australasian regions. Number of species: World – 340, Palaearctic – 16, Russia – 4.
- Parablastothrix kodensis** (Hoffer, 1957) [Calometopia]. Russia: **EP** (C). – Europe (EE).
- Parablastothrix maritima** Logvinovskaya, 1981. Primary parasitoid of lepidopterans from the family Nepticulidae. Russia: **FE** (PR).
- Parablastothrix montana** Erdős, 1955. Primary parasitoid of lepidopterans from the families Gracillariidae and Nepticulidae. Russia: **EP** (N, NW, C). – Europe (WE, NE, EE).
- Parablastothrix trjapitzini** Logvinovskaya, 1980. Russia: **EP** (C).
- PARABLATTICIDA** Girault, 1915 (*Holanusia* Girault, 1915; *Geniaspidius* Masi, 1917; *Symphycus* Masi, 1917; *Amaurilyma* Graham, 1958; *Desobius* Noyes, 1980). Type species: *Parablatticida pachyscapa* Girault, 1915. The genus is distributed in the Palaearctic, Oriental and Neotropical regions. Number of species: World – 15, Palaearctic – 4, Russia – 3.
- Parablatticida brevicornis** (Dalman, 1820) [Encyrtus] (*Encyrtus gabestus* Walker, 1838). Primary parasitoid of lepidopterans from the family Yponomeutidae. Russia: **EP** (N, NW, C, NC), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Mongolia, China (CC, SW, SE), India.
- Parablatticida citri** (Mercet, 1921) [Aphidencyrtus]. Russia: **EP** (NW, C), **ES** (IR), **FE** (PR). – Europe (NE, SE), China (NE), Korean Peninsula, Japan.
- Parablatticida terebrata** (Trjapitzin, 1965) [Amaurilyma]. Russia: **FE** (PR). – China (NE).
- PARATETRACNEMOIDEA** Girault, 1915 (*Rhinoencyrtus* Mercet, 1918). Type species: *Paratetracnemoidea breviventris* Girault, 1915. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 5, Palaearctic and Russia – 1.
- Paratetracnemoidea malenotti** (Mercet, 1918) [Rhinoencyrtus]. Russia: **EP** (NC). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Turkmenistan, China, India, Afrotropics.

- PENTACLADOCERUS** Erdős, 1963 (*Homalotyloda* Széle-nyi, 1972). Type species: *Pentacladocerus matranus* Erdős, 1947. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 1.
- Pentacladocerus matranus** Erdős, 1947 (*Homalotyloda depressa* Széle-nyi, 1972). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **WS** (AL). – Europe (EE), Armenia, Turkmenistan, Kyrgyzstan, Kazakhstan, Mongolia, China.
- PLATENCYRTUS** Ferrière, 1955 (*Platyencyrtus* Erdős et Novicky, 1955). Type species: *Platencyrtus parkeri* Ferrière, 1955. The genus is distributed in the Holarctic region. Number of species: World – 2, Palaearctic – 1, Russia – 1.
- Platencyrtus parkeri** Ferrière, 1955 (*Platyencyrtus esuriens* Erdős et Novicky, 1955). Primary parasitoid of hymenopterans from the family Pseudococcidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, N America.
- PRIONOMASTIX** Mayr, 1876 (*Liocarus* Thomson, 1876; *Chestomorpha* Ashmead, 1900; *Aprionomastix* Girault, 1913). Type species: *Encyrtus morio* Dalman, 1820. The genus is distributed in the Holarctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 30, Palaearctic and Russia – 1.
- Prionomastix morio** (Dalman, 1820) [Encyrtus]. Primary parasitoid of coleopterans from the family Apionidae and hemipterans from the family Membracidae. Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Kazakhstan, SE Asia.
- PRIONOMITUS** Mayr, 1876. Type species: *Encyrtus chlorinus* Dalman, 1820 (= *Encyrtus mitratus* Dalman, 1820). The genus is distributed in the Holarctic region. Number of species: World – 9, Palaearctic – 8, Russia – 3.
- Prionomitus mitratus** (Dalman, 1820) [Encyrtus] (*Encyrtus chlorinus* Dalman, 1820; *E. coniferae* Walker, 1837). Primary parasitoid of hemipterans from the families Psyllidae and Triozidae. Russia: **EP** (N, NW, C, NC), **ES** (YA), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Israel, Iran, Turkmenistan, Tajikistan, Kyrgyzstan, Kazakhstan, Mongolia, N America.
- Prionomitus tiliaris** (Dalman, 1820) [Encyrtus]. Primary parasitoid of hemipterans from the family Psyllidae. Russia: **EP** (N, NW, C), **ES** (IR), **FE** (PR, SA, MG). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Kazakhstan, Mongolia, China, Korean Peninsula, N America.
- Prionomitus visci** Sharkov, 1984. Russia: **FE** (PR).
- PROCHILONEURUS** Silvestri, 1915 (*Achrysopopha-gus* Girault, 1915; *Neoprochiloneurus* Viggiani, 1966; *Prochiloneuroides* Hayat, Alam et Agarwal, 1975). Type species: *Prochiloneurus pulchellus* Silvestri, 1915. Cosmopolitan. Number of species: World – 30, Palaearctic – 11, Russia – 2.
- Prochiloneurus bolivari** Mercet, 1919 (*Chiloneurus stylatus* Ruschka, 1923; *Neoprochiloneurus fukudai* Tachikawa, 1971). Primary parasitoid of hemipterans from the families Coccidae, Eriococcidae and Pseudococcidae; secondary parasitoid of hymenopterans from the family Encyrtidae. Russia: **EP** (C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Uzbekistan, Mongolia, Japan, India, Afrotropics, S America.
- Prochiloneurus nagasakiensis** (Ishii, 1928) [Cheiloneurus]. Primary parasitoid of hemipterans from the families Coccidae and Pseudococcidae. Russia: **FE** (PR). – China (NC, CC), Japan, SE Asia.
- PSEUDENCYRTUS** Ashmead, 1900. Type species: *Encyrtus cecidomyiae* Howard, 1885. The genus is distributed in the Holarctic region. Number of species: World – 11, Palaearctic – 8, Russia – 7.
- Pseudencyrtus eumedes** Trjapitzin, 1978. Russia: **EP** (N, NW, C), **UR**. – Europe (WE, NE, SE).
- Pseudencyrtus idmon** (Walker, 1848) [Encyrtus] (*Microte-rys claviger* Thomson, 1876). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE).
- Pseudencyrtus ixion** (Trjapitzin, 1967) [Psyllaephagus]. Russia: **FE** (PR).
- Pseudencyrtus milovidovi** Trjapitzin, 2007. Russia: **EP** (C).
- Pseudencyrtus misellus** (Dalman, 1820) [Encyrtus] (*Encyrtus tennes* Walker, 1837; *Pseudencyrtus dubius* Erdős, 1957). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, EE), China.
- Pseudencyrtus salicicola** Sharkov, 1995. Russia: **FE** (SA).
- Pseudencyrtus salicisstrobili** (Linnaeus, 1758) [Cynips] (*Encyrtus sitalces* Walker, 1837). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (N, NW), **ES** (YA). – Europe (WE, NE, EE).
- PSEUDOCOCCOBIUS** Timberlake, 1916 (*Australrhopo-ideus* Girault, 1926; *Pezaphycus* Nowickij, 1926). Type species: *Aphycus terryi* Fullaway, 1913. The genus is distributed in the Holarctic, Afrotropical and Australasian regions. Number of species: World – 12, Palaearctic – 4, Russia – 1.
- Pseudococcobius obenbergeri** (Novickij, 1926) [Pezaphycus] (*Aphycus pannonicus* Erdős, 1946; *A. antennalis* Alam, 1957; *A. brachypterus* Alam, 1957). Primary parasitoid of hemipterans from the families Eriococcidae and Pseudococcidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, EE), Georgia, Armenia, Azerbaijan, Turkey.

- PSEUDORHOPUS** Timberlake, 1926 (*Americencyrtus* Sugonjaev, 1989). Type species: *Encyrtus testaceus* Ratzeburg, 1848. The genus is distributed in the Holarctic region. Number of species: World – 3, Palaearctic and Russia – 1.
- Pseudorhopus testaceus** (Ratzeburg, 1848) [Encyrtus] (*Pseudorhopus britannicus* Alam, 1957). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), Azerbaijan.
- PSILOPHRYS** Mayr, 1876. Type species: *Encyrtus longicornis* Walker, 1847 (= *Psilophrys tenuicornis* Graham, 1969). The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 6, Russia – 1.
- Psilophrys tenuicornis** Graham, 1969 (*Encyrtus longicornis* Walker, 1847). Primary parasitoid of hemipterans from the families Coccidae and Kermesidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Armenia, Turkey, China (NC, CC, SW, SE).
- PSYLLAEPHAGUS** Ashmead, 1900 (*Mirocerus* Ashmead, 1904; *Calocerineloides* Girault, 1913; *Epanagyrus* Girault, 1915; *Neanagyrus* Girault, 1915; *Anagyropsis* Girault, 1917; *Metaprimonitus* Mercet, 1921; *Shakespeareia* Girault, 1928; *Psyllencyrtus* Tachikawa, 1955; *Calluniphilus* Erdős, 1961; *Anisodromus* Riek, 1962; *Propsyllaephagus* Blanchard, 1964; *Mercetia* Bakkendorf, 1965; *Kaszabicyrtus* Szelenyi, 1971). Type species: *Encyrtus pachypsyllae* Howard, 1885. Cosmopolitan. Number of species: World – 245, Palaearctic – 70, Russia – 14.
- Psyllaephagus abbreviatus** (Hoffer, 1963) [Metaprimonitus]. Russia: **EP** (NW, C, NC), **WS** (AL), **FE** (KH, PR). – Europe (WE, NE, EE), Armenia, Mongolia.
- Psyllaephagus amotus** Sharkov, 1995. Russia: **FE** (SA).
- Psyllaephagus arenarius** Trjapitzin, 1967. Primary parasitoid of hemipterans from the family Psyllidae. Russia: **EP** (NC).
- Psyllaephagus arenicola** (Trjapitzin, 1968) [Calluniphilus]. Russia: **EP** (NC). – Europe (NE), Turkmenistan.
- Psyllaephagus belanensis** (Hoffer, 1964) [Ooencyrtus] (*Psyllaephagus tobiassi* Trjapitzin, 1967). Primary parasitoid of hemipterans from the family Psyllidae. Russia: **EP** (S, NC). – Europe (WE, NE, EE), Azerbaijan, Kazakhstan, Mongolia.
- Psyllaephagus bouceki** Trjapitzin, 1967 (*Calluniphilus enigmaticus* Trjapitzin, 1967). Russia: **FE** (PR).
- Psyllaephagus claripes** Trjapitzin, 1967. Primary parasitoid of hemipterans from the family Psyllidae. Russia: **FE** (PR). – Iran.
- Psyllaephagus hyperboreus** Trjapitzin, 1986. Russia: **EP** (NW). – Europe (NE).
- Psyllaephagus lusitanicus** (Mercet, 1921) [Copidosoma] (*Psyllaephagus cocci* Alam, 1957; *Calluniphilus vendicus* Erdős, 1961; *Ooencyrtus albopilosus* Hoffer, 1963). Primary parasitoid of hemipterans from the family Asterolecaniidae. Russia: **EP** (N, NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia.
- Psyllaephagus morulus** Sharkov, 1995. Russia: **FE** (PR).
- Psyllaephagus porus** (Trjapitzin, 1967) [Calluniphilus]. Russia: **FE** (PR).
- Psyllaephagus procerus** (Mercet, 1921) [Metaprimonitus]. Primary parasitoid of hemipterans from the families Coccidae and Psyllidae. Russia: **EP** (C). – Europe (SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Mongolia.
- Psyllaephagus tricosus** Sharkov, 1995. Russia: **FE** (PR).
- Psyllaephagus vereshchagini** Trjapitzin, 2012. Russia: **EP** (C).
- QUADRENCYRTUS** Hoffer, 1952. Type species: *Quadrencyrtus paradoxus* Hoffer, 1952. Monotypic Palaearctic genus.
- Quadrencyrtus paradoxus** Hoffer, 1952. Russia: **EP** (C), **WS** (AL). – Europe (WE, EE), Tajikistan, Kazakhstan.
- SAULEIA** Sugonjaev, 1964. Type species: *Sauleia monticola* Sugonjaev, 1964. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 2, Russia – 1.
- Sauleia dlabolai** Hoffer, 1970. Primary parasitoid of hemipterans from the family Coccidae. Russia: **ES** (IR, BR, YA). – Mongolia.
- SECTILICLAVA** Hoffer, 1957 (*Parapsyllaephagus* Robinson, 1961). Type species: *Sectiliclava paliuri* Hoffer, 1957 (= *Encyrtus cleone* Walker, 1844). The genus is distributed in the Holarctic and Neotropical regions. Number of species: World – 4, Palaearctic and Russia – 1.
- Sectiliclava cleone** (Walker, 1844) [Encyrtus] (*Litomastix unguicularis* Thomson, 1876; *Sectiliclava paliuri* Hoffer, 1957; *Parapsyllaephagus aduaticollis* Robinson, 1961). Primary parasitoid of hemipterans from the family Psyllidae. Russia: **EP** (NW, C), **ES** (BR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Uzbekistan, Kyrgyzstan, Mongolia, China.
- SEMEN** Hoffer, 1954. Type species: *Semen apterum* Hoffer, 1954. Monotypic Palaearctic genus.
- Semen apterum** Hoffer, 1954. Russia: **EP** (NC). – Europe (SE, EE), Turkmenistan.
- STEMMATOSTERES** Timberlake, 1918. Type species: *Stemmatosteres apterus* Timberlake, 1918. The genus is distributed in the Holarctic, Afrotropical and Neotropical regions. Number of species: World – 5, Palaearctic and Russia – 1.

- Stemmatosteres bohemicus** Hoffer, 1954. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C). – Europe (WE, NE, EE).
- SUBPRIONOMITUS** Mercet, 1921 (*Kakaoburra* Girault, 1922). Type species: *Subprionomitus cantabricus* Mercet, 1921 (= *Encyrtus festucae* Mayr, 1876). The genus is distributed in the Palearctic, Oriental and Australasian regions. Number of species: World – 6, Palearctic – 4, Russia – 2.
- Subprionomitus festucae** (Mayr, 1876) [Encyrtus] (*Subprionomitus cantabricus* Mercet, 1921). Primary parasitoid of dipterans from the family Chamaemyiidae and hemipterans from the family Coccidae. Russia: **EP** (NW, C, S, NC). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkmenistan, Kazakhstan.
- Subprionomitus obscuripennis** Mercet, 1921. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (C). – Europe (SE, EE).
- SYRPHOPHAGUS** Ashmead, 1900 (*Aphidencyrtus* Ashmead, 1900; *Echthrocacca* Perkins, 1906; *Nesyrrhophagus* Girault, 1915; *Hexanusia* Girault, 1922; *Syrphidencyrtus* Blanchard, 1940). Type species: *Encyrtus mesograptae* Ashmead, 1896 (= *Pteromalus quadrimaculatae* Ashmead, 1881). Cosmopolitan. Number of species: World – 84, Palearctic – 48, Russia – 21.
- Syrphophagus acamas** (Trjapitzin, 1967) [Aphidencyrtus]. Russia: **FE** (PR).
- Syrphophagus aeruginosus** (Dalman, 1820) [Encyrtus] (*Encyrtus dercilus* Walker, 1837; *E. thinaeus* Walker, 1837; *E. aenescens* Zetterstedt, 1838; *E. meges* Walker, 1846; *E. syrphi* Ratzeburg, 1852; *E. congruus* Walker, 1872). Primary parasitoid of dipterans from the family Syrphidae and hemipterans from the families Aphididae, Coccidae and Psyllidae. Russia: **EP** (N, NW, C, E, S, NC), **ES** (IR, YA), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Mongolia, China, India.
- Syrphophagus amabilis** Sharkov, 1995. Russia: **FE** (PR).
- Syrphophagus aphidivorus** (Mayr, 1876) [Encyrtus] (*Eupelmus schizoneuræ* Ashmead, 1885; *Aphidencyrtus aphidiphagus* Ashmead, 1887; *Eupelmus megouræ* Ashmead, 1887; *E. websteri* Howard, 1890; *Microterys submetallicus* Mercet, 1921; *Syrphophagus silvestrinus* Ghesquiere, 1956; *S. merceti* Erdős, 1957; *Aphidencyrtus psyllæ* Kaul et Agarwal, 1986; *Adelencyrtus kerrichi* Fatima et Shafee, 1994). Primary parasitoid of dipterans from the families Agromyzidae, Chamaemyiidae and Syrphidae, hemipterans from the families Aleyrodidae, Aphididae and Psyllidae and hymenopterans from the family Argidae and Cynipidae; secondary parasitoid of hymenopterans from the families Aphelinidae, Braconidae, Encyrtidae and Figitidae. Russia: **EP** (NW, NC), **WS** (NS, KM), **ES** (YA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Iraq, Jordan, Iran, Pakistan, Turkmenistan, Mongolia, China (NE, NC, CC, SW, SE), N America, India, Afrotropics, S America.
- Syrphophagus ariantes** (Walker, 1837) [Encyrtus] (*Encyrtus elbasus* Walker, 1837; *E. scythis* Walker, 1838). Primary parasitoid of hemipterans from the family Trioizidae. Russia: **EP** (NW, C), **ES** (IR), **FE** (PR, MG). – Europe (WE, NE, EE), Georgia, Mongolia.
- Syrphophagus arundinicola** Hoffer, 1965. Primary parasitoid of hemipterans from the family Aphididae. Russia: **EP** (C, NC), **WS** (NS), **FE** (PR). – Europe (SE, EE), Georgia, Armenia.
- Syrphophagus fabulosus** Hoffer, 1965. Primary parasitoid of hemipterans from the family Aphididae. Russia: **EP** (C). – Europe (EE), Mongolia.
- Syrphophagus fuscipes** (Dalman, 1820) [Encyrtus]. Primary parasitoid of dipterans from the family Cecidomyiidae and hemipterans from the family Aphididae. Russia: **EP** (N, NW). – Europe (WE, NE, EE), Mongolia.
- Syrphophagus herbicus** (Dalman, 1820) [Encyrtus] (*Encyrtus batillus* Walker, 1837; *Syrphophagus tegularis* Hoffer, 1970). Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (C, NC), **ES** (IR, BR), **FE** (PR, CH). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkmenistan, Mongolia.
- Syrphophagus hyalipennis** (Mayr, 1876) [Encyrtus]. Russia: **EP** (N, NW, C). – Europe (WE, EE), Armenia, Azerbaijan.
- Syrphophagus kasparyani** Sharkov, 1995. Russia: **FE** (PR).
- Syrphophagus kostjukovi** Trjapitzin, 1998. Russia: **EP** (N, NW).
- Syrphophagus kovalevi** (Trjapitzin, 1967) [Psyllaephagus]. Primary parasitoid of hemipterans from the family Trioizidae. Russia: **FE** (PR).
- Syrphophagus mamitus** (Walker, 1837) [Encyrtus] (*Encyrtus erylus* Walker, 1838; *Microterys cantabricus* Mercet, 1921). Primary parasitoid of hemipterans from the families Aphididae and Psyllidae; secondary parasitoid of hymenopterans from the families Braconidae and Encyrtidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Georgia.
- Syrphophagus pacificus** Sharkov, 1995. Russia: **FE** (PR).
- Syrphophagus pertiades** (Walker, 1837) [Encyrtus] (*Syrphophagus magnus* Hoffer, 1965). Primary parasitoid of dipterans from the family Syrphidae. Russia: **EP** (NW, C), **UR**, **FE** (SA, KA). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, Japan.
- Syrphophagus rossittenicus** Trjapitzin et Manukyan, 1993. Primary parasitoid of hemipterans from the family Aphididae. Russia: **EP** (NW).
- Syrphophagus sosius** (Walker, 1837) [Encyrtus]. Russia: **EP** (NW). – Europe (WE, NE).
- Syrphophagus taeniatus** (Foerster, 1861) [Encyrtus]. Primary parasitoid of hemipterans from the family Psyllidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Georgia, Mongolia.

- Syrphophagus terebratus** (Trjapitzin, 1967) [Aphidencyrus]. Russia: **FE** (PR).
- Syrphophagus vicinus** (Trjapitzin, 1978) [Aphidencyrus]. Primary parasitoid of hemipterans from the family Aphididae. Russia: **EP** (N). – Europe (NE).
- TACHINAEPHAGUS** Ashmead, 1904 (*Phaenodiscoides* Girault, 1915; *Tachinacphagus* Girault, 1917; *Australencyrtus* Johnston et Tiegs, 1921; *Australomalotylus* Risbec, 1956). Type species: *Tachinaephagus zealandicus* Ashmead, 1904. Cosmopolitan. Number of species: World – 11, Palaearctic – 2, Russia – 1.
- Tachinaephagus circaeus** Sharkov, 1995. Russia: **FE** (PR).
- THOMSONISCA** Ghesquiere, 1946 (*Thomsoniella* Mercet, 1921, nom. praeocc., nec Signoret, 1880; *Heterencyrtus* Hoffer, 1953; *Athesmus* Erdős et Novicky, 1955; *Euussuria* Chumakova, 1957; *Kosztarabia* Erdős, 1957; *Pakenencyrtus* Ahmad, 1970). Type species: *Thomsoniella typica* Mercet, 1921 (= *Encyrtus amathus* Walker, 1838). The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 7, Palaearctic – 4, Russia – 3.
- Thomsonisca amathus** (Walker, 1838) [Encyrtus] (*Thomsoniella typica* Mercet, 1921; *Heterencyrtus sumavicus* Hoffer, 1953; *Athesmus luctuosus* Erdős et Novicky, 1955; *Kosztarabia chionaspidis* Erdős, 1957; *Thomsoniella britannica* Alam, 1957; *Thomsoniella chinaspidis* Hedqvist, 1958). Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (N, NW, NC), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Pakistan, China (NC, CC, SE), Japan, India.
- Thomsonisca pallipes** (Chumakova, 1957) [Euussuria]. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **FE** (PR).
- Thomsonisca shutovae** (Trjapitzin, 1963) [Euussuria]. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (NC), **FE** (KH, PR, SA).
- TRECHNITES** Thomson, 1876 (*Psylledontus* Crawford, 1910; *Metallonella* Girault, 1915). Type species: *Metallon fuscitarsis* Thomson, 1876. Cosmopolitan. Number of species: World – 27, Palaearctic – 10, Russia – 5.
- Trechnites alni** Erdős, 1957 (*Trechnites crassus* Erdős, 1961). Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia.
- Trechnites dubiosus** Sharkov, 1995. Russia: **FE** (SA).
- Trechnites flavipes** (Mercet, 1921) [Metallon]. Primary parasitoid of hemipterans from the families Aphididae, Coccidae and Psyllidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Kazakhstan, Mongolia.
- Trechnites fuscitarsis** (Thomson, 1876) [Metallon]. Russia: **EP** (NW, C), **WS** (TM, AL), **FE** (PR). – Europe (WE, NE, EE), Turkmenistan, Mongolia.
- Trechnites insidiosus** (Crawford, 1910) [Psylledontus] (*Metallon psyllae* Ruschka, 1923). Primary parasitoid of hemipterans from the family Psyllidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Mongolia, N America.
- TRICHOMASTHUS** Thomson, 1876 (*Coccidoxenus* Crawford, 1913). Type species: *Encyrtus cyaneus* Dalman, 1820. The genus is distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 58, Palaearctic – 29, Russia – 19.
- Trichomasthus albimanus** Thomson, 1876. Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae and Eriococcidae. Russia: **EP** (N, NW, NC), **ES** (IR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Mongolia, N America.
- Trichomasthus angustifrons** Trjapitzin, 1964 (*Trichomasthus kurentzovi* Trjapitzin, 1968). Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR).
- Trichomasthus bavarici** Hoffer, 1965. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (N). – Europe (NE, EE).
- Trichomasthus cyaneus** (Dalman, 1820) [Encyrtus]. Primary parasitoid of hemipterans from the families Coccidae and Eriococcidae. Russia: **EP** (NW, C, NC), **ES** (IR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Uzbekistan.
- Trichomasthus cyanifrons** (Dalman, 1820) [Encyrtus]. Primary parasitoid of hemipterans from the families Coccidae, Eriococcidae and Pseudococcidae. Russia: **EP** (NW, C), **ES** (IR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, China, N America.
- Trichomasthus danzigae** Trjapitzin, 1978. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW). – Europe (WE, NE).
- Trichomasthus dignus** Khlopunov, 1995. Russia: **EP** (C), **FE** (KH).
- Trichomasthus dissimilis** (Chumakova, 1961) [Coccidencyrus]. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (NC). – Europe (SE, EE).
- Trichomasthus eriococci** (Ishii, 1928) [Phaenodiscus]. Primary parasitoid of hemipterans from the families Coccidae and Eriococcidae. Russia: **FE** (PR, SA) – Japan.
- Trichomasthus extimus** Sharkov, 1989. Russia: **FE** (SA).
- Trichomasthus frontalis** Alam, 1957. Primary parasitoid of hymenopterans from the family Diprionidae and lepidopterans from the families Gelechiidae, Psychidae and Tortricidae. Russia: **EP** (C), **FE** (SA). – Europe (WE, NE), N America, India.
- Trichomasthus leptocerus** Sharkov, 1989. Russia: **FE** (SA).
- Trichomasthus ortivus** Sharkov, 1989. Russia: **FE** (PR). – Georgia.
- Trichomasthus perepelitsae** Trjapitzin, 1964. Primary parasitoid of hemipterans from the family Coccidae. Russia: **ES** (IR), **FE** (PR).

- Trichomasthus sachalinensis** Sharkov, 1989. Russia: **FE** (SA).
Trichomasthus spiraeae Trjapitzin, 1964. Primary parasitoid of hemipterans from the family Eriococcidae. Russia: **ES** (IR, BR), **FE** (PR).
Trichomasthus storozhevae Sharkov, 1989. Russia: **FE** (SA).
Trichomasthus subitus Khlopunov, 1987. Russia: **EP** (C).
Trichomasthus xenomanes Pilipyuk et Trjapitzin, 1974. Primary parasitoid of hemipterans from the family Eriococcidae. Russia: **FE** (SA).
TRJAPITZINELLUS Viggiani, 1967. Type species: *Trjapitzinellus semidaliphagus* Viggiani, 1967. The genus is distributed in the Holarctic region. Number of species: World – 6, Palaearctic – 5, Russia – 2.
Trjapitzinellus nigricornis Hoffer, 1976. Russia: **EP** (C). – Europe (NE, EE).
Trjapitzinellus semidaliphagus Viggiani, 1967. Primary parasitoid of neuropterans from the family Coniopterygidae. Russia: **ES** (IR), **FE** (PR). – Europe (SE, EE).
TYNDARICHUS Howard, 1910 (*Parechthrodryinus* Girault, 1916). Type species: *Tyndarichus navae* Howard, 1910. Cosmopolitan. Number of species: World – 24, Palaearctic – 6, Russia – 2.
Tyndarichus melanacis (Dalman, 1820) [Encyrtus] (*Encyrtus jancirus* Walker, 1837; *Tyndarichus ignotus* Mercet, 1947). Primary parasitoid of lepidopterans from the families Cossidae, Noctuidae and Pyralidae. Russia: **EP** (NW, C, NC), **WS** (AL). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Kazakhstan, India.
Tyndarichus scaurus (Walker, 1837) [Encyrtus] (*Encyrtus genetyllis* Walker, 1848). Primary parasitoid of lepidopterans from the families Geometridae, Oecophoridae and Yponomeutidae; secondary parasitoid of hymenopterans from the family Encyrtidae. Russia: **EP** (N, NW, C, NC), **WS** (NS, AL), **ES** (IR, BR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Mongolia, China.
ZAOMMA Ashmead, 1900 (*Apterencyrtus* Ashmead, 1905; *Metallonoidea* Girault, 1915; *Chiloneurinus* Mercet, 1921; *Metapterencyrtus* Tachikawa, 1963). Type species: *Encyrtus argentipes* Howard, 1894. Cosmopolitan. Number of species: World – 16, Palaearctic – 7, Russia – 5.
Zaomma abas (Trjapitzin, 1967) [Apterencyrtus]. Russia: **FE** (PR).
Zaomma acanthococci (Pilipyuk et Trjapitzin, 1974) [Apterencyrtus]. Primary parasitoid of hemipterans from the family Eriococcidae. Russia: **FE** (SA).
Zaomma danzigae (Pilipyuk et Trjapitzin, 1974) [Apterencyrtus]. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **FE** (SA).
Zaomma eriococci (Ferrière, 1955) [Apterencyrtus] (*Trichomasthus niveicrus* Erdős, 1957). Primary parasitoid of hemipterans from the families Eriococcidae and Pseudococcidae; secondary parasitoid of hymenopterans from the family Encyrtidae. Russia: **EP** (NC), **ES** (YA), **FE** (PR, SA). – Europe (WE, SE, EE), Georgia, Armenia, Kazakhstan, China (NC, CC), Japan.
Zaomma lambinus (Walker, 1838) [Encyrtus] (*Encyrtus euryclea* Walker, 1844; *Chiloneurus microphagus* Mayr, 1876; *Ch. diaspidinarum* Howard, 1894; *Apterencyrtus pulchricornis* Ashmead, 1905; *A. aspidioti* Girault, 1915; *Habrolepis mayri* Ruschka, 1915; *Metallonoidea brittanica* Girault, 1915; *Apterencyrtus thomsoniscae* Alam, 1957; *A. zonatus* Alam, 1957; *A. adeli* Traboulsi, 1968). Primary parasitoid of dipterans from the family Chamaemyiidae, hemipterans from the families Asterolecaniidae, Coccidae, Diaspididae and Eriococcidae; secondary parasitoid of hymenopterans from the families Aphelinidae and Encyrtidae. Russia: **EP** (NW, C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Lebanon, Iran, Uzbekistan, Mongolia, China (NC, CC, WP, SE), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
ZAOMMOENCYRTUS Girault, 1916. Type species: *Zaommoencyrtus submicans* Girault, 1916. The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 4, Palaearctic – 2, Russia – 1.
Zaommoencyrtus emetzi Khlopunov, 1981. Primary parasitoid of coleopterans from the family Cerambycidae. Russia: **EP** (C).
Subfamily TETRACNEMINAE
ANAGYRUS Howard, 1896 (*Heterarthrellus* Howard, 1898; *Epidinocarsis* Girault, 1913; *Paranusia* Brèthes, 1913; *Philoponectroma* Brèthes, 1913; *Doliphoceras* Mercet, 1921; *Gyranusa* Mercet, 1921; *Gyranusia* Brèthes, 1921; *Protanagyrus* Blanchard, 1940; *Apoanagyrus* Compere, 1947; *Anathrix* Burks, 1952; *Rhopomorphus* Ghesquiere, 1958; *Aglyptoideus* De Santis, 1964; *Xiphomastix* De Santis, 1972; *Cremesina* Noyes et Hayat, 1984; *Tongyus* Noyes et Hayat, 1984). Type species: *Anagyrus greeni* Howard, 1896. Cosmopolitan. Number of species: World – 285, Palaearctic – 100, Russia – 19.
Anagyrus aligarhensis Agarwal et Alam, 1959 (*Anagyrus diversicornis* Mercet, 1921; *Philoponectroma opacum* Mercet, 1921; *Anagyrus punctulatus* Agarwal et Alam, 1959; *A. micans* Noyes, 2000). Primary parasitoid of coleopterans from the family Coccinellidae and hemipterans from the family Pseudococcidae. Russia: without regions (Trjapitzin, 1989). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Uzbekistan, China (SE), N America, India, SE Asia.
Anagyrus antoninae Timberlake, 1920. Primary parasitoid of hemipterans from the families Diaspididae, Eriococcidae and Pseudococcidae; secondary parasitoid of hymenopterans from the family Aphelinidae. Russia: **FE** (SA). – China, Japan, N and S America.

- Anagyrus belibus** (Walker, 1837) [Encyrtus] (*Encyrtus scyles* Walker, 1837; *E. arene* Walker, 1838; *E. barca* Walker, 1838; *E. dores* Walker, 1838; *E. elpis* Walker, 1838; *E. mamertus* Walker, 1846; *Pholidoceras integrals* Mercet, 1919; *Doliphoceras pseudococci* Alam, 1957; *Rhopomorphus varleyellus* Ghesquiere, 1958). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Mongolia.
- Anagyrus bohemanii** (Westwood, 1837) [Encyrtus] (*Anagyrus quercicola* Mercet, 1921; *Blastothrix mayri* Ruschka, 1923; *Anagyrus singularis* Hoffer, 1953). Primary parasitoid of hemipterans from the families Coccidae, Diaspididae, Margarodidae and Pseudococcidae. Russia: without regions (Thompson, 1955). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Israel, India.
- Anagyrus bouceki** Hoffer, 1953. Russia: **EP** (NC), **FE** (PR). – Europe (NE, SE, EE), Georgia, Armenia, Azerbaijan, Kazakhstan.
- Anagyrus coccucae** Sugonjaev, 1962. Primary parasitoid of *Coccu comari* Kunow (Hemiptera: Pseudococcidae). Russia: **EP** (NW).
- Anagyrus kurilensis** (Sharkov, 1983) [Apoanagyrus]. Russia: **FE** (SA).
- Anagyrus matritensis** (Mercet, 1921) [Gyranusa] (*Blastothrix orbitalis* Ruschka, 1923). Primary parasitoid of hemipterans from the families Coccidae, Eriococcidae and Pseudococcidae. Russia: **EP** (S, NC), **WS** (AL). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NC), SE Asia.
- Anagyrus niger** (Ishii, 1928) [Doliphoceras]. Primary parasitoid of *Balanococcus* sp. (Hemiptera: Pseudococcidae). Russia: **FE** (PR). – Japan.
- Anagyrus pseudococci** (Girault, 1915) [Epidinocarsis]. Primary parasitoid of hemipterans from the families Asterolecaniidae and Pseudococcidae; secondary parasitoid of hymenopterans from the families Aphelinidae, Encyrtidae and Pteromalidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Iraq, Israel, Iran, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, China (NE, NC, CC, SW, SE), N America, India, Afrotropics, S America.
- Anagyrus rufoscutatus** (Ishii, 1928) [Doliphoceras]. Russia: **FE** (PR). – Japan.
- Anagyrus sachalinensis** (Sharkov, 1986) [Epidinocarsis]. Russia: **FE** (SA).
- Anagyrus schmuttereri** Ferrière, 1955. Primary parasitoid of hemipterans from the families Diaspididae and Pseudococcidae. Russia: **EP** (NW). – Europe (WE, NE), Turkey.
- Anagyrus schoenherri** (Westwood, 1837) [Encyrtus] (*Anagyrus alboclavatus* Ishii, 1928; *A. flavus* Ishii, 1928). Primary parasitoid of hemipterans from the families Coccidae, Eriococcidae and Pseudococcidae. Russia: **EP** (NW, C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Mongolia, China (NC, CC), Japan, N America.
- Anagyrus securicornis** Domenichini, 1953 (*Anagyrus bohemicus* Hoffer, 1953; *Gyranusa sabulicola* Hoffer, 1953). Russia: **EP** (N, NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Anagyrus szodensis** Erdős, 1957. Primary parasitoid of *Heliooccus bohemicus* Šulc (Hemiptera: Pseudococcidae). Russia: without regions (Trjapitzin, 1989). – Europe (WE, EE).
- Anagyrus tamaricicola** Trjapitzin, 1968. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC). – Georgia, Turkey, Turkmenistan.
- Anagyrus ussuriensis** Sharkov, 1984. Russia: **FE** (PR). – China (NE).
- Anagyrus zygia** (Trjapitzin, 1966) [Paraenasioidea]. Russia: **EP** (N), **ES** (IR).
- ANUSIA** Foerster, 1860. Type species: *Anusia nasicornis* Foerster, 1860. Monotypic Palaearctic genus.
- Anusia nasicornis** Foerster, 1860 (*Anusia austriaca* Foerster, 1860; *Doliphoceras laevis* Mercet, 1921). Primary parasitoid of *Heterococcus nudus* Green (Hemiptera: Pseudococcidae). Russia: **EP** (C, NC), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Uzbekistan, Kazakhstan, China (NW).
- AQUAENCYRTUS** Hoffer, 1952 (*Penichrus* Erdős, 1960). Type species: *Aquaencyrtus bohemicus* Hoffer, 1952. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 1.
- Aquaencyrtus rhadamas** Trjapitzin, 1978. Russia: **EP** (NW).
- ASITUS** Erdős, 1955 (*Ferriereus* Ghesquiere, 1956). Type species: *Asitus ciliatus* Erdős, 1955 (= *Xanthoencyrtus phragmitis* Ferrière, 1955). Monotypic Holarctic genus.
- Asitus phragmitis** (Ferrière, 1955) [Xanthoencyrtus] (*Asitus ciliatus* Erdős, 1955). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Armenia, Azerbaijan, Pakistan, N America.
- CALLIPTEROMA** Motschulsky, 1863 (*Calocerinella* Girault, 1913; *Proleptomastidea* Trjapitzin, 2009). Type species: *Callipteroma quinqueguttata* Motschulsky, 1863 (= *Callipteroma sexguttata* Motschulsky, 1863). The genus is distributed in the Palaearctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 6, Palaearctic – 5, Russia – 1.
- Callipteroma sexguttata** Motschulsky, 1863 (*Callipteroma quinqueguttata* Motschulsky, 1863; *Leptomastix guttipennis* Girault, 1915; *Callipteroma kiushiuensis* Ishii, 1928). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC), **UR**. – Europe (WE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey,

Israel, Pakistan, Turkmenistan, Kazakhstan, Mongolia, China (CC, SE), Japan, India, SE Asia, Afrotropics, Australasia.

CHARITOPUS Foerster, 1856 (*Leptorhopala* Motschulsky, 1863; *Eupelmomorpha* Girault, 1915; *Diversicornia* Mercet, 1916). Type species: *Charitopus fulviventris* Foerster, 1860. The genus is distributed in the Palaearctic and Oriental regions. Number of species: World – 18, Palaearctic – 11, Russia – 3.

Charitopus fulviventris Foerster, 1860 (*Diversicornia pini-cola* Mercet, 1916). Russia: **EP** (NW, C, E, S, NC), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Armenia, Azerbaijan, Kazakhstan, Mongolia, China, India.

Charitopus marshakovi Sharkov, 1984. Russia: **FE** (PR).
Charitopus obscurus (Erdős, 1946) [Tetracnemus]. Russia: **ES** (YA). – Europe (NE, SE, EE), Armenia, Azerbaijan, Mongolia, China (NE, NW).

DICARNOSIS Mercet, 1921. Type species: *Dicarnosis superbus* Mercet, 1921. The genus is distributed in the Holarctic region. Number of species: World – 9, Palaearctic – 7, Russia – 1.

Dicarnosis hofferi Trjapitzin, 1965. Russia: **FE** (PR). – Europe (EE), Mongolia, Korean Peninsula.

DINOCARSIELLA Mercet, 1921. Type species: *Dinocarsiella zebrata* Mercet, 1921 (= *Anagyrus alpina* Girault, 1917). The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 1.

Dinocarsiella alpina (Girault, 1917) [Anagyrus] (*Dinocarsiella zebrata* Mercet, 1921; *D. minuta* Szélnyi, 1971). Primary parasitoid of hemipterans from the families Coccidae and Pseudococcidae. Russia: **EP** (NC), **ES** (YA). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China.

DINOCARSIS Foerster, 1856 (*Euscapus* Dahlbom, 1857). Type species: *Encyrtus hemipterus* Dalman, 1820. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 2.

Dinocarsis hemiptera (Dalman, 1820) [Encyrtus] (*Dinocarsis submontana* Hoffer, 1952). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **ES** (IR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Mongolia, China.

Dinocarsis hofferi Graham, 1966. Russia: **EP** (C, NC), **UR**, **WS** (AL), **ES** (IR, YA). – Europe (WE, SE, EE), Georgia, Turkmenistan, Kazakhstan, Mongolia.

DUSMETIA Mercet, 1921 (*Bacalusa* Noyes et Hayat, 1984). Type species: *Dusmetia ceballosi* Mercet, 1921. The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World and Palaearctic – 6, Russia – 1.

Dusmetia pulex (Ruschka, 1923) [Blastothrix]. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, EE), Kazakhstan, Mongolia.

ERICYDNUS Haliday, 1832 (*Grandoriella* Domenichini, 1952). Type species: *Ericydnus paludatus* Haliday, 1837 (= *Encyrtus ventralis* Dalman, 1820). The genus is distributed in the Holarctic region. Number of species: World – 33, Palaearctic – 32, Russia – 10.

Ericydnus baleus (Walker, 1838) [Encyrtus]. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NW). – Europe (WE, NE, SE).

Ericydnus beybienkoae Sharkov, 1983. Russia: **FE** (PR).

Ericydnus caudatus Erdős, 1957. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (C). – Europe (EE), Armenia, Turkey.

Ericydnus dzhankmenae Sharkov, 1986. Russia: **FE** (SA).

Ericydnus elizabethae Trjapitzin, 1982. Russia: without regions (Trjapitzin, 1989). – Europe (EE).

Ericydnus longicornis (Dalman, 1820) [Encyrtus] (*Encyrtus atripes* Foerster, 1861; *Grandoriella japonica* Tachikawa, 1963). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, EE), Japan.

Ericydnus novosibiricus Sugonjaev et Gavriljuk, 2012. Russia: **WS** (NS).

Ericydnus sipylus (Walker, 1837) [Encyrtus] (*Encyrtus aemnestus* Walker, 1850; *E. basalis* Foerster, 1861; *Metallon atriceps* Walker, 1872; *Ericydnus ventralis biplagiatus* Mayr, 1876; *Encyrtus bicolor* Nikolskaya, 1952). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: without regions (Trjapitzin, 1989). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Turkmenistan, Mongolia, N America.

Ericydnus strigosus (Nees, 1834) [Encyrtus]. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: without regions (Trjapitzin, 1989). – Europe (WE, NE, EE), Georgia.

Ericydnus ventralis (Dalman, 1820) [Encyrtus] (*Ericydnus paludatus* Haliday, 1837; *E. dichrous* Mercet, 1921). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (C), **WS** (NS). – Europe (WE, NE, SE, EE), Georgia, Mongolia.

LEPTOMASTIDEA Mercet, 1916 (*Tanaomastix* Timberlake, 1918). Type species: *Leptomastidea aurantiaca* Mercet, 1916. Cosmopolitan. Number of species: World – 23, Palaearctic – 11, Russia – 2.

Leptomastidea bifasciata (Mayr, 1976) [Blastothrix] (*Leptomastidea rubra* Tachikawa, 1956). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NW, C, NC), **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Armenia, Azerbaijan, Israel, Turkmenistan, Uzbekistan, China (NC), Japan.

- Leptomastidea herbicola** Trjapitzin, 1965. Russia: **FE** (PR). – China (NE, NC, SE).
- LEPTOMASTIX** Foerster, 1856 (*Sterrhocomma* Foerster, 1856; *Stenoterys* Thomson, 1876). Type species: *Leptomastix histrio* Mayr, 1876. Cosmopolitan. Number of species: World – 33, Palaearctic – 20, Russia – 4.
- Leptomastix epona** (Walker, 1844) [Encyrtus] (*Stenoterys orbitalis* Thomson, 1876). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (N, NW), **UR**, **ES** (IR). – Europe (WE, NE, SE, EE), N America.
- Leptomastix flava** Mercet, 1921. Primary parasitoid of hemipterans from the families Coccidae and Pseudococcidae. Russia: **EP** (NC). – Europe (SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, N America, Afrotropics.
- Leptomastix maculipes** Trjapitzin, 1965. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **FE** (PR).
- Leptomastix tanasijtshuki** Sharkov, 1983. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **FE** (PR). – Europe (NE), Turkey.
- MIRA** Schellenberg, 1803 (*Dicelloceras* Menzel, 1855; *Euryscapus* Foerster, 1856; *Lonchocerus* Dahlbom, 1857; *Euzkadia* Mercet, 1921). Type species: *Mira mucora* Schellenberg, 1803. The genus is distributed in the Holarctic and Afrotropical regions. Number of species: World and Palaearctic – 6, Russia – 1.
- Mira mucora** Schellenberg, 1803 (*Mira macrocera* Schellenberg, 1803; *Encyrtus platycerus* Dalman, 1820; *Dicelloceras vibrans* Menzel, 1855). Russia: **EP** (NW, C, NC), **UR**, **WS** (AL), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Kazakhstan, Mongolia, China (NE), N America.
- MOHELNIELLA** Hoffer, 1964. Type species: *Mohelniella silhavyi* Hoffer, 1964. The genus is distributed in the Palaearctic region. Number of species: World, Palaearctic and Russia – 2.
- Mohelniella pilipjuki** Hoffer, 1977. Russia: **WS** (AL). – Mongolia.
- Mohelniella silhavyi** Hoffer, 1964. Russia: **EP** (S). – Europe (WE, NE, EE).
- MONODISCOIDES** Hoffer, 1953. Type species: *Phaenodiscus intermedius* Mayr, 1876. The genus is distributed in the Palaearctic region. Number of species: World – 3, Palaearctic and Russia – 2.
- Monodiscodes dimorphus** (Mercet, 1921) [Tetralophidea]. Russia: without regions (Trjapitzin, 1989). – Europe (WE, SE), Armenia, Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kazakhstan.
- Monodiscodes intermedius** (Mayr, 1876) [Phaenodiscus] (*Monodiscodes maculipennis* Hoffer, 1970). Primary parasitoid of hemipterans from the families Coccidae and Eriococcidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Uzbekistan, Kazakhstan.
- MORAVIELLA** Hoffer, 1954. Type species: *Moraviella inexpectata* Hoffer, 1954. Monotypic Palaearctic genus.
- Moraviella inexpectata** Hoffer, 1954. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NW), **ES** (IR). – Europe (NE, EE).
- PARACOPIDOSOMA** Hoffer, 1957 (*Matrella* Erdős, 1959). Type species: *Paracopidosoma parallelum* Hoffer, 1957. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 3, Russia – 1.
- Paracopidosoma parallelum** Hoffer, 1957 (*Matrella erdoesi* Trjapitzin, 1965; *M. ramicornis* Erdős, 1959). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC), **FE** (PR). – Europe (SE, EE), Armenia, Turkmenistan, Mongolia.
- PARAMASIA** Hoffer, 1953. Type species: *Paramasia slovacica* Hoffer, 1953. Monotypic Palaearctic genus.
- Paramasia slovacica** Hoffer, 1953. Russia: **UR**. – Europe (EE), Armenia, Azerbaijan, Mongolia.
- RHOPUS** Foerster, 1856 (*Xanthoencyrtus* Ashmead, 1902; *Mirastymachus* Girault, 1915; *Scelioencyrtus* Girault, 1915; *Pholidoceras* Mercet, 1918; *Pholidoceroles* Ferrière, 1955; *Platyrhopus* Erdős, 1955; *Hamusencyrtus* Subba Rao et Hayat, 1979; *Neoxanthoencyrtus* Avasthi et Shafee, 1980). Type species: *Encyrtus piso* Walker, 1838. Cosmopolitan. Number of species: World – 67, Palaearctic – 28, Russia – 4.
- Rhopus meridionalis** (Ferrière, 1955) [*Xanthoencyrtus*] (*Platyrhopus delitescens* Erdős, 1955). Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan.
- Rhopus mucius** Sharkov, 1986. Russia: **FE** (SA).
- Rhopus nymphidius** Sharkov, 1986. Russia: **FE** (SA).
- Rhopus parvulus** (Mercet, 1921) [*Pholidoceras*]. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (NW). – Europe (WE, SE).
- SAVZDARGIA** Trjapitzin, 1979. Type species: *Clausenia hofferi* Pilipyuk, 1974. Monotypic Palaearctic genus.
- Savzdargia hofferi** (Pilipyuk, 1974) [Clausenia]. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **FE** (SA).
- TETRACNEMOIDEA** Howard, 1898 (*Tetracnemopsis* Ashmead, 1900; *Arhopoideus* Girault, 1915; *Ectromella* Girault, 1915; *Anarhopus* Timberlake, 1929; *Hungariella* Erdős, 1946; *Antipodencyrtus* Kerrich, 1964; *Zealandencyrtus* Tachikawa et Valentine, 1971). Type species: *Tetracnemoidea australiaensis* Howard,

1898. Cosmopolitan. Number of species: World – 18, Palaearctic – 8, Russia – 2.

Tetracnemoidea piceae (Erdős, 1946) [Hungariella]. Primary parasitoid of dipterans from the family Cecidomyiidae and hemipterans from the families Coccidae and Pseudococcidae. Russia: **EP** (N, NW, C). – Europe (WE, NE, EE).

Tetracnemoidea spilococci Ferrière, 1957. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: **EP** (N). – Europe (WE, NE), China.

TETRACNEMUS Westwood, 1837 (*Calocerinus* Howard, 1892; *Tetracladia* Howard, 1892; *Henicopygus* Ashmead, 1900; *Tetralophidea* Ashmead, 1900; *Tetralophiellus* Ashmead, 1900; *Paracalocerinus* Girault, 1915; *Nebaocharis* Girault, 1916; *Masia* Mercet, 1919; *Anusiella* Mercet, 1923; *Placoceras* Erdős, 1946; *Comperencyrtus* De Santis, 1964). Type species: *Tetracnemus diversicornis* Westwood, 1837. The genus is distributed in the Holarctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 36, Palaearctic – 14, Russia – 6.

Tetracnemus avetianae Herthetvzian, 1976. Russia: **FE** (PR). – Armenia.

Tetracnemus bifasciatellus (Mercet, 1919) [*Masia*]. Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Afrotropics.

Tetracnemus cnaeus Sharkov, 1986. Russia: **FE** (PR, SA).

Tetracnemus colocensis (Erdős, 1946) [*Placoceras*]. Russia: **EP** (C), **FE** (PR). – Europe (EE).

Tetracnemus diversicornis Westwood, 1837 (*Masia pulchripennis* Mercet, 1923). Russia: **EP** (C), **WS** (AL). – Europe (WE, NE, SE, EE), Iran, Turkmenistan, Kazakhstan, India.

Tetracnemus kozlovi Sharkov, 1984. Russia: **FE** (PR, SA).

ZARHOPALUS Ashmead, 1900 (*Anagyrella* Girault, 1915). Type species: *Zarhopalus sheldoni* Ashmead, 1900. The genus is distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 8, Palaearctic and Russia – 1.

Zarhopalus sheldoni Ashmead, 1900. Primary parasitoid of hemipterans from the family Pseudococcidae. Russia: without regions (Noyes, Hayat, 1994). – Uzbekistan, N America.

41. FAMILY EURYTOMIDAE

M.D. ZEROVA

Eurytomids are minute to small chalcid wasps, of 1.0–6.0 mm length. The body of most eurytomids is strongly sculptured and black, less commonly yellow; antenna usually with 13 segments; mesoscutum with deep and complete notauli.

Most eurytomids are primary parasitoids of insects developing in concealment, including members of gall-forming

groups, but phytophagous eurytomids are also common and they are associated with Rosaceae, Ephedraceae, Poaceae, Fabaceae, Apiaceae, Lamiaceae, Euphorbiaceae, Liliaceae, Brassicaceae, Anacardiaceae, Campanulaceae and Pinaceae.

Number of taxa: World – 88 genera and more than 1400 species, Palaearctic – 18/about 400, Russia – 9/129.

References. Nikol'skaya, 1952; Fedoseeva, 1954; Thompson, 1955; Peck, 1963; Titova, 1966; Ivanov, Medvedev, 1970; Zerova, 1974, 1977, 1978a, 1978b, 1979, 1981a, 1985, 1992, 1993, 1994, 1995a, 1995b, 1999, 2013; Annila, 1975; Herting, 1975, 1978; Artokhin, 1983b; Zerova, Fursov, 1991; Zerova, Seryogina, 1994b, 1995b; Zerova, Diakontshuk, 1998; Stojanova, 2001; Popescu, 2006.

Subfamily EURYTOMINAE

BRUCHOPHAGUS Ashmead, 1888 (*Systolodes* Ashmead, 1888; *Eurysystole* Girault, 1913; *Phylloxeroxenoides* Girault, 1913; *Birolajosia* Erdős, 1955; *Ahtola* Claridge, 1961). Type species: *Bruchophagus borealis* Ashmead, 1894. Cosmopolitan. Number of species: World – 170, Palaearctic – 91, Russia – 7.

Bruchophagus astragali Fedoseeva, 1954. Associated with *Astragalus* L. (Fabaceae). Russia: **EP** (S), **FE** (PR). – Europe (EE), Georgia, Turkey, Iran, Turkmenistan, Kazakhstan, Mongolia.

Bruchophagus dahuricus Zerova, 1992. Associated with *Caragana microphylla* Pall. (Fabaceae). Russia: **ES** (ZB).

Bruchophagus gibbus (Boheman, 1836) [*Eurytoma*] (*Eurytoma mucianus* Walker, 1848; *E. funebris* Howard, 1880; *Bruchophagus platypterus* Claridge, 1959; *Eurytoma platyptera*, Erdős, 1960). Associated with *Trifolium pratense* L. (Fabaceae). Russia: **EP** (S). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iraq, Iran, China (SE), N America, India, S America, Australasia.

Bruchophagus glycyrrhizae (Nikolskaya, 1952) [*Eurytoma*]. Associated with *Glycyrrhiza echinata* L., *G. glabra* L. and *G. hirsuta* Pall. (Fabaceae). Russia: **EP** (S). – Europe (WE, NE, SE, EE), Georgia, Iraq, Iran, Turkmenistan, Kazakhstan, India.

Bruchophagus ononis (Mayr, 1878) [*Eurytoma*]. Associated with *Ononis arvensis* L. and *O. spinosa* L. (Fabaceae). Russia: **EP** (S). – Europe (WE, EE), China (SW, NC).

Bruchophagus platypterus (Walker, 1834) [*Systole*] (*Bruchophagus kolobovae* Fedoseeva, 1956). Associated with *Lotus corniculatus* L. (Fabaceae). Russia: **EP** (S). – Europe (WE, NE, SE, EE), Georgia, Turkey, Kazakhstan, N and S America.

Bruchophagus rodii Gussakovskij, 1933. Associated with *Medicago* L. (Fabaceae). Russia: **EP** (S). – Europe (WE, NE, SE, EE), Turkey, Iraq, Israel, Iran, Uzbekistan, Kazakhstan, N America, India, S America, Australasia.

CATHILARIA Burks, 1971. Type species: *Harmolita opuntiae* Muesebeck, 1932. The genus is distributed

in the Holarctic region. Number of species: World – 4, Palaearctic – 2, Russia – 1.

Cathilaria globiventris (Zerova, 1974) [Tetramesa]. Russia: **EP** (S). – Europe (EE).

EURYTOMA Illiger, 1807 (*Decatoma* Spinola, 1811; *Ennetoma* Dahlbom, 1857; *Bephratella* Girault, 1913; *Eurytomidia* Masi, 1917; *Ipideurytoma* Bouček et Novicky, 1954). Type species: *Chalcis abrotani* Panzer, 1801. Cosmopolitan. Number of species: World – 702, Palaearctic – about 400, Russia – 78.

Eurytoma abdita Zerova, 1995. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **ES** (KR). – Europe (EE), Iran, Kazakhstan.

Eurytoma aciculata Ratzeburg, 1848. Primary parasitoid of *Pontania viminalis* L. (Hymenoptera: Tenthredinoidea). Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE).

Eurytoma adenophorae Zerova, 1993. Associated with *Adenophora* Fisch. (Campanulaceae). Russia: **FE** (PR). – Europe (EE).

Eurytoma aethiops Boheman, 1836 (*Eurytoma sittace* Walker, 1844). Primary parasitoid of *Janus compressus* F. (Hymenoptera: Cephidae). Russia: **EP** (S, NC). – Europe (WE, NE, SE, EE).

Eurytoma alhagicola Zerova, 1981. Primary parasitoid of *Bruchidius pallidulus* Rtt. (Coleoptera: Curculionidae: Bruchinae). Russia: **EP** (S). – Turkmenistan.

Eurytoma amurensis Zerova, 1995. Primary parasitoid of *Aulacidea* sp. (Hymenoptera: Cynipidae). Russia: **FE** (PR).

Eurytoma annilai Hedqvist, 1974. Primary parasitoid of *Pissodes validirostris* Gyll. (Coleoptera: Curculionidae). Russia: **EP** (N, C). – Europe (WE, NE, EE).

Eurytoma appetens Szelenyi, 1974 (*Eurytoma kanevensis* Zerova, 1985). Primary parasitoid of *Noeta pupillata* Fll. (Diptera: Tephritidae). Russia: **FE** (PR). – Europe (EE), Mongolia.

Eurytoma aquatica Erdős, 1955. Primary parasitoid of *Tetramesa phragmitis* Erdős (Hymenoptera: Eurytomidae). Russia: **EP** (NC). – Europe (WE, NE, EE).

Eurytoma arctica Thomson, 1875 (*Eurytoma blastophagi* Hedqvist, 1963). Primary parasitoid of coleopterans from the families Curculionidae (including Scolytinae); secondary parasitoid of hymenopterans from the families Braconidae and Pteromalidae. Russia: **EP** (N, NW, C, E), **WS** (NS). – Europe (WE, NE, SE, EE), Iran, Mongolia, China (NC).

Eurytoma arguta Zerova, 1995. Russia: **FE** (PR).

Eurytoma aspila (Walker, 1836) [Decatoma] (*Decatoma nicaeae* Walker, 1844; *Eurytoma phanacidis* Mayr, 1878). Primary parasitoid of dipterans from the family Agromyzidae, hymenopterans from the family Cynipidae and orthopterans from the family Gryllidae. Russia: **EP** (C). – Europe (WE, SE, EE), Turkey, Kazakhstan, Mongolia.

Eurytoma brunniventris Ratzeburg, 1852. Primary parasitoid of hymenopterans from the family Cynipidae; secondary parasitoid of hymenopterans from the families Eulophidae, Eurytomidae, Pteromalidae and Torymidae. Russia: **EP** (NW, C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Jordan, Lebanon, Israel, Iran, China, Korean Peninsula, Japan.

Eurytoma caraganae Nikolskaya, 1952. Associated with *Caragana arborescens* Lam. and *C. frutex* Koch. (Fabaceae). Russia: **EP** (C, S), **WS** (OM, AL). – Europe (EE), Kazakhstan, Mongolia, N America.

Eurytoma caulicola Zerova, 1971. Associated with *Calamagrostis epigeios* L. (Poaceae). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, EE), Turkmenistan.

Eurytoma cebennica Graham, 1984. Associated with *Euphorbia seguieriana* Neck. (Euphorbiaceae). Russia: **EP** (NC). – Europe (WE, EE).

Eurytoma centaureae Claridge, 1960. Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the family Agromyzidae and hymenopterans from the family Cynipidae. Russia: **EP** (C), **FE** (SA). – Europe (WE, SE, EE), Turkey.

Eurytoma coleophorae Zerova, 1977. Primary parasitoid of lepidopterans from the family Coleophoridae. Russia: **EP** (C, S). – Europe (EE), Kyrgyzstan, Kazakhstan.

Eurytoma crassinervis Thomson, 1875. Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae) and dipterans from the family Cecidomyiidae. Russia: **EP** (NW). – Europe (WE, NE, EE), Tajikistan.

Eurytoma cynipsea Boheman, 1836 (*Eurytoma nasalis* Thomson, 1876). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Jordan, Uzbekistan.

Eurytoma danilovi Zerova, 1985. Primary parasitoid of dipterans from the family Tephritidae. Russia: **EP** (C, S), **FE** (PR). – Europe (WE, EE).

Eurytoma danuvica Erdős, 1955. Primary parasitoid of *Tetramesa eximia* Gir. (Hymenoptera: Eurytomidae). Russia: **EP** (S), **FE** (PR). – Europe (WE, NE, EE).

Eurytoma dentata Mayr, 1878 (*Eurytoma fulvipes* Crawford, 1910; *E. nesiotetes* Crawford, 1911; *E. denticoxa* Gahan, 1919; *E. dentipectus* Gahan, 1919). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, India.

Eurytoma differta Zerova, 1977. Primary parasitoid of *Tetramesa linearis* Walk. (Hymenoptera: Eurytomidae). Russia: **EP** (S). – Europe (EE).

Eurytoma elistae Zerova, 1995. Primary parasitoid of coleopterans from the family Buprestidae. Russia: **EP** (S). – Kazakhstan, Mongolia.

Eurytoma euphorbicola Zerova, 1994. Associated with *Euphorbia palustris* L. and *E. semivillosa* Prokh. (Euphorbiaceae). Russia: **EP** (C). – Europe (EE).

- Eurytoma flavimana** Boheman, 1836 (*Eurytoma cestius* Walker, 1848; *Isosoma inquilinum* Rimsky-Korsakov, 1914). Primary parasitoid of coleopterans from the family Curculionidae and hymenopterans from the family Eurytomidae. Russia: **EP** (C). – Europe (WE, NE, EE), Turkey.
- Eurytoma fumipennis** Walker, 1836 (*Eurytoma brevicollis* Walker, 1846; *E. euphorbiae* Zerova, 1971). Russia: **EP** (S, NC). – Europe (WE, EE), Georgia, Azerbaijan.
- Eurytoma goidanichi** Bouček, 1970. Primary parasitoid of lepidopterans from the families Gracillariidae, Lymantriidae, Noctuidae, Notodontidae, Pieridae, Sphingidae and Tortricidae; secondary parasitoid of hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (C, S, NC), **WS** (AL). – Europe (WE, SE, EE), Turkey, Iran, Turkmenistan.
- Eurytoma harmolitarum** Erdős, 1957. Primary parasitoid of *Tetramesa aciculata* Schlechtendal (Hymenoptera: Eurytomidae). Russia: **EP** (C, NC). – Europe (EE), Georgia, Azerbaijan, Turkey, Mongolia.
- Eurytoma herbaria** Zerova, 1994. Primary parasitoid of dipterans from the family Tephritidae. Russia: **FE** (PR). – Europe (EE), Turkey.
- Eurytoma heriadi** Zerova, 1984. Primary parasitoid of *Heriades crenulatus* Nyl. (Hymenoptera: Megachilidae). Russia: **EP** (C). – Europe (EE).
- Eurytoma hybrida** Zerova, 1984. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C, S). – Europe (SE, EE), Georgia, Turkmenistan, Kazakhstan.
- Eurytoma jaceae** Mayr, 1878. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (S). – Europe (WE, NE, SE, EE), Israel.
- Eurytoma jozsefi** Zerova, 1977. Primary parasitoid of *Tetramesa cereipes* Erdős (Hymenoptera: Eurytomidae). Russia: **EP** (NC). – Europe (EE).
- Eurytoma kangasi** Hedqvist, 1966. Primary parasitoid of coleopterans from the family Anobiidae. Russia: **EP** (C). – Europe (WE, NE, EE), Kazakhstan, Mongolia.
- Eurytoma laricis** Yano, 1918 (*Eurytoma bouceki* Skrzypczyńska, 1975). Associated with Larix Mill. (Pinaceae). Russia: **WS** (NS), **FE** (PR). – Europe (NE), Mongolia, China, Japan.
- Eurytoma lathyri** Zerova, 1979. Primary parasitoid of *Bruchus affinis* Fröl. (Coleoptera: Chrysomelidae: Bruchinae). Russia: **EP** (NC). – Europe (EE).
- Eurytoma leleyi** Zerova, 1987. Russia: **FE** (PR).
- Eurytoma maslovskii** Nikolskaya, 1939. Associated with Prunus persica Barsch. (Rosaceae). Russia: **FE** (PR). – China (NC), Korean Peninsula, Japan.
- Eurytoma mayri** Ashmead, 1887 (*Eurytoma diastrophii* Mayr, 1878). Primary parasitoid of *Diastrophus rubi* Hartig (Hymenoptera: Cynipidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey.
- Eurytoma morio** Boheman, 1836 (*Eurytoma acuminata* Walker, 1834; *E. eccoptogastri* Ratzeburg, 1844; *E. flavoscapularis* Ratzeburg, 1844; *E. ischioxanthos* Ratzeburg, 1844; *E. scultenna* Walker, 1844; *E. umbilicata* Thomson, 1876; *E. bargaglii* Rondani, 1877; *E. masii flavonigra* Russo, 1938; *E. fraxinicola* Hedqvist, 1963). Primary parasitoid of coleopterans from the families Cerambycidae and Curculionidae (including Scolytinae) and lepidopterans from the families Gelechiidae and Pieridae; secondary parasitoid of hymenopterans from the families Braconidae and Pteromalidae. Russia: **EP** (NW, C, E, S, NC), **WS** (NS), **ES** (KR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Lebanon, Israel, Iran, Turkmenistan, Kazakhstan, Mongolia, China (NC, NW), India.
- Eurytoma narendrani** Zerova, 2009. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **FE** (PR).
- Eurytoma nartschukae** Zerova, 1977. Primary parasitoid of dipterans from the family Chloropidae. Russia: **FE** (PR). – Europe (EE), Mongolia.
- Eurytoma nikolskayae** Zerova, 1989. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NC). – Europe (EE), Georgia.
- Eurytoma nodularis** Boheman, 1836 (*Eurytoma rubicola* Giraud, 1860). Primary parasitoid of hymenopterans from the family Sphecidae. Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Eurytoma onobrychidis** Nikolskaya, 1933. Associated with Onobrychis Mill. (Fabaceae). Russia: **EP** (C), **UR**. – Europe (WE, NE, EE), Turkey, Tajikistan, Kyrgyzstan, Kazakhstan, Mongolia, N America.
- Eurytoma onobrycola** Zerova, 1994. Associated with Onobrychis transcaucasica Grossh. (Fabaceae). Russia: **EP** (NC). – Europe (EE).
- Eurytoma orbiculata** Zerova, 1981 (*Eurytoma orbi* Zerova, 2007). Russia: **EP** (NW, NC). – Europe (EE).
- Eurytoma padi** Verestshagin, 1953. Associated with Prunus padus L. (Rosaceae). Russia: **EP** (C).
- Eurytoma phlomidis** Zerova, 1978. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C), **ES** (KR). – Europe (EE), Tajikistan, Kazakhstan.
- Eurytoma pineticola** Zerova, 1981. Primary parasitoid of *Paratephritis transistoria* Rohd. (Diptera: Tephritidae). Russia: **FE** (PR).
- Eurytoma pistaciae** Rondani, 1877. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C, NC). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Tajikistan, Korean Peninsula, Japan.
- Eurytoma pollux** Claridge, 1959. Primary parasitoid of *Tetramesa calamagrostidis* Schlecht. (Hymenoptera: Eurytomidae). Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, EE), Turkey.
- Eurytoma punctatella** Zerova, 1978. Primary parasitoid of *Phanacis varians* Diakontshuk (Hymenoptera: Cynipidae). Russia: **EP** (NC). – Europe (WE, EE).
- Eurytoma pyrrhidii** Erdős, 1969. Primary parasitoid of coleopterans *Chrysobothris affinis* F. (Buprestidae) and

- Pyrhidio sanguinea* L. (Cerambycidae). Russia: **EP** (S). – Europe (NE, EE).
- Eurytoma robusta** Mayr, 1878. Primary parasitoid dipterans from the family Tephritidae. Russia: **EP** (NW, C, E, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Eurytoma rosae** Nees, 1834 (*Eurytoma pubicornis* Boheman, 1836). Primary parasitoid of coleopterans from the families Buprestidae and Curculionidae (Scolytinae), dipterans from the families Cecidomyiidae and Tephritidae, hymenopterans from the family Cynipidae and lepidopterans from the families Arctiidae, Glyptopterigidae and Tortricidae. Russia: **EP** (C, S, NC), **FE** (SA, KU). – Europe (WE, NE, SE, EE), N Africa, Armenia, Turkey, Iran, Kazakhstan, China, S America.
- Eurytoma roseni** Claridge, 1959. Primary parasitoid of *Tetramesa hyalipennis* Walk. (Hymenoptera: Eurytomidae). Russia: **EP** (S). – Europe (WE, NE, EE).
- Eurytoma ruthenica** Zerova et Klymenko, 2010. Russia: **EP** (C).
- Eurytoma salicis** Walker, 1834 (*Eurytoma humeralis* Foerster, 1841). Primary parasitoid of *Euura amerinae* L. and *E. medullaris* Hartig (Hymenoptera: Tenthredinidae). Russia: **EP** (NW, NC). – Europe (EE), Georgia, Azerbaijan.
- Eurytoma saussureae** Zerova, 1995. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **FE** (PR).
- Eurytoma schreineri** Schreiner, 1908. Associated with *Armeniaca vulgaris* Lam., *Cerasus avium* L., *C. vulgaris* Mill., *Prunus divaricata* Led., *P. domestica* L. and *P. spinosa* L. (Rosaceae). Russia: **EP** (C, S), **WS** (NS). – Europe (SE, EE), Georgia, Armenia, Turkey.
- Eurytoma serratulae** (Fabricius, 1798) [Cynips] (*Eurytoma tristis* Mayr, 1878). Primary parasitoid of *Urophora cardui* L. (Diptera: Tephritidae). Russia: **EP** (C, S). – Europe (WE, NE, SE, EE), N Africa, Turkey.
- Eurytoma spessivtsevi** (Bouček et Novicky, 1954) [Ipideurytoma]. Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae). Russia: **EP** (C), **UR**, **ES** (ZB). – Europe (WE, NE, EE), Mongolia.
- Eurytoma spinipes** Kalina, 1970. Primary parasitoid of *Biorhiza pallida* Oliv. (Hymenoptera: Cynipidae). Russia: **FE** (PR). – Europe (SE, EE), Georgia, Israel.
- Eurytoma squamea** Walker, 1834. Primary parasitoid of *Cephus pygmaeus* L. (Hymenoptera: Tenthredinidae). Russia: **EP** (NC). – Europe (EE).
- Eurytoma stepicola** Zerova, 1978. Primary parasitoid of *Tetramesa aneurolepidii* Zerova (Hymenoptera: Eurytomidae). Russia: **EP** (S). – Europe (EE), Kazakhstan.
- Eurytoma stepposa** Zerova, 1980. Associated with *Stipa* L. (Poaceae). Russia: **EP** (C). – Europe (EE), Kazakhstan.
- Eurytoma strigifrons** Thomson, 1875 (*Eurytoma aylaxioides* Andriescu, 1971). Primary parasitoid of *Isocolus rogenhoferi* Wachtl (Hymenoptera: Cynipidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Israel.
- Eurytoma tibialis** Boheman, 1836 (*Eurytoma dilatata*, Thomson, 1875; *E. claripennis* Thomson, 1876). Primary parasitoid of dipterans from the family Tephritidae and hymenopterans from the family Cynipidae. Russia: without regions (Herting, 1978). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Eurytoma tilicola** Hedqvist, 1966. Primary parasitoid of coleopterans from the families Buprestidae and Cerambycidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, Mongolia.
- Eurytoma tumida** Walker, 1844 (*Eurytoma grahami* Zerova, 1994). Associated with *Euphorbia amygdaloides* L. (Euphorbiaceae). Russia: **EP** (C, NC). – Europe (WE, EE).
- Eurytoma unicolor** Zerova, 1978. Primary parasitoid of *Tetramesa cylindrica* Schlechtendal (Hymenoptera: Eurytomidae). Russia: **EP** (C, NC). – Europe (EE), Georgia, Azerbaijan.
- Eurytoma ussuriensis** Zerova, 1995. Associated with *Artemisia rubripes* Nakai (Asteraceae). Russia: **FE** (PR).
- Eurytoma verticillata** (Fabricius, 1798) [Ichneumon] (*Isosoma longulum* Walker, 1832; *I. simile* Walker, 1832; *Eurytoma costata* Ratzeburg, 1848; *E. hyponomeutae* Erdős, 1957). Primary parasitoid of hemipterans from the family Coccidae, hymenopterans from the family Diprionidae, lepidopterans from the families Arctiidae, Coleophoridae, Gelechiidae, Hesperidae, Lasiocampidae, Lymantriidae, Momphidae, Noctuidae, Notodontidae, Pieridae, Psychidae, Pyralidae, Sesiidae, Tortricidae and Yponomeutidae and neuropterans from the family Chrysopidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Braconidae and Ichneumonidae. Russia: **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China (NE, CC, SW, SE), Korean Peninsula, Japan, N America.
- Eurytoma victori** Zerova et Klymenko, 2010. Russia: **EP** (C).
- Eurytoma wachtli** Mayr, 1878. Primary parasitoid of coleopterans from the families Chrysomelidae (Bruchinae), Cerambycidae and Curculionidae (including Scolytinae); secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (C, S, NC), **UR**. – Europe (WE, SE, EE), Georgia, Azerbaijan.
- NIKANORIA** Nikolskaya, 1955 (*Birolajosia* Erdős, 1955). Type species: *Nikanoria pavlovskii* Nikolskaya, 1955. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 40, Russia – 4.
- Nikanoria metallica** (Erdős, 1955) [Birolajosia]. Associated with *Astragalus glycyphyllos* L. (Fabaceae). Russia: **EP** (NC). – Europe (WE, EE).
- Nikanoria orski** Zerova, 2013. Russia: **UR**.
- Nikanoria stepicola** Zerova, 1978. Russia: **EP** (S). – Europe (EE).
- Nikanoria szelenyii** Zerova, 1974. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC). – Europe (WE, EE), Azerbaijan, Kazakhstan.

- PHILACHYRA** Walker, 1871 (*Isosoma* Howard, 1896). Type species: *Philachyra ips* Walker, 1896. The validity of this genus was justified by Zerova (1976). The genus is distributed in the Holarctic region. Number of species: World – 7, Palearctic – 2, Russia – 1.
- Philachyra aptera** Walker, 1871 (*Isosoma apterum* Portschinsky, 1881; *I. grande* Riley, 1884). Associated with *Triticum* spp. (Poaceae). Russia: **EP** (NC). – Europe (EE), Israel, Iran, Tajikistan, Kyrgyzstan, N America.
- PSEUDOSYSTOLE** Kalina, 1969. Type species: *Pseudosystole hofferi* Kalina, 1969. The genus is distributed in the Palearctic region. Number of species: World and Palearctic – 2, Russia – 1.
- Pseudosystole hofferi** Kalina, 1969. Associated with *Trinia hispida* Hoffm. (Apiaceae). Russia: **EP** (NW, C). – Europe (WE, EE), Mongolia.
- SYCOPHILA** Walker, 1871 (*Tineomyza* Rondani, 1872; *Pseudisa* Walker, 1875; *Decatomidea* Ashmead, 1888; *Eudecatoma* Ashmead, 1888). Type species: *Sycophila decatomoides* Walker, 1871. Cosmopolitan. Number of species: World – about 119, Palearctic – 16, Russia – 6.
- Sycophila biguttata** (Swederus, 1795) [Pteromalus] (*Decatoma biguttata* Curtis, 1831; *D. cooperi* Curtis, 1831; *D. obscura* Curtis, 1831; *D. cooperi* Walker, 1832; *D. immaculata* Walker, 1832; *D. semifasciata* Walker, 1834; *Eurytoma biguttata* Boheman, 1836; *Decatoma inaequalis* Thomson, 1876; *D. incrassata* Thomson, 1876; *D. strigifrons* Thomson, 1876). Primary parasitoid of hymenopterans from the families Cynipidae and Torymidae. Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Jordan, Iran, Kazakhstan.
- Sycophila fasciata** (Thomson, 1875) [Decatoma] (*Decatoma stagnalis* Erdős, 1947). Primary parasitoid of dipterans *Giraudiella inclusa* Fruenfeld (Cecidomyiidae) and *Lipara lucens* Mg. (Chloropidae). Russia: **EP** (S). – Europe (WE, NE, EE).
- Sycophila flavicollis** (Walker, 1834) [Decatoma] (*Eurytoma xanthomelas* Boheman, 1836; *E. neesii* Foerster, 1841; *Decatoma xanthomelas* Thomson, 1876). Primary parasitoid of *Andricus testaceipes* Hartig and *A. trifasciatus* Hartig (Hymenoptera: Cynipidae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran.
- Sycophila mellea** (Curtis, 1831) [Decatoma] (*Decatoma amsterdamensis* Girault, 1917; *D. rimskykorsakovi* Erdős, 1952). Primary parasitoid of dipterans from the family Cecidomyiidae, hemipterans from the family Kermesidae and hymenopterans from the families Cynipidae and Eurytomidae. Russia: **EP** (NW, C, S), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, N America.
- Sycophila submutica** (Thomson, 1876) [Decatoma] (*Decatoma caudata* Thomson, 1876; *Sycophila emarginata* Abdul-Rassoul, 1980). Primary parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **EP** (C, S), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Turkey, Iraq, Iran, Kazakhstan, N America.
- Sycophila variegata** (Curtis, 1831) [Decatoma] (*Decatoma minuta* Curtis, 1831; *D. unicolor* Curtis, 1831; *D. tenuicornis* Walker, 1832). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iraq, Jordan, Israel, Iran, China (SE), Korean Peninsula, Japan.
- SYSTOLE** Walker, 1832. Type species: *Systole albipennis* Walker, 1832. Cosmopolitan. Number of species: World – 40, Palearctic – 33, Russia – 5.
- Systole albipennis** Walker, 1832 (*Eurytoma brevicorne* Boheman, 1836). Associated with *Bupleurum fruticosum* L., *B. rotundifolium* L., *Carum carvi* L., *Ferula orientalis* L., *Pastanica* sp., *Petroselinum sativum* Hoffm. and *Torilis* sp. (Apiaceae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, N and S America, India.
- Systole bipunctata** Erdős, 1952. Associated with *Eryngium campestre* L. (Apiaceae). Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan, Turkey, Turkmenistan.
- Systole coriandri** Gussakovskij, 1933. Associated with *Coriandrum sativum* L. (Apiaceae). Russia: **EP** (S), **FE** (PR). – Europe (EE), N Africa, Turkey, Iran, Afghanistan, Uzbekistan, China, Japan, N America, India, SE Asia, S America.
- Systole singularis** Zerova, 1983. Associated with *Archangelica officinalis* Hoffm. (Apiaceae). Russia: **EP** (S). – Europe (EE).
- Systole tuonela** Claridge, 1959. Associated with *Daucus carota* L. and *Pimpinella saxifraga* L. (Apiaceae). Russia: **FE** (PR). – Europe (WE, EE).
- TETRAMESA** Walker, 1848 (*Isosoma* Walker, 1832; *Harmolita* Motschulsky, 1863; *Isthmosoma* Hedicke, 1920). Type species: *Tetramesa iarbass* Walker, 1848 (= *Isosoma crassicornis* Walker, 1832). Cosmopolitan. Number of species: World – 202, Palearctic – 127, Russia – 26.
- Tetramesa aciculata** (Schlechtendal, 1891) [Isosoma]. Associated with *Stipa capillata* L. (Poaceae). Russia: **EP** (C, NC), **UR**. – Europe (WE, EE), Turkmenistan, Kazakhstan, Mongolia.
- Tetramesa agrostidis** (Howard, 1896) [Isosoma]. Associated with *Agrostis vulgaris* With. and *A. alba* L. (Poaceae). Russia: **EP** (C), **UR**. – Europe (WE, EE), Turkey, Kazakhstan, N America.
- Tetramesa albomaculata** (Ashmead, 1894) [Isosoma]. Associated with *Phleum* L. (Poaceae). Russia: **EP** (NC), **WS** (TM). – Europe (WE, NE, EE), N America.
- Tetramesa aneurolepidii** Zerova, 1965. Associated with *Aneurolepidium ramosum* Trin. (Poaceae). Russia: **EP** (E, S), **WS** (AL). – Europe (EE), Kazakhstan.

- Tetramesa angustipennis** (Walker, 1832) [Isosoma] (*Isosoma longulum* Walker, 1832; *I. verticillata* Walker, 1846; *I. melanomera* Walker, 1871; *I. opaca* Thomson, 1876; *I. longicollis* Hedicke, 1920). Associated with *Alopecurus pratensis* L. (Poaceae). Russia: **UR**. – Europe (WE, NE, EE), Turkey.
- Tetramesa bambusae** (Phillips, 1936) [Harmolita]. Associated with *Phyllostachys viridiglaucens* Riv. (Poaceae). Russia: **EP** (NC). – Europe (EE), Georgia, China (NC, CC), Japan, N America.
- Tetramesa brevicollis** (Walker, 1836) [Isosoma] (*Isosoma hieronymi* Schlechtendal, 1891). Associated with *Festuca* L. (Poaceae). Russia: **EP** (NW). – Europe (WE, NE, EE), Kazakhstan.
- Tetramesa brischkei** (Schlechtendal, 1891) [Isosoma]. Associated with *Elymus arenarius* L. and *E. sabulosus* Lam. (Poaceae). Russia: **EP** (NC), **FE** (AM). – Europe (WE, EE), Turkey, Kazakhstan.
- Tetramesa calamagrostidis** (Schlechtendal, 1891) [Eurytoma]. Associated with *Calamagrostis epigeios* L. (Poaceae). Russia: **EP** (NW, S), **FE** (PR, SA). – Europe (WE, NE, EE), Mongolia.
- Tetramesa cereipes** (Erdős, 1955) [Harmolita]. Associated with *Agropyrum ruthenicum* Griseb. (Poaceae). Russia: **EP** (NC). – Europe (WE, EE), Georgia, Azerbaijan, Turkey.
- Tetramesa cornuta** (Walker, 1832) [Isosoma] (*Isosoma disimile* Walker, 1832; *Harmolita agropyrophila* Phillips et Emery, 1919). Associated with *Agropyrum repens* L. and *A. trichophorum* Richt. (Poaceae). Russia: **FE** (PR). – Europe (WE, NE, EE), Turkey, Kazakhstan, N America.
- Tetramesa cylindrica** (Schlechtendal, 1832) [Isosoma]. Associated with *Stipa capillata* L. (Poaceae). Russia: **EP** (C, NC), **UR**. – Europe (WE, SE, EE), Azerbaijan, Kazakhstan.
- Tetramesa elongata** Zerova, 1965. Associated with *Agropyron pectiniforme* Roem. et Schult. (Poaceae). Russia: **EP** (NC). – Europe (WE, EE), Turkmenistan, Kazakhstan.
- Tetramesa eremita** (Portschinsky, 1881) [Isosoma]. Associated with *Secale* L. (Poaceae). Russia: **EP** (NC). – Europe (EE).
- Tetramesa eximia** (Giraud, 1863) [Isosoma] (*Isosoma giganteum* Hedicke, 1921). Associated with *Calamagrostis epigeios* L. (Poaceae). Russia: **EP** (NW, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Kazakhstan.
- Tetramesa fumipennis** (Walker, 1832) [Isosoma] (*Isosoma claripenne* Walker, 1871). Associated with *Alopecurus geniculatus* L. (Poaceae). Russia: **FE** (KA). – Europe (WE, NE, EE), Azerbaijan, Turkey.
- Tetramesa gracilipennis** Szelényi, 1968. Associated with *Festuca* L. (Poaceae). Russia: **EP** (NW). – Europe (EE).
- Tetramesa hyalipennis** (Walker, 1832) [Isosoma] (*Eurytoma pilicornis* Boheman, 1836; *Isosoma graminicola* Giraud, 1863). Associated with *Agropyrum repens* L. (Poaceae). Russia: **EP** (NW, S). – Europe (WE, NE, SE, EE), Kazakhstan.
- Tetramesa linearis** (Walker, 1832) [Isosoma] (*Isosoma attenuatum* Walker, 1832; *I. canaliculata* Walker, 1871; *I. agropyri* Schlechtendal, 1891; *I. dimidiatum* Hedicke, 1921). Associated with *Agropyrum* L. (Poaceae). Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, Mongolia, N America, Australasia.
- Tetramesa longula** (Dalman, 1820) [Eurytoma] (*Harmolita dactylicola* Phillips et Emery, 1919). Associated with *Dactylis glomerata* L. (Poaceae). Russia: **EP** (C). – Europe (WE, NE, EE), Turkey, N America.
- Tetramesa obscurata** Zerova, 1965. Associated with *Bromus squarrosus* L. (Poaceae). Russia: **EP** (C).
- Tetramesa petiolata** (Walker, 1832) [Isosoma]. Associated with *Deschampsia caespitosa* L. (Poaceae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE).
- Tetramesa phleicola** (Hedicke, 1920) [Isosoma]. Associated with *Phleum* sp. (Poaceae). Russia: **FE** (PR). – Europe (WE, NE, SE, EE).
- Tetramesa phragmitis** (Erdős, 1952) [Gahaniola]. Associated with *Phragmites australis* Cav. (Poaceae). Russia: **EP** (S, NC), **FE** (PR). – Europe (WE, EE), Israel, Tajikistan, Japan.
- Tetramesa samarica** (Tshesnokov, 1930) [Harmolita]. Associated with *Bromus inermis* Leyss. (Poaceae). Russia: **EP** (NW, C). – Europe (EE), Kazakhstan, Mongolia.
- Tetramesa schepigigi** (Schlechtendal, 1891) [Isosoma]. Associated with *Stipa sabulosa* (Pacz.) Sljus. (Poaceae). Russia: **EP** (C), **UR**. – Europe (WE, EE), Kazakhstan.

42. FAMILY TORYMIDAE

E.V. TSELIKH, M.D. ZEROVA AND V.A. TRJAPITZIN

Torymidae are chalcid parasitoids with elongate body, 1.1–7.5 mm. Female with ovipositor clearly exerted, usually longer than gaster; stigmal vein of fore wing short; petiole strongly transverse; cercal plates of metasoma not flat, slightly raised and of papillar form.

Torymids are associated with seeds and plant galls: some of them are phytophagous, but the majority of species of the subfamilies Toryminae and Monodontomerinae and a few species of Megastigminae are idiobiont ectoparasitoids of the inhabitants of plant galls (Noyes, 2019).

Number of taxa: World – 68 genera and 986 species, Palaearctic – 32/about 500, Russia – 15/101.

R e f e r e n c e s. Walker, 1874; Hellén, 1934; Egorov, 1952; Nikol'skaya, 1952, 1966; Nikol'skaya, Kyao, 1954; Kolomiets, 1956b, 1958, 1962, 1965; Thompson, 1958; Boldaruev, 1959; Peck, 1963; Bouček, 1966; Stadnitskiy, 1966; Grebenshchikova, 1973; Pribylova, 1974; Herting, 1975, 1977; Nikol'skaya, Zerova, 1978; Stanionyte, 1978; Zerova, 1981b, 1989; Artokhin, 1983a; Sharov, 1983; Dolgin, 1984, 1989, 1993; Zerova, Grissell, 1985; Dolgin et al., 1987; Zerova,

Seryogina, 1991, 1993, 1994a, 1995a, 1997, 1998, 1999a, 1999b, 1999c, 2001, 2002, 2006a; Graham, 1994; Grissell, 1995; Graham, Gijswijt, 1998; Artokhin, 2000; Askew et al., 2001; Zavada, 2001, 2003; Basov, 2002; Roques, Skrzypczynska, 2003; Zerova et al., 2003; Kostjukov et al., 2004a; Kovalenkov et al., 2004a; Zerova et al., 2006; Yegorenkova et al., 2007; Jansta et al., 2018; Noyes, 2019.

Subfamily ERIMERINAE

ADONTOMERUS Nikolskaya, 1955 (*Mellitotorymus* Stefan, 1964). Type species: *Adontomerus eriogasteris* Nikolskaya, 1955. Number of species: World and Palaearctic – 11, Russia – 1.

Adontomerus amygdali (Bouček, 1958) [Plastotorymus]. Primary parasitoid of *Eurytoma amygdali* Ender (Hymenoptera: Eurytomidae). Russia: without regions (Herting, 1977). – Turkey, Jordan, Lebanon.

ERIMERUS Crawford, 1914 (*Pseuderimerus* Gahan, 1919; *Lochitimorpha* Szelenyi, 1957). Type species: *Torymus wickhami* Ashmead, 1904. The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 13, Palaearctic – 9, Russia – 3.

Eriemerus femoratus (Gahan, 1933) [Pseuderimerus]. Primary parasitoid of *Mayetiola destructor* Say (Diptera: Cecidomyiidae). Russia: without regions (Thompson, 1958). – N America.

Eriemerus mayetiolae (Gahan, 1919) [Pseuderimerus]. Primary parasitoid of *Mayetiola destructor* Say (Diptera: Cecidomyiidae). Russia: without regions (Thompson, 1958). – N America.

Eriemerus semiflavus (Gahan, 1933) [Pseuderimerus]. Primary parasitoid of *Mayetiola destructor* Say (Diptera: Cecidomyiidae). Russia: without regions (Thompson, 1958). – N America.

ERIDONTOMERUS Crawford, 1907 (*Dibaeomerus* Erdős, 1954). Type species: *Eridontomerus primus* Crawford, 1907. The genus is distributed in the Holarctic and Neotropical regions. Number of species: World and Palaearctic – 16, Russia – 3.

Eridontomerus aureoviridis (Crawford, 1907) [Ditropinotus] (*Ditropinotus flavicoxus* Gahan, 1912). Primary parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Eurytomidae; secondary parasitoid of *Homoporus nypsius* Walk. (Pteromalidae). Russia: without regions (Thompson, 1958). – N and S America.

Eridontomerus laticornis (Foerster, 1859) [Cryptopristus]. Primary parasitoid of *Tetramesa brevicornis* Walk. and *T. linearis* Walk. (Hymenoptera: Eurytomidae). Russia: UR. – Europe (WE, SE, EE).

Eridontomerus sapphyrinus Zerova et Seryogina, 1999. Parasitoid of *Tetramesa* sp. (Hymenoptera: Eurytomidae). Russia: EP (NC). – Europe (EE).

EXOPRISTUS Ruschka, 1923. Type species: *Cryptopristus trigonomerus* Masi, 1916. Monotypic Palaearctic genus.

Exopristus trigonomerus (Masi, 1916) [Cryptopristus]. Primary parasitoid of coleopterans from the family Curculionidae, hemipterans from the family Lecanodiaspididae and lepidopterans from the family Pyralidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: UR. – Europe (WE, SE, EE), N Africa, Turkey, Iran, Mongolia.

IDIOMACROMERUS Crawford, 1914 (*Lochites* Foerster, 1856; *Liodontomerus* Gahan, 1914; *Lochitisca* Ghesquière, 1946; *Lochimerus* Szelenyi, 1957). Type species: *Idiomacromerus bimaculipennis* Crawford, 1914. Cosmopolitan. Number of species: World – 64, Palaearctic – 60, Russia – 3.

Idiomacromerus eltonicus (Zerova et Seryogina, 1997) [Liodontomerus]. Primary parasitoid of *Xerophedromyia ustjurtensis* Fedotova (Diptera: Cecidomyiidae). Russia: EP (S). – Europe (EE).

Idiomacromerus perplexus (Gahan, 1914) [Liodontomerus]. Primary parasitoid of hymenopterans from the family Eurytomidae. Russia: EP (C, S, NC). – Europe (EE), Armenia, Iran, Central Asia, N America, Afrotropics, S America.

Idiomacromerus terebrator (Masi, 1916) [Lochites] (*Idiomacromerus longfellowi* Girault, 1917; *Liodontomerus secundus* Gahan, 1917). Primary parasitoid of coleopterans from the family Apionidae and hymenopterans from the family Eurytomidae. Russia: EP (C). – Europe (WE, SE, EE), Armenia, Iran, Uzbekistan, N America, Australasia.

MICRODONTOMERUS Crawford, 1907 (*Antistrophoplex* Crawford, 1914; *Paraholaspis* Masi, 1921; *Plastotorymus* Masi, 1921). Type species: *Antistrophoplex bicoloripes* Crawford, 1907. The genus is distributed in the Holarctic, Afrotropical and Neotropical regions. Number of species: World – 41, Palaearctic – 21, Russia – 1.

Microdontomerus annulatus (Spinola, 1808) [Diplolepis] (*Paraholaspis cothurnata* Masi, 1921). Primary parasitoid of hymenopterans from the family Cynipidae, lepidopterans from the family Tortricidae and dipterans from the families Cecidomyiidae and Tephritidae. Russia: EP (C, S). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iran, Pakistan, N America.

Subfamily GLYPHOMERINAE

GLYPHOMERUS Foerster, 1856 (*Oligosthenus* Foerster, 1856). Type species: *Ichneumon stigma* Fabricius, 1793. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 9, Russia – 2.

Glyphomerus isosomatis Zerova et Seryogina, 1999. Primary parasitoid of *Tetramesa aneurolepidii* Zerova and *T. brevicollis* Walk. (Hymenoptera: Eurytomidae). Russia: **EP** (S). – Europe (EE).

Glyphomerus stigma (Fabricius, 1793) [Ichneumon] (*Torymus ater* Nees, 1834; *Oligosthenus bimaculatus* Provancher, 1887). Primary parasitoid of hymenopterans from the families Apidae and Cynipidae. Russia: **EP** (C, S), **WS** (NS), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey, Iran, Kyrgyzstan, Japan, S America.

Subfamily MEGASTIGMINAE

BOOTANOMYIA Girault, 1915 (*Megastigmus* Girault, 1915; *Epibootania* Girault, 1937). Type species: *Megastigmus smaragdus* Girault, 1915. The genus is distributed in the Palaearctic region. Number of species: World – 24, Palaearctic – 17, Russia – 2.

Bootonomyia dorsalis (Fabricius, 1798) [Ichneumon] (*Megastigmus xanthopygus* Foerster, 1859). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Iran, China (SE), India.

Bootonomyia stigmatizans (Fabricius, 1798) [Ichneumon] (*Cleptes stigma* Fabricius, 1804; *Torymus puparum* Schmidt, 1851; *Megastigmus giganteus* Walker, 1852). Primary parasitoid of hymenopterans from the family Cynipidae; secondary parasitoid of *Torymus nigricornis* F. (Torymidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iran.

MEGASTIGMUS Dalman, 1820 (*Cycloneuron* Dahlbom, 1857; *Trogocarpus* Rondani, 1877; *Megalostigmus* Schulz, 1906; *Xanthosomoides* Girault, 1913; *Eumegastigmus* Hussey, 1956). Type species: *Pteromalus bipunctatus* Swederus, 1795. Cosmopolitan. Number of species: World – 151, Palaearctic – 54, Russia – 16.

Megastigmus aculeatus (Swederus, 1795) [Pteromalus] (*Megastigmus transversus* Walker, 1833; *Torymus punctum* Foerster, 1841; *Megastigmus vexillum* Ratzeburg, 1848; *M. flavus* Foerster, 1859; *M. cynorrhodi* Perris, 1876). Develops on Rosaceae. Russia: **EP** (C, E, NC), **UR**, **ES** (IR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Armenia, Iraq, Iran, Turkmenistan, Tajikistan, Kazakhstan, China (NE), Japan, N America, Afro-tropics, Australasia.

Megastigmus amicorum Bouček, 1969. The larva develops on Cupressaceae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Georgia.

Megastigmus atedius Walker, 1851 (*Megastigmus piceae* Rohwer, 1915; *M. zwoelferi* Schefer-Immel, 1957). The larva develops on Pinaceae. Russia: – Europe (WE, NE, SE, EE), N America.

Megastigmus bipunctatus (Swederus, 1795) [Pteromalus] (*Torymus erythrothorax* Nees, 1834; *Megastigmus*

microspilus Thomson, 1876; *M. kuntzei* Kapuscinski, 1946). The larva develops on Cupressaceae and Ericaceae and primary parasitoid of lepidopterans from the families Gelechiidae and Momphidae. Russia: **EP** (N). – Europe (WE, NE, SE, EE), N Africa, Iran, Uzbekistan, Kazakhstan.

Megastigmus borriesi Crosby, 1913. The larva develops on Pinaceae. Russia: **FE** (SA). – Europe (NE), Korean Peninsula, Japan.

Megastigmus brevicaudis Ratzeburg, 1852. Develops on Rosaceae and a primary parasitoid of lepidopterans from the families Pyralidae and Tortricidae. Russia: **EP** (N, NW, C), **ES** (IR). – Europe (WE, NE, EE), N America.

Megastigmus fidus Nikolskaya, 1966. The larva develops on Cupressaceae. Russia: **EP** (NC). – Kyrgyzstan.

Megastigmus mali Nikolskaya, 1952. Russia: **WS** (without regions: Nikolskaya, 1952), **ES** (IR).

Megastigmus pictus (Foerster, 1841) [Torymus] (*Megastigmus seitneri* Hoffmeyer, 1929). The larva develops on Pinaceae. Russia: **EP** (NW), **ES** (IR). – Europe (WE, NE, SE, EE), China (NE, NC, CC).

Megastigmus pinus Parfitt, 1857. The larva develops on Celastraceae, Cupressaceae and Pinaceae. Russia: – Europe (WE, NE, EE), N America.

Megastigmus pistaciae Walker, 1871 (*Trogocarpus balletterii* Rondani, 1877). The larva develops on Anacardiaceae and Myrtaceae. Russia: without regions (Noyes, 2019). – Europe (WE, SE, EE), N Africa, Georgia, Turkey, Syria, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, China, N and S America, Australasia.

Megastigmus rosae Bouček, 1971 (*Megastigmus kondaricus* Zerova et Seryogina, 1994). The larva develops on Rosaceae. Russia: **EP** (NC). – Europe (WE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Kazakhstan.

Megastigmus specularis Walley, 1932 (*Megastigmus grönblomi* Kangas, 1945). The larva develops on Pinaceae. Russia: **EP** (C), **WS** (without regions: Zerova, Seryogina, 1994), **ES** (without regions: Zerova, Seryogina, 1994). – Europe (WE, NE), N America.

Megastigmus spermatrophus Wachtl, 1893. Develops on Pinaceae and is a primary parasitoid of *Pteromalus chrysos* Walk. (Hymenoptera: Pteromalidae). Russia: without regions (Roques, Skrzypczynska, 2003). – Europe (WE, NE, SE, EE), N and S America, Australasia.

Megastigmus strobilobius Ratzeburg, 1848 (*Megastigmus abietis* Seitner, 1916). The larva develops on Pinaceae. Russia: **EP** (N, C, NC), **WS** (TM, AL), **ES** (IR). – Europe (WE, NE, SE, EE), Kazakhstan.

Megastigmus suspectus Borries, 1895 (*Megastigmus piceae* Seitner, 1916; *M. bornmuellerianus* Hussey, 1957). The larva develops on Pinaceae. Russia: **EP** (N). – Europe (WE, NE, SE, EE), Georgia, Turkey, Kazakhstan.

Subfamily MONODONTOMERINAE

MONODONTOMERUS Westwood, 1833 (*Paroligosthenus* Cameron, 1913). Type species: *Monodontomerus obscurus* Westwood, 1833. The genus is distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 43, Palaearctic – 19, Russia – 8.

Monodontomerus aeneus (Fonscolombe, 1832) [Cynips] (*Cynips punctata* Geoffroy, 1785; *Ichneumon obsoletus* Fabricius, 1798; *Monodontomerus nitidus* Newport, 1849; *M. retusa* Newport, 1850; *M. vacillans* Foerster, 1860; *M. punctatus* Thomson, 1876). Primary parasitoid of hymenopterans from the families Apidae, Diprionidae, Pamphiliidae, Sphecidae, Tenthredinidae and Vespidae, lepidopterans from the families Arctiidae, Lasiocampidae, Lymantriidae, Pieridae and Tortricidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Braconidae, Ichneumonidae and Chrysididae. Russia: **EP** (NW, C), **WS** (TK, NS, KM), **ES** (TU, KR). – Europe (WE, SE, EE), Georgia, Azerbaijan, Iran, Kyrgyzstan, Kazakhstan, China (NE, NC, NW), N and S America.

Monodontomerus aereus Walker, 1834 (*Torymus anephelus* Ratzeburg, 1844; *Monodontomerus cupreus* Fabre, 1886; *M. kashmiricus* Narendran, 1994). Primary parasitoid of hymenopterans from the families Apidae, Cynipidae, Diprionidae and Tenthredinidae, lepidopterans from the families Arctiidae, Lasiocampidae, Lymantriidae, Notodontidae, Nymphalidae, Pieridae, Tortricidae and Yponomeutidae; secondary parasitoid of dipterans from the families Sarcophagidae and Tachinidae, hymenopterans from the families Braconidae, Chalcididae, Eulophidae and Ichneumonidae. Russia: **EP** (C, S, NC), **UR**. – Europe (WE, SE, EE), N Africa, Georgia, Armenia, Turkey, Iran, Kyrgyzstan, Kazakhstan, Japan, N America, India.

Monodontomerus dentipes (Dalman, 1820) [Torymus] (*Monodontomerus viridaeneus* Provancher, 1881). Primary parasitoid of hymenopterans from the families Cimbicidae, Diprionidae, Tenthredinidae and Vespidae, lepidopterans from the families Arctiidae, Lasiocampidae, Lymantriidae, Pieridae, Pyralidae, Saturniidae, Tortricidae and Yponomeutidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Braconidae, Eulophidae and Ichneumonidae. Russia: **EP** (C, S), **WS** (TK), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, N America.

Monodontomerus laticornis Grissell et Zerova, 1985. Primary parasitoid of hymenopterans from the family Apidae. Russia: **EP** (E, NC), **WS** (OM), **FE** (PR). – Europe (EE), Kazakhstan.

Monodontomerus minor (Ratzeburg, 1848) [Torymus] (*Ichneumon rodophthalmus* Rossi, 1792; *Monodontomerus interruptus* Foerster, 1860; *M. virens* Thomson, 1876; *M. spectabilis* Matsumura, 1926; *M. dilinae* Palmèn, 1940;

M. subobsoletus Gahan, 1941). Primary parasitoid of hymenopterans from the families Apidae, Cimbicidae and Diprionidae, lepidopterans from the families Arctiidae, Geometridae, Lasiocampidae, Limacodidae, Lymantriidae, Noctuidae, Notodontidae, Nymphalidae, Pieridae, Psychidae, Saturniidae, Sphingidae, Tortricidae, Yponomeutidae and Zygaenidae; secondary parasitoid of dipterans from the family Tachinidae, hymenopterans from the families Braconidae, Eurytomidae and Ichneumonidae. Russia: **EP** (C, S, NC), **ES** (TU), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Pakistan, Tajikistan, Kazakhstan, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan, N America, India.

Monodontomerus obscurus Westwood, 1833 (*Callimome pubescens* Walker, 1833; *Torymus dresdensis* Ratzeburg, 1844; *T. metallicus* Ratzeburg, 1844; *Monodontomerus anthophorae* Walker, 1852; *M. intermedius* Foerster, 1860; *Paroligosthenus trichiophthalmus* Cameron, 1913; *Monodontomerus masii* Hoffmeyer, 1929). Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the family Stratiomyidae, hymenopterans from the families Apidae, Chrysididae, Diprionidae, Sphecidae and Vespidae and lepidopterans from the families Gelechiidae, Lymantriidae and Tortricidae. Russia: **EP** (C, E, NC), **WS** (OM). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Iran, Lebanon, Pakistan, Turkmenistan, Kazakhstan, N America, India, S America.

Monodontomerus osmia Kamijo, 1963. Primary parasitoid of hymenopterans from the family Apidae. Russia: **FE** (PR). – China (NC), Japan, N America.

Monodontomerus vicicellae (Walker, 1847) [Torymus] (*Monodontomerus nubecula* Rondani, 1877). Primary parasitoid of hymenopterans from the families Apidae, Cimbicidae and Diprionidae, lepidopterans from the families Lymantriidae, Notodontidae, Psychidae, Tortricidae and Zygaenidae; secondary parasitoid of hymenopterans from the family Ichneumonidae. Russia: without regions (Herting, 1975). – Europe (WE, NE, SE, EE), Iran, Mongolia.

Subfamily PODAGRIONINAE

PODAGRION Spinola, 1811 (*Priomerus* Walker, 1833; *Bactyrishion* Costa, 1857; *Notopodion* Dahlbom, 1857; *Blephonira* Holmgren, 1868; *Cleptomorpha* Walker, 1872; *Coquerelia* Saussure, 1890; *Cyanostola* Saussure, 1890; *Cleptomorpha* Dalla Torre, 1898; *Notopodium* Schulz, 1906; *Podagrion* Schulz, 1906; *Pachytomoidella* Girault, 1913; *Propodagrion* Girault, 1915; *Coquereliana* Gahan et Fagan, 1923). Type species: *Podagrion splendens* Spinola, 1811. Cosmopolitan. Number of species: World – 97, Palaearctic – 15, Russia – 3.

Podagrion mantis Ashmead, 1886 (*Podagrion mantidis* Riley et Howard, 1892). Primary parasitoid of orthopterans

from the family Mantidae. Russia: **EP** (N). – China (CC, SE), N and S America.

Podagrion pachymerum (Walker, 1833) [Priomerus] (*Palmon religiosus* Westwood, 1847; *Cleptimorpha binotata* Walker, 1872). Primary parasitoid of the family Mantidae (Mantodea). Russia: **EP** (NC), **FE** (PR). – Europe (WE, SE, EE), Syria, Iran, India.

Podagrion splendens Spinola, 1811 (*Bactyrishchion bicoloratum* Costa, 1857). Primary parasitoid of the family Mantidae (Mantodea). Russia: **EP** (NC). – Europe (WE, SE, EE), N Africa, Turkey.

Subfamily TORYMINAE

AMEROMICRUS Nikolskaya, 1954. Type species: *Ameromicrus violaceus* Nikolskaya, 1954. The genus is distributed in the Palaearctic region. Number of species: World – 12, Palaearctic – 12, Russia – 2.

Ameromicrus confluens Bouček, 1969. Russia: **EP** (NC). – Georgia, Azerbaijan.

Ameromicrus eltonicus Zerova et Seryogina, 1993. Russia: **EP** (S). – Kazakhstan.

PSEUDOTORYMUS Masi, 1921 (*Holaspis* Mayr, 1874; *Thiesia* Risbec, 1951). Type species: *Torymus militaris* Boheman, 1834. Cosmopolitan. Number of species: World – 62, Palaearctic – 56, Russia – 3.

Pseudotorymus leguminus Ruschka, 1923 (*Pseudotorymus leguminum* Ruschka, 1923). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **WS** (AL). – Europe (WE, EE), Turkey.

Pseudotorymus medicaginis (Mayr, 1874) [Torymus]. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **WS** (without regions: Nikolskaya, 1952). – Europe (WE, NE, EE), Iran, Mongolia.

Pseudotorymus stachidis (Mayr, 1874) [Holaspis]. Primary parasitoid of dipterans from the family Cecidomyiidae and of hymenopterans from the family Cynipidae. Russia: **EP** (NC). – Europe (WE, EE), Iran.

TORYMOIDES Walker, 1871 (*Dimeromicrus* Crawford, 1910; *Macrodontomerus* Girault, 1913; *Didactyliocerus* Masi, 1916; *Ameromicrus* Nikolskaya, 1954; *Pondotorymus* Bouček, 1978). Type species: *Torymoides amabilis* Walker, 1871. Cosmopolitan. Number of species: World – 46, Palaearctic – 7, Russia – 2.

Torymoides kiesenwetteri (Mayr, 1874) [Holaspis] (*Dimeromicrus longicauda* Masi, 1916). Primary parasitoid of dipterans from the families Cecidomyiidae and Tephritidae. Russia: **EP** (NC). – Europe (WE, SE, EE), N Africa, Turkey, Iran, China (NC, SW, SE), India.

Torymoides violaceus (Nikolskaya, 1954) [Ameromicrus] (*Liodontomerus bifasciatus* Szélényi, 1973). Primary parasitoid of dipterans from the family Cecidomyiidae.

Russia: **EP** (NC), **UR**. – Europe (SE, EE), Georgia, Azerbaijan, Iran, Kazakhstan, Mongolia, Japan.

TORYMUS Dalman, 1820 (*Callimome* Spinola, 1811; *Misocampe* Latreille, 1818; *Misocampus* Stephens, 1829; *Diomorus* Walker, 1834; *Syntomaspis* Foerster, 1856; *Callimomus* Thomson, 1876; *Lioterphus* Thomson, 1876; *Nannocerus* Mayr, 1885; *Hemitorymus* Ashmead, 1904; *Dihomerus* Schulz, 1906; *Parasympiesis* Brèthes, 1927). Type species: *Ichneumon bedeguaris* Linnaeus, 1758. Cosmopolitan. Number of species: World – 403, Palaearctic – 230, Russia – 51.

Torymus affinis (Fonscolombe, 1832) [Cynips] (*Callimome apicalis* Walker, 1833; *C. fuscipennis* Walker, 1833; *C. littoralis* Walker, 1833; *C. tarsalis* Walker, 1833; *Torymus caudatus* Nees, 1834; *T. saphirinus* Boheman, 1834; *T. admirabilis* Foerster, 1841; *T. crinicaudis* Ratzeburg, 1844; *Syntomaspis sapphirina* Dalla Torre, 1898). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.

Torymus amurensis (Walker, 1874) [Callimome]. Primary parasitoid of *Euura atra* Jur. (Hymenoptera: Tenthredinidae). Russia: **FE** (AM). – Europe (WE, EE).

Torymus amurensis Özdikmen, 2011 (*Callimome contractus* Walker, 1874). Russia: **FE** (AM).

Remarks. Junior homonym of *T. amurensis* (Walker, 1874) (Noyes, 2019).

Torymus angelicae (Walker, 1836) [Callimome] (*Torymus abdominalis* Boheman, 1834). Primary parasitoid of hymenopterans from the family Cynipidae; secondary parasitoid of *Eurytoma brunniventris* Ratz. (Eurytomidae). Russia: **EP** (C). – Europe (WE, NE, EE).

Torymus anthobiae Ruschka, 1921. Primary parasitoid of *Contarinia anthobia* F. Low (Diptera: Cecidomyiidae). Russia: **EP** (C). – Europe (WE, NE, EE).

Torymus arcticus (Thomson, 1876) [Callimomus]. Russia: **FE** (SA, KA). – Europe (NE, SE, EE).

Torymus armatus Boheman, 1834 (*Diomorus nobilis* Walker, 1834). Primary parasitoid of hymenopterans from the families Apidae, Crabronidae and Sphecidae. Russia: **FE** (PR, SA). – Europe (WE, NE, SE, EE), China (NC, SE), Japan, Afrotropics.

Torymus artemisiae Mayr, 1874. Primary parasitoid of *Misopatha baccarum* Wach. and *Rhopalomyia artemisiae* Bouch. (Diptera: Cecidomyiidae). Russia: **EP** (S), **FE** (SA). – Europe (WE, EE), Iran, Turkmenistan.

Torymus arundinis (Walker, 1833) [Callimome] (*Callimome compactus* Walker, 1834; *C. lasiopterae* Girault, 1863; *Torymus bohemani* Thomson, 1876; *T. antipai* Andriescu, 1971). Primary parasitoid of coleopterans from the family Curculionidae (Scolytinae), dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE), Georgia.

- Torymus aucupariae** (Rodzianko, 1908) [Syntomaspis]. Primary parasitoid of *Megastigmus amelantheris* Cush. and *M. brevicaudis* Ratz. (Hymenoptera: Torymidae). Russia: **EP** (NW). – Europe (NE), N America.
- Torymus auratus** (Müller, 1764) [Cynips] (*Cynipsichneumon nigricornutus* Christ, 1791; *Diplolepis nigricornutus* Christ, 1791; *Callimome nitens* Walker, 1833; *C. inconstans* Walker, 1834; *C. lateralis* Walker, 1834; *Torymus regius* Nees, 1834; *T. incertus* Foerster, 1841; *T. longicaudis* Ratzeburg, 1844; *Callimome amyrius* Walker, 1846; *C. devoniensis* Parfitt, 1856; *C. flavipes* Parfitt, 1856). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Iran, N America.
- Torymus austriacus** Graham, 1994. Russia: **EP** (NC). – Europe (WE, EE).
- Torymus azureus** Boheman, 1834 (*Torymus chalybaeus* Ratzeburg, 1844; *Callimome erdosi* Györfi, 1945). Primary parasitoid of dipterans from the family Cecidomyiidae, hymenopterans from the family Eurytomidae and lepidopterans from the family Tortricidae. Russia: **EP** (N, NW), **UR**. – Europe (WE, NE, SE, EE), Japan, N America.
- Torymus baudysi** Bouček, 1954. Primary parasitoid of *Tetramesa calamagrostidis* Schleich. and *T. eximia* Gir. (Hymenoptera: Eurytomidae). Russia: **EP** (NW, S). – Europe (WE, NE, EE).
- Torymus bedeguaris** (Linnaeus, 1758) [Ichneumon] (*Cynips viridis* Geoffroy, 1785; *Torymus elegans* Boheman, 1834; *T. foersteri* Ratzeburg, 1844; *Callimome divisus* Walker, 1871; *C. rosarum* Hoffmeyer, 1929). Primary parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (without regions: Stanionyte, 1978). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Kyrgyzstan, Kazakhstan, China, N America.
- Torymus boops** Graham, 1994. Primary parasitoid of *Dasineura rosarum* Hard. (Diptera: Cecidomyiidae) and *Diplolepis spinosissima* Gir. (Hymenoptera: Cynipidae). Russia: **EP** (C). – Europe (NE, SE, EE).
- Torymus calcaratus** Nees, 1834 (*Torymus igneiventris* Costa, 1858; *Diomorus fertoni* Kieffer, 1898; *D. violaceus* Kieffer, 1898). Primary parasitoid of hymenopterans from the families Cynipidae and Sphecidae. Russia: **EP** (NW). – Europe (WE, SE, EE), Armenia, Turkey, China (SE), India.
- Torymus caudatus** Boheman, 1834 (*Torymus distinctus* Foerster, 1841). Primary parasitoid of *Kaltenbachiola strobili* Win. and *Plemeliella abietina* Seitner (Diptera: Cecidomyiidae). Russia: **EP** (N, NW), **UR**. – Europe (WE, NE, SE, EE), Georgia, Japan, N America.
- Torymus chloromerus** (Walker, 1833) [Callimome] (*Callimome abdominalis* Walker, 1833; *Torymus cyanimus* Boheman, 1834; *T. chlorinus* Foerster, 1841; *T. britannicus* Dalla Torre, 1898; *Callimome centaureae* Hoffmeyer, 1930). Primary parasitoid of dipterans from the families Cecidomyiidae and Tephritidae and hymenopterans from the family Cynipidae; secondary parasitoid of *Eurytoma serratulae* F. (Eurytomidae). Russia: **EP** (C, E). – Europe (WE, NE, SE, EE), Kazakhstan.
- Torymus cingulatus** Nees, 1834 (*Torymus aeneus* Nees, 1834; *T. medius* Foerster, 1841; *T. glechomae* Mayr, 1874). Primary parasitoid of hymenopterans from the family Cynipidae; secondary parasitoid of *Eurytoma brunni-ventris* Ratz. (Eurytomidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), N America.
- Torymus cupreus** (Spinola, 1808) [Diplolepis] (*Diomorus kollari* Foerster, 1859). Primary parasitoid of hymenopterans from the families Apidae and Sphecidae. Russia: **EP** (S, NC). – Europe (WE, NE, SE, EE), Israel.
- Torymus cyaneus** Walker, 1847 (*Torymus dubius* Ratzeburg, 1848; *Callimome eurynotus* Walker, 1850; *Syntomaspis eurynotus* Foerster, 1859; *S. lazulinus* Foerster, 1859). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey.
- Torymus druparum** Boheman, 1834. Primary parasitoid of *Andricus quercuscalicis* Burgsdorf (Hymenoptera: Cynipidae). Russia: without regions (Graham, Gijswijt, 1998). – Europe (WE, NE, EE), Azerbaijan, N and S America, Australasia.
- Torymus erucarum** (Schränk, 1781) [Ichneumon] (*Cinips purpurascens* Olivier, 1791; *Ichneumon fulgens* Fabricius, 1798; *Diplolepis fuliginosa* Spinola, 1808; *Torymus aurulentus* Nees, 1834; *T. fulgidus* Boheman, 1834; *Callimome rasaces* Walker, 1844; *Torymus rubripes* Ratzeburg, 1844). Primary parasitoid of dipterans from the family Cecidomyiidae, hymenopterans from the families Cynipidae and Diprionidae and lepidopterans from the family Tortricidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Torymus eurytomae** (Puzanowa-Malysheva, 1936) [Syntomaspis]. Primary parasitoid of hymenopterans *Eurytoma amygdali* End., *E. schreineri* Schrein. (Eurytomidae) and *Megastigmus amelantheris* Cush. (Torymidae). Russia: **EP** (C, NC). – Europe (EE), N America.
- Torymus fastuosus** Boheman, 1834 (*Torymus robustus* Ratzeburg, 1852). Primary parasitoid of hymenopterans *Trigonaspis megaptera* Pz. and *T. synaspis* Hart. (Cynipidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Georgia, Turkey.
- Torymus filipendulae** Graham et Gijswijt, 1998. Primary parasitoid of *Dasineura ulmariae* Brem. (Diptera: Cecidomyiidae). Russia: **FE** (PR). – Europe (WE, EE).
- Torymus flavipes** (Walker, 1833) [Callimome] (*Cinips aurata* Geoffroy, 1785; *Callimome aequalis* Walker, 1833; *C. ater* Walker, 1833; *C. autumnalis* Walker, 1833; *C. bicolor* Walker, 1833; *C. chlorinus* Walker, 1833; *C. dauci* Walker, 1833; *C. exilis* Walker, 1833; *C. gracilis* Walker, 1833; *C. latus* Walker, 1833; *C. leptocerus*

- Walker, 1833; *C. leucopterus* Walker, 1833; *C. meridionalis* Walker, 1833; *C. minutus* Walker, 1833; *C. mutabilis* Walker, 1833; *C. stramineitarsus* Walker, 1833; *C. terminalis* Walker, 1833; *Torymus euchlorus* Boheman, 1834; *T. viridissimus* Boheman, 1834; *T. nanus* Foerster, 1841; *T. propinquus* Foerster, 1841; *T. appropinquans* Ratzeburg, 1844; *T. nordlingeri* Ratzeburg, 1844; *T. contractus* Ratzeburg, 1848; *T. gallarum* Ratzeburg, 1852; *T. hibernans* Mayr, 1874; *T. sodalis* Mayr, 1874). Primary parasitoid of dipterans from the families Cecidomyiidae and Tephritidae, hymenopterans from the family Cynipidae; secondary parasitoid of dipterans from the family Tachinidae and hymenopterans from the families Eulophidae, Eurytomidae, Pteromalidae and Torymidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Israel, China (NE), N America.
- Torymus formosus** (Walker, 1833) [Callimome] (*Torymus amoenus* Boheman, 1834; *T. compressus* Foerster, 1841). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE).
- Torymus fuscicornis** (Walker, 1833) [Callimome] (*Callimome posticus* Walker, 1833; *Lioterphus moelleri* Thomson, 1833). Primary parasitoid of *Contarinia pisi* Loew (Diptera: Cecidomyiidae). Russia: **EP** (NW), **ES** (IR). – Europe (WE, NE, EE).
- Torymus geranii** (Walker, 1833) [Callimome] (*Torymus cyniphidum* Ratzeburg, 1844; *T. lusitanicus* Tavares, 1901). Primary parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **EP** (NW), **FE** (SA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Jordan, Iran, China, Korean Peninsula, Japan.
- Torymus gracilior** Graham, 1994. Russia: **FE** (SA). – Europe (WE, NE, SE), Turkmenistan.
- Torymus isajevi** Zerova et Dolgin, 1986. Primary parasitoid of *Dasineura rozhkovi* Mam. et Nikolsky (Diptera: Cecidomyiidae). Russia: **EP** (N), **WS** (without regions: Zerova et al., 2006), **ES** (KS).
- Torymus juniperi** (Linnaeus, 1758) [Ichneumon] (*Callimome maestus* Walker, 1833; *Torymus amethystinus* Boheman, 1834; *Callimome solinus* Walker, 1848; *Torymus budensis* Erdős, 1955). Primary parasitoid of *Oligotrophus juniperinus* L. (Diptera: Cecidomyiidae). Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Torymus laetus** (Walker, 1833) [Callimome] (*Torymus congruens* Foerster, 1841; *T. rufipes* Foerster, 1841; *T. hormomyiae* Kieffer, 1899). Primary parasitoid of dipterans from the family Cecidomyiidae and of hymenopterans from the family Cynipidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE).
- Torymus mediocris** (Walker, 1874) [Callimome]. Russia: **FE** (AM).
- Torymus microcerus** (Walker, 1833) [Callimome] (*Callimome aerepe* Walker, 1844; *C. insolitus* Walker, 1874; *Torymus liogaster* Thomson, 1876; *T. saliciperdae* Ruschka, 1921; *Callimome henriksenii* Hoffmeyer, 1930). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (AM, PR). – Europe (WE, NE, EE).
- Torymus nitidulus** (Walker, 1833) [Callimome] (*Torymus pallidicornis* Boheman, 1834; *Callimome nanulus* Walker, 1874). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NW), **WS** (NS), **FE** (AM, KA). – Europe (WE, NE, EE), Turkey, Mongolia, China, N America.
- Torymus nobilis** Boheman, 1834 (*Torymus conjunctus* Nees, 1834; *T. onjunctus* Nees, 1834; *Callimome subterraneus* Curtis, 1835). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Torymus partitus** Graham et Gijswijt, 1998. Primary parasitoid of *Rabdophaga salicis* Schrank (Diptera: Cecidomyiidae). Russia: **FE** (SA, KA). – Europe (WE, NE, SE).
- Torymus phillyreae** Ruschka, 1921 (*Callimome schiodtei* Hoffmeyer, 1930; *C. scoparii* Hoffmeyer, 1930; *Torymus tripudians* Graham, 1993). Primary parasitoid of *Plagiotrochus australis* Mayr (Hymenoptera: Cynipidae) and dipterans from the family Cecidomyiidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Armenia, Turkey.
- Torymus rubi** (Schrank, 1781) [Cynips] (*Callimome macropterus* Walker, 1833; *Torymus splendidus* Foerster, 1841). Primary parasitoid of coleopterans from the family Curculionidae, dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae; secondary parasitoid of hymenopterans from the families Ichneumonidae and Torymidae. Russia: **EP** (C, NC), **FE** (SA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Kyrgyzstan, Kazakhstan.
- Torymus ruschkai** (Hoffmeyer, 1929) [Callimome] (*Torymus tubicola* Ruschka, 1921). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: without regions (Zavada, 2003). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan.
- Torymus scaposus** (Thomson, 1876) [Callimomus]. Russia: **EP** (N). – Europe (NE, EE).
- Torymus scutellaris** (Walker, 1833) [Callimome] (*Torymus auronitens* Foerster, 1841; *T. pleuralis* Thomson, 1876). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Torymus socius** Mayr, 1874. Primary parasitoid of *Kiefferia pericarpiicola* Brem. (Hymenoptera: Cynipidae). Russia: **FE** (PR). – Europe (WE, EE), Kazakhstan.
- Torymus spinosus** (Kamijo, 1979) [Diomorus]. Russia: **FE** (PR). – Europe (WE), China (SW), Japan.
- Torymus stenus** Graham, 1994. Russia: **FE** (SA). – Europe (WE, EE).
- Torymus varians** (Walker, 1833) [Callimome] (*Torymus pubescens* Foerster, 1841; *Syntomaspis annella* Thomson, 1876). Primary parasitoid of *Diplolepis* sp. (Hymenoptera: Cynipidae). Russia: **EP** (NW, C, NC). – Europe (WE,

NE, SE, EE), Kyrgyzstan, Kazakhstan, N America, India, Australasia.

Torymus ventralis (Fonscolombe, 1832) [Cinips] (*Callimome antennatus* Walker, 1833; *C. quadricolor* Walker, 1833; *C. versicolor* Walker, 1833; *C. confusus* Walker, 1834; *C. rudis* Walker, 1836; *Torymus affinis* Foerster, 1841; *T. modestus* Foerster, 1841; *T. obscuripes* Foerster, 1841; *Callimomus discolor* Thomson, 1876). Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE).

Torymus wachtiellae Graham et Gijswijt, 1998. Primary parasitoid of *Wachtiella rosarum* Hardy (Diptera: Cecidomyiidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE).

43. FAMILY ORMYRIDAE

E.V. TSELIKH, M.D. ZEROVA AND V.A. TRJAPITZIN

Ormyridae is a small family of chalcid wasps. Body of ormyrids generally is not very elongate, of 1.1–6.7 mm in length. The family is characterised by coarsely pitted gastral tergites, the presence of large hind coxae, reduced stigmal vein, very small prepectus (smaller than tegula) and two stout, curved metatibial spurs (Lotfalizadeh et al., 2012).

Many species of ormyrids are parasitoids or hyperparasitoids of various gall-forming insects. Ormyrids attack dipterans from the families Agromyzidae, Cecidomyiidae, Lonchaeidae and Tephritidae and hymenopterans from the families Cynipidae and phytophagous Eurytomidae. In the tropics some species are known to be parasitoids of the inhabitants of galls on figs (Noyes, 2019).

The family is distributed worldwide, but it is more abundant in the tropics and especially in arid regions (Zerova, Seryogina, 2006b).

Number of taxa: World – 3 genera and 125 species, Palearctic – 2/60, Russia – 1/13.

References. Nikol'skaya, 1934a, 1952; Zerova, 1978c, 1995c; Zerova, Seryogina, 1998, 2006b, 2014, 2015; Lotfalizadeh et al., 2012; Noyes, 2019.

ORMYRUS Westwood, 1832 (*Periglyphus* Boheman, 1834; *Siphonura* Nees, 1834; *Cyrtosoma* Perris, 1840; *Monobaeus* Foerster, 1860; *Tribaeus* Foerster, 1860; *Wania* Risbec, 1951; *Avrasyamyus* Doganlar, 1991). Type species: *Ormyrus punctiger* Westwood, 1832 (= *Cynips pomaceus* Geoffroy, 1785). Cosmopolitan. Number of species: World – 145, Palearctic – 59, Russia – 13.

Ormyrus diffinis (Fonscolombe, 1832) [Cinips] (*Siphonura punctulata* Ratzeburg, 1848). Primary parasitoid of *Dasi-neura potentillae* Wach. (Diptera: Cecidomyiidae) and hymenopterans from the family Cynipidae. Russia: **EP** (NC), **WS** (TM). – Europe (WE, SE, EE), Turkey, Israel, Iran, Turkmenistan, Tajikistan, Kazakhstan.

Ormyrus ermolenkoi Zerova, 2006. Russia: **FE** (SA).

Ormyrus flavitibialis Yasumatsu et Kamijo, 1979. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **FE** (SA). – Korean Peninsula, Japan.

Ormyrus graciosus (Foerster, 1860) [Monobaeus]. Primary parasitoid of *Terellia* sp. and *Urophora* sp. (Diptera: Tephritidae) and hymenopterans from the family Cynipidae. Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Iran, Turkmenistan, Uzbekistan, Kazakhstan.

Ormyrus kasparyani Zerova et Seryogina, 2014. Primary parasitoid of *Dona* sp. (Hymenoptera: Cynipidae). Russia: **FE** (PR).

Ormyrus longicornis Bouček, 1969. Russia: **EP** (NC). – Europe (EE), Georgia, Azerbaijan, Turkey.

Ormyrus nitidulus (Fabricius, 1804) [Chalcis] (*Cinips tubulosa* Fonscolombe, 1832; *Siphonura cyanosthetus* Walker, 1847; *S. schmidtii* Schmidt, 1851; *S. gallaequercus* Dufour, 1864). Primary parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Jordan, Iran, N America, Afrotropics.

Ormyrus orientalis Walker, 1871 (*Monobaeus indicus* Ahmad, 1946; *Ormyrus hungaricus* Erdős, 1946; *O. peninsularis* Mani et Kaul, 1972; *O. fredricki* Narendran et Sumodan, 1990). Primary parasitoid of dipterans from the families Agromyzidae, Cecidomyiidae, Lonchaeidae and Tephritidae and hymenopterans from the family Cynipidae. Russia: **EP** (C), **FE** (KH, PR). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkey, Iraq, Iran, Afghanistan, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, India, SE Asia, Afrotropics.

Ormyrus parvulus Zerova, 1985. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (S). – Kazakhstan.

Ormyrus pomaceus (Geoffroy, 1785) [Cynips] (*Ormyrus punctiger* Westwood, 1832; *O. nigrocyaneus* Walker, 1833; *Periglyphus gastris* Boheman, 1834; *Siphonura brevicauda* Nees, 1834; *S. sericea* Nees, 1834; *S. variolosa* Nees, 1834; *S. viridiaenea* Ratzeburg, 1844; *Ormyrus aerosus* Foerster, 1860; *O. blandus* Foerster, 1860; *O. placidus* Foerster, 1860; *O. prodigus* Foerster, 1860; *O. viridanus* Foerster, 1860; *O. aeneicinctus* Rondani, 1877). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C, E, NC), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Turkey, Jordan, Iran, China (NC, CC), Korean Peninsula, Japan.

Ormyrus rufimanus Mayr, 1904. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), China, Afrotropics.

Ormyrus spadiceus Zerova, 2015. Primary parasitoid of *Urophora cardui* L. (Diptera: Tephritidae). Russia: **EP** (S).

Ormyrus wachtli Mayr, 1904. Primary parasitoid of dipterans from the family Cecidomyiidae and hymenopterans

from the family Cynipidae. Russia: **EP** (S, CR). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan.

44. FAMILY AGAONIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Agaonids are minute to medium-sized chalcid wasps 0.5–5.0 mm length, with large sexual dimorphism: females with a clearly exerted and long ovipositor; males with very reduced or absent wings and enlarged mandibles. Agaonids are associated with figs (Noyes, 2019).

Number of taxa: World – 76 genera and 757 species, Palaearctic – 12/26, Russia – 1/1.

References. Fursov, 2009; Noyes, 2019.

Subfamily BLASTOPHAGINAE

BLASTOPHAGA Gravenhorst, 1829. Type species: *Cynips psenes* Linnaeus, 1758. The genus is distributed in the Holarctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 11, Palaearctic – 3, Russia – 1.

Blastophaga psenes (Linnaeus, 1758) [Cynips] (*Blastophaga grossorum* Gravenhorst, 1827; *B. vaidi* Joseph, 1954). Associated with figs *Ficus carica* L. and *F. palmata* Forsk. (Moraceae). Russia: **EP** (NC, CR). – Europe (WE, SE, EE), N Africa, Armenia, Turkey, Israel, Iran, Afghanistan, Pakistan, N America, India, Afrotropics, S America, Australasia.

Remarks. This species was recorded in North Caucasus (Krasnodar Territory) by A.I. Krymova (unpublished data).

45. FAMILY TETRACAMPIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Tetracampids are minute to medium-sized chalcid wasps of 1–5 mm length. They are characterised by scutellum with four long bristles; fore wings without speculum; tarsi with five segments, spur of fore tibia weak and very nearly straight; petiole short, hind edge of basal tergite of gaster strongly invaginate giving the appearance of a deep groove between it and second tergite (Noyes, 2019).

The biology of most Tetracampidae is unknown. Some tetracampid species are associated with of Coleoptera and Diptera, as well as hymenopterans from the family Cynipidae, but *Dipriocampe* are endoparasitoids of the eggs of sawflies from the family Diprionidae. A few tetracampids are secondary parasitoid of other chalcid wasps (Noyes, 2019).

Number of taxa: World – 15 genera and 50 species, Palaearctic – 8/30, Russia – 5/6.

References. Nikol'skaya, Trjapitzin, 1978b; Kostjukov et al., 2004a; Triapitsyn, 2016; Noyes, 2019.

Subfamily TETRACAMPINAE

DIPRIOCAMPE Bouček, 1957. Type species: *Tetracampe diprioni* Ferrière, 1935. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 3, Russia – 1.

Dipriocampe diprioni (Ferrière, 1935) [Tetracampe]. Primary parasitoid of many species of hymenopterans from the family Diprionidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), N America.

EPICLERUS Haliday, 1844 (*Diparellomyia* Girault, 1913). Type species: *Entedon panyas* Walker, 1839. Cosmopolitan. Number of species: World – 20, Palaearctic – 8, Russia – 1.

Epiclerus nomocerus (Masi, 1934) [Tetracampe]. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Turkmenistan.

FOERSTERELLA Dalla Torre, 1897 (*Hyperbius* Foerster, 1878). Type species: *Tetracampe flavipes* Foerster, 1841 (= *Pteromalus reptans* Nees, 1834). The genus is distributed in the Palaearctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 10, Palaearctic – 5, Russia – 2.

Foersterella angusticornis Hansson, 2016. Russia: **EP** (C). – Europe (NE).

Foersterella reptans (Nees, 1834) [Pteromalus] (*Tetracampe flavipes* Foerster, 1841). Primary parasitoid of coleopterans from the family Chrysomelidae. Russia: **EP** (NC), **WS** (TK). – Europe (WE, NE, SE, EE).

TETRACAMPE Foerster, 1841. Type species: *Tetracampe impressa* Foerster, 1841. The genus is distributed in the Palaearctic and Australasian regions. Number of species: World – 2, Palaearctic and Russia – 1.

Tetracampe impressa Foerster, 1841. Primary parasitoid of coleopterans from the family Staphylinidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).

Subfamily PLATYNOCHEILINAE

PLATYNOCHEILUS Westwood, 1837 (*Pteroncoma* Foerster, 1841). Type species: *Platynochilus erichsonii* Westwood, 1837 (= *Pteromalus cuprifrons* Nees, 1834). The genus is distributed in the Holarctic region. Number of species: World – 5, Palaearctic – 3, Russia – 1.

Platynochilus cuprifrons (Nees, 1834) [Pteromalus] (*Platynochilus erichsonii* Westwood, 1837; *Stenocera derceto* Walker, 1839; *Pteroncoma linearis* Foerster, 1841). Primary parasitoid of dipterans from the families Agromyzidae and Cecidomyiidae and hymenopterans from the family Cynipidae; secondary parasitoid of *Mesopolobus* sp.

(Hymenoptera: Pteromalidae). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey.

46. FAMILY EULOPHIDAE

**O.V. KOSHELEVA, E.N. YEGORENKOVA,
V.V. KOSTJUKOV AND V.A. TRJAPITZIN**

Eulophidae is one of the largest families of chalcid wasps. Body of eulophids is usually relatively weakly sclerotized, all tarsi always 4-segmented, antenna with at most 4-segmented funicle, frequently with branches in males; mesoscutum of many species with distinct notauli; scutellum with two sublateral grooves.

The members of Eulophidae parasitize a wide number of hosts from different orders of insects, a few of them are parasitoids of spiders, eriophyid mites and nematodes (van den Berg et al., 1990).

The family has worldwide distribution. Number of taxa: World – 4 subfamilies, 324 genera and about 6000 species, Palaearctic – 4/130/about 2000, Russia – 4/66/785.

References. Walker, 1874; Nikol'skaya, 1934a; Erdős, 1950; Nikol'skaya, Kyao, 1954; Thompson, 1955; Kolomiets, 1956a, 1958, 1962, 1965; Avramenko, 1959; Graham, 1961, 1987, 1991; Bouček, 1963, 1965a, 1971, 1977, 1988; Ryvkin, 1963; Domenichini, 1966a, 1966b; Stadnitskiy, 1966; Bouček, Askew, 1968; Chumakova, 1968; Petrova, 1970; Tkacz, 1972; Herting, 1973; Kostjukov, 1976, 1984, 1990, 1997, 2000, 2001, 2004a, 2004b, 2013, 2016; Stadnitskiy et al., 1978; Trjapitzin, 1978b, 1978c; Dolgin, 1979; Kolomiets, Bogdanova, 1979; Storozheva, 1979, 1981a, 1981b, 1982, 1987, 1989, 1990; Artochin, 1983a, 2000; Hansson, 1985; Lebedev, Chigarov, 1985; Trjapitzin, Kostjukov, 1986; Dolgin, Kostjukov, 1987; Fursov, Kostjukov, 1987; Kuznetsov, 1987; Sugonyaev, Voinovich, 1988; Zerova et al., 1989; Hansson, 1990; Kurashev, 1990; LaSalle, Graham, 1990; Sulkhanov, 1990; Vecher, 1990; Graham, LaSalle, 1991; Izhevskiy, Mityakina, 1994; LaSalle, 1994; Yefremova, Kriskovich, 1994; Storozheva et al., 1995; Gumovsky, 1996a, 1996b, 1996c, 1998, 1999a, 1999b, 2003a, 2003b, 2003c, 2007; Ryabchinskaya, Kharchenko, 1996; Volkov, 1996; Yefremova, Shroll, 1996, 1997; Baur, Hansson, 1997; Fursov, 1997; Lindeman, 1999; Yefremova et al., 2000, 2003, 2006a, 2006b, 2009, 2011, 2012, 2015; Gokhman, 2002, 2004; Tobias, 2002a; Yefremova, 2002, 2004; Abdurakhmanov et al., 2004; Gunasheva, 2004a, 2004b; Gunasheva et al., 2004; Gunasheva, Kostjukov, 2004; Khomchenko, Kostjukov, 2004; Kostjukov et al., 2004a, 2004b, 2006, 2008, 2009, 2014, 2016; Kostjukov, Gunasheva, 2004, 2015; Kostjukov, Nagorny, 2004b; Kovalenkov et al., 2004a, 2004b; Nagorny, 2004; Yefremova, Myartseva, 2004; Yefremova, Yegorenkova, 2004, 2005a, 2005b, 2010; Kosheleva, 2005, 2007, 2019b, 2019c; Triapitsyn, 2005, 2015a; Yegorenkova, 2005, 2007a, 2007b, 2007c; Gumovsky, Fursov, 2006; Kostjukov, Kosheleva, 2006, 2014, 2015, 2016, 2018; Yegorenkova, Kostjukov, 2006, 2007; Mishchenko, Yefremova, 2007, 2012; Yegorenkova et al., 2007;

Kosheleva, Kostjukov, 2008, 2010; Yefremova, Lengesova, 2008; Yefremova, Mishchenko, 2008, 2009; Strakhova et al., 2009, 2013; Yefremova, Strakhova, 2010; Ermolaev et al., 2011; Özdikmen, 2011; Gumovsky, Proshchalykin, 2012; Hansson, Shevtsova, 2012; Yegorenkova, Yefremova, 2012; Askew et al., 2013; Burks, 2013; Yurchenko et al., 2013; Gokhman et al., 2014; Kosheleva, Gunasheva, 2014; Noyes, 2019.

Subfamily EULOPHINAE

O.V. KOSHELEVA AND V.A. TRJAPITZIN

Number of taxa: World – 94 genera and 1625 species, Palaearctic – 38/462, Russia – 27/163.

ARACHNOLOPHUS Kamijo, 1996. *Type species:* *Arachnolophus dentatus* Kamijo, 1996. Monotypic Palaearctic genus.

Arachnolophus dentatus Kamijo, 1996. Primary parasitoid of the eggs of *Cheiracanthium japonicum* Bösenb. et Strand (Araneae: Clubionidae). Russia: **FE** (PR). – Korean Peninsula, Japan.

AULOGYMNUS Foerster, 1851 (*Olynx* Foerster, 1856). *Type species:* *Aulogymnus aceris* Foerster, 1851. The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World – 37, Palaearctic – 21, Russia – 7.

Aulogymnus aceris Foerster, 1851. Primary parasitoid of *Pediaspis aceris* Gmel. (Hymenoptera: Cynipidae). Russia: **EP** (E). – Europe (WE, SE), United Arab Emirates.

Aulogymnus arsames (Walker, 1838) [Cirrospilus] (*Olynx lineaticeps* Mayr, 1877). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Turkey.

Aulogymnus defrizi (Storozheva, 1995) [Olynx]. Russia: **FE** (PR).

Aulogymnus euedoreschus (Walker, 1839) [Eulophus] (*Olynx fulvicrus* Thomson, 1878). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NW, C, S, NC). – Europe (WE, NE, EE), Israel, Kazakhstan.

Aulogymnus gallarum (Linnaeus, 1761) [Ichneumon] (*Olynx pulchra* Mayr, 1877). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Turkey, Iran.

Aulogymnus skianeuros (Ratzeburg, 1844) [Eulophus]. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NW, C, E). – Europe (WE, NE, SE, EE), Turkey.

Aulogymnus trilineatus (Mayr, 1877) [Olynx]. Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Turkey.

CIRROSPILUS Westwood, 1832 (*Atoposoma* Masi, 1907; *Atoposomoidea* Howard, 1910; *Pseudiglyphomyia* Girault,

- 1913; *Plesiospilus* Ferrière, 1954). Type species: *Cirrospilus elegantissimus* Westwood, 1832. Cosmopolitan. Number of species: World – 152, Palearctic – 42, Russia – 13.
- Cirrospilus caspicus** Bouček, 1971. Russia: **EP** (NC). – Azerbaijan.
- Cirrospilus curvineurus** Askew, 1965. Primary parasitoid of lepidopterans from the family Nepticulidae. Russia: **FE** (PR, KU). – Europe (WE, SE, EE), Korean Peninsula, Japan.
- Cirrospilus diallus** Walker, 1838 (*Eulophus quadrimaculatus* Foerster, 1841; *E. flavomaculatus* Ratzeburg, 1844; *Cirrospilus walkeri* Stephens, 1846; *Entedon punctatus* Ratzeburg, 1848). Primary ectoparasitoid of leaf-mining larvae from the orders Lepidoptera, Coleoptera, Diptera and Hymenoptera; secondary parasitoid of *Colastes braconius* Hal. (Hymenoptera: Braconidae). Russia: **EP** (NW, C, E, S, NC), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Yemen, China (NC, NW, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), SE Asia.
- Cirrospilus elegantissimus** Westwood, 1832 (*Eulophus unistriatus* Foerster, 1841). Primary ectoparasitoid of leaf-mining larvae from the orders Coleoptera and Lepidoptera. Russia: **EP** (C, E, NC, CR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Yemen, Turkmenistan, China (NC).
- Cirrospilus elongatus** Bouček, 1959. Primary ectoparasitoid of *Prays oleae* Bernard (Lepidoptera: Yponomeutidae). Russia: **EP** (CR). – Europe (WE, NE, SE, EE), N Africa, Lebanon.
- Cirrospilus lyncus** Walker, 1838 (*Eulophus unifasciatus* Foerster, 1841; *Cirrospilus caudatulus* Thomson, 1878). Primary ectoparasitoid of lepidopterans from the families Gracillariidae, Nepticulidae and Tischeriidae; secondary parasitoid of hymenopterans from the families Braconidae and Eulophidae. Russia: **EP** (C, E, NC), **WS/ES** (without region: Storozheva et al., 1995), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Israel, Iran, China (CC), Korean Peninsula, Japan (Hok, Hon).
- Cirrospilus noyesi** (Özdikmen, 2011) [Gyrolasella] (*Gyrolasella pulchra* Girault, 1913, nom. praeocc., nec *Cirrospilus pulcher* Masi, 1911). Russia: **EP** (E). – Australia.
- Cirrospilus pictus** (Nees, 1834) [Eulophus] (*Cirrospilus thasus* Walker, 1838; *Eulophus arcuatus* Foerster, 1841; *Cirrospilus bifasciatus* Walker, 1872; *Atoposomoidea ogimae* Howard, 1910; *Cirrospilus nigriscutellaris* Sheng and Wang, 1992; *C. huangyaensis* Sheng, 1994). Ectoparasitoid of leaf miners from the orders Lepidoptera, Coleoptera and Hymenoptera; secondary parasitoid of hymenopterans from the families Braconidae, Eulophidae and Ichneumonidae. Russia: **EP** (N, NW, C, E, NC), **UR**, **WS** (NS) **ES** (IR), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), N Africa, Turkey, Jordan, Iran, Turkmenistan, Kazakhstan, China (NE, NC, NW, CC, SW), Korean Peninsula, Japan (Hok, Hon, Kyu), N America.
- Cirrospilus pulcher** Masi, 1911. Primary parasitoid of leaf-mining lepidoptera from the family Gracillariidae; secondary parasitoid of *Apanteles* sp. (Hymenoptera: Braconidae). Russia: **EP** (E). – Europe (SE, EE), N Africa, New Zealand.
- Cirrospilus salatis** Walker, 1838 (*Cirrospilus immaculatus* Thomson, 1878). Primary parasitoid of moth caterpillars from the families Coleophoridae and Gracillariidae. Russia: **EP** (NC). – Europe (WE, NE, EE).
- Cirrospilus staryi** Bouček, 1959. Primary parasitoid of moth caterpillars from the families Gracillariidae and Nepticulidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Lebanon, Iran.
- Cirrospilus viticola** (Rondani, 1877) [Omphale] (*Cirrospilus subviolaceus* Thomson, 1878; *C. simulator* Masi, 1933; *C. luteus* Bukovskii, 1938; *C. setulosus* Graham, 1959). Primary ectoparasitoid of leaf-mining Curculionidae and moths from the families Gracillariidae, Nepticulidae, Tischeriidae etc.; secondary parasitoid of *Apanteles circumscriptus* Nees (Hymenoptera: Braconidae). Russia: **EP** (E, NC, CR), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Turkmenistan.
- Cirrospilus vittatus** (Walker, 1838) [Eulophus] (*Eulophus lineatus* Foerster, 1841; *Zagrammosoma nigrolineata* Crawford, 1913; *Z. sanguine* Girault, 1916; *Atoposomoidea pulcherrima* Mercet, 1916; *Cirrospilus donatellae* Mariani, 1942; *Atoposoma hytomyzae* Ishii, 1953). Primary ectoparasitoid of leaf-mining insects from the families Coleophoridae, Elachistidae, Eriocraniidae, Gelechiidae, Gracillariidae, Lyonetiidae, Nepticulidae, Yponomeutidae (Lepidoptera), Agromyzidae, Cecidomyiidae (Diptera) and Tenthredinidae (Hymenoptera); secondary parasitoid of Braconidae, Ichneumonidae and Eulophidae (Hymenoptera). Russia: **EP** (NW, C, E, NC, CR), **UR**, **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Iraq, Jordan, Iran, China (NC, WP), Japan (Hok, Hon, Kyu), N America.
- COLPOCLYPEUS** Lucchese, 1941. Type species: *Colpoclypeus florus* Walker, 1839. The genus is distributed in the Palearctic and Nearctic (North Mexico) regions. Number of species: World – 2, Palearctic and Russia – 1.
- Colpoclypeus florus** (Walker, 1839) [Eulophus] (*Colpoclypeus silvestrii* Lucchese, 1941). Primary gregarious ectoparasitoid of lepidopterans from the family Tortricidae. Russia: **EP** (N, C, NC, CR), **ES** (KR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Uzbekistan, Kazakhstan, N America (introduced).
- DAHLBOMINUS** Hincks, 1945 (*Microplectron* Dahlbom, 1857). Type species: *Entedon fuscipennis*

Zetterstedt, 1838. Monotypic Palaearctic genus (introduced into N America).

Dahlbominus fuscipennis (Zetterstedt, 1838) [Entedon].

Primary gregarious ectoparasitoid of hymenopterans from the families Diprionidae; secondary parasitoid of hymenopterans from the family Ichneumonidae. Russia: **EP** (NW, C, S), **WS** (NS), **ES** (KR). – Europe (WE, NE, SE, EE), Georgia, Turkey, N America (introduced).

DEUTEREULOPHUS Schulz, 1906 (*Eulophopteryx* Ashmead, 1904; *Entedonomorpha* Girault, 1913; *Bryoperzus* Erdős, 1951). Type species: *Eulophopteryx chapadae* Ashmead, 1904. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 23, Palaearctic and Russia – 1.

Deutereulophus brevipennis (Erdős, 1951) [Bryoperzus]. Russia: **EP** (E), **FE** (KH). – Europe (NE, SE, EE).

DIAULINOPSIS Crawford, 1912. Type species: *Diaulinopsis callichroma* Crawford, 1912. The genus is distributed in the Holarctic and Australasian regions. Number of species: World – 5, Palaearctic – 2, Russia – 1.

Diaulinopsis arenaria (Erdős, 1951) [Cycloscapus]. Primary ectoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (C, E, S, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Azerbaijan, Jordan, Iran, Turkmenistan, Kazakhstan, Mongolia, China (NC, CC).

DICHATOMUS Foerster, 1878. Type species: *Dichatomus acerinus* Foerster, 1878. The genus is distributed in the Palaearctic region. Number of species: World and Palaearctic – 2, Russia – 1.

Dichatomus acerinus Foerster, 1878. Primary ectoparasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Iran.

DICLADOCERUS Westwood, 1832 (*Solenotus* Foerster, 1856; *Diglyphis* Thomson, 1878; *Solenonotus* Schulz, 1906). Type species: *Di cladocerus westwoodii* Westwood, 1832. The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 24, Palaearctic – 8, Russia – 2.

Di cladocerus japonicus (Ashmead, 1904) [Eulophus]. Primary parasitoid of *Coleophora laricella* Hbn. (Lepidoptera: Coleophoridae). Russia: **FE** (PR). – Japan (Hon), N America (introduced).

Di cladocerus westwoodii Westwood, 1832 (*Eulophus aepytus* Walker, 1839; *E. battis* Walker, 1839; *Solenotus viridis* Foerster, 1856; *Diaulus rugifrons* Thomson, 1878; *Diglyphis rugifrons* Thomson, 1878). Primary or (rarely) secondary parasitoid of lepidopterans from the families Arctiidae, Coleophoridae, Tortricidae and Yponomeutidae. Russia: **EP** (N, NW, C, E), **WS** (NS), **FE** (KH,

PR, KA). – Europe (WE, NE, SE, EE), Turkey, Syria, China (NE), Japan (Hok, Hon), N America (introduced).

DIGLYPHUS Walker, 1844 (*Diaulus* Ashmead, 1904; *Diaulinus* Schulz, 1906; *Cycloscapus* Erdős et Novicky, 1951; *Danuwiella* Erdős, 1958). Type species: *Diglyphus poppoea* Walker, 1848. Cosmopolitan. Number of species: World – 40, Palaearctic – 30, Russia – 9.

Diglyphus albiscapus Erdős, 1951. Primary ectoparasitoid of dipterans from the family Agromyzidae and Ephydriidae. Russia: **EP** (E, NC), **FE** (PR). – Europe (EE), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu).

Diglyphus chabrias (Walker, 1838) [Cirrosipilus]. Primary ectoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NW, C, E, NC), **FE** (KH, PR, SA, KA, MG). – Europe (WE, NE, SE, EE), Turkey, Iran, Pakistan.

Diglyphus crassinervis Erdős, 1958. Primary ectoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iraq, Jordan, Israel, Yemen, Iran, China (NC, NW, CC, SW, WP).

Diglyphus isaea (Walker, 1838) [Cirrosipilus] (*Cirrosipilus lycophron* Walker, 1838; *C. medidas* Walker, 1838; *Entedon gracilis* Goureau, 1851; *Diglyphus bisannulatus* Foerster, 1861; *D. ornatus* Foerster, 1861; *D. clavicornis* Walker, 1872). Primary ectoparasitoid of dipterans from the family Agromyzidae and lepidopterans from the family Gracillariidae, Lyonetiidae and Nepticulidae. Russia: **EP** (C, E, S, NC), **ES** (YA, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Syria, Iraq, Jordan, Israel, United Arab Emirates, Yemen, Iran, Pakistan, Mongolia, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), N America, India, Afrotropics, S America, Australia, New Zealand.

Diglyphus minoeus (Walker, 1838) [Cirrosipilus] (*Cirrosipilus abron* Walker, 1838; *Eulophus amelon* Walker, 1839; *Cirrosipilus deldon* Walker, 1839; *C. myron* Walker, 1839; *C. similis* Walker, 1839). Primary ectoparasitoid of dipterans from the family Agromyzidae and lepidopterans from the family Gracillariidae. Russia: **EP** (NW, C, E, NC, CR), **UR**, **ES** (IR), **FE** (MG). – Europe (WE, NE, SE, EE), Turkey, Yemen, Iran, Pakistan, Turkmenistan, Kazakhstan, Mongolia, China (NC, NW, CC, SW, WP), Korean Peninsula, Japan (Hok, Hon), S America.

Diglyphus pachyneurus Graham, 1963. Primary ectoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (E, NC), **FE** (SA, MG). – Europe (WE, NE, SE, EE), Turkey, Yemen, Kazakhstan, China (CC, WP).

Diglyphus poppoea Walker, 1848. Primary ectoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NW, C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Armenia, Turkey, Israel, Yemen.

Diglyphus pusztensis (Erdős et Novicky, 1951) [Cycloscapus] (*Diglyphus tibiscanus* Erdős, 1958; *D. fulvipes* Erdős, 1961). Primary ectoparasitoid of dipterans from the

- family Agromyzidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, EE), Azerbaijan, Turkey, Israel, Yemen, Japan (Hok, Hon).
- Diglyphus subplanus** (Erdős, 1958) [Danuviella]. Primary ectoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- DIMMOCKIA** Ashmead, 1904 (*Encopa* Graham, 1959). Type species: *Eulophus incongruus* Ashmead, 1898. The genus is distributed in the Holarctic region. Number of species: World – 6, Palaearctic – 4, Russia – 3.
- Dimmockia brevicornis** (Erdős, 1954) [Eulophus]. Primary gregarious ectoparasitoid of *Caloptilia sapporella* Mats. and *C. stigmatella* F. (Lepidoptera: Gracillariidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Japan (Hok).
- Dimmockia exorientis** Storozheva, 1979. Russia: **FE** (PR).
- Dimmockia secunda** Crawford, 1910 (*Encopa reticulata* Kamijo, 1965; *Sympiesis parnarae* Chu et Liao, 1982). Secondary parasitoid of *Apanteles liparidis* Bouché (Hymenoptera: Braconidae). Russia: **EP** (C, E, NC), **FE** (KH, PR). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon).
- ELACHERTUS** Spinola, 1811 (*Elachistus* Foerster, 1856; *Epardalus* Girault, 1917; *Peteenus* Erdős, 1961). Type species: *Diplolepis lateralis* Spinola, 1808. Cosmopolitan. Number of species: World – about 140, Palaearctic – 53, Russia – 8.
- Elachertus charondas** (Walker, 1839) [Eulophus] (*Elachertus orsus* Walker, 1839; *Elachistus punctiscuta* Thomson, 1878; *Elachertus monachae* Ruschka et Fulmek, 1915). Primary ectoparasitoid of *Lymantria dispar* L. (Lymantriidae) and *Bena bicolorana* Füss. (Noctuidae). Russia: **EP** (E, NC), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Turkmenistan, China (SE), Japan (Hok), SE Asia, S America.
- Elachertus fenestratus** Nees, 1834 (*Eulophus argissa* Walker, 1839; *E. eurybates* Walker, 1839; *E. saon* Walker, 1839; *Elachistus coxalis* Howard, 1885; *E. proteoteratis* Howard, 1885; *E. opaculus* Thomson, 1878; *Euplectrus veridoeneus* Provancher, 1887; *E. viridaeneus* Cresson, 1887; *E. viridiaeneus* Dalla Torre, 1898; *Elachertus pini* Gahan, 1927). Primary ectoparasitoid of lepidopterans from the families Gelechiidae, Coleophoridae, Gracillariidae and Tortricidae. Russia: **EP** (C, E), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Turkey, Turkmenistan, Tajikistan, China (NE, NC, NW, SW, WP), Korean Peninsula, Japan (Hok, Hon), N and S America.
- Elachertus gallicus** Erdős, 1958. Primary ectoparasitoid of *Phyllocnistis citrella* Stain. (Gracillariidae) and *Epiblema scutulana* Den. et Schiff. (Lepidoptera: Tortricidae). Russia: **EP** (E), **FE** (PR). – Europe (WE, NE), Iran.
- Elachertus inunctus** Nees, 1834 (*Eulophus eucrate* Walker, 1839; *E. florianus* Walker, 1839; *E. neleus* Walker, 1839; *Elachistus sublaevis* Thomson, 1878; *E. sublevis* Dalla Torre, 1898). Primary ectoparasitoid of lepidopterans from the family Gracillariidae. Russia: **EP** (C, E, NC), **Siberia** (without region: Storozheva et al., 1995), **FE** (KH, SA, KU, KA). – Europe (WE, NE, SE, EE), Turkey, Turkmenistan, China (NE, NC, NW, CC), Korean Peninsula, Japan (Hok.), SE Asia.
- Elachertus isadas** (Walker, 1839) [Eulophus] (*Eulophus tida* Walker, 1839; *Elachistus splendens* Foerster, 1841; *Eulophus scyllis* Walker, 1848; *Elachistus viridulus* Thomson, 1878). Primary ectoparasitoid of lepidopterans from the families Gracillariidae and Tortricidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Yemen, China (NE, NC, NW, CC, SW, WP, SE), SE Asia.
- Elachertus lateralis** (Spinola, 1808) [Diplolepis] (*Elachertus carinatus* Ratzeburg, 1848; *E. aeneiscapus* Thomson, 1878; *Elachistus petiolatus* Thomson, 1878; *Elachertus clavatus* Erdős, 1966). Primary ectoparasitoid of lepidopterans from the families Coleophoridae, Noctuidae and Tortricidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Yemen, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, N America.
- Elachertus piloscuta** Bouček, 1971 (*Elachertus opisiscuta* Bouček, 1971). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Elachertus pulcher** (Erdős, 1961) [Peteenus]. Primary ectoparasitoid of lepidopterans *Tuta absoluta* Meyr. (Gelechiidae) and *Phyllonorycter sorbi* Frey (Gracillariidae). Russia: **EP** (E, S, NC), **FE** (PR). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkey, Israel, Yemen, Iran, Turkmenistan, SE Asia.
- ELASMUS** Westwood, 1833 (*Aneure* Nees, 1834; *Hepetocondyla* Rondani, 1877; *Cyclopleura* Cameron, 1913; *Austelasmus* Riek, 1967). Cosmopolitan. Type species: *Eulophus flabellatus* Fonscolombe, 1832. Number of species: World – 254, Palaearctic – 60, Russia – 23.
- Elasmus altaicus** Yefremova et Strakhova, 2010. Russia: **WS** (AL).
- Elasmus anamalaianus** Mani et Saraswat, 1972. Russia: **FE** (PR). – India, SE Asia.
- Elasmus anius** Walker, 1846. Russia: **EP** (NC). – Europe (WE, NE, SE).
- Elasmus brevicornis** Gahan, 1922. Primary parasitoid of lepidopterans from the families Gelechiidae and Pyralidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **FE** (KH). – Yemen, Pakistan, Japan (Hon), India, SE Asia, Afrotropics.
- Elasmus ekaterinae** Yefremova et Strakhova, 2010. Russia: **EP** (E).
- Elasmus flabellatus** (Fonscolombe, 1832) [Eulophus] (*Aneure scutellaris* Nees, 1834; *A. rhipicerus* Foerster, 1841; *Elasmus giraudi* Ferrière, 1947). Primary parasitoid of lepidopterans from the families Gelechiidae, Psychidae, Tortricidae and Yponomeutidae; secondary parasitoid

- of hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (C, S, NC), **UR**, **ES** (ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Lebanon, Israel, Turkmenistan, Tajikistan, Mongolia.
- Elasmus hutsoni** Ferrière, 1929. Primary parasitoid of *Manatha albipes* Moore (Lepidoptera: Psychidae). Russia: **FE** (PR). – India.
- Elasmus indicus** Rohwer, 1921. Primary parasitoid of lepidopterans *Eublemma* sp. (Noctuidae), *Diaphania indica* Saunders, *Hedylepta indicate* F. and *Sylepta derogate* F. (Pyralidae). Russia: **FE** (PR). – Iran, Japan, India, SE Asia.
- Elasmus longiclava** Graham, 1995. Russia: **EP** (S, NC). – Europe (WE, EE), Armenia, Israel, Kazakhstan.
- Elasmus maritimus** Yefremova et Strakhova, 2010. Russia: **FE** (PR).
- Elasmus nephantidis** Rohwer, 1921. Primary parasitoid of *Nephantis serinopa* Meyr. and *Opisina arenosella* Walk. (Lepidoptera: Oecophoridae); secondary parasitoid of *Bracon brevicornis* Wesm. (Hymenoptera: Braconidae). Russia: **FE** (PR). – Iran, China (SE), Korean Peninsula, Japan (Hon), India, SE Asia.
- Elasmus nowickii** Ferrière, 1947. Russia: **EP** (E). – Europe (WE, NE, SE, EE).
- Elasmus nudus** (Nees, 1834) [Aneure] (*Elasmus albipennis* Thomson, 1878). Primary parasitoid of lepidopterans from the families Lymantriidae, Yponomeutidae, Pyralidae and Tortricidae; secondary parasitoid of *Apanteles* sp. (Hymenoptera: Braconidae). Russia: **EP** (C, E, S, NC), **WS** (AL), **ES** (IR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Israel, United Arab Emirates, Yemen, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Japan (Hon), SE Asia.
- Elasmus phthorimacae** Ferrière, 1947. Primary parasitoid of *Phthorimaea operculella* Z. (Gelechiidae: Lepidoptera). Russia: **EP** (S), **ES** (ZB). – Europe (SE), Azerbaijan, Turkey, Israel, United Arab Emirates, Yemen, Iran.
- Elasmus platyedrae** Ferrière, 1935 (*Elasmus elongatus* Ferrière, 1947). Primary parasitoid of lepidopterans from the families Gelechiidae, Lymantriidae, Momphidae and Pyralidae. Russia: **EP** (E, S, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Turkmenistan, Tajikistan, Kazakhstan, India, SE Asia.
- Elasmus polistis** Burks, 1971. Primary parasitoid of wasps from the genus *Polistes* (Hymenoptera: Vespidae). Russia: **FE** (KH, PR). – Europe (WE), N America, India, S America, Australia.
- Elasmus rufiventris** Ferrière, 1947 (*Elasmus obesoceratis* Trjapitzin, 1979). Primary parasitoid of lepidopterans *Luffia lapidella* Goeze (Psychidae), *Eudarcia leopoldella* Costa and *E. glaseri* Peters. (Tineidae). Russia: **EP** (S). – Europe (WE, NE, SE, EE), Georgia.
- Elasmus schmitti** Ruschka, 1920 (*Elasmus invreae* Masi, 1935). Primary parasitoid of wasps from the genus *Polistes* (Hymenoptera: Vespidae). Russia: **ES** (ZB), **FE** (PR). – Europe (WE, SE, EE), Armenia, Mongolia, SE Asia.
- Elasmus steffani** Viggiani, 1967 (*Elasmus masii* Steffan, 1962). Primary parasitoid of lepidopterans from the families Crambidae, Tortricidae and Yponomeutidae; secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (C). – Europe (WE, SE, EE), Georgia, Turkey, Syria, Israel, United Arab Emirates, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan.
- Elasmus unicolor** (Rondani, 1877) [Heptocondyla] (*Elasmus fumipennis* Thomson, 1878; *E. vibicellae* Ferrière, 1947). Primary parasitoid of lepidopterans *Coleophora vibicella* Hbn. (Coleophoridae) and *Galleria mellonella* L. (Pyralidae). Russia: **EP** (E, NC), **ES** (KR), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Israel, Tajikistan.
- Elasmus viridiceps** Thomson, 1878. Primary parasitoid of lepidopterans from the families Coleophoridae and Tortricidae; secondary parasitoid of Bethyridae (Hymenoptera). Russia: **EP** (E, S, NC), **WS** (AL), **ES** (IR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Azerbaijan, Israel, United Arab Emirates, Yemen, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (SE), Korean Peninsula, Japan (Hon).
- Elasmus viridiscutellatus** Verma et Hayat, 2002. Parasitoid of *Cnaphalocrocis medinalis* Guenée (Lepidoptera: Pyralidae). Russia: **FE** (PR). – India.
- Elasmus westwoodi** Giraud, 1856 (*Elasmus westwoodii* Dalla Torre, 1898). Primary parasitoid of lepidopterans from the families Gracillariidae, Psychidae and Yponomeutidae. Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Israel, Kazakhstan.
- EULOPHUS** Geoffroy, 1762 (*Comedo* Schrank, 1802; *Cratotechus* Thomson, 1878). Type species: *Ichneumon larvarum* Linnaeus, 1758. Cosmopolitan. Number of species: World – 71, Palaearctic – 57, Russia – 7.
- Eulophus abdominalis** Nees, 1834 (*Eulophus anatole* Walker, 1839; *Cratotechus longicornis* Thomson, 1878). Primary parasitoid of lepidopterans from the families Geometridae, Lasiocampidae, Lymantriidae, Noctuidae, Notodontidae and Tortricidae. Russia: **EP** (N, C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, China (NC, CC, SW), SE Asia.
- Eulophus cyanescens** Bouček, 1959. Primary gregarious ectoparasitoid of *Lithophane ornitopus* Hufn. (Lepidoptera: Noctuidae). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), China (NE, NC, CC, SW, SE), SE Asia.
- Eulophus entheus** Storozheva, 1981. Russia: **FE** (PR).
- Eulophus larvarum** (Linnaeus, 1758) [Ichneumon] (*Cratotechus aeneicoxa* Thomson, 1878). Primary ectoparasitoid of various lepidopterans, mostly from the family Noctuidae. Russia: **EP** (N, NW, C, E, NC), **UR**, **ES** (KR, IR), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE),

- Armenia, Turkey, Tajikistan, Kyrgyzstan, China (NE), Korean Peninsula, Japan.
- Eulophus pennicornis** Nees, 1834 (*Entedon plumicornis* Dalman, 1820; *Eulophus fuliginosus* Nees, 1834; *E. drupes* Walker, 1839; *Cratotechus opaculus* Thomson, 1878). Primary ectoparasitoid of lepidopterans, mostly from the family Noctuidae. Russia: **EP** (NW, C, E, NC). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, Mongolia, China (NW), N America.
- Eulophus smerinthicida** Bouček, 1959. Primary ectoparasitoid of lepidopterans from the families Geometridae, Noctuidae, Notodontidae and Sphingidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, China (NE, NC, NW), Japan.
- Eulophus thespius** Walker, 1839 (*Cratotechus ungularis* Thomson, 1878). Primary ectoparasitoid of lepidopterans from the family Noctuidae. Russia: **EP** (NW, NC, CR), **UR**, **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Israel, Mongolia, Japan.
- EUPLECTRUS** Westwood, 1832 (*Diplelectron* Dahlbom, 1857; *Pachyscapa* Howard, 1897; *Rekabia* Cameron, 1904; *Heteroscapiscus* Ghesquière, 1946). Type species: *Euplectrus maculiventris* Westwood, 1832. Cosmopolitan. Number of species: World – 199, Palaearctic – 29, Russia – 4.
- Euplectrus bicolor** (Swederus, 1795) [Pteromalus] (*Ela-chertus albiventris* Spinola, 1811; *Euplectrus intactus* Walker, 1872). Primary gregarious ectoparasitoid of lepidopterans from the family Noctuidae. Russia: **EP** (NW, C, E, S, NC), **UR**, **WS** (OM), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Turkmenistan, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, Japan, N America, SE Asia, Australia.
- Euplectrus flavipes** (Fonscolombe, 1832) [Spalangia] (*Euplectrus cacoeciae* Ferrière, 1941). Primary gregarious ectoparasitoid of lepidopterans from the families Noctuidae and Tortricidae. Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE), Turkey, Syria, Turkmenistan, China (CC, SE), N America, SE Asia, Dominican Republic.
- Euplectrus liparidis** Ferrière, 1941. Primary ectoparasitoid of *Lymantria dispar* L. (Lepidoptera: Erebidae) and lepidopterans from the family Noctuidae. Russia: **EP** (E), **FE** (PR). – Europe (SE, EE), N Africa, Israel, Yemen, Iran, China (NC, CC, WP), Korean Peninsula, Japan, N America.
- Euplectrus phthorimaeae** Ferrière, 1941. Primary parasitoid of *Pristiphora conjugata* Dhlb. (Hymenoptera: Tenthredinidae) and lepidopterans from the families Gelechiidae and Lymantriidae. Russia: **EP** (E). – Europe (SE, EE), Turkey, Israel.
- HEMIPTARSENUS** Westwood, 1833 (*Notanisomorpha* Ashmead, 1904; *Eriglyptoideus* Girault, 1913; *Hemiptarsenoideus* Girault, 1916; *Neodimmockia* Dodd, 1917; *Cleolophus* Mercet, 1924; *Parpholema* Szelenyi, 1981). Type species: *Hemiptarsenus fulvicollis* Westwood, 1833. Cosmopolitan. Number of species: World – 33, Palaearctic – 16, Russia – 7.
- Hemiptarsenus autonomus** (Mercet, 1924) [Cleolophus]. Primary parasitoid of lepidopterans *Caloptilia alchimiella* Scop. (Gracillariidae) and *Parafomoria helianthemella* H.-Sch. (Nepticulidae). Russia: **EP** (NC), **UR**, **ES** (KS, TU). – Europe (WE, SE, EE).
- Hemiptarsenus fulvicollis** Westwood, 1833 (*Eulophus anementus* Walker, 1839; *E. catreus* Walker, 1839; *E. dercynus* Walker, 1839; *E. faula* Walker, 1839; *E. tarandus* Foerster, 1841; *Hemiptarsenus albicoxa* Thomson, 1878). Primary parasitoid of *Chromatomyia primulae* R.-D. and *Phytomyza hendeli* Hering (Diptera: Agromyzidae), *Phyllonorycter quinqueguttella* Staint. (Lepidoptera: Gracillariidae) and *Heterarthrus nemoratus* Fll. (Hymenoptera: Tenthredinidae). Russia: **EP** (C, E, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE).
- Hemiptarsenus khlopunovi** Storozheva, 1989. Russia: **EP** (C).
- Hemiptarsenus ornatus** (Nees, 1834) [Encyrtus] (*Eulophus dropion* Walker, 1839; *Entedon gratus* Goureau, 1851; *E. lepidus* Goureau, 1851). Primary parasitoid of insects from the families Agromyzidae, Curculionidae, Tenthredinidae, Gracillariidae and Nepticulidae. Russia: **EP** (C, E, NC, CR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Syria, Jordan, United Arab Emirates, Yemen, Turkmenistan, China (NC, CC), Korean Peninsula, Japan (Hok), N America, SE Asia, Afrotropics.
- Hemiptarsenus unguicellus** (Zetterstedt, 1838) [Entedon] (*Eulophus drusilla* Walker, 1839; *E. gonippus* Walker, 1839; *E. hedila* Walker, 1839; *E. hegemon* Walker, 1839; *E. ianthea* Walker, 1839; *E. laogonus* Walker, 1839; *E. myodes* Walker, 1839; *E. nonus* Walker, 1839; *E. nycteus* Walker, 1839; *E. piscus* Walker, 1839; *E. villius* Walker, 1839; *E. alce* Walker, 1840; *E. almicornis* Foerster, 1841; *E. antilope* Foerster, 1841; *E. harmocerus* Foerster, 1841; *E. opicornis* Foerster, 1841; *Elachestus pellucens* Foerster, 1841; *E. sexradiatus* Foerster, 1841; *E. cinctipes* Stephens, 1846; *E. divisus* Walker, 1872; *E. janthea* Dalla Torre, 1898). Primary ectoparasitoid of dipterans from the family Agromyzidae and grass-miner moths from the family Elachistidae. Russia: **EP** (NW, C, NC), **UR**, **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Iran, Afghanistan, Mongolia, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu), N America, India, SE Asia.
- Hemiptarsenus waterhousii** Westwood, 1833 (*Hemiptarsenus arenarius* Erdős, 1951). Primary ectoparasitoid of lepidopterans from the families Bucculatricidae, Gracillariidae, Momphidae and Nepticulidae. Russia: **EP** (NC, CR). – Europe (WE, NE, EE).
- Hemiptarsenus zilahisebessi** Erdős, 1951. Primary parasitoid of *Hypurus bertrandi* Perris (Coleoptera: Curculionidae),

Ectoedemia agrimoniae Frey (Lepidoptera: Nepticulidae) and dipterans from the family Agromyzidae. Russia: **EP** (C, NC). – Europe (WE, SE, EE), N Africa, Turkey, Jordan, Iran, China (NC, NW), Korean Peninsula.

HYSSOPUS Girault, 1916 (*Crataepoides* Masi, 1955). Type species: *Hyssopus thymus* Girault, 1916. The genus is distributed in the Holarctic, Oriental and Australasian regions. Number of species: World – 23, Palaearctic – 12, Russia – 4.

Hyssopus geniculatus (Hartig, 1838) [Eulophus] (*Crataepoides russoi* Zinna, 1955). Primary or (sometimes) secondary ectoparasitoid of lepidopterans from the families Tortricidae, Gelechiidae and Pyralidae. Russia: **EP** (N, NW, C, E, NC), **FE** (? KH, PR, ? SA, ? KA). – Europe (WE, NE, SE, EE), Turkey, Yemen, Iran, Turkmenistan, Tajikistan, China (NC, NW, SW, SE), Korean Peninsula, Japan.

Hyssopus nigritulus (Zetterstedt, 1838) [Entedon] (*Cirrospilus aphaca* Walker, 1839). Primary ectoparasitoid of lepidopterans from the family Tortricidae. Russia: **EP** (N, NW, E, NC), **ES** (YA), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Armenia, Turkey, Yemen, Turkmenistan, China (NE, NC, NW, CC, WP, SE), Korean Peninsula, Japan.

Hyssopus olivaceus (Thomson, 1878) [Elachertus]. Primary ectoparasitoid of lepidopterans *Coleophora alticolella* Z., *C. juncicolella* Staint. (Coleophoridae) and *Mompha epibiella* Den. et Schiff. (Momphidae); secondary parasitoid of *Baryscapus endemus* Walk. (Hymenoptera: Eulophidae). Russia: **EP** (E, NC), **Siberia** (without region: Storozheva et al., 1995), **FE** (PR, SA). – Europe (WE, NE, SE, EE).

Hyssopus simbirskiensis Mishchenko, 2012. Primary parasitoid of *Phyllonorycter medicaginella* Grsm. (Lepidoptera: Gracillariidae). Russia: **EP** (E).

MICROLYCUS Thomson, 1878 (*Neolachertus* Szélnyi, 1976). Type species: *Microlycus heterocerus* Thomson, 1878. The genus is distributed in the Palaearctic and Afrotropical regions. Number of species: World – 9, Palaearctic – 8, Russia – 2.

Microlycus biroi Erdős, 1951. Russia: **EP** (C). – Europe (WE, NE, EE).

Microlycus erdoesi Bouček, 1959. Russia: **EP** (C). – Europe (WE, NE, EE), Turkey.

MIOTROPIS Thomson, 1878 (*Stenomeseioidea* Ashmead, 1904; *Mionotropis* Sculz, 1906; *Stenomeseioidea* Girault, 1916). Type species: *Eulophus unipuncta*, Nees 1834. The genus is distributed in the Holarctic region. Number of species: World – 15, Palaearctic – 3, Russia – 2.

Miotropis quadrinotata Thomson, 1878. Russia: **EP** (C, E). – Europe (NE, EE).

Miotropis unipuncta (Nees, 1834) [Eulophus] (*Cirrospilus articas* Walker, 1839; *Eulophus quadrifasciatus* Foerster,

1841; *Miotropis simplex* Thomson, 1878; *M. sulcicrista* Thomson, 1878). Primary ectoparasitoid of lepidopterans from the family Coleophoridae. Russia: **EP** (NW, E, NC). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Mongolia.

NECREMNUS Thomson, 1878. Type species: *Eulophus leucarthros* Nees, 1834. The genus is mainly distributed in the Holarctic region, only one species is known from the Bahamas. Number of species: World – 39, Palaearctic – 33, Russia – 10.

Necremnus artynes (Walker, 1839) [Eulophus] (*Eulophus subcontiguus* Thomson, 1878). Primary ectoparasitoid of lepidopterans from the family Momphidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Turkey, Mongolia, N America.

Necremnus capitatus Bouček, 1959. Primary ectoparasitoid of *Solenobia manni* Z. (Lepidoptera: Psychidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, EE).

Necremnus folia (Walker, 1839) [Eulophus] (*Eulophus diyllus* Walker, 1839). Primary ectoparasitoid of *Ceutorhynchus* sp. (Coleoptera: Curculionidae). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Israel.

Necremnus leucarthros (Nees, 1834) [Eulophus] (*Necremnus cornucopiae* Foerster, 1841; *Eulophus anaxippus* Walker, 1846; *E. teratocerus* Foerster, 1861). Primary ectoparasitoid of coleopterans from the families Anthribidae, Apionidae, Chrysomelidae, Curculionidae and Staphylinidae and lepidopterans from the families Coleophoridae, Eriocraniidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, E, S, NC), **WS** (AL), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Armenia, Turkey, N America, India.

Necremnus metalarus (Walker, 1839) [Eulophus]. Primary parasitoid of lepidopterans from the families Gelechiidae, Coleophoridae, Gracillariidae and Lyonetiidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N America.

Necremnus plumiferae Bouček, 1974. Primary parasitoid of *Oreopsyche plumifera* Ochs. (Lepidoptera: Psychidae). Russia: **FE** (KA).

Necremnus purpurascens (Walker, 1874) [Eulophus]. Russia: **FE** (AM).

Necremnus silvae Storozheva, 1995. Russia: **FE** (PR).

Necremnus taigensis Storozheva, 1995. Russia: **FE** (KH).

Necremnus tidius (Walker, 1839) [Eulophus] (*Eulophus metanira* Walker, 1839; *E. zeugma* Walker, 1839; *E. mamurius* Walker, 1848). Primary parasitoid of coleopterans from the families Apionidae, Chrysomelidae and Curculionidae, dipterans from the family Agromyzidae and lepidopterans from the families Gelechiidae, Scythrididae and Yponomeutidae. Russia: **EP** (NW, C, NC), **ES** (KR, IR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, Kazakhstan, N America.

PLATYPLECTRUS Ferrière, 1941 (*Autoplectrus* Gadd, 1945). Type species: *Platyplectrus natadae* Ferrière,

1941. The genus is distributed in the Holarctic region. Number of species: World – 56, Palaearctic – 8, Russia – 1.
- Platyplectrus bouceki** (Erdős, 1966) [Euplectromorpha]. Russia: **FE** (PR). – Europe (SE, EE), Turkey, Tajikistan.
- PNIGALIO** Schrank, 1802 (*Tineophaga* Rondani, 1868; *Notanisomorphomyia* Girault, 1913; *Ratzeburgiola* Erdős, 1958). Type species: *Ichneumon pectinicornis* Linnaeus, 1758. Cosmopolitan. Number of species: World – 62, Palaearctic – 37, Russia – 19.
- Pnigalio agraulis** (Walker, 1839) [Eulophus] (*Eulophus barbarous* Foerster, 1841; *Tineophaga tischeriae* Rondani, 1868; *Spartiophilus orchestricida* Rondani, 1877; *Eulophus populifoliellae* Erdős, 1954). Primary parasitoid of mining insects from the orders Diptera, Coleoptera and Lepidoptera and hymenopterans from the families Cynipidae and Tenthredinidae. Russia: **EP** (C, E, NC), **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Jordan, Iran, China (NC, NW, CC, SW, WP, SE).
- Pnigalio attis** (Walker, 1839) [Eulophus]. Primary parasitoid of hymenopterans from the family Tenthredinidae. Russia: **EP** (NC). – Europe (WE, SE, EE).
- Pnigalio cristatus** (Ratzeburg, 1848) [Entedon]. Primary parasitoid of lepidopterans from the families Gracillariidae, Heliozelidae, Momphidae, Nepticulidae and Noctuidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Turkey.
- Pnigalio epilobii** Bouček, 1966. Primary parasitoid of *Mompha fulvescens* Haw. (Lepidoptera: Momphidae). Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Azerbaijan, Israel.
- Pnigalio gyamiensis** Myartseva et Kurashev, 1990. Primary parasitoid of *Chrysoesthia sexguttella* Thunb. (Lepidoptera: Gelechiidae). Russia: **EP** (E). – Europe (SE), Turkmenistan.
- Pnigalio incompletus** (Bouček, 1971) [Ratzeburgiola]. Primary parasitoid of leaf-miners from the families Agromyzidae (Diptera) and lepidopterans from the families Heliozelidae, Gelechiidae and Gracillariidae. Russia: **EP** (NC). – Europe (SE, EE), Azerbaijan, Turkey, Syria, Jordan, Israel.
- Pnigalio katonis** (Ishii, 1953) [Eulophus]. Primary parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NC), **FE** (KH, PR, SA). – China (NC, NW, CC, SW, SE), Japan, SE Asia.
- Pnigalio longulus** (Zetterstedt, 1838) [Entedon] (*Eulophus pisidice* Walker, 1839; *Teleogmus arcticus* Thomson, 1878). Primary parasitoid of insects from the orders Diptera, Hymenoptera, Lepidoptera and Coleoptera; secondary parasitoid of hymenopterans *Colastes braconius* Hal. (Braconidae) and *Achrysocharoides niveipes* Thomson (Eulophidae). Russia: **EP** (C, E, NC), **ES** (BR), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Turkey, China (NC, NW, CC, SW), N America.
- Pnigalio mediterraneus** Ferrière et Delucchi, 1957. Primary ectoparasitoid of olive fruit fly *Bactrocera oleae* Gmel. (Diptera: Tephritidae) and lepidopterans from the family Gracillariidae; secondary parasitoid of hymenopterans from the families Braconidae, Eulophidae and Eupelmidae. Russia: **EP** (NW, C, E, S, NC), **ES** (BR), **FE** (KH, PR, KA). – Europe (WE, SE, EE), N Africa, Turkey, Israel.
- Pnigalio nemati** (Westwood, 1838) [Eulophus] (*Eulophus tischbeinii* Ratzeburg, 1848). Primary ectoparasitoid of hymenopterans from the family Tenthredinidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, EE), Turkey, Israel, N America.
- Pnigalio pectinicornis** (Linnaeus, 1758) [Ichneumon] (*Elachestus fusciventris* Nees, 1834; *Eulophus medius* Nees, 1834; *E. coecilius* Walker, 1839; *E. cromus* Walker, 1839; *E. faustitas* Walker, 1839; *E. lucumo* Walker, 1839; *E. mandron* Walker, 1839; *E. mania* Walker, 1839; *E. menyllus* Walker, 1839; *E. fissicornis* Foerster, 1841; *E. plumicornis* Foerster, 1841; *E. tarandicornis* Foerster, 1841; *E. dendricornis* Ratzeburg, 1844; *E. pilicornis* Ratzeburg, 1844; *E. viduus* Ratzeburg, 1844; *E. subcutaneous* Ratzeburg, 1852; *E. habrocerus* Foerster, 1861; *E. megalocerus* Foerster, 1861). Primary or secondary ectoparasitoid of leaf-mining insects from the orders Lepidoptera, Hymenoptera, Diptera and Coleoptera. Russia: **EP** (NW, C, E, NC, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Iran, China (NC, NW, CC, SW, WP, SE), Australia, New Zealand.
- Pnigalio phragmitis** (Erdős, 1954) [Eulophus]. Primary ectoparasitoid of dipterans from the families Agromyzidae and Cecidomyiidae (Diptera). Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, EE), China (NE, NC, NW, CC, SW, SE).
- Pnigalio rotundiventris** (Erdős, 1954) [Eulophus]. Parasitoid of *Phyllonorycter corylifoliella* Hbn. (Lepidoptera: Gracillariidae). Russia: **EP** (C, E, NC), **FE** (PR). – Europe (NE, EE), Israel, Iran.
- Pnigalio soemius** (Walker, 1839) [Eulophus] (*Eulophus meriones* Walker, 1839; *E. prothenor* Walker, 1839; *E. punctiscuta* Thomson, 1878; *E. flavipes* Erdős, 1954; *E. nigroaeneus* Erdős, 1954). Primary parasitoid of leaf miners from the orders Diptera, Lepidoptera and Coleoptera. Russia: **EP** (NW, C, E, NC, CR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey, Syria, Iraq, Israel, Iran, Pakistan, China (CC), Korean Peninsula, SE Asia.
- Pnigalio tobiasi** Storozheva, 1995. Russia: **FE** (KH).
- Pnigalio tricuspis** (Erdős, 1954) [Eulophus]. Primary parasitoid of sawflies (Hymenoptera: Tenthredinidae). Russia: **EP** (C, NC), **ES** (IR), **FE** (PR). – Europe (WE, NE, EE), Israel.
- Pnigalio tridentatus** (Thomson, 1878) [Eulophus]. Primary parasitoid of sawflies (Hymenoptera: Tenthredinidae) and moths from the family Gracillariidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Pnigalio trjapitzini** Storozheva, 1995. Russia: **EP** (NC), **FE** (PR).

- Pnigalio xerophilus** (Erdős, 1954) [Eulophus]. Primary parasitoid of *Phyllonorycter blancardella* F. (Lepidoptera: Gracillariidae). Russia: **EP** (E, NC), **FE** (PR). – Europe (NE, EE).
- RHICNOPELTE** Foerster, 1878. Type species: *Rhcnopelte fulviventris* Foerster, 1878 (= *Elachestus crassicornis* Nees, 1834). Monotypic Palaearctic genus.
- Rhcnopelte crassicornis** (Nees, 1834) [Elachestus] (*Rhcnopelte fulviventris* Foerster, 1878). Primary ectoparasitoid of *Eugraphe sigma* Den. et Schiff. and *Scotia* sp. (Lepidoptera: Noctuidae). Russia: **EP** (E, NC). – Europe (WE, SE, EE), Turkey, Yemen, Iran, Kazakhstan.
- SYMPIESIS** Foerster, 1856 (*Teleogmus* Foerster, 1856; *Sympiezus* Thomson, 1878; *Pseudophelminus* Girault, 1913; *Moroceras* Erdős, 1954). Type species: *Eulophus sericeicornis* Nees, 1834. Cosmopolitan. Number of species: World – 136, Palaearctic – 73, Russia – 31.
- Sympiesis acalle** (Walker, 1848) [Eulophus] (*Entedon nublatus* Ratzeburg, 1848; *Eulophus bifasciatus* Thomson, 1878; *Astichus bimaculatipennis* Girault, 1912; *Sympiesis bimaculata* Crawford, 1913; *S. meteori* Girault, 1916). Primary parasitoid of *Phytoliriomyza variegata* Mg. (Diptera: Agromyzidae), lepidopterans from the families Blastobasidae and Elachistidae; secondary parasitoid of Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (NW, C, E, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Yemen, Turkmenistan, Tajikistan, Kyrgyzstan, Mongolia, Korean Peninsula, Japan (Hon), N America.
- Sympiesis ampla** Storozheva, 1981. Russia: **WS** (NS), **FE** (PR).
- Sympiesis angustipennis** (Erdős, 1954) [Eulophus]. Russia: **EP** (C). – Europe (SE, EE), Iran.
- Sympiesis aureolus** Szelenyi, 1976. Russia: **EP** (C). – Europe (EE).
- Sympiesis derogatae** Kamijo, 1965. Primary parasitoid of *Haritala derogata* F. (Lepidoptera: Pyralidae). Russia: **FE** (PR). – Korean Peninsula, Japan (Hon).
- Sympiesis dolichogaster** Ashmead, 1888 (*Sympiesis mikado* Ashmead, 1904; *Asympiesiella nelsonensis* Girault, 1913; *A. india* Girault, 1916; *Sympiesis nowickii* Szelenyi, 1941). Primary parasitoid of leaf-mining moth mainly from the family Gracillariidae. Russia: **EP** (E, NC), **FE** (PR, SA). – Europe (WE, SE, EE), Georgia, Armenia, Pakistan, Tajikistan, Mongolia, China (NE, NC, NW, CC, SE), Japan (Hok, Hon, Kyu, Ryu), N America, SE Asia, India, Cuba, Australia.
- Sympiesis euspilapterygis** (Erdős, 1958) [Eulophus]. Primary parasitoid of leaf miners moths from the family Gracillariidae. Russia: **EP** (C, NC). – Europe (WE, NE, EE), Turkey, Israel.
- Sympiesis festiva** Storozheva, 1981. Russia: **FE** (PR).
- Sympiesis flavopicta** Bouček, 1959. Russia: **EP** (C, E, S, NC, CR), **FE** (PR). – Europe (WE, SE, EE), Armenia, Turkey, Iraq, Pakistan, Turkmenistan, Tajikistan, Kyrgyzstan.
- Sympiesis gordius** (Walker, 1839) [Eulophus] (*Eulophus stramineipes* Thomson, 1878). Primary solitary parasitoid of leaf miners moths from the family Gracillariidae. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Iran, Afghanistan, Kazakhstan, Mongolia, China (NC, NW, CC, SW), N America.
- Sympiesis gregori** Bouček, 1959 (*Sympiesis linifoliellae* Delucchi, 1962). Primary parasitoid of leaf miners moth from the families Gracillariidae and Nepticulidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Yemen, Iran.
- Sympiesis gyorfii** Erdős, 1954. Primary ectoparasitoid of lepidopterans from the families Gracillariidae and Tortricidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Israel, Tajikistan.
- Sympiesis hirticula** Kamijo, 1976 (*Eulophus albitarsis* Ashmead, 1904). Primary parasitoid of *Rhodoneura vittula* Guen. (Diptera: Thyrididae) and *Acrocercops* sp. (Lepidoptera: Gracillariidae). Russia: **EP** (E). – Japan.
- Sympiesis japonica** Kamijo, 1965. Primary gregarious ectoparasitoid of lepidopterans from the family Tortricidae. Russia: **FE** (PR). – Korean Peninsula, Japan.
- Sympiesis laevifrons** Kamijo, 1965. Primary parasitoid of leaf-mining moth mostly from the family Gracillariidae. Russia: **FE** (PR). – Japan.
- Sympiesis lehri** Storozheva, 1981. Russia: **EP** (E). – Turkmenistan.
- Sympiesis lepida** Storozheva, 1981. Russia: **EP** (C).
- Sympiesis mishi** Yefremova et Shroll, 1997. Russia: **EP** (E).
- Sympiesis notata** (Zetterstedt, 1838) [Pteromalus] (*Eulophus laodochus* Walker, 1839; *E. pronoe* Walker, 1839; *E. sandanis* Walker, 1839; *E. damicornis* Foerster, 1841; *E. superior* Foerster, 1841; *Entedon atmopterus* Ratzeburg, 1852). Primary parasitoid of lepidopterans mostly from the families Gracillariidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), United Arab Emirates, Korean Peninsula.
- Sympiesis ornatula** Storozheva, 1981. Russia: **FE** (PR).
- Sympiesis pustacola** Szelenyi, 1976. Primary parasitoid of *Oxicesta geographica* F. (Lepidoptera: Noctuidae). Russia: **EP** (C) – Europe (EE).
- Sympiesis ringoniellae** Kamijo, 1965. Primary parasitoid of *Phyllonorycter ringoniella* Mats. and *Ph. pyrifoliella* Ger. (Lepidoptera: Gracillariidae). Russia: **FE** (PR). – Europe (EE), China (NC), Korean Peninsula, Japan (Hok).
- Sympiesis sergeyi** Storozheva, 1990. Russia: **FE** (PR).
- Sympiesis sericeicornis** (Nees, 1834) [Eulophus] (*Eulophus upupaenellae* Bouché, 1834; *E. docilis* Walker, 1839; *E. eneugamus* Walker, 1839; *E. sithon* Walker, 1839; *Entedon laticornis* Ratzeburg, 1848; *Sympiesis punctipleura* Thomson, 1878; *Coccophagus compressicornis* Provancher, 1887; *Metacolus conicus* Provancher, 1887;

- Sympiesis nigrifemora* Ashmead, 1888; *S. nigripes* Ashmead, 1888; *S. massasoit* Crawford, 1913; *S. fulvipes* Györfi, 1941). Primary parasitoid of numerous species from the families Gracillariidae, Coleophoridae, Tischeriidae and Tortricidae (Lepidoptera), Curculionidae (Coleoptera), some Tenthredinidae (Hymenoptera); secondary parasitoid of Braconidae and Eulophidae (Hymenoptera). Russia: **EP** (NW, C, E, S, NC), **UR**, **ES** (BR, YA), **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW, WP), Korean Peninsula, Japan, N America, SE Asia.
- Sympiesis smaragdina** Storozheva, 1990. Russia: **FE** (PR).
- Sympiesis tenuis** Storozheva, 1981. Russia: **FE** (PR).
- Sympiesis thapsianae** Bouček, 1974. Primary parasitoid of *Epinotia thapsiana* Z. (Tortricidae: Lepidoptera). Russia: **EP** (E), **FE** (PR). – Europe (SE).
- Sympiesis trjapitzini** Storozheva, 1981. Russia: **EP** (NW, NC).
- Sympiesis viridula** (Thomson, 1878) [Eulophus]. Primary gregarious ectoparasitoid of lepidopterans from the families Gelechiidae, Gracillariidae, Noctuidae, Pyralidae and Tortricidae; secondary parasitoid of *Eulophus abdominalis* Nees (Hymenoptera: Eulophidae). Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, SE, EE), Turkey, N America.
- Sympiesis volgensis** Yefremova et Shroll, 1997. Russia: **EP** (E).
- Sympiesis xanthostoma** (Nees, 1834) [Eulophus] (*Eulophus leodamas* Walker, 1839; *Teleogmus orbitalis* Foerster, 1856; *Sympiesis szelényii* Györfi, 1941). Primary ectoparasitoid of lepidopterans from the families Gracillariidae and Tortricidae. Russia: **EP** (C, E, NC, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Armenia.
- STENOMESIUS** Westwood, 1833 (*Euryscotolinx* Girault, 1913; *Stenelachistus* Masi, 1917; *Nioro* Risbec, 1951). Type species: *Stenomesus pulchellus* Westwood, 1833 (= *Ichneumon rufescens* Retzius, 1783). The genus is distributed almost worldwide, except for Afrotropical and Nearctic regions. Number of species: World – 20, Palaeartic – 2, Russia – 1.
- Stenomesus rufescens** (Retzius, 1783) [Ichneumon] (*Stenomesus maculatus* Westwood, 1833; *S. pulchellus* Westwood, 1833; *S. acesius* Walker, 1839). Primary gregarious ectoparasitoid of lepidopterans from the families Nepticulidae and Pyralidae, coleopterans from the family Curculionidae (Scolytinae). Russia: **EP** (CR). – Europe (WE, NE, SE, EE), Georgia, Armenia, N America (introduced).
- ZAGRAMMOSOMA** Ashmead, 1904 (*Hippocephalus* Ashmead, 1888; *Zagrammosoma* Schulz, 1906; *Mirzagrammosoma* Girault, 1915). Type species: *Hippocephalus multilineatus* Ashmead, 1888. The genus is distributed in the Holarctic and Australasian regions. Number of species: World – 17, Palaeartic – 4, Russia – 2.
- Zagrammosoma talitzkii** (Bouček, 1961) [Cirrospilus]. Primary ectoparasitoid of dipterans from the family Agromyzidae and lepidopterans from the family Gracillariidae. Russia: **EP** (S, NC). – Europe (SE, EE), Turkey, Iran, Turkmenistan, Kazakhstan.
- Zagrammosoma variegatum** (Masi, 1907) [Atoposoma]. Primary ectoparasitoid of dipterans from the families Agromyzidae and Tephritidae and lepidopterans from the family Gracillariidae. Russia: **EP** (C, E, NC, CR). – Europe (WE, NE, SE, EE), N Africa, Armenia, Azerbaijan, Turkey, Yemen, United Arab Emirates, Yemen, Iran, Pakistan, Turkmenistan, Uzbekistan, China (NC, CC, SE), India, SE Asia, Afrotropics, S America, Australia, New Zealand.
- XANTHELLA** Moczár, 1950 (*Xanthellum* Erdős et Novicky, 1951). Type species: *Xanthella szabopatayi* Moczár, 1950. Monotypic Palaeartic genus.
- Xanthella szabopatayi** Moczár, 1950 (*Xanthella transylvanica* Erdős, 1951). Primary parasitoid of lepidopterans from the family Psychidae. Russia: **EP** (C). – Europe (WE, EE), Abkhazia.

Subfamily ENTEDONINAE

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Number of taxa: World – 92 genera and 2214 species, Palaeartic – 25/410, Russia – 17/156.

ACHRYSOCHAROIDES Girault, 1913 (*Neoderostenus* Girault, 1915; *Enaysma* Delucchi, 1954; *Kratoysma* Bouček, 1965). Type species: *Chrysocharis sarcophaga* Girault, 1913. The genus is distributed worldwide, except for Afrotropical region. Number of species: World – 71, Palaeartic – 34, Russia – 8.

Achrysocharoides albiscapus (Delucchi, 1957) [Enaysma]. Primary parasitoid of leaf-mining moths from the family Gracillariidae. Russia: **EP** (E). – Europe (WE, SE, EE).

Achrysocharoides altilis (Delucchi, 1954) [Enaysma]. Primary parasitoid of leaf-mining moths from the families Gracillariidae and Nepticulidae. Russia: **EP** (NC). – Europe (WE, SE, EE).

Achrysocharoides atys (Walker, 1839) [Enaysma] (*Enaysma aenea* Delucchi, 1956). Primary parasitoid of leaf-mining moths from the family Gracillariidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).

Achrysocharoides butus (Walker, 1839) [Entedon] (*Enaysma septentrionalis* Delucchi, 1957). Primary parasitoid of leaf-mining moths from the family Gracillariidae. Russia: **EP** (E, NC, CR). – Europe (WE, NE, EE), Georgia.

Achrysocharoides cilla (Walker, 1839) [Entedon] (*Elachestus leucobates* Ratzeburg, 1848; *Derostenus chrysostomus* Thomson, 1878). Primary parasitoid of *Mikiola fagi* Hart. (Diptera: Cecidomyiidae), *Andricus lignicola* Hart. (Hymenoptera: Cynipidae) and lepidopterans from the

- families Coleophoridae and Gracillariidae. Russia: **EP** (S, NC). – Europe (WE, NE, EE).
- Achrysocharoides latreillii** (Curtis, 1826) [Eulophus]. Primary parasitoid of *Phytomyza ilicis* Curt. (Diptera: Agromyzidae) and leaf-mining moths from the family Gracillariidae. Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE),
- Achrysocharoides niveipes** (Thomson, 1878) [Derostenus]. Primary parasitoid of leaf-mining moths from the families Gracillariidae and Nepticulidae and *Hypera arator* L. (Coleoptera: Curculionidae). Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE).
- Achrysocharoides zwoelferi** (Delucchi, 1954) [Enaysma]. Primary parasitoid of leaf-mining moths from the family Gracillariidae. Russia: **EP** (NC). – Europe (WE, NE, EE), Turkmenistan, N America.
- ASECODES** Foerster, 1856 (*Ganahlia* Dalla Torre, 1897; *Teleopterus* Silvestri, 1914; *Metasecodes* Erdős, 1955). Type species: *Asecodes fuscipes* Foerster, 1861 (= *Eulophus congruens* Nees, 1834). Cosmopolitan. Number of species: World – 22, Palearctic – 14, Russia – 6.
- Asecodes congruens** (Nees, 1834) [Eulophus] (*Cirrospilus coronis* Walker, 1838; *C. eudora* Walker, 1838; *C. lycomedes* Walker, 1838; *C. orelia* Walker, 1838; *C. procles* Walker, 1838; *Pteroptrix thione* Walker, 1839; *Asecodes fuscipes* Foerster, 1861; *A. nitens* Foerster, 1861; *Eugerium orbatum* Szélényi, 1978). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE).
- Asecodes erxias** (Walker, 1848) [Entedon] (*Omphale scutellata* Ferrière, 1952; *Metasecodes bicolor* Erdős, 1955). Primary parasitoid of dipterans from the families Agromyzidae and Tephritidae, hymenopterans from the family Argidae and lepidopterans from the families Gracillariidae, Lyonetiidae, Nepticulidae and Yponomeutidae. Russia: **EP** (E, NC), **WS** (TK), **FE** (PR). – Europe (WE, NE, SE, EE), Japan, N America.
- Asecodes lagus** (Walker, 1838) [Cirrospilus] (*Entedon agamedes* Walker, 1839). Primary endoparasitoid of dipterans *Oscinella frit* L., *O. vastator* Curt. (Chloropidae) and *Geomyza tripunctata* Fll. (Opomyzidae). Russia: **EP** (NC). – Europe (WE).
- Asecodes lucens** (Nees, 1834) [Eulophus] (*Entedon chthonia* Walker, 1839; *E. mento* Walker, 1839; *E. metagenes* Walker, 1848). Primary endoparasitoid of *Galerucella nymphae* L., *G. sagittariae* Gyll. and *Lochmaea suturalis* Thoms. (Coleoptera: Chrysomelidae). Russia: **EP** (NC), **WS** (AL), **ES** (KS). – Europe (WE, NE, SE, EE).
- Asecodes reticulatum** (Kamijo, 1986) [Desmatocharis]. Primary parasitoid of *Rhamphus oxyacanthae* Marsh. (Coleoptera: Curculionidae). Russia: **FE** (PR). – Europe (NE, EE), Japan.
- Asecodes turcicum** (Nees, 1834) [Eulophus]. Primary parasitoid of *Leucospilapteryx omisella* Staint. (Lepidoptera: Gracillariidae). Russia: **EP** (CR), **FE** (PR). – Europe (WE, NE, EE), China (NC, NW, SW), Japan, India.
- CERANISUS** Walker, 1842 (*Thripoctenus* Crawford, 1911; *Epomphale* Girault, 1915; *Urfacus* Doganlar, 2003; *Gaziantepus* Doganlar et Doganlar, 2013; *Guelsenia* Doganlar et Doganlar, 2013; *Sergueicus* Doganlar et Doganlar, 2013). Type species: *Cirrospilus pacuvius* Walker, 1838. Cosmopolitan. Number of species: World – 40, Palearctic – 26, Russia – 2.
- Ceraninus menes** (Walker, 1839) [Pteroptrix] (*Thripoctenus brui* Vuillet, 1914; *Th. vinctus* Gahan, 1932; *Ceraninus rosilloi* De Santis, 1961). Primary solitary endoparasitoid of thrips (Thysanoptera). Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Israel, Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australia.
- Ceraninus pacuvius** (Walker, 1838) [Cirrospilus] (*Entedon acestor* Walker, 1839; *Diglyphus aculeo* Walker, 1848; *Derostenus clavicornis* Thomson, 1878; *Thripoctenus kutteri* Ferrière, 1936). Primary endoparasitoid of *Kakothrips robustus* Uzel (Thysanoptera: Thripidae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Afghanistan.
- CHRYSOCHARIS** Foerster, 1856 (*Euophthalmomyia* Ashmead, 1904; *Nesomyia* Ashmead, 1904; *Omphalchrysocharis* Girault, 1917; *Rhincopeltoidea* Girault, 1917; *Kratochviliana* Maláč, 1943; *Epilampsis* Delucchi, 1954; *Oxycharis* Delucchi, 1954; *Trichocharis* Delucchi, 1954; *Xenocharis* Delucchi, 1954). Type species: *Chrysocharis femoralis* Foerster, 1861. Distribution mainly in the Holarctic and less in other regions. Number of species: World – 134, Palearctic – 69, Russia – 31.
- Chrysocharis albipes** (Ashmead, 1904) [Nesomyia] (*Epilampsis umbripennis* Kamijo, 1960). Primary endoparasitoid of lepidopterans from the families Gracillariidae and Tischeriidae. Russia: **EP** (E). – Japan (Hok, Hon, Kyu).
- Chrysocharis alpinus** Yefremova, 2001. Primary parasitoid of *Phyllonorycter emberizaepenella* Bouché (Lepidoptera: Gracillariidae). Russia: **EP** (E). – Europe (WE).
- Chrysocharis amarus** (Walker, 1839) [Entedon] (*Entedon varus* Walker, 1839; *Chrysocharis nepticularum* Erdős, 1954; *Ch. aceris* Erdős, 1966). Primary solitary endoparasitoid of leaf-mining moths from the families Lyonetiidae and Nepticulidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), N Africa, Turkey.
- Chrysocharis amyte** (Walker, 1839) [Entedon] (*Derostenus filicornis* Thomson, 1878; *Chrysocharis seiugata* Delucchi, 1954; *Ch. seiuncta* Delucchi, 1954). Primary solitary endoparasitoid of the larvae of Agromyzidae (Diptera). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Iran, China (NC, NW), Korean Peninsula, Japan (Hok, Kyu), N America.

- Chrysocharis arctica** (Erdős, 1950) [Derostenus] (*Chrysocharis pektusana* Kamijo, 1979). Russia: **EP** (N). – Europe (NE), Korean Peninsula.
- Chrysocharis assis** (Walker, 1839) [Entedon] (*Omphalchrysocharis orientalis* Girault, 1917). Primary endoparasitoid of lepidopterans from the family Nepticulidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Mongolia, N America.
- Chrysocharis collaris** Graham, 1963. Russia: **EP** (N, E). – Europe (WE, NE, EE), Mongolia, N America.
- Chrysocharis crassiscapus** (Thomson, 1878) [Derostenus] (*Chrysocharis mallochii* Gahan, 1917; *Derostenus sulcatus* Erdős, 1954). Primary endoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Korean Peninsula, Japan (Hok, Hon), N America.
- Chrysocharis elongata** (Thomson, 1878). Russia: **EP** (NC). – Europe (WE, SE, NE, EE).
- Chrysocharis eurynota** Graham, 1963. Primary endoparasitoid of *Profenusa pygmaea* Klug and *P. thomsoni* Konow (Hymenoptera: Tenthredinidae). Russia: **EP** (E). – Europe (WE, NE, EE), Mongolia.
- Chrysocharis frigida** Baur et Hansson, 1997. Russia: **EP** (N). – Europe (NE, SE), N America.
- Chrysocharis gemma** (Walker, 1839) [Entedon] (*Entedon proclea* Walker, 1839; *Eulophus centralis* Walker, 1872). Primary endoparasitoid of dipterous leaf miners from the family Agromyzidae, leaf-mining moths from the families Gracillariidae, Lyonetiidae and Nepticulidae; secondary parasitoid of hymenopterans from the families Braconidae, Encyrtidae and Eulophidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE), N Africa, Turkey, N America, Australia, New Zealand.
- Chrysocharis idyia** (Walker, 1839) [Entedon] (*Entedon pontinus* Walker, 1839; *Gastrancistrus iriarte* Walker, 1848; *G. iriate* Dalla Torre, 1898). Primary parasitoid of lepidopterans from the family Gracillariidae and dipterans from the family Agromyzidae. Russia: **EP** (N, NW, C, E, S, NC), **ES** (IR). – Europe (WE, NE, EE), Turkey, Kazakhstan.
- Chrysocharis laomedon** (Walker, 1839) [Entedon] (*Entedon parsodes* Walker, 1839; *E. sartamus* Walker, 1839; *Epilampsis albiceps* Delucchi, 1954; *Entedon coxalis* Delucchi, 1956; *Chrysocharis hirsutiventris* Yoshimoto, 1973). Primary or (rarely) secondary endoparasitoid of lepidopterans from the families Gracillariidae and Nepticulidae, secondary parasitoid of *Apanteles circumscriptus* Nees (Hymenoptera: Braconidae). Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, Japan (Hok, Hon), N America.
- Chrysocharis laricinellae** (Ratzeburg, 1848) [Entedon]. Primary endoparasitoid of *Fenusa ulmi* Sundevall, *Heterarthrus nemoratus* Fll. and *Scolioneura betuleti* Klug (Hymenoptera: Tenthredinidae) and lepidopterans from the family Coleophoridae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), N America (introduced).
- Chrysocharis liriomyzae** Delucchi, 1954 (*Chrysocharis punctifacies* Delucchi, 1954; *Ch. foveatus* Szelenyi, 1981). Primary endoparasitoid of dipterous leaf miners from the family Agromyzidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, China (NE, NC, NW, SE), Korean Peninsula, Japan (Hok), N America (introduced).
- Chrysocharis nautius** (Walker, 1846) [Entedon] (*Epilampsis deciduae* Delucchi, 1954). Primary endoparasitoid of lepidopterans from the families Gracillariidae and Tischeriidae, coleopterans from the family Curculionidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Japan (Hok, Hon).
- Chrysocharis nephereus** (Walker, 1839) [Entedon] (*Entedon erigone* Walker, 1839; *E. inarus* Walker, 1839; *E. matho* Walker, 1839; *E. metella* Walker, 1839; *E. nautes* Walker, 1839; *Eulophus orchestis* Ratzeburg, 1844; *Entedon laetus* Ratzeburg, 1848; *E. sauros* Walker, 1848; *E. auronitens* Ratzeburg, 1852; *Chrysocharis obscurinervis* Bukovskii, 1938; *C. orchestidis* Bukovskii, 1938; *C. smirnovi* Bukovskii, 1938; *Epilampsis gunholdi* Delucchi, 1954; *E. laevigata* Delucchi, 1954; *E. tadici* Delucchi, 1954). Primary endoparasitoid of many leaf miners from the families Curculionidae (Coleoptera), Agromyzidae (Diptera), Coleophoridae, Eriocraniidae, Gracillariidae, Lyonetiidae, Nepticulidae and Tischeriidae (Lepidoptera) and Tenthredinidae (Hymenoptera). Russia: **EP** (N, NW, C, E, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Japan (Hok, Hon), N America.
- Chrysocharis nitetis** (Walker, 1839) [Entedon] (*Entedon novellus* Walker, 1839; *Derostenus boops* Thomson, 1878; *Chrysocharomyia elegantissima* Girault, 1917; *Chrysocharis milleri* Yoshimoto, 1973). Primary solitary endoparasitoid of leaf-mining larvae of lepidopterans from the families Gracillariidae, Lyonetiidae and Nepticulidae, coleopterans from the family Curculionidae and hymenopterans from the family Tenthredinidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia, Japan (Hon), N America.
- Chrysocharis orbicularis** (Nees, 1834) [Elachestus] (*Entedon abrota* Walker, 1839; *E. altadas* Walker, 1839; *E. charaxus* Walker, 1839; *E. eutropius* Walker, 1839; *E. lycoris* Walker, 1839; *E. naenia* Walker, 1839; *E. nurscia* Walker, 1848; *Chrysocharis facialis* Foerster, 1861; *Derostenus punctifrons* Thomson, 1878). Primary solitary endoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Jordan, Mongolia, China (SE), N America.
- Chrysocharis pallipes** (Nees, 1834) [Elachestus] (*Entedon alphenus* Walker, 1839; *E. chilo* Walker, 1839; *E. lycambes* Walker, 1839; *E. parmys* Walker, 1839; *Chrysocharis petiolata* Foerster, 1861). Primary solitary pupal endoparasitoid of dipterans from the families Agromyzidae and Drosophilidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), N Africa, China (CC), Japan (Hok, Hon, Kyu), N America, SE Asia.

- Chrysocharis pentheus** (Walker, 1839) [Entedon] (*Derostenus pallipes* Gahan, 1917; *Entedon ergeteles* Walker, 1848; *Epilampsis mirabilis* Sundby, 1957; *Chrysocharis aquilegiae* Erdős, 1961). Primary parasitoid of leaf-mining insects from the families Agromyzidae (Diptera), Lyonetiidae, Gracillariidae and Elachistidae (Lepidoptera) and Curculionidae (Coleoptera). Russia: **EP** (NW, E, NC), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China (CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu), N America, Malaysia.
- Chrysocharis phryne** (Walker, 1839) [Entedon] (*Derostenus scutellaris* Thomson, 1878). Primary endoparasitoid of *Phytomyza horticola* Gour. (Diptera: Agromyzidae) and lepidopterans from the family Gracillariidae. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China (CC), Japan (Hok, Hon, Kyu).
- Chrysocharis pilicoxa** (Thomson, 1878) [*Derostenus*]. Primary parasitoid of *Stigmella assimilella* Z. (Lepidoptera: Nepticulidae). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Mongolia.
- Chrysocharis polyzo** (Walker, 1839) [*Derostenus*] (*Entedon acerbas* Walker, 1839; *E. enephes* Walker, 1839; *E. leucippus* Walker, 1839; *E. polyzo* Walker, 1839; *Omphale palustris* Goureau, 1851; *Entedon thomsoni* Crawford, 1913; *Chrysocharis depressa* Delucchi, 1954; *Ch. plana* Delucchi, 1954). Primary endoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Mongolia, Korean Peninsula, Japan (Hok, Kyu), N America.
- Chrysocharis prodice** (Walker, 1839) [Entedon] (*Entedon daunus* Walker, 1839; *E. thoe* Walker, 1839; *E. coedicus* Walker, 1846; *E. temena* Walker, 1848; *Derostenus latipennis* Thomson, 1878; *D. salutaris* Crosby, 1911; *Chrysocharis duriceps* Szelenyi, 1979). Primary solitary endoparasitoid in larvae of *Stigmella* sp. (Lepidoptera: Nepticulidae). Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula, Japan, N America.
- Chrysocharis pubens** Delucchi, 1954 (*Chrysocharis latifrons* Gijswijt, 1965). Primary solitary endoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (NW, E, NC). – Europe (WE, NE, SE, EE), Turkey, China (SE), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu).
- Chrysocharis pubicornis** (Zetterstedt, 1838) [Entedon] (*Entedon aesopus* Walker, 1839; *E. amyrtaeus* Walker, 1839; *E. cydon* Walker, 1839; *E. eropus* Walker, 1839; *E. syma* Walker, 1839; *E. hersilia* Walker, 1840; *E. adreus* Walker, 1848; *Chrysocharis femoralis* Foerster, 1861; *Ch. avellanae* Erdős, 1961; *Ch. asclepiadeae* Szelenyi, 1979; *Ch. tranquillus* Szelenyi, 1981). Primary endoparasitoid of dipterans from the family Agromyzidae and leaf-mining moths from the family Lyonetiidae. Russia: **EP** (N, E, NC), **WS** (OM), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Jordan, Yemen, Pakistan, Mongolia, Korean Peninsula, Japan (Hok, Hon, Kyu), N America, India, Australia, New Zealand.
- Chrysocharis purpurea** Bukovskii, 1938 (*Epilampsis phyllotomae* Delucchi, 1954; *E. kumatai* Kamijo, 1960). Primary gregarious endoparasitoid of the larvae of *Orchestes* sp. (Coleoptera: Curculionidae) and leaf-mining hymenopterans from the family Tenthredinidae. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), Japan (Hok).
- Chrysocharis submutica** Graham, 1963. Primary endoparasitoid of lepidopterans *Elachista cerasella* Kaila, *E. pomerana* Frey (Elachistidae) and *Phyllonorycter heegeriella* Z. (Gracillariidae) and *Agromyza oryzae* Munakata (Diptera: Agromyzidae). Russia: **EP** (N, E). – Europe (WE, NE, SE, EE), Korean Peninsula, Japan (Hok, Hon, Kyu), N America.
- Chrysocharis viridis** (Nees, 1834) [Elachestus] (*Entedon melaenis* Walker, 1839; *Chrysocharis viridicoxis* Foerster, 1861; *Derostenus punctiscapus* Thomson, 1878; *Chrysocharis albula* Delucchi, 1954). Primary solitary endoparasitoid of dipterans from the family Agromyzidae. Russia: **EP** (N, C, E), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Mongolia, China (NC, NW, CC), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu), N America, SE Asia, Australia.
- CHRYSONOTOMYIA** Ashmead, 1904 (*Rubensteina* Girault, 1934; *Moserina* Delucchi, 1962; *Ladna* Bouček, 1988; *Callifrons* Schauff, Yoshimoto et Hansson, 1994). Type species: *Chrysonotomyia auripunctatus* Ashmead, 1894. The genus is distributed worldwide, except for Afrotropical and Australasian regions. Number of species: World – 171, Palaearctic – 10, Russia – 1.
- Chrysonotomyia germanica** (Erdős, 1956) [Halochariessa]. Primary parasitoid of dipterans from the family Agromyzidae and Cecidomyiidae and *Phyllonorycter tristrigella* Haw. (Lepidoptera: Gracillariidae). Russia: **EP** (E, NC), **WS** (OM), **FE** (PR). – Europe (WE, NE, SE, EE).
- CLOSTEROCERUS** Westwood, 1833 (*Achrysocharella* Girault, 1913; *Achrysocharis* Girault, 1913; *Chrysocharella* Girault, 1913; *Pseudochrysocharis* Girault, 1913; *Wolffiella* Krausse, 1917; *Halocharis* Erdős, 1951; *Chrysocharidia* Erdős, 1956; *Halochariessa* Erdős, 1956; *Mangocharis* Bouček, 1986; *Hispinocharis* Bouček, 1988). Type species: *Closterocerus trifasciatus* Westwood, 1833. Cosmopolitan. Number of species: World – 74, Palaearctic – 19, Russia – 6.
- Closterocerus lanassa** (Walker, 1839) [Entedon] (*Eulophus debilis* Foerster, 1841). Primary endoparasitoid of *Agromyza nana* Mg. (Diptera: Cecidomyiidae) and *Leucoptera spartifoliella* Hbn. (Lepidoptera: Lyonetiidae). Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Closterocerus lyonetiae** (Ferrière, 1952) [*Achrysocharis*] (*Chrysocharidia fimbriata* Erdős, 1956). Primary parasitoid of leaf-mining moths from the families Gracillariidae, Lyonetiidae and Nepticulidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Japan (Hon).

- Closterocerus pannonicus** (Erdős, 1956) [Halochariessa]. Primary parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC). – Europe (WE, EE).
- Closterocerus ruforum** (Krausse, 1917) [Wolffiella]. Primary egg parasitoid of sawflies from the family Diprionidae (Hymenoptera). Russia: **EP** (NW, C, S, NC), **UR**, **WS** (TM, TK), **ES** (IR, BR), **FE** (KH). – Europe (WE, NE, SE, EE), N Africa, Kazakhstan, N America (introduced).
- Closterocerus transsylvanicus** (Erdős, 1951) [Halocharis]. Russia: **EP** (NC). – Europe (EE).
- Closterocerus trifasciatus** Westwood, 1833 (*Eulophus sesquifasciatus* Ratzeburg, 1844; *Pleurotropis tricineta* Ashmead, 1888; *Closterocerus winnemanianae* Crawford, 1912). Primary solitary endoparasitoid of leaf-mining insects from the family Agromyzidae (Diptera), Curculionidae (Coleoptera) and many lepidopterans from the families Coleophoridae, Gracillariidae, Lyonetiidae and Tischeriidae. Russia: **EP** (C, E, NC, CR). – Europe (WE, NE, SE, EE), Turkey, Yemen, China (NC, NW), Japan (Hok, Hon, Kyu, Ryu), N America, SE Asia.
- DEROSTENUS** Westwood, 1833. Type species: *Derostenus gemmeus* Westwood, 1833. The genus is distributed worldwide, mainly in the Holarctic region. Number of species: World – 12, Palaearctic – 6, Russia – 3.
- Derostenus gemmeus** Westwood, 1833 (*Elachertus albipes* Nees, 1834; *E. albiscapus* Nees, 1834; *Entedon amyclas* Walker, 1839; *E. caesius* Walker, 1839; *E. rutilans* Walker, 1840; *Derostenus conformis* Thomson, 1878; *D. laevifrons* Thomson, 1878). Primary solitary endoparasitoid of *Stigmella* sp. (Lepidoptera: Nepticulidae). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE).
- Derostenus sulciscuta** Hansson, 1986. Russia: **FE** (PR, SA, KU). – Nepal.
- Derostenus trjapitzini** Gumovsky, 2003. Russia: **FE** (PR).
- ENTEDON** Dalman, 1820 (*Tranocera* Curtis, 1829; *Pleuropachus* Westwood, 1837; *Pleuropachys* Foerster, 1856; *Eriglyptus* Crawford, 1907; *Entedonella* Girault, 1913; *Metacrias* Girault, 1913; *Peloroelopsella* Girault, 1913; *Uracrias* Girault, 1913; *Metriocharis* Silvestri, 1914; *Acanthentedon* Dodd, 1917; *Metacriasinus* Ghesquière, 1946). Type species: *Entedon cyanellus* Dalman, 1820. Cosmopolitan. Number of species: World – 181, Palaearctic – 130, Russia – 35.
- Entedon abdera** Walker, 1839 (*Entedon punctatus* Thomson, 1878; *E. nigratarsis* Erdős, 1944). Primary parasitoid of *Gymnetron* sp. (Coleoptera: Curculionidae). Russia: **EP** (E), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China (NC, NW).
- Entedon albifemur** Kamijo, 1988. Russia: **FE** (PR). – Japan.
- Entedon amethysteus** Gumovsky, 1996. Russia: **FE** (PR).
- Entedon alveolatus** Gumovsky, 1996. Russia: **FE** (PR).
- Entedon cioni** Thomson, 1878. Russia: **EP** (NC), **ES** (TU), **FE** (PR). – Europe (WE, NE, EE), Israel.
- Entedon cionobius** Thomson, 1878 (*Entedon cinereae* Erdős, 1961; *E. fructicola* Gumovsky, 1996). Primary parasitoid of coleopterans from the family Curculionidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Turkey.
- Entedon costalis** Dalman, 1820 (*Eulophus discolor* Nees, 1834; *E. martialis* Foerster, 1841). Primary parasitoid of *Cionus tuberculatus* Scop. (Coleoptera: Curculionidae). Russia: **EP** (NW, C, E), **ES** (IR). – Europe (WE, NE, SE, EE).
- Entedon crassiscapus** Erdős, 1944 (*Entedon flavicrus* Erdős, 1944). Primary parasitoid of *Mordellistena parvula* Gyll., *M. weisei* Schilsky and *Isophrictis striatella* Den. et Schiff. (Coleoptera: Mordellidae). Russia: **EP** (E), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkmenistan.
- Entedon cyanellus** Dalman, 1820 (*Entedon subimpressus* Thomson, 1878; *E. nubilatus* Erdős, 1944; *E. astragali* Erdős, 1951; *E. erdösi* Szélényi, 1957; *E. erdosianus* Szélényi, 1961). Primary solitary endoparasitoid of coleopterans from the family Curculionidae. Russia: **EP** (E, CR), **ES** (TU, IR, YA, ZB), **FE** (KA). – Europe (NE, EE), Kazakhstan, Mongolia, N America.
- Entedon diotimus** Walker, 1839 (*Entedon loti* Erdős, 1944; *E. transversalis* Erdős, 1944). Primary parasitoid of coleopterans from the families Apionidae, Curculionidae and Mordellidae, dipterans from the families Agromyzidae and Cecidomyiidae and hymenopterans from the family Tenthredinidae. Russia: **EP** (NW, E, NC), **ES** (IR, YA), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Azerbaijan, Korean Peninsula.
- Entedon ergias** Walker, 1839 (*Entedon busiris* Walker, 1839; *E. merion* Walker, 1839; *Elachestus annulatus* Foerster, 1841; *Eulophus albipes* Ratzeburg, 1844; *Ichneumon leucogramma* Ratzeburg, 1844). Primary endoparasitoid of insects from the families Apionidae, Buprestidae, Cerambycidae and Curculionidae (Coleoptera), Cecidomyiidae (Diptera), Tenthredinidae (Hymenoptera), Elachistidae and Sesiidae (Lepidoptera). Russia: **EP** (C, S, NC), **UR**, **ES** (KR, YA), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Israel, Iran, N America.
- Entedon fufius** Walker, 1846 (*Entedon montanus* Erdős, 1951). Primary parasitoid of coleopterans *Apion* sp. (Apionidae) and *Meligethes bidentatus* Brisout (Nitidulidae). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Turkey, Mongolia.
- Entedon fursovi** Gumovsky, 1996. **FE** (PR).
- Entedon fuscitarsis** Thomson, 1878. Primary parasitoid of *Rhyacionia buoliana* Den. et Schiff. (Lepidoptera: Tortricidae). Russia: **EP** (E), **ES** (IR). – Europe (WE, NE, EE), Kazakhstan.
- Entedon hercyna** Walker, 1839. Primary parasitoid of *Rhinusa asellus* Grav. (Coleoptera: Curculionidae). Russia: **EP** (E). – Europe (WE, NE, EE), Turkey.
- Entedon heyeri** (Ratzeburg, 1848). Primary parasitoid of insects from the families Apionidae (Coleoptera), Cecidomyiidae (Diptera) and Tenthredinidae (Hymenoptera). Russia: **EP** (E). – Europe (WE, EE).

- Entedon insignis** Erdős, 1944. Primary parasitoid of coleopterans from the family Buprestidae and Curculionidae. Russia: **EP** (NW, C, S), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Turkey.
- Entedon levadae** Gumovsky, 1999. Russia: **FE** (PR).
- Entedon lixi** Erdős, 1951. Primary parasitoid of *Lixus fasciculatus* Boh. (Coleoptera: Curculionidae). Russia: **EP** (E). – Europe (WE, NE, EE), Turkey.
- Entedon marusiki** Gumovsky, 1999. Russia: **ES** (IR). – Europe (EE), Kazakhstan.
- Entedon metatarsalis** Thomson, 1878 (*Entedon erdösi* Delucchi, 1954). Russia: **EP** (E). – Europe (WE, NE, EE).
- Entedon methion** Walker, 1839 (*Entedon györfii* Erdős, 1954). Primary endoparasitoid of coleopterans *Ernobius nigrinus* Sturm., *E. mollis* L. (Anobiidae) and *Ips acuminatus* Gyll. (Curculionidae: Scolytinae). Russia: **FE** (PR). – Europe (WE, NE, SE, EE), China (NC, NW), N America, Australia, New Zealand.
- Entedon nomizonis** Kamijo, 1988. Primary parasitoid of coleopterans from the genus *Orchestes* sp. (Curculionidae). Russia: **FE** (KH, PR). – Japan.
- Entedon pallicrus** Erdős, 1944. Primary parasitoid of coleopterans *Hemitrichapion pavidum* Germ., *Protapion apricans* Herb. and *P. trifolii* L. (Coleoptera: Apionidae). Russia: **EP** (E), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Uzbekistan, Kazakhstan.
- Entedon parvicar** Thomson, 1878 (*Entedon subovatus* Thomson, 1878). Primary parasitoid of *Leucoptera spartifoliella* Hbn. (Lepidoptera: Lyonetiidae). Russia: **EP** (C, E, S, NC), **WS** (NS), **ES** (IR), **FE** (CH). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Entedon pharnus** Walker, 1839. Primary egg parasitoid of coleopterans *Perapion curtirostre* Germ. and *P. violaceum* Kirb. (Apioninae). Russia: **EP** (E, NC). – Europe (WE, NE, EE), Kazakhstan.
- Entedon philiscus** Walker, 1851. Primary parasitoid of coleopterans *Aspidapion aeneum* F. and *A. radiolus* Marsh. (Apioninae). Russia: **EP** (E). – Europe (WE, NE, EE).
- Entedon procioni** Erdős, 1944 (*Entedon molybdaenus* Erdős, 1944; *E. urticarii* Erdős, 1951; *E. meliloti* Askew, 1992). Primary parasitoid of coleopterans *Catapion seniculus* Kirb. and *Taeniapion urticarium* Herb. (Apioninae). Russia: **EP** (E), **ES** (IR). – Europe (WE, NE, SE, EE), Turkey.
- Entedon pseudonigritarsis** Erdős, 1944. Primary parasitoid of *Coryssomerus capucinus* Beck (Coleoptera: Curculionidae). Russia: **EP** (E), **FE** (PR). – Europe (WE, NE, EE).
- Entedon punctiscapus** Thomson, 1878. Primary parasitoid of coleopterans *Rhamphus oxyacanthae* Marsh. and *Rh. pulicarius* Herb. (Curculionidae). Russia: **FE** (PR). – Europe (WE, NE, EE), China (NW, NC).
- Entedon sparetus** Walker, 1839. Primary egg-larval endoparasitoid of weevils from the genera *Rhinusa* and *Mecinus* (Curculionidae). Russia: **EP** (E). – Europe (WE, NE, SE, EE), N Africa, Georgia, Kyrgyzstan.
- Entedon sylvestris** Szélenyi, 1981. Primary parasitoid of *Ceutorhynchus sisymbrii* Dieckmann (Coleoptera: Curculionidae). Russia: **EP** (NW, C, E), **ES** (IR). – Europe (WE, SE, EE), Kazakhstan.
- Entedon thomsonianus** Erdős, 1944. Parasitoid of coleopterans *Meliboeus amethystinus* Oliv. (Buprestidae) and *Lixus cardui* Oliv. (Curculionidae). Russia: **EP** (S, NC, CR). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan.
- Entedon tibialis** (Nees, 1834) [Entedon] (*Entedon euphorion* Walker, 1839; *E. longicornis* Erdős, 1944). Primary parasitoid of coleopterans from the families Anobiidae and Curculionidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), New Zealand.
- Entedon zanara** Walker, 1839 (*Entedon albicrus* Thomson, 1878). Primary parasitoid of coleopterans from the families Buprestidae, Curculionidae and Mordellidae. Russia: **EP** (C), **FE** (AM, PR). – Europe (WE, NE, SE, EE), China (NE).
- ENTEDONOPHALE** Girault, 1915 (*Cryptomphale* Girault, 1917; *Entedonastichus* Girault, 1920; *Pirenoidea* Girault, 1922; *Thripoctenoides* Erdős, 1954). Type species: *Entedonomphale margiscutum* Girault, 1915. Distributed almost worldwide, unknown only in the Neotropical region. Number of species: World – 14, Palaearctic – 3, Russia – 2.
- Entedonomphale carbonaria** (Erdős, 1954) [Thripoctenoides] (*Thripoctenoides kaulbarsi* Yoshimoto, 1981; *Th. albicoxis* Szélenyi, 1982). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), N America, Australia.
- Entedonomphale bulgarica** Boyadzhiev and Triapitsyn, 2007. Russia: **EP** (NC). – Europe (EE).
- EUDEROMPHALE** Girault, 1916 (*Aleurodiphagus* Nowicki, 1929). Type species: *Euderomphale fuscipennis* Girault, 1916 (= *Gyrolasia flavimidia* Howard, 1881). Distributed in Afrotropical, Nearctic, Neotropical, Oriental and Palaearctic regions. Number of species: World – 20, Palaearctic – 10, Russia – 1.
- Euderomphale chelidonii** Erdős, 1966. Primary parasitoid of Aleyrodidae (Hemiptera). Russia: **EP** (C). – Europe (WE, EE, NE), N Africa, Israel, Yemen.
- HOLARCTICESA** Koçak and Kemal, 2010 (*Grahamia* Erdős, 1966). Type species: *Entedon clinius* Walker, 1839. The genus is distributed in the Holarctic region. Number of species: World and Palaearctic – 2, Russia – 1.
- Holarcticesa tatrca** (Erdős, 1966) [Grahamia] (*Chrysocharis atripes* Szélenyi, 1979). Russia: **EP** (NC). – Europe (WE, NE, EE), N America.
- HORISMENUS** Walker, 1843 (*Holcopeltoideus* Ashmead, 1904; *Pseudomphale* Schrottky, 1909; *Akonda* Cameron, 1913; *Triolynx* Cameron, 1913; *Perhymenes* Brèthes,

- 1916; *Dirphiphagus* Brèthes, 1917; *Holcopeltomorpha* Blanchard, 1942; *Psephenivorus* Burks, 1968; *Edovum* Grissell, 1981; *Alachua* Schauff and Bouček, 1987; *Podkova* Gumovsky and Bouček, 2003). Type species: *Horismenus cleodora* Walker, 1843. The genus is distributed mainly in the Neotropical, but also in Holarctic regions. Number of species: World – 416, Palaearctic – 4, Russia – 3.
- Horismenus puttleri** (Grissell, 1981) [Edovum]. Egg parasitoid of coleopterans from the family Chrysomelidae, including *Leptinotarsa decemlineata* Say. Russia: **EP** (C). – Italy (introduced), N and S America.
- Horismenus specularis** (Erdős, 1954) [Pleurotropis]. Russia: **EP** (NC). – Europe (EE, SE), Azerbaijan, Israel.
- Horismenus texanus** (Girault, 1917) [Pseudomphale]. Primary parasitoid of *Mayetiola destructor* Say (Diptera: Cecidomyiidae). Russia: (without region: Thomson, 1955).
- IONYMPHA** Graham, 1959. Type species: *Entedon ochus* Walker, 1839. The genus is distributed in the Holarctic region. Number of species: World, Palaearctic and Russia – 2.
- Ionympha carne** (Walker, 1839) [Entedon] (*Asecodes pedicellaris* Jansson, 1955). Russia: **EP** (C, E). – Europe (WE, NE, SE, EE), N Africa, S America.
- Ionympha ochus** (Walker, 1839) [Entedon] (*Cirrospilus natras* Walker, 1839; *Entedon tegar* Walker, 1839; *E. vagellius* Walker, 1839; *E. antaradus* Walker, 1848). Russia: **EP** (E). – Europe (WE, NE, SE, EE), N America.
- MESTOCHARIS** Foerster, 1878. Type species: *Mestocharis cyclospila* Foerster, 1878 (= *Entedon bimaculatus* Dalman, 1820). The genus is distributed in the Holarctic region. Number of species: World – 3, Palaearctic and Russia – 2.
- Mestocharis bimaculatus** (Dalman, 1820) [Entedon] (*Entedon arisba* Walker, 1839; *Mestocharis cyclospila* Foerster, 1878; *M. militaris* Rimsky-Korsakov, 1933; *M. nearctica* Yoshimoto, 1976). Primary parasitoid of coleopterans from the family Dytiscidae. Russia: **EP** (NW, C, E), **FE** (PR). – Europe (WE, NE, SE, EE), N America.
- Mestocharis maculata** (Foerster, 1841) [Eulophus]. Primary parasitoid of coleopterans from the family Dytiscidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, SE, EE), Caucasus, Korean Peninsula.
- NEOCHRYSOCHARIS** Kurdjumov, 1912 (*Rhichnopolomyia* Girault, 1913; *Heterocharis* Erdős, 1954; *Pholema* Graham, 1963; *Fermeceraninus* Szelenyi, 1977). Type species: *Neochrysocharis immaculatus* Kurdjumov, 1912 (= *Cirrospilus aratus* Walker, 1838). Cosmopolitan. Number of species: World – 51, Palaearctic – 29, Russia – 9.
- Neochrysocharis albiscapus** Erdős, 1954 (*Neochrysocharis badghysi* Ryabchinskiy, 1983; *N. rezniki* Ryabchinskiy, 1983). Gregarious hyperparasitoid of *Apanteles congestus* Nees, *Cotesia glomerata* L. and *C. melitaearum* Wilk. (Hymenoptera: Braconidae) in the lepidopterans *Melicta* sp. (Nymphalidae) and *Aporia crataegi* L. (Pieridae). Russia: **EP** (E). – Europe (WE, SE, EE), Turkmenistan.
- Neochrysocharis aratus** (Walker, 1838) [Cirrospilus] (*Cirrospilus abastor* Walker, 1838; *Derostenus abruptus* Thomson, 1878; *Neochrysocharis immaculatus* Kurdjumov, 1912). Primary endoparasitoid of dipterans *Chromatomyia fuscata* Zett. (Agromyzidae) and *Oscinella frit* L. (Chloropidae). Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, N and S America.
- Neochrysocharis arvensis** Graham, 1963. Primary parasitoid of leaf-mining larva from the family Agromyzidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Turkey, N America.
- Neochrysocharis clarus** Szelenyi, 1977. Primary parasitoid of *Chromatomyia horticola* Gour. (Diptera: Agromyzidae). Russia: **EP** (C, E). – Europe (EE), Turkey, Mongolia.
- Neochrysocharis clinias** (Walker, 1838) [Cirrospilus] (*Neochrysocharis aeneicrus* Erdős, 1954). Russia: **EP** (E). – Europe (WE, NE, SE, EE).
- Neochrysocharis cuprifrons** Erdős, 1954. Russia: **EP** (NW, C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Israel.
- Neochrysocharis dimas** (Walker, 1839) [Entedon]. Russia: **EP** (E). – Europe (WE, NE, SE, EE).
- Neochrysocharis formosus** (Westwood, 1833) [Clostercus] (*Entedon phaenna* Walker, 1839; *E. lunatus* Ratzeburg, 1848; *E. ovulorum* Ratzeburg, 1848; *Chrysocharis obscuripes* Foerster, 1861; *Derostenus fullowayi* Crawford, 1913; *D. variipes* Crawford, 1913; *Achrysocharella camilli* Girault, 1917; *A. silvia* Girault, 1917). Primary solitary endoparasitoid of larval leaf-mining Lepidoptera, Diptera and Hymenoptera; secondary parasitoid of hymenopterans from the families Eulophidae and Trichogrammatidae. Russia: **EP** (C, E, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iraq, Jordan, Israel, United Arab Emirates, Iran, Turkmenistan, Kazakhstan, China (NC, NW, SW, SE), Japan, N America, SE Asia, Afrotropics, S America, Australia.
- Neochrysocharis microstoma** (Graham, 1963) [Pholema]. Primary parasitoid of *Cassida deflorata* Suffrian (Coleoptera: Chrysomelidae). Russia: without region (Hansson, Shevtsova, 2012). – Europe (WE, NE, SE, EE).
- OMPHALE** Haliday, 1833 (*Smaragdites* Westwood, 1833; *Teleopterus* Haliday, 1833; *Holcopelte* Foerster, 1856; *Secodes* Foerster, 1856; *Chrysocharoideus* Ashmead, 1904; *Holcopelta* Schulz, 1906; *Euderomyia* Girault, 1913; *Chrysocharomyia* Girault, 1915; *Raphaelonia* Girault, 1924; *Eugerium* Graham, 1959; *Exodontomphale* Bouček, 1984). Type species: *Entedon salicis* Haliday, 1833. Cosmopolitan. Number of species: World – 265, Palaearctic – 50, Russia – 19.
- Omphale acuminata** Gijswijt, 1976. Russia: without region (Hansson, Shevtsova, 2012). – Europe (WE, NE, SE, EE).

- Omphale aetius** (Walker, 1839) [Entedon] (*Entedon metius* Walker, 1839). Primary parasitoid of *Dasineura urticae* Perris (Diptera: Cecidomyiidae). Russia: **EP** (E). – Europe (WE, NE, EE), Korean Peninsula.
- Omphale brevibuccata** Szelenyi, 1978. Russia: without regions (Hansson, Shevtsova, 2012). – Europe (WE, NE, EE).
- Omphale chryseis** Graham, 1963. Primary parasitoid of *Contarinia medicaginis* Kieff. (Diptera: Cecidomyiidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Omphale clymene** (Walker, 1839) [Entedon]. Primary parasitoid of *Dasineura pyri* Bouché (Diptera: Cecidomyiidae). Russia: **EP** (E). – Europe (WE, NE, EE).
- Omphale clypealis** (Thomson, 1878) [Derostenus]. Primary parasitoid of *Dasineura brassicae* Winn. (Diptera: Cecidomyiidae); secondary parasitoid of *Ceraphron formicarius* Kieff. (Hymenoptera: Ceraphronidae). Russia: without regions (Hansson, Shevtsova, 2012). – Europe (WE, NE, SE, EE).
- Omphale connectens** Graham, 1963. Russia: without regions (Hansson, Shevtsova, 2012). – Europe (WE, NE, SE, EE).
- Omphale isander** (Walker, 1839) [Cirrospilus] (*Asecodes fimbriatus* Jansson, 1955). Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Japan (Hok).
- Omphale lugubris** Askew, 2003. Russia: without regions (Hansson, Shevtsova, 2012). – Europe (WE, NE).
- Omphale melina** Efremova et Kriskovich, 1994. Russia: **FE** (PR).
- Omphale obscura** (Foerster, 1841) [Elachestus] (*Holcopelte fulvipes* Foerster, 1861). Primary parasitoid of *Dasineura viciae* Kieff. (Diptera: Cecidomyiidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Omphale phruron** (Walker, 1839) [Entedon] (*Omphale tere-sis* Askew, 2003). Primary parasitoid of *Dasineura pyri* Bouché (Diptera: Cecidomyiidae). Russia: without regions (Hansson, Shevtsova, 2012). – Europe (WE, NE, EE).
- Omphale rossica** Hansson et Shevtsova, 2012. Russia: **EP** (NW).
- Omphale rubigus** (Walker, 1839) [Entedon]. Primary parasitoid of *Trigonodiplosis* sp. (Diptera, Cecidomyiidae). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE).
- Omphale salicis** (Haliday, 1833) [Entedon] (*Eulophus subulatus* Nees, 1834; *E. terebrator* Foerster, 1841). Primary parasitoid of dipterans *Contarinia lentis* Aczel, *C. loti* Deg. and *C. vincetoxici* Kieff. (Diptera: Cecidomyiidae). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), China (NC, NW), N America.
- Omphale sulciscuta** (Thomson, 1878) [Derostenus]. Primary parasitoid of *Schizomyia galiorum* Kieff. (Diptera: Cecidomyiidae). Russia: **EP** (E). – Europe (WE, NE, SE, EE), Armenia, China (NC, NW, SE).
- Omphale tenuicornis** Hansson et Shevtsova, 2012. Russia: **EP** (NW). – Europe (WE, NE).
- Omphale theana** (Walker, 1839) [Entedon] (*Entedon ithonus* Walker, 1839; *Derostenus radialis* Thomson, 1878; *Achrysocharella americana* Girault, 1916). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), China (NC, NW), N America.
- Omphale versicolor** (Nees, 1834) [Eulophus] (*Entedon anthylla* Walker, 1839). Russia: **EP** (E). – Europe (WE, NE, SE, EE), N America.
- PEDIOBIUS** Walker, 1846 (*Pleurotropis* Foerster, 1856). Type species: *Entedon (Pediobius) imbreus*, 1846. Cosmopolitan. Number of species: World – 220, Palaearctic – 77, Russia – 26.
- Pediobius alcaeus** (Walker, 1839) [Entedon] (*Entedon beon* Walker, 1839; *Elachestus politus* Ratzeburg, 1848; *Epi-pleurotropis longfellowi* Girault, 1917). Primary parasitoid of dipteran *Rabdophaga salicis* Schrank (Cecidomyiidae) and lepidopterans from the family Gracillariidae; secondary parasitoid of hymenopterans from the families Braconidae and Eulophidae. Russia: **EP** (NW, C, E, NC, CR), **FE** (PR, KU, KA). – Europe (WE, NE, SE, EE), N America.
- Pediobius brachycerus** (Thomson, 1878) [Pleurotropis] (*Mestocharis wilderi* Howard, 1892; *Pediobius aquatica* Erdős, 1954). Secondary parasitoid of hymenopterans from the family Ichneumonidae in cocoons of Araneae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Turkey, China (CC, SE), Japan (Hon), N America.
- Pediobius bruchicida** (Rondani, 1872) [Spartophilus] (*Pleurotropis waterstonii* Masi, 1929; *Amestocharis mundubberae* Girault, 1935; *Pediobius routensis* Erdős, 1964; *P. obtusiceps* Bouček, 1965). Primary or secondary gregarious endoparasitoid of pupae of lepidopterans from the families Lymantriidae, Pieridae, Tortricidae and Yponomeutidae and coleopterans from the families Chrysomelidae (including Bruchinae) and Curculionidae; secondary parasitoid of flies from the family Tachinidae and hymenopterans from the families Braconidae, Elasmidae, Encyrtidae, Eulophidae and Ichneumonidae. Russia: **EP** (E, S, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Lebanon, Israel, Yemen, Iran, Turkmenistan, Tajikistan, India, Afrotropics, Australia, New Zealand.
- Pediobius cassidae** Erdős, 1958. Primary parasitoid of coleopterans from the family Chrysomelidae and various lepidopterans; secondary parasitoid of hymenopterans from the families Braconidae and Ichneumonidae. Russia: **EP** (C, E, S, NC), **WS** (TK), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Yemen, Israel, Iran.
- Pediobius claviger** (Thomson, 1878) [Pleurotropis]. Russia: **EP** (NC), **FE** (SA). – Europe (WE, NE, EE), China (CC), Korean Peninsula, Japan (Hok).
- Pediobius coxalis** Bouček, 1965. Russia: **FE** (PR, SA, KA). – Europe (SE, EE), Japan (Hok).
- Pediobius crassicornis** (Thomson, 1878) [Pleurotropis] (*Asecodes albitarsis* Ashmead, 1888; *Holcopelte tarsalis* Ashmead, 1894; *Pleurotropis howardi* Crawford, 1910). Primary parasitoid of lepidopterans from the

- families Lasiocampidae, Lymantriidae, Notodontidae and Tortricidae; secondary parasitoid of hymenopterans from the families Braconidae, Eulophidae, Eupelmidae, Ichneumonidae and Pteromalidae. **EP** (C, E, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), Yemen, Iran, Japan (Hok, Hon), N America.
- Pediobius epeus** (Walker, 1839) [Entedon] (*Pleurotropis ulmi* Erdős, 1954). Russia: **EP** (E). – Europe (WE, NE, EE).
- Pediobius epigonus** (Walker, 1839) [Entedon] (*Pleurotropis isomerus* Foerster, 1861; *Semiotellus nigripes* Lindeman, 1887). Primary endoparasitoid of dipterans from the family Agromyzidae, Cecidomyiidae, Chloropidae and Ephydriidae. Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, N America, New Zealand.
- Pediobius eubius** (Walker, 1839) [Entedon] (*Elachestus angularis* Foerster, 1841; *Pleurotropis nitifrons* Thomson, 1878; *P. utahensis* Crawford, 1913; *P. longus* Girault, 1916; *Amestocharis perdubius* Girault, 1917). Primary parasitoid of various *Tetramesa* spp. (Hymenoptera: Eurytomidae). Russia: **EP** (NW, C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Yemen, Afghanistan, Mongolia, China (NC, CC, SE), Korean Peninsula, Japan (Hok), N America.
- Pediobius facialis** (Giraud, 1863) [Pleurotropis] (*Entedon albitarsis* Ashmead, 1888; *Pseudacrias sexdentatus* Girault, 1916; *Pleurotropis olethreutidis* Gahan, 1932; *Pediobius albae* Erdős, 1961; *P. sinensis* Sheng and Wang, 1994). Parasitoid of numerous lepidopterans, mainly Tortricidae and dipterans from the families Cecidomyiidae and Chloropidae. Russia: **EP** (NC), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Yemen, China (CC), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu), N America, Cuba.
- Pediobius fastigatus** Kamijo, 1983. Russia: **FE** (SA). – China (NC, SE), Korean Peninsula, Japan (Hok).
- Pediobius flaviscapus** (Thomson, 1878) [Pleurotropis]. Primary endoparasitoid of leaf miners from the orders Diptera and Lepidoptera. Russia: **FE** (E). – Europe (WE, EE), Turkey, Israel, Japan.
- Pediobius foliorum** (Geoffroy, 1785) [Cynips] (*Elachestus cothurnatus* Nees, 1834; *E. gradualis* Nees, 1834; *Entedon argon* Walker, 1839; *Derostenus splendens* Cook et Davis, 1891; *Chrysocharis kraussei* Wolff, 1916). Primary or secondary parasitoid of lepidopterans from the families Lymantriidae, Notodontidae and Tortricidae; secondary parasitoid of hymenopterans from the family Eulophidae. Russia: **EP** (C, E). – Europe (WE, NE, SE, EE), Israel, China (NE), Japan (Hok, Shi), N America.
- Pediobius grunini** (Nikolskaya, 1954) [Pleurotropis]. Secondary parasitoid of dipteran *Ogcodes fumatus* Erichs. (Acroceridae) in *Clubion* sp. (Araneae). Russia: **EP** (E). – Europe (EE), Kazakhstan.
- Pediobius lysis** (Walker, 1839) [Entedon] (*Entedon corytus* Walker, 1839; *E. lysis* Walker, 1839; *E. sosarmus* Walker, 1839; *Cynips albitarsis* Fonscolombe, 1840; *Elachestus cyniphidum* Ratzeburg, 1848; *Pleurotropis cribrifrons* Thomson, 1878; *P. naso* Erdős, 1951). Primary parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Jordan, Iran.
- Pediobius metallicus** (Nees, 1834) [Eulophus] (*Entedon acantha* Walker, 1839; *Pleurotropis brevicornis* Thomson, 1878; *Pediobius dorycniellae* Erdős, 1961). Primary endoparasitoid of larvae and pupae of leaf miners from the orders Diptera and Lepidoptera; secondary parasitoid of hymenopterans from the families Braconidae, Eulophidae, Ichneumonidae and Pteromalidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Iraq, Jordan, Yemen, Pakistan, China (NC, NW, CC, SE), Korean Peninsula, Japan, N America, India, New Zealand.
- Pediobius nigritarsis** (Thomson, 1878) [Pleurotropis] (*Pleurotropis benefica* Gahan, 1921). Primary endoparasitoid of *Mayetiola destructor* Say (Diptera: Cecidomyiidae) and hymenopterans from the family Cephidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Israel, N America, India.
- Pediobius obscurellus** (Walker, 1874) [Pleurotropis]. Russia: **FE** (AM).
- Pediobius phragmitis** Bouček, 1965. Russia: **EP** (NC), **FE** (PR). – Europe (WE, EE), Azerbaijan.
- Pediobius planiventris** (Thomson, 1878) [Pleurotropis]. Primary parasitoid of hymenopterans from the genera *Eurytoma* and *Tetramesa* (Eurytomidae); secondary parasitoid of *Tetramesa fulvicollis* Walk. (Hymenoptera: Eurytomidae). Russia: **EP** (NC, CR). – Europe (WE, NE, EE).
- Pediobius polanensis** Bouček, 1965. Primary parasitoid of *Tetramesa matrana* Erdős (Hymenoptera: Eurytomidae). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE).
- Pediobius pyrgo** (Walker, 1839) [Entedon] (*Eulophus pyralidum* Audouin, 1842; *Elachestus complaniusculus* Ratzeburg, 1852; *Pleurotropis substrigosa* Thomson, 1878; *Derostenus nawai* Ashmead, 1904; *Rhopalotus chalcidiphagus* Szelenyi, 1957). Primary or secondary endoparasitoid of leaf-mining insects from the orders Coleoptera, Diptera and Lepidoptera, including *Hyphantria cunea* Drury (Arctiidae) and *Lymantria dispar* L. (Lymantriidae). Russia: **EP** (C, E, S, NC, CR), **ES** (TU), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iraq, United Arab Emirates, Iran, Korean Peninsula, Japan (Hok, Hon, Shi, Kyu), N America, SE Asia.
- Pediobius saulius** (Walker, 1839) [Entedon] (*Entedon linus* Walker, 1839; *Eulophus obscuripes* Ratzeburg, 1844; *Pleurotropis strigiscuta* Thomson, 1878; *Pediobius grandii* Ferrière, 1954). Primary or secondary endoparasitoid of leaf miners from the orders Coleoptera and Lepidoptera. Russia: **EP** (C, E, NC, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Israel, Yemen, Iran, Turkmenistan, Kazakhstan, Korean Peninsula, Japan (Hok, Hon).

Pediobius termerus (Walker, 1839) [Entedon] (*Horismenus clinus* Walker, 1844). Russia: **FE** (PR, KU). – Europe (WE, NE, EE), Korean Peninsula, Japan (Hok), N America.

Pediobius tetratomus (Thomson, 1878) [Pleurotropis]. Russia: **EP** (NC, CR), **FE** (PR). – Europe (WE, NE, EE).

Subfamily ENTIINAE

O.V. KOSHELEVA AND V.A. TRJAPITZIN

Number of taxa: World – 18 genera and 161 species, Palaearctic – 8/33, Russia – 3/13.

ASTICHUS Foerster, 1856 (*Closteroceroideus* Girault, 1913; *Closteromphale* Girault et Dodd, 1915; *Closteromyia* Girault, 1920). Species are associated with beetles in bracket fungi (Polyporales) and Curculionidae (Scolytinae). Type species: *Euderus arithmeticus* Foerster, 1851. Cosmopolitan. Number of species: World – 30, Palaearctic – 12, Russia – 1.

Astichus tauricus Bouček, 1963. Russia: **EP** (NC, CR). – Europe.

EUDERUS Haliday, 1844 (*Omphalomorpha* Girault, 1913; *Secodella* Girault, 1913; *Secodes* Girault, 1913; *Allomphale* Silvestri, 1914; *Secodelloidea* Girault, 1917; *Secodoidea* Gahan and Fagan, 1923; *Pareuderus* Ferrière, 1931). Type species: *Entedon amphis* Walker, 1839 (= *Entedon albitarsis* Zetterstedt, 1838). Cosmopolitan. Number of species: World – 78, Palaearctic – 20, Russia – 10.

Euderus agrili Bouček, 1963. Primary endoparasitoid of *Agrius* sp. (Coleoptera: Buprestidae). Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE), Turkey, Tajikistan, Kyrgyzstan.

Euderus albitarsis (Zetterstedt, 1838) [Entedon] (*Entedon amphis* Walker, 1839; *E. mithras* Walker, 1839). Primary parasitoid of insects from the orders Lepidoptera, Coleoptera, Diptera, Hymenoptera and Hemiptera. Russia: **EP** (C, E, NC), **FE** (PR, CH). – Europe (WE, NE, SE, EE), Israel, Yemen, Tajikistan, Kyrgyzstan, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), N America, India.

Euderus arenarius Erdős, 1951. Russia: **EP** (NC). – Europe (SE, EE).

Euderus brevicornis Bouček, 1963. Russia: **EP** (E, NC). – Europe (NE, SE, EE), Georgia, Turkey, Kyrgyzstan.

Euderus caudatus Thomson, 1878. Primary parasitoid of *Saperda carcharias* L. and *S. populnea* L. (Coleoptera: Cerambycidae). Russia: **EP** (C, E, NC). – Europe (NE, SE, EE), N America.

Euderus jezoensis Ishii, 1938. Primary parasitoid of *Scolytus* sp. (Coleoptera: Curculionidae: Scolytinae). Russia: **FE** (SA). – Japan (Hok).

Euderus lindemani Fursov, 1997. Parasitoid of *Scolytus kirschi* Skal. (Coleoptera: Curculionidae: Scolytinae). Russia: **EP** (S). – Kazakhstan.

Euderus palustris Erdős, 1951. Russia: **EP** (E, NC). – Europe (EE), Turkey, Yemen, Turkmenistan, Tajikistan, Kyrgyzstan.

Euderus ussuriensis (Storozheva, 1987) [Secodelloidea]. Russia: **FE** (PR).

Euderus viridis Thomson, 1878. Russia: **EP** (N), **UR**, **ES** (YA), **FE** (PR). – Europe (WE, NE, SE, EE), Tajikistan.

PARASECODES Mercet, 1924. Type species: *Parasecodes simulans* Mercet, 1924. The genus is only distributed in the Palaearctic region. Number of species: World, Palaearctic and Russia – 2.

Parasecodes longigaster Efremova and Shroll, 1996. Russia: **EP** (E). – Kazakhstan.

Parasecodes simulans Mercet, 1924. Primary parasitoid of *Ionescumia* sp. (Diptera: Cecidomyiidae), *Coleophora dormiens* Flkv. and *C. tshogoni* Flkv. (Lepidoptera: Coleophoridae). Russia: **EP** (S, NC). – Europe (SE), N Africa, Azerbaijan, Turkmenistan, Kazakhstan.

Subfamily TETRASTICHINAE

E.N. YEGORENKOVA AND V.V. KOSTJUKOV

The subfamily includes medium-sized eulophids (from less than 1.0 mm to 3.0 mm). Antenna with 3–4 funicular segments, sometimes with ramus; scutellum usually with two pairs of setae, with submedian and sublateral grooves; fore wing with submarginal vein usually not smoothly continuous with the parastigma; postmarginal vein absent or stump-shaped.

Tetrastichinae attack eggs, larvae and pupae of various insects belonging to the orders Coleoptera, Diptera, Hymenoptera, Lepidoptera and Neuroptera. They are usually endo-, rarely ectoparasitoids, solitary or gregarious; hyperparasitism occurs in some cases (particularly in the genera *Baryscapus* or *Tetrastichus*) and may be obligate or facultative (Graham, 1987).

The subfamily is distributed worldwide. Number of taxa: World – 110 genera and 1967 species, Palaearctic – 39/957, Russia – 19/453.

APROSTOCETUS Westwood, 1833 (*Geniocerus* Ratzeburg, 1848; *Myiomisa* Rondani, 1877; *Syntomosphyrum* Foerster, 1878; *Tetrastichodes* Ashmead, 1887; *Blattotetrastichus* Girault, 1917; *Gyrolachnus* Erdős, 1954; *Pachyscapus* Erdős, 1954). Type species: *Aprostocetus caudatus* Westwood, 1833. Number of species: World – more than 780, Palaearctic – 350, Russia – 177.

Aprostocetus aartseni Graham, 1987. Russia: **EP** (NC). – Europe (SE).

Aprostocetus abiarum (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NC). – Kazakhstan.

Aprostocetus absintium (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S, NC).

- Aprostocetus aega** (Walker, 1839) [Cirrospilus]. Parasitoid of *Dasineura glechomae* Kieff. (Cecidomyiidae). Russia: **EP** (E, NC), **FE** (PR). – Europe (WE).
- Aprostocetus aethiops** (Zetterstedt, 1838) [Entedon]. Parasitoid of coleopterans from the family Chrysomelidae (Bruchinae), dipterans from the family Cecidomyiidae and hymenopterans from the families Cynipidae, Eurytomidae and Pteromalidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE).
- Aprostocetus agrus** (Walker, 1839) [Cirrospilus]. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey.
- Aprostocetus alveatus** (Graham, 1961) [Tetrastichus]. Parasitoid of the dipteran *Massalongia rubra* Kieff. (Cecidomyiidae) and hymenopteran *Rhodites mayri* Kieff. (Cynipidae). Russia: **EP** (E). – Europe (WE, NE, EE), Afghanistan.
- Aprostocetus andalusicus** Graham, 1987. Parasitoid of *Plagiotrochus* sp. (Cynipidae). Russia: **EP** (E). – Europe (SE).
- Aprostocetus annulatus** (Foerster, 1861) [Geniocerus]. Parasitoid of the dipteran *Asphondylia sarothamni* Loew (Cecidomyiidae), hemipterans *Eulecanium corni* Bouché and *Sphaerolecanium prunastri* Fonsc. (Coccidae). Russia: **EP** (C, E, NC). – Europe (WE, NE, EE).
- Aprostocetus anodaphus** (Walker, 1839) [Cirrospilus]. Parasitoid of the dipteran *Rhopalomyia ptarmicae* Vallot (Cecidomyiidae). Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE).
- Aprostocetus apiculatus** Graham, 1987. Russia: **EP** (NC). – Europe (WE, NE, EE).
- Aprostocetus aquaticus** (Erdős, 1954) [Geniocerus]. Russia: **FE** (PR). – Europe (WE, NE, EE).
- Aprostocetus aquilus** Graham, 1987. Parasitoid of *Dasineura trifolii* Loew (Cecidomyiidae). Russia: **EP** (E, NC). – Europe (WE).
- Aprostocetus arenarius** (Erdős, 1954) [Geniocerus]. Russia: **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus aristaeus** (Walker, 1839) [Cirrospilus] (*Tetrastichus confuses* Foerster, 1861; *T. seticollis* Thomson, 1878). Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus arrabonicus** (Erdős) [Baryscapus]. Larva on *Alopecurus pratensis* (Poaceae). Russia: **EP** (E). – Europe (WE, NE, EE).
- Aprostocetus arsenjevi** (Kostjukov, 1990) [Tetrastichus] (*Aprostocetus primoricus* Özdikmen, 2011). Russia: **FE** (KA).
- Aprostocetus artemisiae** (Erdős, 1954) [Geniocerus]. Parasitoid of *Rhopalomyia baccarum* Wach. (Cecidomyiidae). Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus artemisicola** Graham, 1987. Parasitoid of *Contarinia artemisiae* Rübsaamen. (Cecidomyiidae). Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE), Iran.
- Aprostocetus arvus** Yefremova et Yegorenkova, 2005. Russia: **EP** (E).
- Aprostocetus assuetus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NC). – Kazakhstan.
- Aprostocetus baeri** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S, NC).
- Aprostocetus bakkendorfi** Graham, 1987. Larva on *Astragalus glycyphyllos* (Fabaceae). Russia: **EP** (E). – Europe (WE, NE).
- Aprostocetus biorrhizae** (Szelényi, 1941) [Tetrastichus]. Parasitoid of hymenopterans from the family Cynipidae. Russia: **FE** (PR). – Europe (WE, SE, EE).
- Aprostocetus beringi** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (KH, PR).
- Aprostocetus blandus** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus brachycerus** (Thomson, 1878) [Tetrastichus]. Parasitoid of dipterans from the family Cecidomyiidae and lepidopterans from the family Nepticulidae. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, EE).
- Aprostocetus bromi** (Kostjukov, 1978) [Tetrastichus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E). – Europe (EE), S America.
- Aprostocetus bruzzonis** (Masi, 1930) [Tetrastichus]. Parasitoid of coleopterans from the family Chrysomelidae. Russia: **EP** (NC), **UR**, **FE** (PR). – Europe (WE, EE), Canada.
- Aprostocetus calamarius** Graham, 1961. Parasitoid of *Giraudiella inclusa* Frauenfeld, *Lasioptera arundinis* Schiner and *Thomasiella arundinis* Schiner (Cecidomyiidae). Russia: **EP** (NW, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus calvus** (Domenichini, 1965) [Tetrastichus]. Parasitoid of *Loboptera decipiens* Germ. (Blattellidae) and *Zeuxevania splendidula* Costa (Evaniidae). Russia: **EP** (E). – Europe (WE, NE).
- Aprostocetus capitigenae** Graham, 1987. Parasitoid of *Bayseria capitigena* Br. (Cecidomyiidae). Russia: **EP** (E, NC), **FE** (PR). – Europe (WE).
- Aprostocetus capnopterus** Graham, 1987. Russia: **EP** (NC). – Europe (SE).
- Aprostocetus catius** (Walker, 1839) [Cirrospilus]. Russia: **EP** (NC). – Europe (WE, NE, EE), Turkey.
- Aprostocetus caudatus** Westwood, 1833 (*Cirrospilus mutillia* Walker, 1839; *Tetrastichus crassicauda* Thomson, 1878). Parasitoid of *Dasineura alopecuri* Reut. (Cecidomyiidae). Russia: **EP** (C, E, NC), **FE** (KH, PR). – Europe (WE, SE, EE), Turkey.
- Aprostocetus cecidomyiarum** (Bouché, 1834) [Eulophus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus celtidis** (Erdős, 1954) [Geniocerus]. Parasitoid of coleopterans from the family Chrysomelidae and lepidopterans from the family Gracillariidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus cerricola** (Erdős, 1954) [Geniocerus]. Parasitoid of *Andricus grossulariae* Gir. (Cynipidae) and *Macrodiplosis dryobia* Loew (Cecidomyiidae). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE).

- Aprostocetus chakassicus** (Dolgin et Kostjukov, 1987) [Tetrastichus]. Parasitoid of *Dasineura rozhkovi* Mam. et Nikolsky (Cecidomyiidae). Russia: **EP** (N), **ES** (KS), **FE** (PR).
- Aprostocetus chara** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S).
- Aprostocetus chvalynicus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S, NC).
- Aprostocetus ciliatus** (Nees, 1834) [Eulophus]. Parasitoid of *Rabdophaga heterobia* Loew (Cecidomyiidae). Russia: **EP** (C, E, S, NC), **FE** (PR). – Europe (WE, SE, EE).
- Aprostocetus citrinus** (Foerster, 1841) [Eulophus] (*Tetrastichus varius* Thomson, 1878). Parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **FE** (PR). – Europe (WE, NE, EE), China.
- Aprostocetus citripes** (Thomson, 1878) [Tetrastichus] (*Tetrastichus dytisciarum* Kostjukov et Fursov, 1997). Parasitoid of coleopterans from the family Dytiscidae and lepidopterans from the family Lasiocampidae. Russia: **EP** (C, E), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus citritibialis** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S).
- Aprostocetus clavicornis** (Zetterstedt, 1838) [Entedon] (*Cirrospilus euedochus* Walker, 1839; *C. lamius* Walker, 1839). Parasitoid of dipterans from the family Cecidomyiidae and hemipterans from the families Aphididae and Diaspididae. Russia: **EP** (E, NC). – Europe (WE, NE, EE).
- Aprostocetus crino** (Walker, 1838) [Cirrospilus] (*Tetrastichus dispar* Silvestri, 1920; *T. oecanthivorus* Gahan, 1932; *T. dubius* Bakkendorf, 1955). Parasitoid of lepidopterans from the family Yponomeutidae and orthopterans from the family Gryllidae. Russia: **EP** (C, E, S, NC), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey, China, USA.
- Aprostocetus defimbriatus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NC). – Kazakhstan.
- Aprostocetus dezhevi** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (PR).
- Aprostocetus diversus** (Foerster, 1841) [Eulophus] (*Tetrastichus abydenus* Walker, 1848). Parasitoid of coleopterans from the family Curculionidae, dipterans from the family Cecidomyiidae and lepidopterans from the families Gracillariidae and Lyonetiidae. Russia: **EP** (C, E, S, NC), **FE** (PR). – Europe (WE, NE, EE), China.
- Aprostocetus domenichinii** (Erdős, 1969) [Tetrastichus]. Parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **EP** (E, NC). – Europe (WE, EE).
- Aprostocetus emesa** (Walker, 1839) [Cirrospilus] (*Cirrospilus antei* Walker, 1839; *C. deipyrus* Walker, 1839; *C. rabirius* Walker, 1839). Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, EE).
- Aprostocetus epicharmus** (Walker, 1839) [Cirrospilus] (*Cirrospilus vincius* Walker, 1839; *Tetrastichus variegatus* Szélényi, 1941). Parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **EP** (C, E, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus epilobii** Graham, 1987. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E). – Europe (WE, NE, EE).
- Aprostocetus eriophyes** (Taylor, 1909) [Tetrastichus]. Parasitoid of mites from the family Eriophyidae. Russia: **EP** (C). – Europe (WE, NE, SE), Turkey.
- Aprostocetus ermaki** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (PR).
- Aprostocetus escherichi** (Szélényi, 1941) [Tetrastichus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E), **FE** (PR). – Europe (WE, EE).
- Aprostocetus eupatorii** Kurdjumov, 1913. Russia: **EP** (NC), **FE** (PR). – Europe (WE, SE, EE), China.
- Aprostocetus eurystoma** Graham, 1961. Russia: **EP** (E, NC). – Europe (NE).
- Aprostocetus extensus** Graham, 1987. Russia: **EP** (NC). – Europe (WE).
- Aprostocetus facetus** (Trjapitzin et Kostjukov, 1986) [Tetrastichus]. Russia: **EP** (NC).
- Aprostocetus flavicapitus** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus flavimetanotum** Yefremova et Yegorenkova. Russia: **EP** (E).
- Aprostocetus flavirictus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S).
- Aprostocetus flumeneus** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus fonscolombeii** Graham, 1987. Russia: **EP** (E, NC). – Europe (WE, SE, EE).
- Aprostocetus forsteri** (Walker, 1847) [Eulophus]. Parasitoid of dipterans from the family Tephritidae and hymenopterans from the family Cynipidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Aprostocetus fulvipes** (Foerster, 1878) [Syntomosphyrum] (*Tetrastichus astichus* Thomson, 1878). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE).
- Aprostocetus gaus** (Walker, 1839) [Cirrospilus] (*Cirrospilus asopus* Walker, 1839; *C. orsedice* Walker, 1839; *C. tenerus* Walker, 1839). Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E). – Europe (WE, NE, EE).
- Aprostocetus gnomus** Graham, 1987. Russia: **FE** (PR). – Europe (SE).
- Aprostocetus grandicauda** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus grandii** (Domenichini, 1965) [Tetrastichus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E), **FE** (PR). – Europe (WE, SE, EE).
- Aprostocetus gratus** (Giraud, 1863) [Tetrastichus] (*Tetrastichus deplanatus* Thomson, 1877; *T. thomsonii* Dalla Torre, 1898; *T. badulini* Kostjukov, 1978). Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, S, NC), **FE** (PR). – Europe (WE, SE, EE), China.
- Aprostocetus grylli** (Erdős, 1954) [Geniocerus]. Russia: **EP** (NC). – Europe (SE, EE).

- Aprostocetus habarovi** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (KH, PR).
- Aprostocetus hagenowii** (Ratzeburg, 1852) [Entedon] (*Ela-chistus aequalis* Walker, 1872; *Epitetrastichus longfel-lowi* Girault, 1913; *Epomphaloides viridis* Girault, 1913). Parasitoid of coleopterans from the family Curculionidae (Scolytidae) and dictyopterans from the families Blaberidae, Blattellidae and Blattidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Israel, Saudi Arabia, Japan, N America, India, Malaysia, Afrotropics, S America, Australia.
- Aprostocetus hanka** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus hyperfuniculus** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus ibericus** Graham, 1987. Russia: **EP** (E, NC). – Europe (NE, SE).
- Aprostocetus incassatus** Graham, 1961. Russia: **EP** (E, NC). – Europe (WE, NE).
- Aprostocetus interjectus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NW).
- Aprostocetus krusenschterni** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus larzacensis** Graham, 1987. Russia: **EP** (E). – Europe (WE, NE, EE).
- Aprostocetus leptoneuros** (Ratzeburg, 1844) [Eulophus]. Parasitoid of hemipterans from the family Kermesidae and lepidopterans from the family Tortricidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Aprostocetus leucone** (Walker, 1839) [Cirrospilus] (*Eulophus longicaudatus* Foerster, 1841; *Tetrastichus dolichurus* Thomson, 1878). Russia: **EP** (NC), **FE** (PR). – Europe (WE, SE, EE).
- Aprostocetus levadiensis** Graham, 1987. Russia: **EP** (NC). – Europe (NE, SE), Turkey.
- Aprostocetus ligus** (Walker, 1839) [Cirrospilus] (*Cirrospilus oxathres* Walker, 1839). Russia: **EP** (E). – Europe (WE, NE).
- Aprostocetus longicauda** (Thomson, 1878) [Tetrastichus]. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, USA.
- Aprostocetus longiclava** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus longipectus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S).
- Aprostocetus longiscapus** (Thomson, 1878) [Tetrastichus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (C). – Europe (WE, NE, EE).
- Aprostocetus longispinis** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus longistigma** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus longulus** (Erdős, 1954) [Gyrolachnus]. Russia: **FE** (PR). – Europe (EE).
- Aprostocetus lysippe** (Walker, 1839) [Cirrospilus] (*Cirrospilus achaemenes* Walker, 1839). Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, NC). – Europe (WE, NE, EE).
- Aprostocetus malagensis** Graham, 1987. Russia: **EP** (E, NC). – Europe (SE).
- Aprostocetus mandanis** (Walker, 1839) [Cirrospilus] (*Anel-laria conomeli* Bakkendorf, 1934). Parasitoid of hemipterans from the family Delphacidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus menius** (Walker, 1839) [Cirrospilus]. Russia: **EP** (E, NC). – Europe (WE, SE, EE).
- Aprostocetus meridionalis** Graham, 1987. Russia: **EP** (E, NC). – Europe (WE, NE, SE).
- Aprostocetus meroe** Graham, 1987. Russia: **EP** (E, NC). – Europe (WE, NE).
- Aprostocetus metra** (Walker, 1839) [Cirrospilus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus micantulus** (Thomson, 1878) [Tetrastichus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus microocellus** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus microscopicus** (Rondani, 1877) [Myiomisa]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, NC). – Europe (WE, SE, EE), USA.
- Aprostocetus minimus** (Ratzeburg, 1848) [Geniocerus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE), China.
- Aprostocetus mycerinus** (Walker, 1839) [Cirrospilus] (*Aprostocetus quadriannulatus* Kurdjumov, 1913; *Tetrastichus acuminatellus* Erdős, 1969). Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), China.
- Aprostocetus natans** (Kostjukov et Fursov, 1997) [Tetrastichus]. Russia: **EP** (C), **FE** (PR). – Europe (EE).
- Aprostocetus neglectus** (Domenichini, 1957) [Tetrastichus]. Parasitoid of coleopterans from the family Coccinellidae and hymenopterans from the family Aphidiidae. Russia: **EP** (NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, Pakistan, India.
- Aprostocetus nigricitrinus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (E, S, NC).
- Aprostocetus obliquus** Graham, 1987. Russia: **FE** (PR). – Europe (WE, NE).
- Aprostocetus occidentalis** Graham, 1987. Russia: **EP** (E). – Europe (SE).
- Aprostocetus oculisetatus** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus oreophilus** (Foerster, 1861) [Tetrastichus]. Parasitoid of coleopterans from the family Chrysomelidae and of hymenopterans from the family Cynipidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus orithyia** (Walker, 1839) [Cirrospilus] (*Tetrastichus arundinis* Giraud, 1863). Parasitoid of dipterans from the families Cecidomyiidae and Chloropidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, EE).
- Aprostocetus ovivorax** (Silvestri, 1920) [Tetrastichus]. Parasitoid of orthopterans from the family Gryllidae. Russia: **EP** (E, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
- Aprostocetus pachyneuros** (Ratzeburg, 1844) [Eulophus]. Parasitoid of hemipterans from the family Kermesidae. Russia: **EP** (NW), **FE** (PR). – Europe (WE, EE).

- Aprostocetus pallidipedes** Kostjukov, 1995. Russia: **FE** (PR).
Aprostocetus pallidiventris (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S).
Aprostocetus pallipes (Dalman, 1820) [Entedon] (*Cirrospilus faucula* Walker, 1839; *C. orodes* Walker, 1839; *C. sucro* Walker, 1839; *Entedon pallidipes* Dalla Torre, 1898). Parasitoid of dipterans from the family Cecidomyiidae and lepidopterans from the family Eriocraniidae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Japan, Canada.
Aprostocetus paluster (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NW, E).
Aprostocetus pantschenkoi (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (C, S), **FE** (PR).
Aprostocetus pausiris (Walker, 1839) [Cirrospilus] (*Cirrospilus anticlea* Walker, 1839; *C. cyrrhus* Walker, 1839). Parasitoid of dipterans from the families Cecidomyiidae and Chloropidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Canada.
Aprostocetus peischula Kurdjumov, 1955. Russia: **FE** (PR).
Aprostocetus percaudatus (Silvestri, 1920) [Tetrastichus] (*Terebratella indica* Shafee et Rizvi, 1985). Parasitoid of orthopterans from the family Gryllidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, SE, EE), India.
Aprostocetus perone Graham, 1987. Russia: **EP** (E). – Europe (WE, NE).
Aprostocetus phineus (Walker, 1839) [Cirrospilus]. Russia: **EP** (NC), **FE** (PR). – Europe (NE, EE).
Aprostocetus phragmiticola Graham, 1987. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (PR). – Europe (WE, NE, EE).
Aprostocetus phragmitinus (Erdős, 1954) [Geniocerus]. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, EE).
Aprostocetus polygoni (Erdős, 1954) [Geniocerus]. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, EE).
Aprostocetus popovi Kostjukov, 1995. Russia: **FE** (PR).
Aprostocetus populi (Kurdjumov, 1913) [Geniocerus]. Parasitoid of hemipterans from the family Aphididae. Russia: **EP** (E). – Europe (EE).
Apotetrastichus postmarginalis (Bouček, 1971) [Tetrastichus]. Parasitoid of dipterans from the family Agromyzidae, hemipterans from the family Aphididae, lepidopterans from the families Gracillariidae and Nepticulidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).
Aprostocetus productus Graham, 1987. Russia: **EP** (E, NC). – Europe (WE, NE), Turkey.
Aprostocetus pseudopodiellus (Bakkendorf, 1953) [Tetrastichus]. Parasitoid of dragonflies from the family Lestidae. Russia: **FE** (PR). – Europe (NE, EE).
Aprostocetus ptarmicae Graham, 1987. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E). – Europe (WE, SE).
Aprostocetus pygmaeus (Zetterstedt, 1838) [Entedon] (*Cirrospilus conon* Walker, 1839; *C. deioces* Walker, 1839; *C. sandace* Walker, 1839; *C. xixuthrus* Walker, 1839; *C. zenocia* Walker, 1839; *Tetrastichus triarius* Walker, 1848; *T. obscuripes* Thomson, 1878). Parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the families Apidae and Cynipidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Canada.
Aprostocetus rebezae (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S, NC).
Aprostocetus rhacius (Walker, 1839) [Cirrospilus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, NC). – Europe (WE, NE).
Aprostocetus rhipheus (Walker, 1839) [Cirrospilus] (*Cirrospilus anyta* Walker, 1839). Russia: **EP** (E, NC). – Europe (WE, NE, EE).
Aprostocetus rimskykorsakovi (Kostjukov et Fursov, 1997) [Tetrastichus]. Russia: **EP** (C), **FE** (PR).
Aprostocetus roesellae (Nees, 1834) [Eulophus] (*Tetrastichus deplanatus* Walker, 1874). Parasitoid of dipterans from the family Cecidomyiidae, hymenopterans from the family Eurytomidae and lepidopterans from the family Yponomeutidae. Russia: **EP** (E, NC), **FE** (AM, KH). – Europe (WE, NE, EE).
Aprostocetus rozanovi (Kostjukov, 2006) [Tetrastichus] (*Tetrastichus mirus* Kostjukov, 1978). Russia: **EP** (S).
Aprostocetus rubi Graham, 1987. Parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cynipidae. Russia: **FE** (PR). – Europe (WE, NE, EE).
Aprostocetus rubicola Graham, 1987. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (PR). – Europe (WE, NE).
Aprostocetus rufus (Bakkendorf, 1953) [Tetrastichus] (*Aprostocetus cupratus* Erdős, 1958). Parasitoid of coleopterans from the family Dytiscidae. Russia: **EP** (E). – Europe (WE, EE, NE).
Aprostocetus rumicis Graham, 1987. Parasitoid of coleopterans from the family Apionidae. Russia: **EP** (E, NC). – Europe (WE).
Aprostocetus schambala Kostjukov, 2000. Russia: **FE** (PR).
Aprostocetus scoticus Graham, 1987. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E). – Europe (WE).
Aprostocetus serratularum Graham, 1987. Parasitoid of dipterans from the family Tephritidae and lepidopterans from the family Gelechiidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE).
Aprostocetus shuvakhinae Kostjukov, 2013. Russia: **EP** (NC).
Aprostocetus sibiricus (Kostjukov, 1976) [Tetrastichus]. Parasitoid of hemipterans from the family Coccidae. Russia: **ES** (IR), **FE** (PR).
Aprostocetus silvestris Kostjukov, 1995. Russia: **FE** (PR).
Aprostocetus spassk Kostjukov, 1995. Russia: **FE** (PR).
Aprostocetus specularis Graham, 1987. Russia: **EP** (E). – Europe (WE).
Aprostocetus strobilanae (Ratzeburg, 1844) [Eulophus] (*Trichoceras erythrophthalmus* Ratzeburg, 1844). Parasitoid of dipterans from the family Cecidomyiidae and

- lepidopterans from the family Tortricidae. Russia: **EP** (NW), **UR**, **ES** (KS, KR), **FE** (PR). – Europe (WE, NE, SE, EE), Canada.
- Aprostocetus subanellatus** Graham, 1961. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, EE).
- Aprostocetus suevius** (Walker, 1839) [Cirrospilus]. Parasitoid of coleopterans from the family Chrysomelidae. Russia: **EP** (NW, NC), **FE** (KH, PR). – Europe (WE, NE, SE, EE).
- Aprostocetus taiga** Kostjukov, 1995. Russia: **FE** (PR).
- Aprostocetus tanaceticola** Graham, 1987. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC). – Europe (WE, NE).
- Aprostocetus taxi** Graham, 1987. Russia: **EP** (E, NC). – Europe (WE, NE, EE).
- Aprostocetus tenuiradialis** Graham, 1987. Russia: **EP** (E, NC). – Europe (WE, NE, EE).
- Aprostocetus terebrans** Erdős, 1954. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, EE), Turkey, USA.
- Aprostocetus torquentis** Graham, 1987. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **FE** (PR). – Europe (WE, NE), China.
- Aprostocetus trjapitzini** (Kostjukov, 1976) [Tetrastichus]. Parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW), **WS** (AL), **ES** (IR, BR), **FE** (PR). – Europe (WE, NE, EE), Turkey, Tajikistan, Uzbekistan, Kazakhstan.
- Aprostocetus tymber** (Walker, 1839) [Cirrospilus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey.
- Aprostocetus varius** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S).
- Aprostocetus venustus** (Gahan, 1914) [Tetrastichus] (*Tetrastichus aneurytus* Erdős, 1969). Parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the families Cynipidae and Eurytomidae. Russia: **EP** (E, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Canada.
- Aprostocetus verutus** Graham, 1961. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE), China.
- Aprostocetus vicinus** Kostjukov, 1995. Russia: **EP** (C), **FE** (PR).
- Aprostocetus viridinitens** Graham, 1987. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, EE).
- Aprostocetus volgodonicus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S).
- Aprostocetus wrangeli** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (PR).
- Aprostocetus xania** (Kostjukov, 1978) [Tetrastichus]. Russia: **UR**. – Kazakhstan.
- Aprostocetus xanthopus** (Nees, 1834) [Eulophus] (*Eulophus pallipes* Hartig, 1838; *Ichneumon hylesinorum* Ratzeburg, 1844; *Tetrastichus mokrzejckii* Kurdjumov, 1912). Parasitoid of coleopterans from the family Curculionidae (Scolytinae) and lepidopterans from the families Lasiocampidae and Lymantriidae. Russia: **EP** (C, NC), **WS** (NS), **ES** (KR). – Europe (WE, NE, EE).
- Aprostocetus zerovae** (Kostjukov et Fursov, 1997) [Tetrastichus]. Russia: **EP** (C), **FE** (PR).
- Aprostocetus zoilus** (Walker, 1839) [Cirrospilus]. Parasitoid of lepidopterans from the family Gracillariidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, EE).
- Aprostocetus zosimus** (Walker, 1839) [Cirrospilus] (*Cirrospilus abantidas* Walker, 1839; *C. athyrte* Walker, 1839; *C. bunus* Walker, 1839; *C. chares* Walker, 1839; *C. hysistus* Walker, 1839; *C. molo* Walker, 1839; *C. simo* Walker, 1839; *C. charoba* Walker, 1840; *C. zopyrus* Walker, 1840; *Tetrastichus flavimanus* Thomson, 1878; *T. punctiscuta* Thomson, 1878; *T. carinatus* Forbes, 1885; *T. rileyi* Lindeman, 1887; *Geniocerus tenuis* Erdős, 1954). Parasitoid of dipterans from the family Cecidomyiidae, hymenopterans from the family Cynipidae and lepidopterans from the families Coleophoridae and Lyonetiidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Iran, Canada, USA, New Zealand.
- BARYSCAPUS** Foerster, 1856 (*Thripasoma* Crawford, 1913; *Tetrastichopsis* Girault, 1916; *Eutetrastichus* Kostjukov, 1977). Type species: *Baryscapus centricolae* Ashmead, 1887. Parasitoids of insects from the orders Coleoptera, Diptera, Homoptera, Hymenoptera, Lepidoptera and Neuroptera. Number of species: World – 128, Palearctic – 84, Russia – 42.
- Baryscapus adalia** (Walker, 1839) [Cirrospilus] (*Tetrastichus crassinervis* Thomson, 1878). Parasitoid of coleopterans from the family Curculionidae, dipterans from the family Agromyzidae and lepidopterans from the families Lyonetiidae and Yponomeutidae. Russia: **EP** (C, E, NC). – Europe (WE, SE, EE), Turkey.
- Baryscapus agrilorum** (Ratzeburg, 1844) [Eulophus]. Parasitoid of coleopterans from the family Buprestidae. Russia: **EP** (C, E, NC). – Europe (WE, SE, EE).
- Baryscapus berhidanus** Erdős, 1954. Parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Turkey, Israel.
- Baryscapus bruchidii** (Erdős, 1951) [Geniocerus]. Parasitoid of coleopterans from the family Chrysomelidae (Bruchinae) and lepidopterans from the family Tortricidae; hyperparasitoid of *Oncophanes lanceolator* Nees (Braconidae) and *Scambus calobatus* Grav. (Ichneumonidae). Russia: **EP** (E, NC). – Europe (EE), Turkey.
- Baryscapus bruchivorus** (Gahan, 1942) [Tetrastichus]. Parasitoid of coleopterans from the family Buprestidae. Russia: **EP** (NC). – Europe (WE, SE), Turkey, USA.
- Baryscapus bruchophagi** (Gahan, 1913) [Tetrastichus]. Parasitoid of coleopterans from the families Apionidae and Curculionidae, dipterans from the families Agromyzidae and Cecidomyiidae and hymenopterans from the family Eurytomidae. Russia: **EP** (C, E, S, NC), **FE** (PR,

- KA). – Europe (WE, NE, SE, EE), N America, Afro-tropics, S America.
- Baryscapus carthami** Graham, 1991. Parasitoid of dipterans from the family Tephritidae. Russia: **EP** (E). – Europe (SE, EE).
- Baryscapus cimbiciphillus** (Kostjukov, 1976) [Tetrastichus]. Parasitoid of hymenopterans from the family Cimbicidae. Russia: **WS** (AL).
- Baryscapus cirsicola** Graham, 1991. Larva on *Cirsium vulgare* (Asteraceae). Russia: **EP** (E, NC). – Europe (WE), Turkey.
- Baryscapus crassicornis** (Erdős, 1954) [Geniocerus]. Parasitoid of coleopterans from the family Curculionidae and dipterans from the family Tephritidae. Russia: **EP** (E, NC). – Europe (WE, SE, EE), Turkey, Israel.
- Baryscapus दौरа** (Walker, 1839) [Cirrospilus] (*Aprostocetus canadensis* Ashmead, 1888; *A. cirsii* Kurdjumov, 1913). Parasitoid of dipterans from the families Cecidomyiidae and Tephritidae and hymenopterans from the family Apidae. Russia: **EP** (NW, C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Canada, USA, Argentina.
- Baryscapus diaphantus** (Walker, 1839) [Cirrospilus] (*Tetrastichus terminalis* Thomson, 1878). Parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE).
- Baryscapus elasmii** (Graham, 1986) [Tetrastichus]. Parasitoid of hymenopterans from the family Vespidae. Russia: **EP** (E). – Europe (WE, EE).
- Baryscapus embolicus** (Kostjukov, 1977) [Tetrastichus]. Russia: **EP** (E, S, NC). – Europe (SE).
- Baryscapus endemus** (Walker, 1839) [Cirrospilus] (*Tetrastichus decius* Walker, 1863; *Geniocerus tibialis* Kurdjumov, 1913; *Tetrastichus encyrti* Ferrière, 1926; *T. orchestidis* Bukovskii, 1938; *T. cioni* Erdős, 1971; *T. femoralis* Erdős, 1971). Parasitoid of coleopterans from the family Curculionidae, hemipterans from the families Coccidae and Kermesidae, hymenopterans from the family Eurytomidae and lepidopterans from the families Coleophoridae, Geometridae, Gracillariidae, Heterogynidae, Noctuidae, Notodontidae, Oecophoridae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, E, NC, CR). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Baryscapus endofticus** (Domenichini, 1958) [Tetrastichus]. Parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (NW, C, E). – Europe (SE).
- Baryscapus euphorbiae** Graham, 1991. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E, NC). – Europe (WE, NE), Turkey.
- Baryscapus evonymellae** (Bouché, 1834) [Eulophus] (*Entedon cribrellae* Rondani, 1877). Parasitoid of hymenopterans from the family Cynipidae and lepidopterans from the families Lasiocampidae and Yponomeutidae. Russia: **EP** (N, C, E, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kyrgyzstan, USA.
- Baryscapus fossarum** Graham, 1991. Parasitoid of lepidopterans from the family Momphidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Turkey.
- Baryscapus garganus** (Domenichini, 1958) [Tetrastichus]. Primary parasitoid of *Lixus iridis* Oliv. (Coleoptera: Curculionidae). Russia: **EP** (NC). – Europe (WE, SE), Turkey.
- Baryscapus galactopus** (Ratzeburg, 1844) [Eulophus] (*Eulophus vinulae* Ratzeburg, 1844; *Tetrastichus lisso-notus* Möller, 1886). Parasitoid of dipterans from the family Agromyzidae and lepidopterans from the families Lymantriidae, Notodontidae, Pieridae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, E, NC), **UR**, **WS** (NS). – Europe (WE, NE, SE, EE), Turkey, USA, India, Afrotropics, Australia, New Zealand.
- Baryscapus garganus** (Domenichini, 1958) [Tetrastichus]. Parasitoid of coleopterans from the family Curculionidae and dipterans from the family Tephritidae. Russia: **EP** (NC). – Europe (WE, SE), Turkey.
- Baryscapus globosiclava** Graham, 1991. Russia: **EP** (E, NC). – Europe (SE).
- Baryscapus gradwelli** Graham, 1991. Parasitoid of dipterans from the family Tephritidae and hymenopterans from the family Cynipidae. Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE).
- Baryscapus hylesini** Graham, 1991. Parasitoid of coleopterans from the families Buprestidae and Curculionidae (Scolytinae). Russia: **EP** (C, E). – Europe (WE, NE, SE), Iran.
- Baryscapus impeditus** (Nees, 1834) [Eulophus] (*Tetrastichus principiae* Domenichini, 1965; *T. aligarhensis* Khan et Shafee, 1981). Parasitoid of hemipterans from the families Aphididae and Coccidae and neuropterans from the family Chrysopidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Pakistan, India.
- Baryscapus nigroviolaceus** (Nees, 1834) [Eulophus] (*Entedon amethystinus* Ratzeburg, 1848; *E. antispilae* Rondani, 1877). Parasitoid of coleopterans from the family Curculionidae, dipterans from the family Cecidomyiidae and lepidopterans from the families Gracillariidae, Heliozelidae, Lasiocampidae, Lyonetiidae, Tineidae, Tortricidae and Yponomeutidae. Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Baryscapus oophagus** (Otten, 1942) [Tetrastichus]. Parasitoid of hymenopterans from the family Diprionidae and lepidopterans from the families Gracillariidae and Lasiocampidae. Russia: **EP** (S). – Europe (WE, NE, EE), Iran.
- Baryscapus ordanus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NC). – Kazakhstan.
- Baryscapus pallasi** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (E), **UR**. – Europe (NE), Kazakhstan.
- Baryscapus phytomyzae** (Kostjukov, 1978) [Tetrastichus]. Parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (E, S, NC). – Europe (EE), Armenia, Uzbekistan.
- Baryscapus planipectus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NW).

- Baryscapus pospelovi** (Kurdjumov, 1912) [Tetrastichus]. Parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE).
- Baryscapus protasis** Graham, 1991. Parasitoid of coleopterans from the family Chrysomelidae (Bruchinae). Russia: **EP** (NC). – Europe (WE), Turkey.
- Baryscapus servadeii** (Domenichini, 1965) [Tetrastichus]. Parasitoid of lepidopterans from the family Notodontidae. Russia: **EP** (E). – Europe (WE, SE, EE), N Africa, Turkey, Syria.
- Baryscapus starki** (Kostjukov, 1978) [Tetrastichus]. Parasitoid of lepidopterans from the family Buprestidae. Russia: **EP** (E, NC). – Europe (NE).
- Baryscapus sugonjaevi** (Kostjukov, 1976) [Tetrastichus]. Parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW), **WS** (AL), **FE** (PR). – Europe (WE, NE, EE), Georgia, Armenia, Tajikistan, Kyrgyzstan, Kazakhstan.
- Baryscapus szoecsi** (Erdős, 1958) [Geniocerus]. Parasitoid of lepidopterans from the families Geometridae, Gracilariidae, Noctuidae, Tortricidae and Yponomeutidae. Russia: **EP** (NC). – Europe (WE, SE, EE).
- Baryscapus talitzkii** (Kostjukov, 1978) [Tetrastichus]. Parasitoid of lepidopterans from the family Tortricidae. Russia: **EP** (NC). – Europe (WE, EE).
- Baryscapus tobiasi** Kosheleva et Gunasheva, 2014. Russia: **EP** (NC).
- Baryscapus turionum** (Hartig, 1838) [Eulophus]. Parasitoid of lepidopterans from the families Gelechiidae, Pieridae and Tortricidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Turkey, N America.
- Baryscapus virens** Graham, 1991. Parasitoid of dipterans from the family Tephritidae. Russia: **EP** (E). – Europe (WE, EE).
- CHAENOTETRASTICHUS** Graham, 1987. Type species: *Tetrastichus grangeri* Erdős, 1958. Number of species: World and Palaearctic – 2, Russia – 1.
- Chaenotetrastichus grangeri** (Erdős, 1958) [Tetrastichus]. Parasitoid of hymenopterans from the family Pompilidae. Russia: **FE** (PR). – Europe (WE, EE).
- CRATAEPUS** Foerster, 1856. Type species: *Cirrospilus marbis* Walker, 1839. Monotypic Holarctic genus.
- Crataepus marbis** (Walker, 1839) [Cirrospilus] (*Crataepus aquisgranensis* Foerster, 1878; *Crataepus fletcherii* Ashmead, 1892). Parasitoid of dipterans from the families Cecidomyiidae and Tephritidae. Russia: **EP** (NW, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Uzbekistan, Canada, USA.
- DZHANOKMENIA** Kostjukov, 1977. Type species: *Tetrastichus bibikovae* Dzhankmen, 1977. Parasitoids of insects from the orders Coleoptera, Diptera, Homoptera, Hymenoptera, Lepidoptera and Neuroptera. Number of species: World and Palaearctic – 13, Russia – 7.
- Dzhankmenia antonovae** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (E, NC). – Kazakhstan.
- Dzhankmenia demakovi** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (S, NC).
- Dzhankmenia evgenyi** Kostjukov et Kosheleva, 2015. Russia: **EP** (NC).
- Dzhankmenia kasparyani** Kostjukov et Kosheleva, 2014. Russia: **EP** (NC).
- Dzhankmenia kozlovi** (Kostjukov, 1984) [Tetrastichus]. Russia: **EP** (NC). – Turkmenistan.
- Dzhankmenia kurdjumovi** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NC). – Kazakhstan.
- Dzhankmenia zadepyski** (Kostjukov, 1984) [Tetrastichus]. Russia: **EP** (NC). – Turkmenistan.
- HOLCOTETRASTICHUS** Graham, 1987. Type species: *Cirrospilus rhesaces* Walker, 1839. Parasitoids of Coleoptera. Number of species: World – 2, Palaearctic and Russia – 1.
- Holcotetrastichus rhesaces** (Walker, 1839) [Cirrospilus] (*Cirrospilus racilla* Walker, 1839). Parasitoid of coleopterans from the family Chrysomelidae. Russia: **EP** (E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Japan, USA.
- KOLOPTERNA** Graham, 1987. Type species: *Kolopterna salina* Graham, 1987. Parasitoids of Diptera. Number of species: World and Palaearctic – 13, Russia – 6.
- Kolopterna desulcatus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NC). – Kazakhstan.
- Kolopterna grahami** Kostjukov et Khomchenko, 2004. Russia: **EP** (NC).
- Kolopterna kasparyani** Kostjukov et Kosheleva, 2014. Russia: **EP** (NC).
- Kolopterna kurdjumovi** Kostjukov et Yegorenkova, 2007. Russia: **EP** (E).
- Kolopterna nikolskayae** Kostjukov et Yegorenkova, 2007. Russia: **EP** (E).
- Kolopterna trjapitzini** Kostjukov et Kosheleva, 2018. Russia: **EP** (NC).
- MELITTOBIA** Westwood, 1848 (*Anthophorabia* Newport, 1849; *Philopison* Cameron, 1908; *Sphecophagus* Brèthes, 1910; *Sphecophilus* Brèthes, 1910). Type species: *Melittobia audouinii* Westwood, 1848. Parasitoids of Diptera, Hymenoptera and Lepidoptera. Number of species: World – 12, Palaearctic – 4, Russia – 1.
- Melittobia acasta** (Walker, 1839) [Cirrospilus] (*Anthophorabia retusa* Newport, 1849; *A. fasciata* Newport, 1852). Parasitoid of coleopterans from the families Buprestidae and Chrysomelidae, dipterans from the families Caliphoridae, Cecidomyiidae, Muscidae, Tachinidae and Tephritidae, hymenopterans from the families Apidae, Chrysididae, Diprionidae, Formicidae, Sphecidae and Vespidae and lepidopterans from the families Lasiocampidae, Limacodidae, Lymantriidae, Noctuidae, Pieridae

and Tortricidae. Russia: **EP** (C, E, NC), **WS** (OM, AL), **ES** (KR, BR), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Kazakhstan, China, Japan, India, New Zealand.

MINOTETRASTICHUS Kostjukov, 1977. Type species: *Cirrospilus ecus* Walker, 1839 (= *Eulophus frontalis* Nees, 1834). Primary hosts of Diptera, Hymenoptera and Lepidoptera. Number of species: World – 10, Palaearctic – 9, Russia – 3.

Minotetrastichus frontalis (Nees, 1834) [Eulophus] (*Cirrospilus ecus* Walker, 1839; *Eulophus cyclogaster* Ratzeburg, 1844; *E. xanthops* Ratzeburg, 1844; *Entedon rivillellae* Rondani, 1877; *Tetrastichus cyclogaster obscurata* Ruschka, 1924; *Geniocerus budensis* Erdős, 1954; *Tetrastichus cimbicis* Kostjukov, 1976). Parasitoid of coleopterans from the family Curculionidae, hymenopterans from the families Cimbicidae, Cynipidae and Tenthredinidae and lepidopterans from the families Coleophoridae, Eriocraniidae, Gracillariidae, Heliozelidae, Lyonetiidae, Nepticulidae; Notodontidae and Tischeriidae. Russia: **EP** (C, E, NC, CR), **UR**, **WS** (AL), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Pakistan, USA.

Minotetrastichus loxotoma (Graham, 1961) [Aprostocetus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, EE), Turkey, Israel, Iran.

Minotetrastichus platanelus (Mercet, 1922) [Tetrastichodes] (*Tetrastichodes populi* Erdős, 1958; *Tetrastichus populifoliella* Erdős, 1969). Primary parasitoid of lepidopterans from the family Gracillariidae; secondary parasitoid of hymenopterans from the families Braconidae and Eulophidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Georgia, Turkey, Israel, Iran.

MISCHOTETRASTICHUS Graham, 1987. Type species: *Tetrastichus petiolatus* Erdős, 1961. Parasitoids of lepidopterans from the family Gracillariidae. Number of species: World – 8, Palaearctic – 6, Russia – 3.

Mischotetrastichus danilovitschae Kostjukov, 2000. Russia: **FE** (SA, KU).

Mischotetrastichus nadezhdae (Kostjukov, 1977) [Ceratoneura]. Russia: **FE** (PR, SA).

Mischotetrastichus petiolatus (Erdős, 1961) [Tetrastichus] (*Ceratoneura aloica* Kostjukov, 1977; *C. erdosi* Kostjukov, 1977). Russia: **EP** (NW, C, E). – Europe (NE, EE), Japan.

NEOTRICHOPOROIDES Girault, 1913 (*Aprostoceroloides* Girault, 1913; *Tetrastichomorpha* Girault, 1913; *Trichaporoidella* Girault, 1913; *Epiquadrastichus* Girault, 1915; *Paraprostocetus* Girault, 1915; *Bursia* Fullaway, 1955; *Dubioatalon* Szelenyi, 1981; *Neogaleopsomyia* Narendran, 2005). Type species: *Neotrichoporoides uniguttata* Girault, 1913. Primary parasitoids of dipterans from the families Anthomyiidae and Diopsidae. Number of species: World – 72, Palaearctic – 26, Russia – 7.

Neotrichoporoides cavigena Graham, 1987. Russia: **EP** (E, NC). – Europe (WE, EE), Turkey.

Remarks. In the world catalogue (Noyes, 2014), this species was erroneously recorded for the Karachai-Cherkess Republic instead of the Ulyanovsk Province.

Neotrichoporoides dispersus Graham, 1986. Russia: **EP** (E, NC). – Europe (SE), Canary Is, United Arab Emirates.

Remarks. In the world catalogue (Noyes, 2014), this species was erroneously recorded for the Karachai-Cherkess Republic instead of the Ulyanovsk Province.

Neotrichoporoides kozlovi Kostjukov et Yegorenkova, 2006. Russia: **EP** (E).

Neotrichoporoides mediterraneus Graham, 1986. Russia: **EP** (E, NC). – Europe (WE, SE, EE), Turkey, China, India, Australia.

Remarks. In the world catalogue (Noyes, 2014), this species was erroneously recorded for the Karachai-Cherkess Republic instead of the Ulyanovsk Province.

Neotrichoporoides szelenyii (Erdős, 1951). Russia: **EP** (E, NC). – Europe (EE, SE), Azerbaijan, Turkey, Iran.

Remarks. In the world catalogue (Noyes, 2014), this species was erroneously recorded for the Karachai-Cherkess Republic instead of the Ulyanovsk Province.

Neotrichoporoides trjapitzini Kostjukov, 2004. Russia: **EP** (NC).

Neotrichoporoides viridimaculatus (Fullaway, 1955) [Bursia] (*Tetrastichus bicolor* Saraswat, 1975; *T. saraswati* Husain et Khan, 1986). Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Turkey, China, USA, India, S America.

OOMYZUS Rondani, 1870. Type species: *Pteromalus gallerucae* Fonscolombe, 1832. Primary hosts of Coleoptera, Diptera and Lepidoptera. Number of species: World – 26, Palaearctic – 17, Russia – 6.

Oomyzus galerucivorus (Hedqvist, 1959) [Tetrastichus]. Parasitoid of coleopterans from the family Chrysomelidae. Russia: **EP** (C, NC), **WS** (NS). – Europe (WE, NE, EE).

Oomyzus gallerucae (Fonscolombe, 1832) [Pteromalus]. Parasitoid of coleopterans from the family Chrysomelidae. Russia: **EP** (C, NC), **WS** (NS). – Europe (WE, NE, SE, EE), Iran, USA, India, Argentina, Australia.

Oomyzus incertus (Ratzeburg, 1844) [Eulophus] (*Baryscapus matranus* Erdős, 1954; *Tetrastichus fumatus* Erdős, 1954; *T. erdoesi* Domenichini, 1965; *T. pannonicus* Erdős, 1969). Parasitoid of coleopterans from the family Curculionidae and lepidopterans from the family Yponomeutidae. Russia: **EP** (E, S, NC), **WS** (NS), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Iran, N America.

Oomyzus scaposus (Thomson, 1878) [Tetrastichus] (*Tetrastichus coccinellae* Kurdjumov, 1912; *Syntomosphyrum taprobanes* Waterston, 1915; *Tetrastichus melanis* Burks, 1943; *T. sexmaculatus* Chandy Kurian, 1953). Parasitoid of coleopterans from the family Coccinellidae and neuropterans from the family Chrysopidae. Russia: **EP** (N,

- NW, C, E, NC), **UR**, **WS** (OM, TK, NS, AL), **ES** (TU), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Egypt, Turkey, Syria, Iraq, Afghanistan, Pakistan, Turkmenistan, China, Korean Peninsula, N America, India, Indonesia, Australia.
- Oomyzus sempronius** (Erdős, 1954) [Tetrastichus]. Primary endoparasitoid of *Chilocorus bipustulatus* L. (Coccinellidae) and neuropterans from the family Chrysopidae. Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE), N Africa, Turkey, Yemen.
- Oomyzus sokolowskii** (Kurdjumov, 1912) [Tetrastichus]. Parasitoid of lepidopterans from the families Pieridae and Yponomeutidae. Russia: **EP** (NC), **FE** (SA). – Europe (WE, SE, EE), Egypt, Azerbaijan, Pakistan, China, Japan, N America, India, Bangladesh, S America, Australia.
- PRNOTALIA** Gradwell, 1957 (*Crataepiella* Domenichini, 1958). Type species: *Pronotalia trypetae* Gradwell, 1957. Primary parasitoids of Diptera and Hymenoptera. Number of species: World and Palaearctic – 8, Russia – 4.
- Pronotalia carlinarum** (Szélenyi et Erdős, 1951) [Crataepus] (*Pronotalia liparae* Gradwell, 1957; *P. valkeilae* Gradwell, 1957). Parasitoid of dipterans from the families Agromyzidae, Calliphoridae, Chloropidae and Tephritidae and lepidopterans from the family Lasiocampidae. Russia: **EP** (NW, S, NC). – Europe (WE, NE, SE, EE), Armenia, Turkey, Israel, USA.
- Pronotalia hungarica** (Erdős, 1955) [Crataepus] Russia: **EP** (S). – Europe (WE, NE, SE, EE), Turkey.
- Pronotalia orobanchiae** Graham, 1991. Parasitoid of dipterans from the family Agromyzidae. Russia: **EP** (E, NC). – Europe (EE), Iran, Uzbekistan.
- Pronotalia trypetae** Gradwell, 1957. Parasitoid of dipterans from the family Tephritidae. Russia: **EP** (NW). – Europe (WE, NE).
- QUADRASTICHUS** Girault, 1913 (*Cecidotetrastichus* Kostjukov, 1977). Type species: *Quadrastichus nigronotatus* Girault, 1913. Primary hosts of Diptera and Lepidoptera. Number of species: World – 89, Palaearctic – 50, Russia – 25.
- Quadrastichus admirofuniculus** (Kostjukov, 1995) [Cecidotetrastichus]. Russia: **FE** (PR).
- Quadrastichus baadhoicus** Kostjukov, 2000. Russia: **FE** (PR).
- Quadrastichus brevifuniculus** (Kostjukov, 1976) [Tetrastichus]. Parasitoid of hymenopterans from the family Cimbicidae. Russia: **WS** (AL), **FE** (PR).
- Quadrastichus capitonus** (Kostjukov, 1978) [Tetrastichus]. **EP** (S).
- Quadrastichus dentatus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (C).
- Quadrastichus lasiocerus** (Graham, 1961) [Aprostocetus]. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (NW). – Europe (WE, EE).
- Quadrastichus misellus** (Delucchi, 1954) [Tetrastichus]. Parasitoid of coleopterans from the family Buprestidae. Russia: **EP** (C, NC). – Europe (WE, EE).
- Quadrastichus moskwitini** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (PR).
- Quadrastichus multisensillis** (Kostjukov, 1995) [Cecidotetrastichus]. Russia: **FE** (PR).
- Quadrastichus obrutschevi** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (KH, PR).
- Quadrastichus orientalis** (Kostjukov, 1995) [Cecidotetrastichus]. Russia: **FE** (PR).
- Quadrastichus pellucidus** (Kostjukov, 1995) [Cecidotetrastichus]. Russia: **FE** (PR).
- Quadrastichus pennantipterus** (Kostjukov, 1995) [Cecidotetrastichus]. Russia: **FE** (PR).
- Quadrastichus pigarevitschae** Kostjukov, 2000. Russia: **FE** (PR).
- Quadrastichus pseudoecus** (Kostjukov, 1995) [Cecidotetrastichus]. Russia: **FE** (KH).
- Quadrastichus rosarum** Yegorenkova et Yefremova, 2017. Parasitoid of dipterans from the family Cecidomyiidae. Russia: **EP** (E).
- Quadrastichus schamora** (Kostjukov, 1995) [Cecidotetrastichus]. Russia: **FE** (PR).
- Quadrastichus schuvachinae** (Kostjukov, 1995) [Cecidotetrastichus]. Russia: **FE** (PR).
- Quadrastichus soloni** Kostjukov, 2000. Russia: **FE** (KH).
- Quadrastichus storozhevae** Kostjukov, 2000. Russia: **FE** (KH).
- Quadrastichus thysanotus** (Foerster, 1861) [Tetrastichus] (*Aprostocetus pumilio* Graham, 1961). Parasitoid of hemipterans from the family Kermesidae. Russia: **EP** (NW, E). – Europe (WE, EE).
- Quadrastichus urbanus** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NW).
- Quadrastichus ussuriensis** (Kostjukov, 1995) [Tetrastichus]. Russia: **FE** (PR).
- Quadrastichus vacuna** (Walker, 1839) [Cirrospilus] (*Cirrospilus alcithoe* Walker, 1839; *C. numeria* Walker, 1839; *C. quercens* Walker, 1839; *C. rhoesus* Walker, 1839; *C. sotades* Walker, 1839; *C. vacuna* Walker, 1839; *C. brunchus* Walker, 1840; *Tetrastichus migrator* Foerster, 1861; *T. penetrans* Foerster, 1861; *T. compressiventris* Thomson, 1878). Parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Tenthredinidae. Russia: **EP** (NW, C, E, NC). – Europe (WE, NE, SE, EE).
- Quadrastichus zaslavskiy** Kostjukov, 2000. Russia: **FE** (PR).
- SIGMOPHORA** Rondani, 1867 (*Lopodytes* Rondani, 1867; *Eulophotetrastichus* Girault, 1913; *Euplectrotetrastichus* Girault, 1915; *Lopoditiscus* Ghesquière, 1946). Type species: *Sigmophora scrophulariella* Rondani, 1867. Number of species: World – 19, Palaearctic – 6, Russia – 1.

- Sigmophora brevicornis** (Panzer, 1804) [Cynips] (*Eulophus verbasci* Dufour, 1837; *Cirrospilus armaeus* Walker, 1839; *C. zeuxo* Walker, 1839; *Eulophus setiseries* Foerster, 1841; *Lopodytes asphondyliae* Rondani, 1867; *L. prunicola* Rondani, 1867; *Sigmophora scrophulariella* Rondani, 1867; *Tetrastichus isaaci* Rohwer, 1921). Parasitoid of coleopterans from the families Anobiidae and Apionidae, dipterans from the families Cecidomyiidae and Tephritidae, hymenopterans from the families Cynipidae, Eurytomidae and Tenthredinidae and lepidopterans from the families Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, E, NC), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, Pakistan, Canada, India, Vietnam.
- STEPANOVIA** Kostjukov, 2004. Type species: *Aprostocetus aspectabilis* Kostjukov, 1995. Number of species: World and Palaearctic – 10, Russia – 6.
- Stepanovia aspectabilis** (Kostjukov, 1995) [Aprostocetus]. Russia: **FE** (PR).
- Stepanovia aurantiaca** (Ratzeburg, 1852) [Entedon] (*Tetrastichus rosarum* Erdős, 1971). Parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Iran.
- Stepanovia eurytomae** (Nees, 1834) [Eulophus]. Parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia.
- Stepanovia avetjanai** (Kostjukov, 1978) [Tetrastichus]. Parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NC). – Armenia.
- Stepanovia kubanica** (Kostjukov, 1978) [Tetrastichus]. Parasitoid of hymenopterans from the family Cynipidae. Russia: **EP** (NC). – Armenia.
- Stepanovia nigriventris** (Kostjukov, 1995) [Aprostocetus]. Russia: **FE** (KH, PR).
- TAMARIXIA** Mercet, 1924. Type species: *Tamarixia bicolor* Mercet, 1924. Parasitoids of Calophyidae and Triozidae (Hemiptera). Number of species: World – 53, Palaearctic – 37, Russia – 25.
- Tamarixia actis** (Walker, 1839) [Pteroptrix] (*Tetrastichus callunae* Erdős, 1969). Primary parasitoid of *Strophingia ericae* Curt. (Hemiptera: Psyllidae). Russia: **EP** (NC). – Europe (WE, NE).
- Tamarixia akkumica** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NC). – Kazakhstan.
- Tamarixia arboreae** (Graham, 1979) [Tetrastichus]. Parasitoid of *Strophingia arborea* Loginova and *S. fallax* Loginova (Hemiptera: Psyllidae). Russia: **EP** (NC). – Europe (SE, EE).
- Tamarixia brovni** Kostjukov, 2000. Russia: **FE** (PR).
- Tamarixia flavicoxae** Kostjukov, 2000. Russia: **FE** (PR).
- Tamarixia flaviventris** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (E, S, NC). – Israel, Tajikistan, Kazakhstan.
- Tamarixia hanca** Kostjukov, 2000. Russia: **FE** (PR).
- Tamarixia krascheninnikovi** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (KH).
- Tamarixia monesius** (Walker, 1839) [Cirrospilus] (*Tetrastichus pallicornis* Thomson, 1878; *T. pallidicornis* Dalla Torre, 1898). Parasitoid of hemipterans from the family Triozidae. Russia: **EP** (C, E, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan.
- Tamarixia newelskoyi** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (KH).
- Tamarixia nocturna** Kostjukov, 2000. Russia: **FE** (PR).
- Tamarixia pallicornis** (Walker, 1872) [Gastrancistrus]. Russia: **EP** (NC). – Madeira Is.
- Tamarixia poddubnyi** (Kostjukov, 1978) [Tetrastichus]. Parasitoid of hemipterans from the family Triozidae. Russia: **EP** (NC). – Europe (EE), Uzbekistan, China.
- Tamarixia pojarkovi** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (PR).
- Tamarixia pronomus** (Walker, 1839) [Cirrospilus] (*Tetrastichus obscuratus* André, 1878). Parasitoid of hemipterans from the family Triozidae. Russia: **EP** (E, NC). – Europe (WE, NE, SE, EE), Israel.
- Tamarixia przewalskii** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (KH).
- Tamarixia pubescens** (Nees, 1834) [Eulophus]. Parasitoid of hemipterans from the family Triozidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).
- Tamarixia pygmaeola** (Erdős, 1958) [Tetrastichus]. Primary parasitoid of *Trioza rumicis* Low (Hemiptera: Triozidae). Russia: **EP** (NC). – Europe (WE, SE, EE).
- Tamarixia rudolfae** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NC). – Kazakhstan.
- Tamarixia stelleri** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (PR).
- Tamarixia tremblayi** (Domenichini, 1965) [Tetrastichus]. Parasitoid of hemipterans from the family Triozidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).
- Tamarixia tschirikovi** (Kostjukov, 1990) [Tetrastichus]. Russia: **FE** (KH).
- Tamarixia turundaevskayae** (Kostjukov, 1978) [Tetrastichus]. Russia: **EP** (NC). – Kazakhstan.
- Tamarixia upis** (Walker, 1839) [Cirrospilus] (*Cirrospilus orsillus* Walker, 1839; *Tetrastichus bermius* Walker, 1848). Parasitoid of hemipterans from the family Triozidae. Russia: **EP** (NW, C, E, NC). – Europe (WE, NE, SE, EE), Israel, Iran.
- Tamarixia vinokurovi** Kostjukov, 1995. Russia: **FE** (PR).
- TETRASTICHUS** Haliday, 1844. Type species: *Cirrospilus attalus* Walker, 1839 (= *Eulophus miser* Nees, 1834). Parasitoids of insects from the orders Diptera, Coleoptera, Hymenoptera and Lepidoptera. World – 477, Palaearctic – 218, Russia – 134.
- Tetrastichus abdominalis** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus aberrans** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus abnormis** Kostjukov, 1995. Russia: **FE** (PR).

- Tetrastichus acuticlavus** Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus albisensillis Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus albitarsis Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus amgun Kostjukov, 1995. Russia: **FE** (KH).
Tetrastichus amurensis Walker, 1874. Russia: **FE** (AM).
Tetrastichus amurzetus Kostjukov, 1995. Russia: **FE** (KH).
Tetrastichus ancyferovi Kostjukov, 1990. Russia: **FE** (PR).
Tetrastichus arsenjevi Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus artem Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus atratulus (Nees, 1834) [Eulophus] (*Tetrastichus puncticoxae* Kurdjumov, 1913). Parasitoid of dipterans from the family Stratiomyidae. Russia: **EP** (C, E, NC), **WS** (TK). – Europe (WE, NE, SE, EE), Japan.
Tetrastichus atrocoeruleus (Nees, 1834) [Eulophus]. Parasitoid of hymenopterans from the family Argidae. Russia: **EP** (C). – Europe (WE, SE, EE).
Tetrastichus axyllaris Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus belokobylskiy Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus breviclava Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus brevidorsellum Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus brevimarginatus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus brevisus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus breviscapella Özdikmen, 2011 (*Tetrastichus breviscapus* Kostjukov, 1995, nom. praeocc., nec *Tetrastichus breviscapus* Kostjukov, 1977). Russia: **FE** (PR).
Tetrastichus brevitarsis Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus breviventris Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus brunifuniculus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus bruninervis Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus bruniscapus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus brunistigma Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus brunitibialis Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus bruniventris Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus bureja Kostjukov, 1995. Russia: **FE** (KH).
Tetrastichus carinatus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus clavatus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus clito (Walker, 1840) [Cirrospilus] (*Eulophus cassidae* Dufour, 1846; *Entedon cassidarum* Ratzeburg, 1852). Parasitoid of Coleopterans from the family Chrysomelidae. Russia: **EP** (NC). – Europe (WE, NE, EE), China, Canada.
Tetrastichus contiguus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus curtiscapus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus dasyops Graham, 1991. Russia: **EP** (NC). – Europe (WE, NE).
Tetrastichus denuntiatus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus dignella Özdikmen, 2011 (*Tetrastichus dignus* Kostjukov, 1995, nom. praeocc., nec *Tetrastichus dignus* Kostjukov, 1995). Russia: **FE** (PR).
Tetrastichus dignitosus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus dignus Kostjukov, 1995. Russia: **FE** (KH).
Tetrastichus elegans Kostjukov, 1995. Russia: **FE** (KH).
Tetrastichus enchorius Kostjukov, 1995. Russia: **FE** (SA).
Tetrastichus epilachnae (Giard, 1896). Parasitoid of coleopterans from the family Coccinellidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Iran, India.
Tetrastichus euplanipectus Özdikmen, 2011 (*Tetrastichus planipectus* Kostjukov, 1995, nom. praeocc., nec *Tetrastichus planipectus* Kostjukov, 1978). Russia: **FE** (PR).
Tetrastichus euprimoricus Özdikmen, 2011 (*Tetrastichus nigriscapus* Kostjukov, 1995, nom. praeocc., nec *Tetrastichodes nigriscapus* Howard, 1897). Russia: **FE** (PR).
Tetrastichus eurinus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus femoralis Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus flagelatus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus flavifemoralis Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus flavinervis Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus flaviscapus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus halidayi (Graham, 1961) [Aprostocetus]. Primary parasitoid of coleopterans *Argopus ahrensii* Germ. (Chrysomelidae) and *Byturus tomentosus* Deg. (Byturiidae). Russia: **EP** (C). – Europe (WE, NE, EE).
Tetrastichus hanka Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus hasanicus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus heeringi Delucchi, 1954. Parasitoid of coleopterans from the family Buprestidae, hemipterans from the family Diaspididae and orthopterans from the family Gryllidae. Russia: **EP** (C, E, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), Saudi Arabia.
Tetrastichus hehcurus Kostjukov, 1995. Russia: **FE** (KH).
Tetrastichus hylotomarum (Bouché, 1834) [Eulophus]. Parasitoid of hemipterans from the families Argidae and Tenthredinidae. Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE).
Tetrastichus julis (Walker, 1839) [Cirrospilus] (*Cirrospilus tulis* Walker, 1872). Parasitoid of coleopterans from the family Chrysomelidae. Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Canada, USA.
Tetrastichus kamenushka Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus kasparyani Koshelova et Gunasheva, 2014. Russia: **EP** (NC).
Tetrastichus khabarovskensis Özdikmen, 2011 (*Tetrastichus niger* Kostjukov, 1995, nom. praeocc., nec Ranaweera, 1950). Russia: **FE** (KH).
Tetrastichus kievka Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus komarovi Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus kostjukovi Özdikmen, 2011 (*Tetrastichus tibialis* Kostjukov, 1995, nom. praeocc., nec *Tetrastichodes tibialis* Ashmead, 1894). Russia: **FE** (PR).
Tetrastichus kovalevi Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus largicarpus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus largioris Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus largipterus Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus largistigma Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus largithorax Kostjukov, 1995. Russia: **FE** (PR).
Tetrastichus laudabilis Kostjukov, 1995. Russia: **FE** (PR).

- Tetrastichus legionarius** Giraud, 1863. Parasitoid of dipterans from the family Chloropidae. Russia: **EP** (E), **FE** (PR). – Europe (WE, SE, EE).
- Tetrastichus lepidus** Walker, 1874. Russia: **FE** (AM).
- Tetrastichus longicapus** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus longicauda** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus longiclava** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus longidorsellum** Kostjukov, 1995. Russia: **FE** (SA).
- Tetrastichus longipronotum** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus longiradius** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus longiscutum** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus longispinis** Kostjukov, 1995. Russia: **FE** (KH).
- Tetrastichus longistigma** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus longithorax** Kostjukov, 1995. Russia: **FE** (SA).
- Tetrastichus maritimus** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus mascalicornis** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus mediocris** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus minimus** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus miser** (Nees, 1834) [Eulophus] (*Cirrospilus attalus* Walker, 1839; *Entedon medianus* Ratzeburg, 1848). Parasitoid of coleopterans from the families Chrysomelidae and Curculionidae, dictyopterans from the family Blattidae and dipterans from the family Cecidomyiidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), India.
- Tetrastichus monstrabilis** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus monsus** Kostjukov, 1995. Russia: **FE** (KH).
- Tetrastichus murcia** (Walker, 1839) [Cirrospilus] (*Tetrastichus trichops* Thomson, 1878) Parasitoid of dipterans from the family Stratiomyidae. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE).
- Tetrastichus nigricornis** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus nigrinervis** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus nigriocellus** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus nigrum** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus nikolskajae** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus novoselische** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus orientalis** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus peischula** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus pellucidinervis** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus planipennisi** Yang, 2006. Parasitoid of *Agrilus planipennis* Fairm. (Buprestidae). Russia: **FE** (PR). – China (NE).
- Tetrastichus planiscutellum** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus plausibilis** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus primoricus** Özdikmen, 2011 (*Tetrastichus magnus* Kostjukov, 1995, nom. praeocc., nec Risbec, 1951). Russia: **FE** (PR).
- Tetrastichus productus** Riley, 1885. Parasitoid of dipterans from the family Cecidomyiidae and hymenopterans from the family Cephidae. Russia: **EP** (C). – Europe (WE, EE), N America.
- Tetrastichus punctifrons** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus punctipronotum** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus punctivertex** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus rasnitsyni** Kostjukov, 2001. Parasitoid of hymenopterans from the family Blasticotomidae. Russia: **WS** (KM).
- Tetrastichus regionibus** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus rjazanovka** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus sahalinicus** Kostjukov, 1995. Russia: **FE** (SA).
- Tetrastichus schuvachinae** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus sedanka** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus seorsus** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus serenus** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus silvestrinus** Kostjukov, 1995. Russia: **FE** (KH).
- Tetrastichus simplex** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus solvae** Graham, 1991. Parasitoid of dipterans from the family Xylomyidae. Russia: **EP** (NC). – Canary Is.
- Tetrastichus spassk** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus storozhevae** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus subviridis** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus sutschanus** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus taiga** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus tchegdomyn** Kostjukov, 1995. Russia: **FE** (KH).
- Tetrastichus telon** (Graham, 1961) [Aprostocetus]. Parasitoid of coleopterans from the families Buprestidae and Curculionidae (Scolytinae). Russia: **EP** (C, E, NC). – Europe (WE, NE, EE), China.
- Tetrastichus terney** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus tipicus** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus translaticius** Kostjukov, 1995. Russia: **FE** (PR).
- Tetrastichus trjapitzini** Kostjukov, 1995. Russia: **ES** (IR), **FE** (PR).
- Tetrastichus ulmi** Erdős, 1954. Parasitoid of coleopterans from the families Buprestidae and Curculionidae (Scolytinae). Russia: **EP** (NW). – Europe (SE, EE).
- Tetrastichus urgali** Kostjukov, 1995. Russia: **FE** (KH).
- Tetrastichus urkaltus** Kostjukov, 1995. Russia: **FE** (KH).
- Tetrastichus ussuriensis** Kostjukov, 1995. Russia: **FE** (PR).
- TRJAPITZINICHUS** Kostjukov et Kosheleva, 2006. Type species: *Entedon evanescens* Ratzeburg, 1848. Number of species: World and Palaearctic – 3, Russia – 3.
- Trjapitzinichus evanescens** (Ratzeburg, 1848) [Entedon]. Parasitoid of lepidopterans *Dendrolimus pini* L. (Lasiocampidae) and *Dichelia histrionana* Frölich (Tortricidae) and dipterans *Sarcophaga albiceps* Mgn. (Sarcophagidae). Russia: **EP** (C), **WS** (NS), **ES** (BR). – Europe (WE, EE).
- Trjapitzinichus lakica** Kostjukov et Gunasheva, 2004. Russia: **EP** (NC).
- Trjapitzinichus sugonjaevi** Kostjukov et Kosheleva, 2016. Russia: **FE** (PR).

47. FAMILY APHELINIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Aphelinids are minute to small chalcid wasps with length of 0.5–1.5 mm. They are characterised by body without metallic color; antenna with 5–8 segments; tarsi with 4–5 segments; notauli straight and deep; gaster broadly joined to thorax (not petiolate), with cerci at apex.

Aphelinids are mainly parasitoids of Homoptera. While a few attack species of Aphidoidea, Aleyrodoidea or Psylloidea, most develop by consuming scale insects (Coccoidea), either as internal parasitoids, ectoparasitoids (under the scale), or as egg predators. The males of a number of species develop as hyperparasitoids of coccoids via their eulophid, aphelinid or encyrtid primary parasitoids. A number of aphelinids are internal parasitoids of the eggs of various Auchenorrhyncha (Reduvioidea), Lepidoptera or Orthoptera whilst a very few develop on the larvae or pupae of Dryinidae (Hymenoptera), Cecidomyiidae or Chamaemyiidae (Diptera) (Noyes, 2019).

The family is distributed worldwide and is more numerous in the tropics. Number of taxa: World – 33 genera and 1170 species, Palaearctic – 18/446, Russia – 12/88.

References. Nikol'skaya, 1952, 1963; Thompson, 1953; Sugonyaev, 1959, 1962, 1965c, 1976b, 1979; Yasnosh, 1963, 1977, 1978, 1979, 1983, 1989, 1994, 1995a, 1995b; Chumakova, 1964a, 1964b, 1965, 1968, 1970; Goryunova, 1964; Viggiani, 1966; Nikol'skaya, Yasnosh, 1968; Sugonyaev, Pilipyuk, 1972; Popova, 1974; Kalina, Stary, 1976; Aksyutova, Gul'dyaeva, 1977; Sugonyaev, Trjapitzin, 1978; Trjapitzin, 1978a; Rosen, DeBach, 1979; Yarkulov, 1986; Liao et al., 1987; Voinovich, Sugonyaev, 1987; Kravchenko, 1989; Prinsloo, Naser, 1990; Krotova, 1993; Luk'yanova, Veremeev, 1993; Slobodyanyuk et al., 1993; Orlinski, Bassova, 1996; Trjapitzin et al., 1996; Chervonenko, 1997; Elliott et al., 1999; Schmidt et al., 2001; Gamzaev, 2002; Takkel, 2003; Noyes, 2019.

Subfamily APHELININAE

APHELINUS Dalman, 1820 (*Agonioneurus* Westwood, 1833; *Myina* Nees, 1834; *Eriophilus* Haldeman, 1851; *Anozus* Foerster, 1856; *Mesidia* Foerster, 1856; *Meroligon* Rondani, 1877; *Mesidiopsis* Nowicki, 1930; *Paulianaphelinus* Risbec, 1957). **Type species:** *Entedon abdominalis* Dalman, 1820. Cosmopolitan. Number of species: World – 95, Palaearctic – 54, Russia – 17.

Aphelinus abdominalis (Dalman, 1820) [Entedon] (*Agonioneurus basalis* Westwood, 1833; *Myina facialis* Foerster, 1841; *M. flaviceps* Foerster, 1841; *M. flavipes* Foerster, 1841; *Encyrtus ultor* Rondani, 1848; *Agonioneurus polycyclus* Foerster, 1861; *Aphelinus alius* Yasnosh, 1963; *A. bicolor* Yasnosh, 1963). Primary parasitoid of hemipterans from the family Aphididae and secondary parasitoid of *Ephedrus* sp. (Hymenoptera: Aphidiidae). Russia: **EP** (NW, C, S), **UR**, **WS** (KM). – Europe (WE,

NE, SE, EE), N Africa, Georgia, Azerbaijan, Iraq, Pakistan, Kazakhstan, China (SE), Japan, India, Afrotropics, S America, Australasia.

Aphelinus albipodus Hayat et Fatima, 1992. Primary parasitoid of hemipterans from the families Aleyrodidae and Aphididae. Russia: **EP** (NC). – China (NW, SE), Japan, N America, India, S America.

Aphelinus annulipes (Walker, 1851) [*Mesidia*] (*Mesidia longicornis* Ferrière, 1962). Primary parasitoid of hemipterans from the family Aphididae. Russia: **FE** (PR). – Europe (WE, NE, EE).

Aphelinus asychis Walker, 1839 (*Aphelinus euthria* Walker, 1839; *Myina affinis* Foerster, 1841; *Aphelinus brevicar* Thomson, 1876; *A. brachyptera* Kurdjumov, 1913; *A. dubia* Kurdjumov, 1913). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Iraq, Israel, Iran, Pakistan, Kazakhstan, China (NC), Japan, N America, India, Afrotropics, S America, Australasia.

Aphelinus atriplicis Kurdjumov, 1913. Primary parasitoid of *Hayhurstia atriplicis* L. (Hemiptera: Aphididae). Russia: without regions (Thompson, 1953). – Europe (EE), Georgia.

Aphelinus campestris Yasnosh, 1963. Russia: **FE** (PR). – Europe (EE).

Aphelinus certus Yasnosh, 1963. Russia: **FE** (PR).

Aphelinus chaonia Walker, 1839 (*Myina flavicornis* Foerster, 1841; *Aphelinus transversus* Thomson, 1876). Primary parasitoid of hemipterans from the family Aphididae. Russia: **EP** (NW, C, NC), **WS** (NS, KM). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Pakistan, China (SE), N and S America.

Aphelinus fulvus Yasnosh, 1963. Primary parasitoid of *Chaitophorus capreae* Mosl. (Hemiptera: Aphididae). Russia: **FE** (PR). – Europe (WE, EE), Azerbaijan, China (NE).

Aphelinus hordei Kurdjumov, 1913. Primary parasitoid of hemipterans from the family Aphididae. Russia: without regions (Thompson, 1953). – Europe (EE), Georgia, N America, Afrotropics, Australasia.

Aphelinus lucidus Yasnosh, 1995. Primary parasitoid of *Periphyllus aceris* L. and *P. kuwanaii* Takah. (Hemiptera: Aphididae). Russia: **FR** (PR). – Europe (EE).

Aphelinus maculatus Yasnosh, 1979. Primary parasitoid of hemipterans from the family Aphididae. Russia: **FR** (PR). – Japan, India.

Aphelinus mali (Haldeman, 1851) [*Eriophilus*] (*Blastothrix rosae* Ashmead, 1886; *Aphelinus varicornis* Girault, 1909). Primary parasitoid of hemipterans from the families Aphididae, Diaspididae and Pseudococcidae and lepidopterans from the families Coleophoridae and Pyralidae; secondary parasitoid of hymenopterans from the family Aphidiidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Iraq, Lebanon, Israel, Pakistan, Tajikistan, Uzbekistan, China (NE, SW, SE), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.

- Aphelinus subflavescens** (Westwood, 1837) [Agonioneurus] (*Mesidia maculipes* Nikolskaya, 1952). Primary parasitoid of hemipterans from the family Aphididae. Russia: **EP** (N, NW), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Turkmenistan, Kazakhstan, N and S America, Australasia.
- Aphelinus tetrataenion** (Erdős et Novicky, 1953) [Mesidia]. Russia: **EP** (NW, C). – Europe (WE, EE).
- Aphelinus thomsoni** Graham, 1976. Primary parasitoid of hemipterans from the family Aphididae and secondary parasitoid of hymenopterans from the family Braconidae. Russia: **EP** (C). – Europe (WE, EE), N Africa.
- Aphelinus varipes** (Foerster, 1841) [Myina] (*Aphelinus nigratus* Howard, 1908; *A. toxopteraphidis* Kurdjumov, 1913). Primary parasitoid of hemipterans from the families Aleyrodidae, Aphididae and Pseudococcidae and secondary parasitoid of hymenopterans from the families Aphelinidae, Encyrtidae and Pteromalidae. Russia: **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Israel, Pakistan, Kazakhstan, Japan, N America, Afrotropics, S America, Australasia.
- APHYTIS** Howard, 1900 (*Prospaphelinus* De Gregorio, 1914). Type species: *Aphytis chilensis* Howard, 1900. Cosmopolitan. Number of species: World – 109, Palaearctic – 42, Russia – 11.
- Aphytis aonidiae** (Mercet, 1911) [Aphelinus] (*Aphytis dubius* De Santis, 1948; *A. intermedius* De Santis, 1948; *A. citrinus* Compere, 1955). Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae and Diaspididae. Russia: **EP** (S, NC). – Europe (WE, SE, EE), N Africa, Georgia, Armenia, Turkey, Israel, Iran, Japan, N America, Afrotropics, S America.
- Aphytis caucasicus** Chumakova, 1964. Primary parasitoid of *Lepidosaphes ulmi* L. (Hemiptera: Aphididae). Russia: **EP** (NC).
- Aphytis chilensis** Howard, 1900 (*Aphelinus longiclavae* Mercet, 1910; *A. capitis* Rust, 1915; *A. signiphoroides* Brèthes, 1916; *Aphytis riadi* Delucchi, 1964). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **EP** (NC). – Europe (WE, SE), N Africa, Turkey, Lebanon, Central Asia, N America, Afrotropics, S America, Australasia.
- Aphytis chrysomphali** (Mercet, 1912) [Aphelinus] (*Prospaphelinus silvestrii* De Gregorio, 1914; *Aphelinus quaylei* Rust, 1915). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae and hymenopterans from the family Diprionidae; secondary parasitoid of *Marietta leopardina* Motsch. (Hymenoptera: Aphelinidae). Russia: **EP** (NW, NC). – Europe (WE, SE, EE), N Africa, Georgia, Turkey, Lebanon, Israel, Iran, Afghanistan, China (CC, NC, SW, SE), Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Aphytis hispanicus** (Mercet, 1912) [Aphelinus] (*Aphelinus argentinus* Brèthes, 1916; *A. boveli* Malenotti, 1918). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Lebanon, Israel, China (CC, SE), N America, India, Afrotropics, S America.
- Aphytis maculicornis** (Masi, 1911) [Aphelinus]. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Iraq, Israel, Iran, Afghanistan, Pakistan, Tajikistan, China (SE), N America, India, S America.
- Aphytis mytilaspidis** (Le Baron, 1870) [Chalcis] (*Agonioneurus albidus* Westwood, 1837; *Aphytis variolosum* Alam, 1956; *A. diaspidioti* Chumakova, 1957). Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae and Diaspididae. Russia: **EP** (NW, C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Iraq, Lebanon, Israel, Iran, Kazakhstan, China (SE), Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Aphytis proclia** (Walker, 1839) [Aphelinus] (*Aphytis zonatus* Alam, 1956; *A. sugonjaevi* Yasnosh, 1972; *Centrodora chowdhurii* Kaul, 1974). Primary parasitoid of hemipterans from the families Aleyrodidae, Coccidae and Diaspididae. Russia: **EP** (NW, NC), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Iran, Pakistan, Kazakhstan, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, Japan, N America, India, SE Asia, S America, Australasia.
- Aphytis stepanovi** Yasnosh, 1995. Primary parasitoid of *Pseudaulacaspis cockerelli* Cool. (Hemiptera: Diaspididae). Russia: **FE** (PR).
- Aphytis testaceus** Chumakova, 1961. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (NC), **FE** (PR). – Europe (EE), Azerbaijan.
- Aphytis vandenboschi** DeBach et Rosen, 1976. Russia: **FE** (PR). – N Africa, China (NE, SE), Korean Peninsula, Japan.
- CENTRODORA** Foerster, 1878 (*Paraphelinus* Perkins, 1906; *Tumidiscapus* Girault, 1911; *Plastocharella* Girault, 1913; *Microeupelmus* Otten, 1941; *Pechlaneria* Soyka, 1948; *Debachiella* Gordh et Rosen, 1973; *Oolathron* De Santis, 1981). Type species: *Centrodora amoena* Foerster, 1878. Cosmopolitan. Number of species: World – 63, Palaearctic – 20, Russia – 3.
- Centrodora amoena** Foerster, 1878 (*Centrodora bolivari* Mercet, 1930). Primary parasitoid of *Mayetiola destructor* Say (Diptera: Cecidomyiidae) and *Conocephalus dorsalis* Latr. (Orthoptera: Tettigoniidae). Russia: **EP** (NW, C), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.
- Centrodora flava** (Girault, 1911) [Tumidiscapus]. Primary parasitoid of dipterans from the family Cecidomyiidae and orthopterans from the family Tettigoniidae. Russia: without regions (Thompson, 1953). – N America.

Centrodora speciosissima (Girault, 1911) [Paraphelinus]. Primary parasitoid of dipterans from the family Cecidomyiidae, hymenopterans from the family Eurytomidae and orthopterans from the family Tettigoniidae; secondary parasitoid of *Platygaster zosine* Walk. (Hymenoptera: Platygasteridae). Russia: without regions (Thompson, 1953). – Europe (WE, EE), N America.

MARIETTA Motschulsky, 1863 (*Perissopterus* Howard, 1895; *Pseudaphelinus* Brèthes, 1918). Type species: *Marietta leopardina* Motschulsky, 1863. Cosmopolitan. Number of species: World – 21, Palaearctic – 6, Russia – 2.

Marietta carnesi (Howard, 1910) [Perissopterus] (*Perissopterus inexplicabilis* Girault, 1913; *Marietta indica* Narayanan, 1961). Primary parasitoid of hemipterans from the families Coccidae, Diaspididae and Pseudococcidae; secondary parasitoid of hymenopterans from the families Aphelinidae and Encyrtidae. Russia: **FE** (PR). – Europe (SE), N Africa, China (NC, CC, SE, SW), Korean Peninsula, Japan, N America, India, Australasia.

Marietta picta (André, 1878) [Aphelinus] (*Perissopterus zebra* Kurdjumov, 1912; *P. zebra* Mercet, 1914; *P. zebra* Mercet, 1916; *P. anglicus* Blood, 1929). Primary parasitoid of hemipterans from the families Acleridae, Aleyrodidae, Aphididae, Asterolecaniidae, Coccidae, Diaspididae, Eriococcidae, Kermesidae, Psyllidae and Trioziidae; secondary parasitoid of hymenopterans from the families Aphelinidae, Encyrtidae, Eulophidae, Pteromalidae, Signiphoridae and Braconidae. Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Turkey, Iran, Turkmenistan, Kazakhstan, China (NC), Korean Peninsula, N America, India, S America.

MARLATTIELLA Howard, 1907. Type species: *Marlattella prima* Howard, 1907. The genus is distributed in the Holarctic and Oriental regions. Number of species: World – 2, Palaearctic and Russia – 1.

Marlattella prima Howard, 1907. Primary parasitoid of *Lopholeucaspis japonica* Cock. (Hemiptera: Diaspididae). Russia: **FE** (PR). – China (NC, SW, CC, SE), Japan, N America.

PROTAPHELINUS Mackauer, 1972. Type species: *Aphelinus nikolskajae* Yasnosh, 1963. Monotypic genus; distributed in the Palaearctic and Oriental regions.

Protaphelinus nikolskajae (Yasnosh, 1963) [Aphelinus]. Primary parasitoid of hemipterans from the family Aphididae. Russia: **EP** (N). – Europe (WE, NE, SE), Georgia, Azerbaijan, Pakistan, China (NE, CC), India.

Subfamily COCCOPHAGINAE

COCCOBIUS Ratzeburg, 1852 (*Physcus* Howard, 1895; *Encyrtophyscus* Blanchard, 1948; *Physculus* Yasnosh,

1977). Type species: *Coccobius annulicornis* Ratzeburg, 1852. Cosmopolitan. Number of species: World – 107, Palaearctic – 29, Russia – 2.

Coccobius annulicornis Ratzeburg, 1852 (*Physcus testaceus* Masi, 1909). Primary parasitoid of hemipterans from the families Coccidae, Diaspididae and Eriococcidae; secondary parasitoid of *Comperiella bifasciata* How. (Hymenoptera: Encyrtidae). Russia: **EP** (S, NC). – Europe (WE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Lebanon, Iran, Uzbekistan, China (CC), N America.

Coccobius danzigae (Yasnosh, 1977) [Physculus]. Primary parasitoid of *Asterodiaspis japonica* Cock. (Hemiptera: Asterolecaniidae). Russia: **FE** (PR).

COCCOPHAGUS Westwood, 1833 (*Aneristus* Howard, 1895; *Paracharitopus* Brèthes, 1913; *Ataneostigma* Girault, 1914; *Euxanthellus* Silvestri, 1915; *Prococcophagus* Silvestri, 1915; *Taneostigmoidella* Girault, 1915; *Onophilus* Brèthes, 1918; *Parencarsia* Mercet, 1930; *Heptacritus* De Santis, 1960; *Aclerdaephagus* Sugonjaev, 1969). Type species: *Entedon scutellaris* Dalman, 1826. Cosmopolitan. Number of species: World – 264, Palaearctic – 66, Russia – 18.

Coccophagus gigas Erdős, 1956. Primary parasitoid of *Pulvinaria vitis* L. (Hemiptera: Coccoidea). Russia: **FE** (SA). – Europe (EE).

Coccophagus gossypariae Gahan, 1927. Primary parasitoid of hemipterans from the family Eriococcidae. Russia: **EP** (S, NC). – Europe (WE, SE, EE), Kazakhstan, N America.

Coccophagus insidiator (Dalman, 1826) [Entedon] (*Coccophagus aterrimus* Vikberg, 1966; *C. stepanovi* Sugonjaev et Pilipyuk, 1972). Primary parasitoid of hemipterans from the families Coccidae, Diaspididae and Eriococcidae. Russia: **EP** (N, NW), **ES** (BR, YA), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, Mongolia, China (NE), N America.

Coccophagus japonicus Compere, 1924. Primary parasitoid of hemipterans from the families Coccidae and Pseudococcidae. Russia: **FE** (PR, SA). – China (NE, NC, CC, SW, SE), Japan, N America.

Coccophagus jasnoshae Sugonjaev, 1978. Primary parasitoid of *Pulvinaria vitis* L. (Hemiptera: Coccidae). Russia: **ES** (YA).

Coccophagus lycimnia (Walker, 1839) [Aphelinus] (*Eulophus scutellaris* Nees, 1834; *Platygaster lecanii* Fitch, 1859; *Coccophagus ater* Howard, 1881; *C. cognatus* Howard, 1881; *C. vividus* Howard, 1885; *C. californicus* Howard, 1889; *C. coccidis* Girault, 1917; *C. corni* Alam, 1956; *C. taxi* Alam, 1956). Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae, Diaspididae, Eriococcidae, Kermesidae, Margarodidae, Pseudococcidae, Psyllidae and Stictococcidae; secondary parasitoid of hymenopterans *Coccophagus lycimnia* Walk. (Aphelinidae), *Blastothrix longipennis* How. and

- Microterys nietneri* Motsch. (Encyrtidae). Russia: **EP** (NW), **ES** (BR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Israel, Uzbekistan, Kazakhstan, China (NE, NC, CC, SE), Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Coccophagus maculipennis** Yasnov, 1966. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC). – Georgia, Armenia, Azerbaijan.
- Coccophagus obscurus** Westwood, 1833 (*Coccophagus niger* Masi, 1909). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **EP** (N, NW). – Europe (WE, SE, EE), N Africa.
- Coccophagus physokermis** Sugonjaev et Pilipyuk, 1972. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (PR, SA).
- Coccophagus piceae** Erdős, 1956. Primary parasitoid of *Pulvinaria vitis* L. (Hemiptera: Coccidae). Russia: **EP** (N, NW), **ES** (YA), **FE** (PR, SA). – Europe (NE, EE), Turkey.
- Coccophagus rjabovi** Yasnov, 1966. Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NC). – Europe (EE), Azerbaijan.
- Coccophagus rosae** Sugonjaev et Pilipyuk, 1972. Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (SA).
- Coccophagus scutellaris** (Dalman, 1826) [Entedon] (*Coccophagus australiensis* Girault, 1917). Primary parasitoid of hemipterans from the families Coccidae, Diaspididae, Margarodidae and Pseudococcidae; secondary parasitoid of *Coccophagus scutellaris* Dalm. (Hymenoptera: Aphelinidae). Russia: **EP** (NW, NC), **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Lebanon, Israel, Iran, China (NE), Japan, N America, Afrotropics, S America, Australasia.
- Coccophagus semicircularis** (Foerster, 1841) [Myina] (*Encyrtus xanthostictus* Ratzeburg, 1852; *Coccophagus nigrifrons* Wollaston, 1858; *C. lunulatus* Howard, 1894). Primary parasitoid of hemipterans from the family Coccidae. Russia: **EP** (NW), **ES** (BR), **FE** (PR, SA). – Europe (WE, SE, EE), Georgia, Iran, Afghanistan, N America, Afrotropics, Australasia.
- Coccophagus sibiricus** Sugonjaev, 1976. Primary parasitoid of hemipterans from the family Coccidae. Russia: **ES** (IR).
- Coccophagus ussuriensis** Sugonjaev, 1979. Primary parasitoid of *Physokermes jezoensis* Siraiwa (Hemiptera: Coccidae). Russia: **FE** (PR).
- Coccophagus viator** Sugonjaev, 1960. Primary parasitoid of hemipterans from the families Aleyrodidae and Coccidae. Russia: **FE** (PR). – China (SW).
- Coccophagus yoshidae** Nakayama, 1921 (*Coccophagus yoshidai* Peck, 1963). Primary parasitoid of hemipterans from the family Coccidae. Russia: **FE** (SA). – China (NE, NC, CC, SE), Japan, N and S America.
- DIASPINIPHAGUS** Silvestri, 1927 (*Primaprospaltella* DeBach et LaSalle, 1981). Type species: *Prospalta similis* Masi, 1908. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 9, Palaearctic – 3, Russia – 1.
- Diaspiniphagus moeris** (Walker, 1839) [Aphelinus] (*Pteroptrix janiae* Walker, 1839; *Prospalta similis* Masi, 1908; *Prospaltella ilicis* Mercet, 1921; *Coccophagoides parvipennis* Ferrière, 1955; *Prospaltella silwoodensis* Alam, 1956). Primary parasitoid of hemipterans from the families Asterolecaniidae, Diaspididae and Pseudococcidae; secondary parasitoid of hymenopterans *Ablerus celsus* Walk. (Azotidae) and *Diaspiniphagus moeris* Walk. (Aphelinidae). Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Uzbekistan, N America.
- ENCARSIA** Foerster, 1878 (*Aspidiotiphagus* Howard, 1894; *Prospalta* Howard, 1894; *Prospaltella* Ashmead, 1904; *Mimatomus* Cockerell, 1911; *Doloresia* Mercet, 1912; *Prospaltoides* Brèthes, 1914; *Aleurodiphilus* DeBach et Rose, 1981; *Encarsiella* Hayat, 1983). Type species: *Encarsia tricolor* Foerster, 1878. Cosmopolitan. Number of species: World – 453, Palaearctic – 105, Russia – 21.
- Encarsia aleurochitonis** (Mercet, 1931) [Prospaltella]. Primary parasitoid of hemipterans from the family Aleyrodidae. Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), China (CC).
- Encarsia aspidioticola** (Mercet, 1929) [Prospaltella]. Primary parasitoid of hemipterans from the families Aleyrodidae and Diaspididae. Russia: **EP** (NC). – Europe (WE, SE, EE), Georgia, Turkey.
- Encarsia aurantii** (Howard, 1894) [Coccophagus]. Primary parasitoid of hemipterans from the families Aleyrodidae, Diaspididae, Coccidae and Kermesidae; secondary parasitoid of hymenopterans *Ablerus clisiocampae* Ashm. (Azotidae). Russia: **EP** (N, NC). – Europe (WE, SE, EE), N Africa, Georgia, Azerbaijan, Iran, China (NC, CC, SW, SE), Japan, N America, India, SE Asia, S America, Australasia.
- Encarsia berlesei** (Howard, 1906) [Prospalta]. Primary parasitoid of hemipterans from the family Diaspididae; secondary parasitoid of hymenopterans from the families Aphelinidae and Encyrtidae. Russia: **EP** (N). – Europe (WE, SE, EE), N Africa, Turkey, Iran, Afghanistan, China (CC, SW, SE), Korean Peninsula, Japan, N America, SE Asia, Afrotropics, S America.
- Encarsia citrina** (Craw, 1891) [Coccophagus] (*Aspidiotiphagus australiensis* Girault, 1913; *Prospaltoides howardi* Brèthes, 1914; *Aspidiotiphagus schoeversii* Smits van Burgst, 1915; *A. severiniellus* Ghesquière, 1933; *A. cyano-philli* Alam, 1956; *A. silwoodensis* Alam, 1956). Primary parasitoid of hemipterans from the families Aleyrodidae, Asterolecaniidae, Coccidae, Conchaspidae, Diaspididae

- and Eriococcidae; secondary parasitoid of hymenopterans from the families Aphelinidae and Encyrtidae. Russia: **EP** (N, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Iran, China (NE, CC, SW, SE), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Encarsia fasciata** (Malenotti, 1917) [Prospaltella]. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, SE), N Africa, Georgia, Azerbaijan, Israel, Iran, China (NE, SE), Japan, N and S America.
- Encarsia formosa** Gahan, 1924. Primary parasitoid of hemipterans from the family Aleyrodidae; secondary parasitoid of *Encarsia formosa* Gahan (Hymenoptera: Aphelinidae). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Jordan, Israel, Iran, Pakistan, Uzbekistan, China (NE, NC, CC), Korea Peninsula, Japan, N America, SE Asia, Afrotropics, S America, Australasia.
- Encarsia gigas** (Chumakova, 1957) [Prospaltella] (*Prospaltella gigantis* Erdős, 1958). Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: **EP** (NW, NC), **FE** (KH, PR). – Europe (SE, EE), Georgia, Central Asia, China (NE).
- Encarsia inaron** (Walker, 1839) [Aphelinus] (*Aphelinus idaeus* Walker, 1839; *Encarsia partenopea* Masi, 1909; *E. indifferens* Mercet, 1929; *Trichaporus aleyrodidis* Mercet, 1930; *Encarsia brassicae* Shafee et Bela, 1984; *E. borealis* Hulten, 1986). Primary parasitoid of hemipterans from the families Aleyrodidae, Coccidae and Diaspididae and lepidopterans from the families Noctuidae, Pyralidae, Tortricidae and Yponomeutidae; secondary parasitoid of *Encarsia tricolor* Foerst. (Hymenoptera: Aphelinidae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Syria, Jordan, Lebanon, Israel, Iran, Afghanistan, Pakistan, Turkmenistan, Uzbekistan, Kazakhstan, China (NE, NC, NW, SE), N America, India, SE Asia, Afrotropics, S America, Australasia.
- Encarsia lahorensis** (Howard, 1911) [Prospaltella]. Primary parasitoid of hemipterans from the family Aleyrodidae; secondary parasitoid of hymenopterans from the family Aphelinidae. Russia: **EP** (C [introduced to Moscow Province]). – Europe (WE, SE), N Africa, Georgia, Turkey, Israel, Iran, Pakistan, Uzbekistan, China (SE), N America, India.
- Encarsia lehri** Yasnosh, 1989. Primary parasitoid of *Aleurolobus wunni* Ryberg (Hemiptera: Aleyrodidae). Russia: **FE** (PR).
- Encarsia leucaspidis** (Mercet, 1912) [Prospaltella] (*Prospaltella coniferarum* Ghesquière, 1948). Primary parasitoid of hemipterans from the family Diaspididae and secondary parasitoid of *Ablerus atomon* Walk. (Hymenoptera: Azotidae). Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey.
- Encarsia lutea** (Masi, 1909) [Prospaltella] (*Coccophagus sanctus* Girault, 1928). Primary parasitoid of hemipterans from the families Aleyrodidae and Coccidae and lepidopterans from the family Noctuidae; secondary parasitoid of *Encarsia lutea* Masi (Hymenoptera: Aphelinidae). Russia: **EP** (NC). – Europe (WE, SE, EE), N Africa, Syria, Israel, Iran, Pakistan, Turkmenistan, Kazakhstan, China (SE), Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Encarsia margaritiventris** (Mercet, 1931) [Trichaporus]. Primary parasitoid of hemipterans from the family Aleyrodidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Tajikistan.
- Encarsia marinikia** Yasnosh, 1989. Primary parasitoid of *Aleyrodes philadelphi* Danzig (Hemiptera: Aleyrodidae). Russia: **FE** (PR).
- Encarsia maritima** Yasnosh, 1989. Primary parasitoid of *Aleurolobus wunni* Ryberg (Hemiptera: Aleyrodidae). Russia: **FE** (PR).
- Encarsia mescheryakovi** Yasnosh, 1995. Primary parasitoid of *Lopholeucaspis japonica* Cock. (Hemiptera: Diaspididae). Russia: **FE** (PR).
- Encarsia perniciosi** (Tower, 1913) [Prospaltella] (*Prospaltella aurantii argentina* De Santis, 1948). Primary parasitoid of hemipterans from the family Diaspididae; secondary parasitoid of *Aphytis proclia* Walk. and *Encarsia perniciosi* Tower (Hymenoptera: Aphelinidae). Russia: **EP** (C, S, NC [introduced to Stavropol Territory]), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Israel, Iran, Pakistan, China (NE, CC, SE), Korean Peninsula, N America, India, Afrotropics, S America, Australasia.
- Encarsia sophia** (Girault et Dodd, 1915) [Coccophagus] (*Prospaltella transvena* Timberlake, 1926; *P. sublutea* Silvestri, 1931; *P. bemisiae* Ishii, 1938; *P. flava* Shafee, 1973; *Encarsia shafeei* Hayat, 1986). Primary parasitoid of hemipterans from the families Aleyrodidae, Aphididae, Diaspididae and Psyllidae and secondary parasitoid of hymenopterans from the family Aphelinidae. Russia: **FE** (PR). – Europe (SE), N Africa, Turkey, Israel, Iran, Afghanistan, Pakistan, China (SW, SE), Japan, N America, India, SE Asia, Afrotropics, Australasia.
- Encarsia tricolor** Foerster, 1878 (*Prospalta coniugata* Masi, 1908). Primary parasitoid of hemipterans from the family Aleyrodidae; secondary parasitoid of hymenopterans from the family Aphelinidae. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey.
- Encarsia trjapitzini** Yasnosh, 1989. Primary parasitoid of *Aleyrodes philadelphi* Danzig (Hemiptera: Aleyrodidae). Russia: **FE** (PR).
- PTEROPTRIX** Westwood, 1833 (*Gyrolasia* Foerster, 1856; *Archenomus* Howard, 1898; *Pterothrix* Dalla Torre, 1898; *Artas* Howard, 1907; *Casca* Howard, 1907; *Hispaniella* Mercet, 1912; *Pteroptrichoides* Fullaway, 1913;

Apteroptrix Girault, 1915; *Pseudopteroptrix* Fullaway, 1918; *Oa* Girault, 1929; *Aphelosoma* Nikolskaya, 1963). Type species: *Pteroptrix dimidiatus* Westwood, 1833. Cosmopolitan. Number of species: World – 72, Palaearctic – 24, Russia – 9.

Pteroptrix aethiopica (Annecke, 1964) [Archenomus]. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **WS** (AL). – Afrotropics.

Pteroptrix bicolor (Howard, 1898) [Archenomus] (*Pteroptrix caucasicus* Yasnosh, 1955; *P. callunae* Alam, 1956; *P. zonatus* Alam, 1956). Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (N, NW, NC). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Iran, Kazakhstan, China (SE), Japan, N America, SE Asia, S America.

Pteroptrix chinensis (Howard, 1907) [Casca]. Primary parasitoid of hemipterans from the families Coccidae and Diaspididae. Russia: without regions (Liao et al., 1987). – Europe (SE), China (NE, NC, CC, SW), Japan, N America, India.

Pteroptrix dimidiata Westwood, 1833 (*Casca occidentalis* Silvestri et Mercet, 1928; *C. brittanica* Alam, 1956). Primary parasitoid of hemipterans from the families Asterolecaniidae, Coccidae, Diaspididae and Pseudococcidae. Russia: **FE** (PR). – Europe (WE, SE, EE), N Africa, Georgia, Kazakhstan, N and S America.

Pteroptrix lauri (Mercet, 1911) [Archenomus]. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (NC), **FE** (PR). – Europe (SE, EE), N Africa, Georgia, Azerbaijan, Turkey, China (SE).

Pteroptrix longiclava (Girault, 1915) [Apteroptrix] (*Pteroptrix longicornis* Nikolskaya, 1959). Primary parasitoid of hemipterans from the family Diaspididae. Russia: **EP** (NW, S, NC), **FE** (KH, PR). – Europe (WE, SE, EE), Azerbaijan, China (CC, SE).

Pteroptrix maritima Nikolskaya, 1952. Primary parasitoid of *Aulacaspis mali* Borchs., *Chionaspis syringae* Borchs. and *Diaspidiotus perniciosus* Comst. (Hemiptera: Coccoidea). Russia: **EP** (NC), **FE** (PR).

Pteroptrix plana (Nikolskaya, 1963) [Aphelosoma]. Primary parasitoid of *Odonaspis secreta* Cock. (Hemiptera: Coccoidea). Russia: **EP** (NC).

Pteroptrix wanhshensis (Compere, 1953) [Casca]. Primary parasitoid of hemipterans from the family Diaspididae. Russia: **FE** (AM, KH, PR, SA). – China, N America.

Subfamily ERETMO CERINAE

ERETMO CERUS Haldeman, 1850 (*Ricinus* Risbec, 1951). Type species: *Eretmocer* *corni* Haldeman, 1850. Cosmopolitan. Number of species: World – 87, Palaearctic – 38, Russia – 2.

Eretmocer *haldemani* Howard, 1908. Primary parasitoid of hemipterans from the family Aleyrodidae. Russia:

FE (PR). – Europe (WE, EE), Azerbaijan, N America, India, S America.

Eretmocer *mundus* Mercet, 1931 (*Eretmocer* *aligarhensis* Khan et Shafee, 1980; *E. longipilus* Khan et Shafee, 1980). Primary parasitoid of hemipterans from the family Aleyrodidae and secondary parasitoid of *Encarsia pergandiella* Howard (Hymenoptera: Aphelinidae). Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Syria, Jordan, Israel, Iran, Pakistan, Turkmenistan, China (SE), N America, India, SE Asia, Afrotropics, Australasia.

48. FAMILY AZOTIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Azotids are very small chalcid wasps with body length less than 1.0 mm. Antenna usually with white and dark segments, antennal formula 1141 with 1 or 2 anelli. Stigmal vein of fore wing with a thin or swollen pterostigma, postmarginal vein absent, submarginal vein with 1 seta, marginal vein with 3–4 setae. Tarsi with 5 segments. Gaster generally longer than head plus thorax (Wang et al., 2016). The taxonomy and nomenclature of Azotidae species are discussing.

Hyperparasitoids of different hymenopteran primary parasitoids, including other chalcidoids. Some species are confirmed as oophagous (Wang et al., 2016).

Number of taxa: World – 1 genus and 94 species, Palaearctic – 1/14, Russia – 1/2.

References. Yasnosh, 1978; Wang et al., 2016; Noyes, 2019.

ABLERUS Howard, 1894 (*Azotus* Howard, 1898; *Myocnemella* Girault, 1913; *Dimacrocer* Brèthes, 1914). Type species: *Centrodora clisiocampae* Ashmead, 1894. Cosmopolitan. Number of species: World – 94, Palaearctic – 14, Russia – 2.

Ablerus atomon (Walker, 1847) [Encyrtus] (*Azotus marchi* Howard, 1898; *A. mokrzechii* Novicki, 1926). Primary parasitoid of hemipterans from the family Diaspididae, lepidopterans from the family Lasiocampidae; secondary parasitoid of hymenopterans from the family Aphelinidae. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Iran, N and S America, Australasia.

Ablerus pulcherrimus (Mercet, 1922) [Azotus]. Primary parasitoid of hemipterans from the families Diaspididae and Issidae. Russia: **FE** (PR). – Europe (WE, SE, EE).

49. FAMILY ERIAPORIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Eriaporids are previously considered only as a subfamily of the family Aphelinidae. However, in a result of the

provided phylogenetic analysis (Heraty et al., 2013), the new family Eriaporidae Ghesquiere, 1955 (including subfamilies Euryischiinae and Eriaporinae) was justified.

Number of taxa: World – 5 genera and 22 species, Palearctic – 2/2, Russia – 1/1.

References. Trjapitzin, 1978c; Heraty et al., 2013; Noyes, 2019.

Subfamily EURYISCHINAE

EURYISCHIA Riley, 1889. Type species: *Euryischia lestophoni* Riley, 1889. The genus is distributed in the Palearctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 13, Palearctic and Russia – 1.

Euryischia inopinata Masi, 1907. Primary parasitoid of dipterans from the families Chamaemyiidae and Syrphidae. Russia: **EP** (NC), **ES** (IR). – Europe (WE, NE, SE, EE), Uzbekistan, Kazakhstan.

50. FAMILY TRICHOGRAMMATIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Trichogrammatids are minute to small hymenopteran insects 0.3–1.2 mm in length (up to 1.8 mm with ovipositor), its antennae with not more than two funicular segments and all tarsi with three segments.

Majority of trichogrammatids are primary, solitary or gregarious endoparasitoids of the eggs of other insects of Lepidoptera, Hemiptera, Coleoptera, Thysanoptera, Hymenoptera, Diptera and Neuroptera (Noyes, 2019).

Number of taxa: World – 83 genera and 839 species, Palearctic – 42/about 300, Russia – 10/44.

References. Schreiner, 1907; Skriptshinsky, 1928; Kolomiets, 1956a, 1962; Thompson, 1958; Malysheva, 1960; Egorov, Solozhenikina, 1963; Rastegaeva, 1965; Makeev, 1968; Nikiforov, 1970; Kolmakova, 1971; Herting, 1976; Sugonyaev, Sorokina, 1976, 1978; Aksyutova, Gul'dyaeva, 1977; Uchakina, 1977; Nikol'skaya, Trjapitzin, 1978b; Trjapitzin, 1978g; Sorokina, 1978, 1979, 1980, 1984a, 1984b, 1986, 1987, 1989, 1991, 1993; Pushkarev, Mikhail'tsev, 1979; Banit, Mikhail'tsov, 1980; Kolmakova, Molchanova, 1981; Artokhin, 1983a; Sharov et al., 1989; Vechev, 1990; Pintureau, 1993; Fursov, 1995, 2004; Ram et al., 1995; Ryabchinskaya, Kharchenko, 1995; Zinov'eva et al., 1996; Neto, Pintureau, 1997; Esel'son, 1999; Karpova, Reznik, 2002; Kovalenkov, 2002; Pinto, 2004; Sorokina, Vasil'ev, 2005; Reznik et al., 2009; Owen, 2011; Wright, Stouthamer, 2011; Noyes, 2019.

Subfamily OLIGOSITINAE

DOIRANIA Waterston, 1928. Type species: *Doirania leefmansii* Waterston, 1928. The genus is distributed in

the Palearctic region. Number of species: World – 3, Palearctic and Russia – 1.

Doirania longiclavata Yashiro, 1980. Russia: **EP** (NC), **FE** (PR). – Europe (WE), Japan.

LATHROMEROIDEA Girault, 1912. Type species: *Lathromeroidea nigra* Girault, 1912. The genus is distributed in the Holarctic, Oriental, Neotropical and Australasian regions. Number of species: World – 14, Palearctic – 3, Russia – 1.

Lathromeroidea silvarum Nowicki, 1936. Primary parasitoid of coleopterans from the families Dytiscidae and Hydrophilidae. Russia: **FE** (PR). – Europe (EE), China, Japan.

MONORTHOCHAETA Blood, 1923. Type species: *Monorthochaeta nigra* Blood, 1923. The genus is distributed in the Palearctic region. Number of species: World and Palearctic – 3, Russia – 1.

Monorthochaeta galatica Nowicki, 1935. Russia: **WS** (TK). – Europe (EE), Turkey.

OLIGOSITA Walker, 1851 (*Westwoodella* Ashmead, 1904; *Paroligosita* Kurdjumov, 1911). Type species: *Oligosita collina* Walker, 1851. Cosmopolitan. Number of species: World – 96, Palearctic – 29, Russia – 2.

Oligosita impudica Kryger, 1919 (*Oligosita fuscata* Soyka, 1932). Primary parasitoid of *Adelphocoris lineolatus* Goetz. (Hemiptera: Miridae). Russia: **EP** (S). – Europe (WE, NE, EE).

Oligosita subfasciata Westwood, 1879 (*Paroligosita bella* Kurdjumov, 1911; *Oligosita germanica* Girault, 1914; *O. incrassata* Kryger, 1919). Primary parasitoid of *Notostrira erratica* L. and *Trigonotylus ruficornis* Geoff. (Hemiptera: Miridae). Russia: **EP** (NW). – Europe (WE, NE, EE), N Africa.

PRESTWICHIA Lubbock, 1864 (*Austromicron* Tillyard, 1926). Type species: *Prestwichia aquatica* Lubbock, 1864. The genus is distributed in the Palearctic, Oriental and Australasian regions. Number of species: World – 6, Palearctic and Russia – 2.

Prestwichia aquatica Lubbock, 1864 (*Prestwichia brevipennis* Henriksen, 1919). Primary parasitoid of coleopterans from the families Dytiscidae and Hygrobiidae, hemipterans from the families Aphelocheiridae, Nepidae and Notonectidae, Odonata from the families Aeschnidae, Coenagrionidae and Lestidae. Russia: **EP** (NW). – Europe (WE, NE, EE).

Prestwichia solitaria Ruschka, 1913. Primary parasitoid of Odonata from the families Aeschnidae, Coenagrionidae and Lestidae. Russia: **EP** (NW). – Europe (WE).

UFENS Girault, 1911 (*Ufensia* Girault, 1913; *Neocentrobia* Blood, 1923; *Neocentrobia* Blood et Kryger, 1928;

Stephanotheisa Soyka, 1931; *Grantanna* Girault, 1939). Type species: *Ufensia pretiosa* Girault, 1911. Cosmopolitan. Number of species: World – 54, Palearctic – 7, Russia – 1.

Ufens foersteri (Kryger, 1919) [Centrobia] (*Neocentrobia hirticornis* Blood, 1923; *Stephanotheisa vitoldi* Soyka, 1931; *Ufensia xinjiangensis* Hu et Lin, 2003). Primary parasitoid of hemipterans *Circulifer* sp. (Cicadellidae), *Diaspidiotus perniciosus* Comst. (Diaspididae) and *Reuteria marqueti* Puton (Miridae) and orthopterans *Uromenus confusus* Chop. (Tettigoniidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Iran, Pakistan, Turkmenistan, Tajikistan, Kyrgyzstan, China (NW), SE Asia, Afrotropics, Australasia.

USCANA Girault, 1911 (*Bruchoctonus* Grese, 1923). Type species: *Uscana semifumipennis* Girault, 1911. Cosmopolitan. Number of species: World – 31, Palearctic – 14, Russia – 2.

Uscana olgae Fursov, 1987. Russia: without regions (Fursov, 1995). – Europe (EE).

Uscana senex (Grese, 1923) [Bruchoctonus] (*Lathromeris bruchocida* Vassiliev, 1947). Primary parasitoid of coleopterans from the family Chrysomelidae (Bruchinae). Russia: **EP** (C, NC). – Europe (WE, EE), S America.

Subfamily TRICHOGRAMMATINAE

MIRUFENS Girault, 1915 (*Trachocera* Blood et Kryger, 1928). Type species: *Mirufens dentipes* Girault, 1915. The genus is distributed in the Palearctic, Oriental and Australasian regions. Number of species: World – 14, Palearctic – 7, Russia – 1.

Mirufens longicauda (Blood, 1923) [Asynacta] (*Trachocera longicauda* Blood et Kryger, 1928). Primary parasitoid of *Lepidosaphes ulmi* L. (Hemiptera: Diaspididae). Russia: **EP** (C). – Europe (WE, EE).

OPHIONEURUS Ratzeburg, 1852 (*Moaa* Girault, 1930). Type species: *Ophioneurus signatus* Ratzeburg, 1852. The genus is distributed in the Palearctic, Oriental and Australasian regions. Number of species: World – 10, Palearctic – 6, Russia – 1.

Ophioneurus signatus Ratzeburg, 1852. Primary parasitoid of coleopterans from the family Rhynchitidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).

TRICHOGRAMMA Westwood, 1833 (*Calleptiles* Haliday, 1833; *Pentarthron* Riley, 1872; *Aprobosca* Westwood, 1879; *Oophthora* Aurivillius, 1898; *Xanthoatomus* Ashmead, 1904; *Neotrichogramma* Girault, 1911; *Nuniella* Kostadinov, 1988). Type species: *Trichogramma evanescens* Westwood, 1833. Cosmopolitan. Number of species: World – 241, Palearctic – 98, Russia – 32.

Trichogramma achaeae Nagaraja et Nagarkatti, 1970. Primary parasitoid of dipterans from the family Anthomyiidae and many families of Lepidoptera. Russia: without regions (Wright, Stouthamer, 2011). – Europe (WE), China, N America, India, S America.

Trichogramma agrotidis Voegelé et Pintureau, 1982. Primary parasitoid of lepidopterans from the families Noctuidae, Nymphalidae, Pyralidae and Tortricidae. Russia: without regions (Pintureau, 1993). – Europe (WE, EE), S America.

Trichogramma aldanense Sorokina, 1989. Primary parasitoid of *Nematus* sp. (Hymenoptera: Tenthredinidae). Russia: **ES** (YA).

Trichogramma aurosum Sugonjaev et Sorokina, 1976. Primary parasitoid of hymenopterans from the families Cimbicidae and Tenthredinidae, lepidopterans from the families Noctuidae and Tortricidae. Russia: **EP** (C), **WS** (TK, AL), **ES** (ZB). – Europe (EE), N America.

Trichogramma bezdencovii Bezdenko, 1968 (*Trichogramma telengai* Sorokina, 1987). Primary parasitoid of lepidopterans from the families Gelechiidae, Noctuidae and Tortricidae. Russia: **EP** (C, S), **ES** (ZB). – Europe (EE), Armenia, S America.

Trichogramma brassicae Bezdenko, 1968 (*Trichogramma maidis* Pintureau et Voegelé, 1980). Primary parasitoid of dipterans from the family Tachinidae and many families of Lepidoptera. Russia: without regions (Pintureau, 1993). – Europe (WE, SE, EE), Turkey, Iran, China (NC), Japan, N and S America, Australasia.

Trichogramma buesi Voegelé, 1985 (*Trichogramma brassicae* Voegelé, 1982). Primary parasitoid of lepidopterans from the families Gelechiidae, Noctuidae, Pieridae, Pyralidae and Yponomeutidae. Russia: **EP** (E). – Europe (WE, EE), N Africa, N and S America.

Trichogramma cacaeciae Marchal, 1927 (*Trichogramma flavum* Marchal, 1936). Primary parasitoid of *Strobilomyia anthracina* Czerny (Diptera: Tachinidae), *Cimex lectularius* L. (Hemiptera: Cimicidae), *Caliroa cerasi* L. (Hymenoptera: Tenthredinidae) and many families of Lepidoptera. Russia: **EP** (NW, C, NC), **WS** (TK, AL), **FE** (AM). – Europe (WE, NE, SE, EE), N Africa, Turkey, Syria, Iran, Kyrgyzstan, Kazakhstan, China (SE), S America.

Trichogramma dendrolimi Matsumura, 1926 (*Trichogramma pallida* Meyer, 1940). Primary parasitoid of *Deporaus betulae* L. (Coleoptera: Rhynchitidae), *Acantholyda posticalis* Mats. (Hymenoptera: Pamphiliidae) and many families of Lepidoptera; secondary parasitoid of *Euneura lachni* Ashm. and *Pachyneuron solitarium* Hart. (Hymenoptera: Pteromalidae). Russia: **EP** (C, NC), **WS** (OM, TK, NS, KM, AL), **ES** (KS, TU, KR, IR, ZB), **FE** (PR, SA). – Europe (WE, SE, EE), Turkey, Iran, Pakistan, Kazakhstan, China, Korean Peninsula, Japan, India, SE Asia, S America.

Trichogramma embryophagum (Hartig, 1838) [Encyrtus]. Primary parasitoid of hymenopterans from the families

- Pamphiliidae and many families of Lepidoptera. Russia: **EP** (NW, C, NC), **WS** (TK), **FE** (AM). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Turkey, Israel, Iran, Turkmenistan, Kyrgyzstan, Kazakhstan, China, N America, India, SE Asia, S America.
- Trichogramma euproctidis** (Girault, 1911) [Pentarthron] (*Trichogramma meyeri* Sorokina, 1980; *T. voegelei* Pintureau, 1990). Primary parasitoid of *Erioischia brassicae* Bouch. (Diptera: Anthomyiidae) and many families of Lepidoptera. Russia: **EP** (NW, C). – Europe (WE, SE, EE), N Africa, Armenia, Turkmenistan, Tajikistan, Uzbekistan, China, Japan, N America, SE Asia, S America.
- Trichogramma evanescens** Westwood, 1833 (*Calleptiles latipennis* Haliday, 1833; *Trichogramma vitripenne* Walker, 1851; *T. vitripennis* Walker, 1851; *Pentarthron carpocapsae* Schreiner, 1907; *Trichogramma piniperdae* Wolff, 1915; *T. barathrae* Skriptshinsky, 1928; *T. pini* Meyer, 1940; *T. rhenanum* Voegelé et Russo, 1982). Primary parasitoid of coleopterans from the families Chrysomelidae (including Bruchinae), Curculionidae, Dermestidae, Rhynchitidae and Tenebrionidae, dipterans from the families Anthomyiidae, Stratiomyiidae, Syrphidae and Tabanidae, hemipterans from the family Cimicidae, hymenopterans from the families Pamphiliidae and Tenthredinidae and many families of Lepidoptera; secondary parasitoid of *Euphorocera edwardsii* Will. (Diptera: Tachinidae). Russia: **EP** (NW, C, S, NC), **WS** (OM, AL). – Europe (WE, NE, SE, EE), N Africa, Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Uzbekistan, Kazakhstan, China, N America, India, SE Asia, S America.
- Trichogramma exiguum** Pinto et Platner, 1978. Primary parasitoid of many families of Lepidoptera. Russia: **WS** (TK). – N America, India, Afrotropics, S America.
- Trichogramma fasciatum** (Perkins, 1912) [Pentarthron] (*Trichogramma beckeri* Nagarkatti, 1973). Primary parasitoid of lepidopterans from the families Gelechiidae, Geometridae, Lymantriidae, Noctuidae, Pyralidae, Sphingidae and Tortricidae. Russia: without regions (Thompson, 1958). – Europe (EE), Turkmenistan, Japan, N America, India, SE Asia, S America.
- Trichogramma ingricum** Sorokina, 1984. Primary parasitoid of lepidopterans *Sitotroga cerealella* Oliv. (Gelechiidae) and *Acrionicta rumicis* L. (Noctuidae). Russia: **EP** (NW).
- Trichogramma jaxarticum** Sorokina, 1984. Primary parasitoid of *Helicoverpa armigera* Hbn. (Lepidoptera: Noctuidae). Russia: **EP** (S). – Turkmenistan.
- Trichogramma lacustre** Sorokina, 1978. Primary parasitoid of *Mamestra brassicae* L. (Lepidoptera: Noctuidae). Russia: **EP** (C). – Europe (WE, EE).
- Trichogramma lenae** Sorokina, 1991. Russia: **FE** (PR).
- Trichogramma lingulatum** Pang et Chen, 1974. Primary parasitoid of lepidopterans *Dendrolimus sibiricus* Tschet. (Lasiocampidae) and *Samia cynthia* Drury (Saturniidae). Russia: **FE** (AM). – China (NC), Japan.
- Trichogramma margianum** Sorokina, 1984. Primary parasitoid of *Heliothis armigera* Hbn. (Lepidoptera: Noctuidae). Russia: **WS** (TK). – Turkmenistan.
- Trichogramma minutum** Riley, 1871 (*Trichogramma nagarkattiae* Voegelé et Pintureau, 1871; *T. minutissimum* Packard, 1881; *T. intermedium* Howard, 1889; *Xanthoatomus albipes* Ashmead, 1904; *Trichogramma heliocharae* Perkins, 1907; *T. nagarkattii* Voegelé et Pintureau, 1982). Primary parasitoid of coleopterans from the families Cerambycidae, Chrysomelidae, Scolytidae and Sphindidae, dipterans from the families Agromyzidae, Anthomyiidae and Tabanidae, hemipterans from the families Aleyrodidae, Cicadellidae, Diaspididae, Kerriidae and Miridae, hymenopterans from the families Cimbicidae, Pamphiliidae and Tenthredinidae, megalopterans from the family Sialidae, neuropterans from the family Chrysopidae and many families of Lepidoptera; secondary parasitoid of *Bracon gelechiae* Ashm. (Hymenoptera: Braconidae). Russia: **EP** (NC). – Europe (WE, SE, EE), N Africa, Tajikistan, China (SE), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australasia.
- Trichogramma pintoi** Voegelé, 1982. Primary parasitoid of neuropterans from the family Chrysopidae and many families of Lepidoptera. Russia: without regions (Pintureau, 1993). – Europe (WE, SE, EE), Turkey, Iran, Uzbekistan, China (NC), N America, India, S America.
- Trichogramma rossicum** Sorokina, 1984. Primary parasitoid of *Autographa gamma* L. (Lepidoptera: Noctuidae). Russia: **EP** (C).
- Trichogramma savalense** Sorokina, 1991. Primary parasitoid of lepidopterans *Sitotroga cerealella* Oliv. (Gelechiidae) and *Autographa gamma* L. (Noctuidae). Russia: **EP** (C, NC). – Uzbekistan.
- Trichogramma semblidis** (Aurivillius, 1898) [Oophthorax] (*Trichogramma schuberti* Voegelé et Russo, 1982). Primary parasitoid of coleopterans from the families Rhynchitidae and Curculionidae (Scolytinae), dipterans from the families Anthomyiidae, Sciomyzidae and Tabanidae, hymenopterans from the family Pamphiliidae, megalopterans from the family Sialidae and many families of Lepidoptera. Russia: **EP** (NW, C), **WS** (TK, AL). – Europe (WE, NE, SE, EE), Syria, Iran, Kazakhstan, N America, India.
- Trichogramma semifumatum** (Perkins, 1910) [Pentarthron]. Primary parasitoid of coleopterans from the family Chrysomelidae and many families of Lepidoptera. Russia: without regions (Thompson, 1958). – Europe (WE), N America, India, S America.
- Trichogramma sericini** Pang et Chen, 1974. Primary parasitoid of lepidopterans *Heliothis armigera* Hbn. (Noctuidae) and *Papilio polytes* L. (Papilionidae). Russia: **EP** (NC). – Europe, China (NC, CC).
- Trichogramma sibiricum** Sorokina, 1980. Primary parasitoid of lepidopterans from the families Noctuidae, Pyralidae and Tortricidae. Russia: **EP** (NC), **WS** (TK), **ES** (ZB). – N America.

- Trichogramma silvestre** Sorokina, 1984. Primary parasitoid of lepidopterans *Sitotroga cerealella* Oliv. (Gelechiidae) and *Acronicta rumicis* L. (Noctuidae). Russia: **EP** (C).
- Trichogramma talitzkii** Dyurich, 1987. Primary parasitoid of *Chrysopa flava* Scop. (Neuroptera: Chrysopidae). Russia: **WS** (TK). – Europe (WE).
- Trichogramma trjapitzini** Sorokina, 1984. Primary parasitoid of lepidopterans *Euchloe* sp. (Pieridae) and *Plutella xylostella* L. (Plutellidae). Russia: **FE** (MG).
- Trichogramma ussuriicum** Sorokina, 1984. Primary parasitoid of *Mamestra brassicae* L. (Lepidoptera: Noctuidae). Russia: **FE** (PR).

51. FAMILY SIGNIPHORIDAE

E.V. TSELIKH AND V.A. TRJAPITZIN

Signiphorids are small chalcid wasps with black and dorsally depressed body of 0.2–1.5 mm length. They are characterised by antenna with 5–7 segments, clava long and unsegmented; fore and hind wings more or less devoid of discal setae; propodeum with a characteristic large triangular median area; gaster broadly sessile.

Most signiphorids are endoparasitoids of Hemiptera and the puparia of Diptera, other species are hyperparasitoids of chalcid wasps (Noyes, 2019).

Number of taxa: World – 4 genera and 134 species, Palearctic – 4/14, Russia – 2/4.

R e f e r e n c e s. Nikol'skaya, 1952; Thompson, 1953; Noyes, 2019.

CHARTOCERUS Motschulsky, 1859 (*Xana* Kurdjumov, 1917; *Signiphorina* Nikolskaya, 1950; *Neocales* Risbec, 1957). Type species: *Chartocerus musciformis* Motschulsky, 1859. Cosmopolitan. Number of species: World – 33, Palearctic – 9, Russia – 3.

Chartocerus kurdjumovi (Nikolskaya, 1950) [*Signiphora*] (*Xana nigra* Kurdjumov, 1917). Primary parasitoid of dipterans from the family Chamaemyiidae and secondary parasitoids hemipterans from the families Aphididae, Eriococcidae, Pseudococcidae and Psyllidae. Russia: without regions (Thompson, 1958; record needs confirmation). – Europe (SE, EE), India.

Chartocerus niger (Ashmead, 1900) [*Signiphora*] (*Signiphora argentina* Brèthes, 1913). Primary parasitoid of dipterans from the family Cecidomyiidae and secondary parasitoid of hemipterans from the families Coccidae, Diaspididae and Pseudococcidae via the primary parasitoids from the family Encyrtidae (Hymenoptera). Russia: without regions (Thompson, 1958). – Europe (WE, SE), N Africa, N and S America.

Chartocerus subaeneus (Foerster, 1878) [*Plastocharis*] (*Signiphorina mala* Nikolskaya, 1950). Primary parasitoid of coleopterans from the family Coccinellidae, dipterans from the family Chamaemyiidae and hemipterans from

the families Aleyrodidae, Aphididae, Coccidae, Diaspididae, Eriococcidae and Pseudococcidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Israel, Turkmenistan, China (NW), Afrotropics.

THYSANUS Walker, 1840 (*Plastocharis* Foerster, 1856; *Triphasius* Foerster, 1856; *Neosigniphora* Rust, 1913). Type species: *Thysanus ater* Walker, 1840. The genus is distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 4, Palearctic and Russia – 1.

Thysanus ater Walker, 1840. Primary parasitoid of hemipterans from the families Coccidae and Diaspididae; also reported as a secondary parasitoid via hymenopterans from the families Aphelinidae and Encyrtidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Georgia, Turkey, N America, India, Afrotropics, S America.

52. FAMILY MYMARIDAE

S.V. TRIAPITSYN AND E.V. TSELIKH

Mymarids, or fairyflies, are minute to small (most are 0.2–2.5 mm long), usually delicate wasps which are almost exclusively primary egg parasitoids of other insects such as various Auchenorrhyncha and Heteroptera (Hemiptera), Coleoptera, Odonata, Orthoptera and Psocoptera. Besides their host associations, which are confirmed only for a few genera and species and are often incorrectly reported in various catalogues and databases, their biology is usually poorly known. Most mymarids are apparently solitary endoparasitoids but some are gregarious. The family is distributed worldwide and is most diverse in humid tropical and subtropical regions. Its fauna in the Palearctic region is rather depauperate, more so in its western part, but is more diverse in its eastern part (such as the Russian Far East). Although they can be quite easily overlooked in sweep net samples, mymarids are very common almost everywhere and often can be collected in large numbers in Malaise, flight intercept and yellow pan traps, and on windows. Integument of most mymarid genera easily collapses when air-dried, so proper drying techniques from ethanol such as using a critical point drier or hexamethyldisilazane, are a must. Sexual dimorphism in Mymaridae is prominent: female antenna is distinctly clavate while that of male is filiform. Identification beyond genus level is based mainly on females, and correct species determinations usually require preparation of high quality microscopic slides. Higher classification within the family is unstable, so the previous subfamily and tribal subdivisions were not natural and should not be used until results of a rigorous phylogenetic analysis based on combined morphological and molecular data becomes available. Currently, the genera are informally grouped as suggested by Lin et al. (2007).

The number of good species in Europe is much less than that of nominal species, due to description of the numerous

taxa based on intraspecific rather than interspecific variation by Soyka (1956, etc.) in the genus *Polynema* Haliday, 1833, which is currently under revision by S.V. Triapitsyn. That will undoubtedly result in a drastic (by at least 70 nominal species) reduction in the number of valid European species; for that reason, the current count in the Palaearctic region (about 340 extant species) is misleading, but the number of the extant genera in this region (31) is rather stable.

Number of taxa: World – 116 genera and about 1300 species, Palaearctic – 31/about 340, Russia – 23/115.

References. Soyka, 1949, 1956; Hellén, 1974; Trjapitzin, 1978; Huber, 1986, 2015; Triapitsyn, Huber, 2000; Berezovskiy, Triapitsyn, 2001; Triapitsyn, Berezovskiy, 2001, 2002a, 2002b, 2003, 2004a, 2004b, 2007; Triapitsyn, 2002a, 2002b, 2003, 2010, 2012a, 2013, 2014a, 2014b, 2015a, 2015b, 2015c, 2015d, 2017; Triapitsyn, Fidalgo, 2006; Lin et al., 2007; Donev, Triapitsyn, 2010; Triapitsyn, Proshchalykin, 2012; Pricop, 2013; Huber, Thuróczy, 2018; Triapitsyn et al., 2018; Noyes, 2019.

ACMOPOLYNEMA Ogloblin, 1946 (*Grangeriella* Soyka, 1956; *Neonarayanella* Husain et Farooqi, 1996; *Baburia* Hedqvist, 2004). **Type species:** *Stichothrix bifasciati-pennis* Girault, 1908. The genus is distributed in the Eastern Palaearctic, Nearctic, Oriental, Afrotropical, Neotropical and Australasian regions. Number of species: World – 61, Palaearctic – 4, Russia – 3.

Acmopolynema michailovskayae Berezovskiy et Triapitsyn, 2001. Russia: **FE** (PR).

Acmopolynema pacificum Berezovskiy et Triapitsyn, 2001. Russia: **FE** (PR).

Acmopolynema ussuricum Berezovskiy et Triapitsyn, 2001. Russia: **FE** (PR).

ALAPTUS Westwood, 1839 (*Parvulinus* Mercet, 1912; *Metalaptus* Malenotti, 1917). **Type species:** *Alaptus minimus* Westwood, 1839. Cosmopolitan. Number of species: World – 42, Palaearctic – 10, Russia – 8.

Alaptus fuscus Walker, 1846 (*Alaptus extremus* Soyka, 1939; *A. foersteri* Soyka, 1939; *A. novickyi* Soyka, 1948; *A. magnus* Cheke et Turner, 1974). Primary parasitoid of *Mesopsocus* spp. (Mesopsocidae) and other Psocoptera. Russia: **EP** (NW, C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Kyrgyzstan, China (NC), N and S America.

Alaptus longicaudatus Lou, Cao et Lou, 1999. Russia: **FE** (PR). – China (NE).

Alaptus minimus Westwood, 1839 (*Alaptus intonsipennis* Girault, 1910; *Parvulinus auranti* García Mercet, 1912; *Alaptus maccabei* Girault, 1913; *A. borinquensis* Dozier, 1932; *A. maidli* Soyka, 1939; *A. malchinensis* Soyka, 1948; *A. aegyptiacus* Soyka, 1950; *A. crassus* Kryger, 1950; *A. uncinatus* Kryger, 1950). Primary parasitoid of various Psocoptera. Russia: **EP** (NW, C), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Caucasus,

Pakistan, Kyrgyzstan, China, N and S America, Cape Verde Is, Puerto Rico, Australasia.

Alaptus pallidicornis Foerster, 1856 (*Alaptus excisus* Westwood, 1879; *Metalaptus torquatus* Malenotti, 1917; *Alaptus psocidivorus* Gahan, 1927; *A. pechlaneri* Soyka, 1948). Primary parasitoid of various Psocoptera. Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), N Africa, Israel, China (NC), N America.

Alaptus plih Triapitsyn, 2017. Russia: **FE** (SA).

Alaptus santetrapsi Triapitsyn, 2017. Russia: **FE** (PR). – N America.

Alaptus stammeri Soyka, 1939 (*Alaptus tritrichosus* Maláč, 1947; *A. richardsi* Hincks, 1960). Primary parasitoid of various Psocoptera. Russia: **EP** (C), **FE** (PR, SA). – Europe (WE, NE, EE), Georgia, Australasia.

Alaptus terebrans Kryger, 1950. Russia: **EP** (C, NC). – Europe (WE, NE), Georgia.

ANAGROIDEA Girault, 1915 (*Dahmsia* Doutt, 1975). **Type species:** *Eustochus dubius* Girault, 1913. The genus is distributed in the Eastern Palaearctic, Nearctic, Oriental, Neotropical and Australasian regions. Number of species: World – 6, Palaearctic – 2, Russia – 1.

Anagroidea marina Triapitsyn et Berezovskiy, 2002. Russia: **FE** (PR, SA). – China (NW, WP, SW), Korean Peninsula, Japan.

ANAGRUS Haliday, 1833 (*Pteratomus* Packard, 1864; *Packardiella* Ashmead, 1904; *Paranagrus* Perkins, 1905; *Anagrella* Bakkendorf, 1962). **Type species:** *Ichneumon atomus* Linnaeus, 1767. Cosmopolitan. Number of species: World – 85, Palaearctic – 39, Russia – 19.

Anagrus ainu Triapitsyn et Berezovskiy, 2004. Russia: **FE** (SA).

Anagrus atomus (Linnaeus, 1767) [*Ichneumon*] (*Anagrus spiritus* Girault, 1911; *A. bartheli* Tullgren, 1916; *A. minimus* Menozzi, 1942; *A. tullgreni* Hedqvist, 1954; *A. devius* Soyka, 1956; *A. gabitzi* Soyka, 1956; *A. hundsheimensis* Soyka, 1956; *A. kressbachii* Soyka, 1956; *A. lemonicolor* Soyka, 1956; *A. levis* Soyka, 1956; *A. stammeri* Soyka, 1956; *A. varius* Soyka, 1956; *A. proscassellatii* Viggiani et Jesu, 1995). Primary parasitoid of hemipterans from the families Cicadellidae and Delphacidae. Russia: **EP** (C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Yemen, Iran, Pakistan, Turkmenistan, Kyrgyzstan, China (NE, NW, SW, SE), Korean Peninsula, Japan, N America, Cape Verde Is, S America, Australasia.

Anagrus avalae Soyka, 1956 (*Anagrus nigriceps* Girault, 1915; *A. arcuatus* Soyka, 1956; *A. diversicornis* Soyka, 1956; *A. valkenburgensis* Soyka, 1956; *A. oregonensis* Triapitsyn, 1996). Primary parasitoid of hemipterans from the family Cicadellidae. Russia: **EP** (NW, C), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Iran, N America, Australasia.

Anagrus brocheri Schulz, 1910 (*Anagrus andreae* Soyka, 1956; *A. latior* Soyka, 1956). Primary parasitoid of Odonata

- Coenagrion pulchellum* Vander Linden and *Erythromma najas* Hanseman (Coenagrionidae), *Sympecma paedisca* Brauer and *Lestes* sp. (Lestidae). Russia: **FE** (SA). – Europe (WE, NE, SE, EE), Kyrgyzstan, Kazakhstan.
- Anagrus ensifer** Debauche, 1948. Primary parasitoid of hemipterans *Conomelus anceps* Germ. and *Muellerianella fairmairei* Perris (Delphacidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE).
- Anagrus fennicus** Soyka, 1956 (*Anagrus capensis* Heqvist, 1960). Primary parasitoid of hemipterans *Cicadella viridis* L. (Cicadellidae). Russia: **EP** (C). – Europe (WE, NE, SE), Kyrgyzstan, Afrotropics.
- Anagrus fisheri** Donev, 1998. Russia: **FE** (PR). – Europe (SE, EE).
- Anagrus frequens** Perkins, 1905 (*Anagrus cicadulinae* Ferrière, 1930; *A. toyae* Pang et Wang, 1985). Primary parasitoid of hemipterans from the families Cicadellidae and Delphacidae. Russia: **FE** (PR, SA). – China (SE), Japan, N America, SE Asia, Afrotropics, S America, Australasia, Oceanic region.
- Anagrus hirashimai** Sahad, 1982. Russia: **FE** (PR, SA). – China (SE), Korean Peninsula, Japan.
- Anagrus incarnatus** Haliday, 1833 (*Anagrus breviphragma* Soyka, 1956; *A. danicus* Soyka, 1956; *A. incarnatosimilis* Soyka, 1956; *A. longigaster* Soyka, 1956; *A. neopallidus* Soyka, 1956; *A. ovipositor* Soyka, 1956; *A. pallidior* Soyka, 1956; *A. pulcher* Soyka, 1956; *A. pulcherrimus* Soyka, 1956; *A. supremus* Soyka, 1956; *A. vacuipennis* Soyka, 1956; *A. varicolor* Soyka, 1956; *A. mutans* Walker, 1979; *A. silwoodensis* Walker, 1979; *A. stenocrani* Walker, 1979; *A. nilaparvatae* Pang et Wang, 1985). Primary parasitoid of hemipterans from the families Cicadellidae, Delphacidae and Miridae and *Epiophlebia superstes* Selys (Odonata: Epiophlebiidae). Russia: **EP** (NW, C, NC), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Pakistan, Turkmenistan, Kyrgyzstan, China (CC, NC, SE), Korean Peninsula, Japan, N America, India, Nepal, SE Asia, Mauritius, S America, New Zealand, Oceanic region.
- Anagrus japonicus** Sahad, 1982. Russia: **FE** (PR, SA). – Japan, Papua New Guinea, Australia.
- Anagrus kvas** Triapitsyn et Berezovskiy. Russia: **FE** (PR, SA). – China (NC).
- Anagrus nigriceps** (Smits van Burgst, 1914) [Litus] (*Anagrus dilatatus* Soyka, 1956; *A. longus* Soyka, 1956; *A. obivus* Soyka, 1956; *A. similis* Soyka, 1956; *A. holci* Walker, 1979). Primary parasitoid of hemipterans *Dicranotropis hamata* Boh. (Delphacidae) and *Orius majusculus* Reut. (Anthicoridae). Russia: **EP** (C, NC), **WS** (OM), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Israel, Kyrgyzstan, China (SW), N America.
- Anagrus obscurus** Foerster, 1861. Primary parasitoid of hemipterans *Cicadella viridis* L. (Cicadellidae) and *Anakelisia fasciata* Kirschbaum (Delphacidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, SE, EE), Kyrgyzstan, Korean Peninsula.
- Anagrus optabilis** (Perkins, 1905) [Paranagrus] (*Anagrus panicolae* Sahad, 1984; *A. paranilaparvatae* Pang et Wang, 1985; *A. prounilinearis* Viggiani et Jesu, 1995). Primary parasitoid of hemipterans from the family Delphacidae. Russia: **FE** (PR). – Europe (SE), Yemen, China (CC, SE), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, Papua New Guinea, Australia, New Zealand.
- Anagrus parvus** Soyka, 1956. Primary parasitoid of hemipterans from the family Cicadellidae. Russia: **EP** (C), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Israel, Kyrgyzstan, S America, New Zealand.
- Anagrus semigladius** Chiappini et Lin, 1998. Russia: **FE** (PR). – China (NE), Australia.
- Anagrus setosus** Chiappini et Lin, 1998. Russia: **FE** (PR). – China (SE), Nepal.
- Anagrus subfuscus** Foerster, 1847 (*Anagrus supremosimilis* Soyka, 1956). Primary parasitoid of hemipterans from the families Cicadellidae, Mesoveliidae and Miridae, Odonata from the families Calopterygidae, Coenagrionidae and Lestidae and coleopterans from the family Gyrinidae. Russia: **EP** (NW, C), **ES** (TU), **FE** (PR). – Europe (WE, NE, SE, EE), Japan, N and S America.
- ANAPHES** Haliday, 1833 (*Panthus* Walker, 1846; *Patasson* Walker, 1846; *Flabrinus* Rondani, 1877; *Anaphoidea* Girault, 1909; *Clinomyrma* Kieffer, 1913; *Yungaburra* Girault, 1933; *Ferrierella* Soyka, 1946; *Fulmekielia* Soyka, 1946; *Hofenederia* Soyka, 1946; *Synanaphes* Soyka, 1946; *Antoniella* Soyka, 1950; *Mariella* Soyka, 1950; *Stammeriella* Soyka, 1950). Type species: *Anaphes fuscipennis* Haliday, 1833. Cosmopolitan. Number of species: World – 58, Palaearctic – 31, Russia – 5.
- Anaphes flavipes** (Foerster, 1841) [Gonatocerus] (*Anaphes lemae* Bakkendorf, 1970). Primary parasitoid of coleopterans from the family Chrysomelidae. Russia: **EP** (NW, C, S, NC). – Europe (WE, SE, EE), N America.
- Remarks.** Most (if not all) records from Russia are due to likely misidentifications.
- Anaphes fuscipennis** Haliday, 1833 (*Anaphes pratensis* Foerster, 1847; *Ferrierella neoprattensis* Soyka, 1946; *F. capitulata* Soyka, 1949; *F. filicornis* Soyka, 1949; *F. maculata* Soyka, 1949; *F. stammeri* Soyka, 1949). Primary parasitoid of coleopterans from the families Chrysomelidae and Curculionidae and hemipterans from the family Miridae. Russia: **EP** (NW). – Europe (WE, SE, EE), N America.
- Anaphes luna** (Girault, 1914) [Anaphoidea] (*Patasson brachygaster* Debauche, 1948; *P. devillei* Debauche, 1948). Primary parasitoid of coleopterans from the family Curculionidae. Russia: **EP** (NW, S), **WS** (AL). – Europe (WE, SE, EE), N America.
- Anaphes nipponicus** Kuwayama, 1932. Primary parasitoid of coleopteran *Oulema oryzae* Kuwayama (Chrysomelidae). Russia: **FE** (PR). – China (SE), Japan.

- Anaphes silesicus** (Soyka, 1946) [Anaphoidea] (*Patasson callescens* Debauche, 1948). Russia: **EP** (NW). – Europe (WE, EE).
- ARESCON** Walker, 1846 (*Leimacis* Foerster, 1847; *Limacis* Foerster, 1856; *Xenomymar* Crawford, 1913; *Neurotes* Enock, 1914). Type species: *Mymar dimidiatus* Curtis, 1832. Cosmopolitan. Number of species: World – 26, Palaearctic – 4, Russia – 2.
- Arescon dimidiatus** (Curtis, 1832) [Mymar] (*Leimacis rufula* Foerster, 1847; *Neurotes flaviventris* Ryland, 1922). Russia: **EP** (C). – Europe (WE, NE, EE).
- Arescon zenit** Triapitsyn et Berezovskiy, 2003. Russia: **FE** (PR). – Japan.
- CAMPTOPTERA** Foerster, 1856 (*Pteroclisia* Foerster, 1856; *Stichothrix* Foerster, 1856; *Eomymar* Perkins, 1912; *Congolia* Ghesquière, 1942; *Sphegilla* Debauche, 1948; *Wertanekiella* Soyka, 1961; *Staneria* Mathot, 1966). Type species: *Camptoptera papaveris* Foerster, 1856. Cosmopolitan. Number of species: World – 56, Palaearctic – 13, Russia – 9.
- Camptoptera cardui** (Foerster, 1856) [Stichothrix] (*Camptoptera foersteri* Girault, 1917; *C. aula* Debauche, 1948; *C. tarsalis* Kryger, 1950; *Stichothrix pechlaneri* Soyka, 1953; *S. stammeri* Soyka, 1953; *Camptoptera lapponica* Hedqvist, 1954). Primary parasitoid of *Cis boleti* Scop. (Coleoptera: Ciidae). Russia: **EP** (N, C, NC). – Europe (WE, NE, SE, EE), N America.
- Camptoptera francisciae** (Debauche, 1948) [Sphegilla] (*Sphegilla japonica* Taguchi, 1971). Russia: **EP** (C). – Europe (WE, SE), China (NW), Japan.
- Camptoptera fuga** Triapitsyn, 2014. Russia: **FE** (SA).
- Camptoptera magna** Soyka, 1946 (*Camptoptera strobilicola* Hedqvist, 1956; *C. hundsheimiensis* Soyka, 1961; *C. kressbachi* Soyka, 1961; *C. nigra* Soyka, 1961; *C. nigrosimilis* Soyka, 1961; *C. signatipennis* Soyka, 1961; *C. minorignatha* Hu et Lin, 2011). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), China (NW), N America.
- Camptoptera matcheta** Subba Rao, 1989 (*Camptoptera kloptera* Triapitsyn, 2014). Russia: **FE** (PR). – China (SE), India.
- Camptoptera papaveris** Foerster, 1856 (*Camptoptera pulla* Girault, 1909; *C. saintpierrei* Girault, 1915; *Sphegilla transilvanica* Bořoc, 1960; *Camptoptera aequilonga* Soyka, 1961; *C. andradae* Soyka, 1961; *C. annulata* Soyka, 1961; *C. colorata* Soyka, 1961; *C. intermedia* Soyka, 1961; *C. interposita* Soyka, 1961; *C. parva* Soyka, 1961; *C. setipaupera* Soyka, 1961; *C. tenuis* Soyka, 1961; *C. grandithoracala* Guo et Wang, 2011). Primary parasitoid of *Oulema melanopus* L. (Coleoptera: Chrysomelidae). Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Kyrgyzstan, China (NW), Japan, N America, Afrotropics, S America.
- Camptoptera poptera** Triapitsyn, 2014. Russia: **FE** (PR, SA).
- Camptoptera stoptera** Triapitsyn, 2014. Russia: **FE** (PR). – China (SE).
- Camptoptera zagvozdka** Triapitsyn, 2014. Russia: **FE** (PR, SA).
- CARAPHRACTUS** Walker, 1846 (*Valkerella* Westwood, 1879; *Walkerella* Dalla Torre, 1898). Type species: *Caraphractus cinctus* Walker, 1846. This monotypic genus is distributed in the Holarctic region.
- Caraphractus cinctus** Walker, 1846 (*Polynema natans* Lubbock, 1864; *Caraphractus reductus* Rimsky-Korsakov, 1920; *C. flavicollis* Hellén, 1974). Primary parasitoid of coleopterans from the family Dytiscidae, hemipterans from the families Gerridae and Notonectidae and Odonata from the families Coenagrionidae and Lestidae. Russia: **EP** (N, NW, C). – Europe (WE, NE, EE), N America.
- CLERUCHUS** Enock, 1909 (*Eucleruchus* Ogloblin, 1940; *Stenopteromymar* Ferrière, 1952; *Douttiella* Annecke, 1961; *Paracleruchus* Yoshimoto, 1971; *Haplochaeta* Noyes et Valentine, 1989). Type species: *Cleruchus pluteus* Enock, 1909. Cosmopolitan. Number of species: World – 31, Palaearctic – 11, Russia – 3.
- Cleruchus kivach** Triapitsyn, 2014. Russia: **EP** (N).
- Cleruchus mikhail** Triapitsyn, 2002. Russia: **FE** (PR).
- Cleruchus petr** Triapitsyn, 2002. Russia: **FE** (PR, SA).
- COSMOCOMOIDEA** Howard, 1908. Type species: *Cosmocomoidea morrilli* Howard, 1908. Cosmopolitan, except Australia and New Zealand. Number of species: World – 85, Palaearctic – 9, Russia – 7.
- Cosmocomoidea atra** (Foerster, 1841) [Gonatocerus] (*Gonatocerus pannonicus* Soyka, 1946; *Lymaenon schmitzi* Debauche, 1948; *L. indicus* Subba Rao et Kaur, 1959; *L. nigroides* Narayanan et Subba Rao, 1961; *L. intermedius* Bořoc, 1962; *L. empoascae* Subba Rao, 1966; *L. populi* Viggiani, 1969). Russia: **EP** (C, NC), **FE** (PR, SA). – Europe, China (NW, SW, SE), N America, India.
- Cosmocomoidea kikimora** (Triapitsyn, 2013) [Gonatocerus]. Russia: **FE** (PR). – China (NC, CC).
- Cosmocomoidea kodaiana** (Mani et Saraswat, 1973) [Ooc-tonus]. Russia: **FE** (PR). – China (CC, SE), Japan, India.
- Cosmocomoidea latipennis** (Girault, 1911) [Gonatocerus] (*Gonatocerus maximus* Girault, 1911). Russia: **EP** (NC), **FE** (PR). – Europe (WE), China (NC, NW, CC, SE), Japan, N America.
- Cosmocomoidea oxypygus** (Foerster, 1856) [Gonatocerus] (*Gonatocerus ovicenatus* Leonard et Crosby, 1915; *Lymaenon megalura* Mathot, 1969). Parasitoid of *Populicerus* sp. and *Rhytidodus decimaquartus* Schrank (Hemiptera: Cicadellidae). Russia: **EP** (NW, NC). – Europe, Turkey, Iran, N America.
- Cosmocomoidea tremulae** (Bakkendorf, 1934) [Lymaenon]. Parasitoid of *Populicerus confusus* Flor and *P. populi* L.

- (Hemiptera: Cicadellidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE).
- Cosmocomoidea woohoo** (Triapitsyn, 2013) [Gonatocerus]. Russia: **FE** (SA).
- DICOPUS** Enock, 1909 (*Kubja* Subba Rao, 1984). Type species: *Dicopus minutissimus* Enock, 1909. Cosmopolitan. Number of species: World – 13, Palaearctic – 3, Russia – 1.
- Dicopus moscovit** Triapitsyn, 2015. Russia: **EP** (C).
- ERYTHMELUS** Enock, 1909 (*Enaesus* Enock, 1909; *Parallelaptera* Enock, 1909; *Anthemella* Girault, 1911). Type species: *Enaesus agilis* Enock, 1909. Cosmopolitan. Number of species: World – 57, Palaearctic – 13, Russia – 9.
- Erythmelus agilis** (Enock, 1909) [*Enaesus*] (*Enaesus laticeps* Enock, 1909; *E. limburgensis* Soyka, 1932). Primary parasitoid of *Leptopterna dolabrata* L. (Hemiptera: Miridae). Russia: **EP** (C), **FE** (SA). – Europe (WE, NE, SE, EE), Kyrgyzstan, N America.
- Erythmelus dichromocnemus** Novicky, 1953 (*Erythmelus lygivorius* Viggiani et Jesu, 1985). Primary parasitoid of *Lygus pratensis* L. and *L. rugulipennis* Poppius (Hemiptera: Miridae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), China (NW), India.
- Erythmelus flavovarius** (Walker, 1846) [Panthus] (*Erythmelus goochi* Enock, 1909; *Enaesus parvus* Soyka, 1932; *E. empoasca* Subba Rao, 1966; *E. spinosus* Mathot, 1969). Primary parasitoid of hemipterans from the family Miridae. Russia: **EP** (C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Iran, Turkmenistan, China (NC, NW), N America, India, SE Asia, Afrotropics.
- Erythmelus israeliensis** Viggiani et Jesu, 1985. Russia: **EP** (NC). – Europe (EE), Israel, Iran, Turkmenistan, China (NW).
- Erythmelus kostjukovi** Triapitsyn, 2003. Russia: **EP** (NC).
- Erythmelus magnus** Triapitsyn, 2003. Russia: **FE** (PR).
- Erythmelus nuinu** Triapitsyn, 2003. Russia: **FE** (PR). – China (NC), Korean Peninsula, India.
- Erythmelus panis** (Enock, 1909) [Parallelaptera] (*Parallelaptera foucarti* Demare, 1973; *P. panchama* Subba Rao, 1989). Primary parasitoid of hemipterans from the family Tingidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Turkmenistan, Kyrgyzstan, China (NC, NW), India, Afrotropics.
- Erythmelus rex** (Girault, 1911) [Anthemella] (*Erythmelus margianus* Trjapitzin, 1993). Primary parasitoid of hemipterans from the families Miridae and Tingidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, SE, EE), Iran, Turkmenistan, Kyrgyzstan, China (NW), N and S America.
- EUBRONCUS** Yoshimoto, Kozlov et Trjapitzin, 1972 (*Stomarostrum* Yoshimoto, Kozlov et Trjapitzin, 1972). Type species: *Eubroncus orientalis* Yoshimoto, Kozlov et Trjapitzin, 1972. The genus is distributed in the Eastern Palaearctic, Oriental, Afrotropical and Australasian regions. Number of species: World – 6, Palaearctic – 2, Russia – 1.
- Eubroncus prodigiosus** (Yoshimoto, Kozlov et Trjapitzin, 1972) [Stomarostrum]. Russia: **FE** (PR). – Korean Peninsula.
- GONATOCERUS** Nees, 1834. Type species: *Gonatocerus longicornis* Nees, 1834. Cosmopolitan. Number of species: World – 45, Palaearctic – 9, Russia – 5 (and 1 extinct).
- Gonatocerus aegyptiacus** Soyka, 1950 (*Lymaenon saipanensis* Doutt, 1955; *L. tarae* Narayanan et Subba Rao, 1961; *Gonatocerus miurai* Sahad, 1982; *G. alami* Shamim et Shafee, 1984; *G. minor* Matthews, 1986). Primary parasitoid of hemipterans *Nephotettix cincticeps* Uhler (Cicadellidae), *Nilaparvata lugens* Stål and *Sogatella furcifera* Horváth (Delphacidae). Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), United Arab Emirates, Kyrgyzstan, Mongolia, Turkey, China (NC), Japan, Korean Peninsula, N America, SE Asia, Afrotropics, Oceanic region.
- Gonatocerus bukashka** Triapitsyn, 2013. Russia: **FE** (SA).
- Gonatocerus fuscicornis** (Walker, 1846) [*Lymaenon*] (*Rachistus sulphuripes* Foerster, 1847; *Gonatocerus pictosimilis* Soyka, 1946; *Lymaenon alecto* Debauche, 1948; *L. crassipes* Debauche, 1948; *L. synaptus* Debauche, 1948). Primary parasitoid of *Capsus ater* L. (Hemiptera: Miridae). Russia: **EP** (NW, C, E, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, United Arab Emirates, Kyrgyzstan, China (NW), Japan, Korean Peninsula, N America, India.
- Gonatocerus longicornis** Nees, 1834 (*Rachistus terebrator* Foerster, 1847; *Gonatocerus cicadellae* Nikolskaya, 1951; *Lymaenon shashthryi* Subba Rao et Kaur, 1959; *L. britteni* Hincks, 1960; *L. longiventris* Bořoc, 1963). Primary parasitoid of hemipterans from the family Cicadellidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Kyrgyzstan, China (NE, NW), Korean Peninsula, Japan, India, SE Asia.
- Gonatocerus pictus** (Haliday, 1833) [Ooctonus] (*Gonatocerus flavus* Foerster, 1841; *G. orthopenitus* Guo, Lin et Hu, 2011). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Georgia, Kyrgyzstan, China (NW).
- HIMOPOLYNEMA** Taguchi, 1977. Type species: *Himopolynema hishimonus* Taguchi, 1977. The genus is distributed in the Eastern Palaearctic, SE Asia and Australia. Number of species: World – 14, Palaearctic – 1, Russia – 1 (undescribed).
- Himopolynema sp.** Russia: **FE** (PR).
- LITUS** Haliday, 1833 (*Malfattia* Meunier, 1901; *Neolitus* Ogloblin, 1935; *Neolitiscus* Ghesquière, 1946). Type

species: *Litus cynipseus* Haliday, 1833. Cosmopolitan. Number of species: World – 15, Palaearctic – 5, Russia – 2 (and 2 extinct).

Litus camptopterus Novicky, 1953 (*Litus distinctus* Bořoc, 1964). Russia: **EP** (C), **FE** (PR). – Europe (WE, EE), Kyrgyzstan, China (SE), Korean Peninsula, N America.

Litus cynipseus Haliday, 1833 (*Litus krygeri* Kieffer, 1913). Primary parasitoid of coleopteran *Ocypus olens* Müll. and *Ocypus* sp. (Staphylinidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Moldova, Turkey, Kyrgyzstan, Korean Peninsula, Japan, N America, Afrotropics.

LYMAENON Walker, 1846 (*Rachistus* Foerster, 1847; *Rhachistus* Dalla Torre, 1898; *Oophilus* Enock, 1909; *Agonatocerus* Girault, 1913; *Gonatocerus* Girault, 1913; *Decarthrius* Debauche, 1949). Type species: *Lymaenon acuminatus* Walker, 1846. Cosmopolitan. Number of species: World – 157, Palaearctic – 25, Russia – 14.

Lymaenon aureus (Girault, 1911) [Gonatocerus] (*Gonatocerus tenuipennis* Girault, 1911; *Lymaenon chrysis* Debauche, 1948; *Gonatocerus flavus* Soyka, 1950; *Lymaenon pahlgamensis* Narayanan, 1961; *Gonatocerus kanheriensis* Mani et Saraswat, 1973; *G. gracilentus* Hellén, 1974; *G. aligarhensis* Shamim et Shafee, 1984; *G. fukuokensis* Sahad, 1984). Primary parasitoid of *Neolitturidae* *tenellus* Baker (Hemiptera: Cicadellidae). Russia: **EP** (C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Turkey, Kyrgyzstan, China (NC), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, New Zealand.

Lymaenon karlik (Triapitsyn, 2013) [Gonatocerus]. Russia: **EP** (NC). – China (NC), Korean Peninsula.

Lymaenon katraps (Triapitsyn, 2013) [Gonatocerus]. Russia: **FE** (PR). – Korean Peninsula.

Lymaenon kazak (Triapitsyn, 2013) [Gonatocerus]. Primary parasitoid of *Neolitturidae* *tenellus* Baker (Hemiptera: Cicadellidae). Russia: **EP** (NC). – Europe (SE), N America, Afrotropics.

Lymaenon krasavchik (Triapitsyn, 2013) [Gonatocerus]. Russia: **FE** (PR).

Lymaenon kulik (Triapitsyn, 2013) [Gonatocerus]. Russia: **FE** (PR).

Lymaenon kum (Triapitsyn, 2013) [Gonatocerus]. Russia: **FE** (SA).

Lymaenon kusaka (Triapitsyn, 2013) [Gonatocerus]. Russia: **FE** (PR).

Lymaenon litoralis (Haliday, 1833) [Ooetonus] (*Alaptus fuscus* Foerster, 1861; *Gonatocerus exiguus* Foerster, 1861; *G. anthonomi* Girault, 1905; *G. americanus* Brues, 1907; *G. brunneus* Girault, 1911; *G. maevius* Girault, 1911; *G. texanus* Girault, 1911; *G. illinoiensis* Girault, 1917; *G. radiculatus* Ahlberg, 1925; *Lymaenon effusi* Bakkendorf, 1934; *L. paludis* Debauche, 1948; *L. rhacodes* Debauche, 1948; *Gonatocerus priesneri* Soyka, 1950;

Lymaenon arduennae Mathot, 1969; *Gonatocerus pulchellus* Hellén, 1974). Primary parasitoid of hemipterans from the family Cicadellidae. Russia: **EP** (NW, C, E, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Cyprus, Iran, Kyrgyzstan, Turkmenistan, Mongolia, China (NC), Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America.

Lymaenon longior (Soyka, 1946) [Gonatocerus] (*Lymaenon conicus* Mathot, 1969). Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Georgia, Turkey, Kyrgyzstan.

Lymaenon novickyi (Soyka, 1946) [Gonatocerus] (*Lymaenon fossarum* Hincks, 1952). Russia: **EP** (NW). – Europe (WE, EE), Kyrgyzstan.

Lymaenon saulfrommeri (Triapitsyn, 2013) [Gonatocerus]. Russia: **FE** (PR).

Lymaenon thyrides Debauche, 1948. Russia: **EP** (PC, NC). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey.

Lymaenon ucrici (Triapitsyn, 2013) [Gonatocerus]. Russia: **FE** (PR).

MYMAR Curtis, 1829 (*Pterolinononyktra* Maláč, 1943; *Oglobliniella* Soyka, 1946). Type species: *Mymar pulchellum* Curtis, 1832. Cosmopolitan. Number of species: World – 15, Palaearctic – 6, Russia – 4.

Mymar ermak Triapitsyn et Berezovskiy, 2001. Russia: **FE** (PR).

Mymar maritimum Triapitsyn et Berezovskiy, 2001. Russia: **FE** (PR). – China (SE).

Mymar pulchellum Curtis, 1832 (*Mymar spectabilis* Foerster, 1856; *Pterolinononyktra obenbergeri* Maláč, 1943). Russia: **EP** (C), **FE** (PR, SA, KA). – Europe (WE, NE, EE), Georgia, Japan.

Mymar taprobanicum Ward, 1875 (*Mymar tyndalli* Girault, 1912; *M. antillanum* Dozier, 1937; *M. indica* Mani, 1942; *Oglobliniella aegyptiaca* Soyka, 1950). Primary parasitoid of hemipterans from the families Cicadellidae and Delphacidae. Russia: **EP** (NC), **FE** (PR). – Almost cosmopolitan.

Ooetonus Haliday, 1833 (*Sphecomicrus* Walker, 1846). Type species: *Ooetonus insignis* Haliday, 1833. Cosmopolitan. Number of species: World – 38, Palaearctic – 14, Russia – 10.

Ooetonus hemipterus Haliday, 1833 (*Eutriche amoena* Foerster, 1841; *Ooetonus atroclavatus* Kieffer, 1913; *O. foersteri* Soyka, 1941; *O. wagneri* Soyka, 1941; *O. pechlaneri* Soyka, 1949; *O. soykai* Hincks, 1952). Russia: **EP** (NW, C), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Kyrgyzstan, N America, Afrotropics.

Ooetonus insignis Haliday, 1833 (*Ooetonus major* Foerster, 1847; *O. austriacus* Soyka, 1949; *O. elegantissimus* Soyka, 1949; *O. silvestris* Soyka, 1949; *O. isotomus* Mathot, 1969). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE).

Ooetonus lokomotiv Triapitsyn, 2010. Russia: **FE** (PR, SA).

- Ooetonus notatus** Walker, 1846 (*Ooetonus heterotomus* Foerster, 1847; *O. atroflavus* Soyka, 1949; *O. diversicornis* Soyka, 1949). Primary parasitoid of *Acocephalus* sp. (Hemiptera: Cicadellidae). Russia: **EP** (NW, C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Kyrgyzstan, China, Japan, N America.
- Ooetonus novickyi** Soyka, 1950 (*Ooetonus flaviventris* Donev, 1990). Russia: **FE** (PR). – Europe (WE, NE, EE), Kyrgyzstan, China.
- Ooetonus orientalis** Doutt, 1961. Primary parasitoid of *Cicadella viridis* L. and *Nephotettix cincticeps* Uhler (Hemiptera: Cicadellidae). Russia: **FE** (PR, SA). – China (NE), Japan.
- Ooetonus saturn** Triapitsyn, 2010. Russia: **FE** (PR). – China (NE), Japan.
- Ooetonus sublaevis** Foerster, 1847 (*Ooetonus polonicus* Soyka, 1949; *O. montanus* Soyka, 1950; *O. remonti* Mathot, 1969; *O. dovrensis* Solem et Sveum, 1980). Russia: **EP** (C), **FE** (PR, SA). – Europe (WE, NE, EE), China (NE), Japan, N America.
- Ooetonus tretiakovi** Triapitsyn, 2010. Russia: **FE** (PR, SA).
- Ooetonus vulgatus** Haliday, 1833 (*Ooetonus americanus* Girault, 1916; *O. auripes* Whittaker, 1931; *O. wesmaeli* Debauche, 1948; *O. acutiventris* Soyka, 1949; *O. collinus* Soyka, 1949; *O. stammeri* Soyka, 1949; *O. viennensis* Soyka, 1949; *O. niger* Soyka, 1950; *O. askhamensis* Hincks, 1952). Primary parasitoid of *Philaenus spumarius* L. (Hemiptera: Cercopidae). Russia: **EP** (NW, C, NC), **FE** (SA). – Europe (WE, NE, SE, EE), N America, New Zealand.
- PALAEONEURA** Waterhouse, 1915 (*Chaetomyrmar* Ogloblin, 1946; *Acanthomyrmar* Subba Rao, 1970). Type species: *Palaeoneura interrupta* Waterhouse, 1915. Cosmopolitan. Number of species: World – 52, Palaearctic – 3, Russia – 1.
- Palaeoneura kusnezovi** (Ogloblin, 1946) [*Chaetomyrmar*]. Russia: **FE** (PR). – China (NE).
- POLYNEMA** Haliday, 1833 (*Eutriche* Nees, 1834; *Doriclytus* Foerster, 1847; *Callitriche* Agassiz, 1848; *Cosmocoma* Foerster, 1856; *Doryclytus* Dalla Torre, 1898; *Barypolynema* Ogloblin, 1946; *Maidliella* Soyka, 1946; *Novickyella* Soyka, 1946; *Formicomymar* Yoshimoto, 1990; *Restisoma* Yoshimoto, 1990). Type species: *Polynema flavipes* Walker, 1846. Cosmopolitan. Number of species: World – 228, Palaearctic – 146 (mostly nominal species to be synonymized, hence the true number is much less), Russia – 6.
- Polynema atratum** Haliday, 1833. Russia: **EP** (NW). – Europe (WE).
- Polynema fumipenne** Walker, 1846. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Polynema laetum** Foerster, 1847. Russia: **EP** (NW). – Europe (WE, EE), Turkey.
- Polynema pusillum** Haliday, 1833. Russia: **EP** (NW). – Europe (WE, EE), Turkey.
- Polynema vitripenne** (Foerster, 1847) [*Doriclytus*]. Primary parasitoid of *Populicerus confusus* Flor (Hemiptera: Cicadellidae). Russia: **EP** (C). – Europe (WE, NE).
- Polynema wagneri** Rimsky-Korsakov, 1920. Russia: **ES** (KR).
- STEPHANODES** Enock, 1909 (*Eustephanodes* Ogloblin, 1967; *Masonana* Yoshimoto, 1990). Type species: *Stephanodes elegans* Enock, 1909 (= *Polynema similis* Foerster, 1847). Cosmopolitan. Number of species: World – 6, Palaearctic – 2, Russia – 2.
- Stephanodes reduvioli** (Perkins, 1905) [*Polynema*] (*Polynema imbricatus* Narayanan et Subba Rao, 1961; *P. ahlaensis* Mani et Saraswat, 1973; *Stephanodes orientalis* Taguchi, 1978). Primary parasitoid of hemipterans from the family Nabidae. Russia: **FE** (PR). – Georgia, Iran, Kyrgyzstan, China (SE), Japan, N America, India, Afrotropics, S America, Australia, New Zealand, Oceanic region.
- Stephanodes similis** (Foerster, 1847) [*Polynema*] (*Stephanodes elegans* Enock, 1909; *Polynema enockii* Girault, 1911; *P. psecas* Girault, 1911; *Stephanodes psecas* Girault, 1912; *Polynema isotoma* Debauche, 1949). Russia: **EP** (NW, C, E). – Europe (WE, NE, SE, EE), Turkey, Turkmenistan, Kyrgyzstan, N America, Afrotropics, S America.
- STETHYNIUM** Enock, 1909. Type species: *Stethynium triclavatum* Enock, 1909. Cosmopolitan, except Neotropical region. Number of species: World – 50, Palaearctic – 2, Russia – 1.
- Stethynium triclavatum** Enock, 1909 (*Stethynium faunum* Girault, 1911). Primary parasitoid of hemipterans from the family Cicadellidae. Russia: **EP** (C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Pakistan, China (NC), N America, India.

SUPERFAMILY MYMAROMMATOIDEA

53. FAMILY MYMAROMMATIDAE

S.V. TRIAPITSYN

Mymarommatids are minute (less than 1 mm long) wasps whose biology is still unknown. Three extant genera are known, and these are easily recognizable by the peculiar structure of the head and fore wing and also by a 2-segmented petiole. The family is distributed almost worldwide in forested habitats but is quite rarely collected, although *Mymaromma ypt* (Triapitsyn et Berezovskiy, 2006) is not uncommon in the Eastern Palaearctic (such as the Russian Far East) and Oriental regions (particularly in Taiwan [new record]). By far the best collecting method for this family is using yellow pan traps. Sexual dimorphism in Mymarommatidae is prominent: female antenna is distinctly clavate while that of male is filiform. Identification beyond genus level is based mainly on females, and correct species determinations usually requires preparation of high quality microscopic slides. Two genera and 10 species of extinct Mymarommatidae are known; mymarommatids are quite common in Baltic amber.

Two species in two genera are known from Europe, one of which occurs in Russia but the other, *Mymaromella ella* Triapitsyn, 2012, was recorded only from Hungary and Romania (Pricop, 2013; as *Mymaromella* sp.).

Number of taxa: World – 3 genera and 18 species, Palaearctic – 2/4, Russia – 1/2.

References. Blood, Kryger, 1922; Nikol'skaya, 1978c; Lin, 1994; Kozlov, 1998b; Triapitsyn, Berezovskiy, 2000, 2006; Gibson et al., 2007; Triapitsyn, 2007, 2012b; Triapitsyn, Proshchalykin, 2012.

MYMAROMMA Girault, 1920 (*Petiolaria* Blood et Kryger, 1922). Type species: *Mymaromma goethei* Girault, 1920. Old World. Number of species: World – 10, Palaearctic and Russia – 2.

Mymaromma anomalum (Blood et Kryger, 1922) [*Petiolaria*]. Russia: **EP** (C), **FE** (PR, SA). – Europe (WE, NE, SE, EE).

Mymaromma ypt (Triapitsyn et Berezovskiy, 2006) [*Palaeomymar*]. Russia: **FE** (PR). – China (SE), Korean Peninsula.

Remarks. This species was misidentified by Lin (1994) as *Palaeomymar anomalum* (Blood et Kryger, 1922) for China (Fujian).

INFRAORDER ICHNEUMONOMORPHA

SUPERFAMILY ICHNEUMONOIDEA

54. FAMILY BRACONIDAE

S.A. BELOKOBYSKIJ

The family Braconidae is the second largest group of the order Hymenoptera after the Ichneumonidae and comprises (according to Yu et al., 2016) 45 subfamilies, more than 1000 genera, more than 20000 already described species and many awaiting description (especially from the tropical regions of the World). Together with the Ichneumonidae and Aphidiidae, this family forms a distinctive superfamily among the assemblage of hymenopterans known as the parasitoid wasps.

One major grouping of Braconidae includes about 17 subfamilies (some of which are small and have controversial status) belonging to the phylogenetic lineage called cyclostomes according to their mouth part morphology, although some members of this lineage (Alysiinae) secondarily lost the hypoclypeal cavity. The second lineage comprising non-cyclostome subfamilies is basically divided into two main complexes – helconoid and microgastroid. Only the microgastroid complex has been well supported in most molecular analyses and currently includes the subfamilies Cheloninae, Adeliinae, Cardiochilinae, Khoikhoiinae, Mendesellinae, Miracinae, Microgastrinae and Ichneutinae. The position of Aphidiinae is instable; according to molecular phylogenies it was revealed as a sister group of the cyclostomes, within the cyclostomes or within the non-cyclostomes (Quicke, 2015). We treat this group as a separate family until there is more solid additional support (including at the molecular level) of its belonging to Braconidae.

Braconid parasitoids are classified as ectoparasitic (developing on the host body, in most cases with its permanent paralysis) or endoparasitic (developing inside the host with, generally, at most only temporary paralysis); endoparasitism is treated as the derived condition in the braconid mode of life. In the terms of parasitoid-host relationships, the concepts of koinobiont and idiobiont were proposed for parasitoids that allow their hosts to continue functioning after being parasitized (hosts continue feeding after a temporary paralysis) and those that do not (hosts are permanently paralysed without feeding or killed), respectively. It is important to understand that, although there are large overlaps, ectoparasitism and endoparasitism do not necessarily correlate with respectively idiobiosis and koinobiosis.

Predominantly Braconidae are solitary or gregarious parasitoids infesting different stages of larvae mainly from numerous families of the orders Lepidoptera (hosts of the highest number of braconid subfamilies), Coleoptera (mainly hosts for basal braconid groups of both of the two principle

lineages, Doryctinae, Braconinae, Helconinae, Brachistinae), Diptera (mainly two subfamilies, Alysiinae and Opiinae) and Hymenoptera (occurring in genera of some basal subfamilies, otherwise only the members of subfamily Ichneutinae are completely specialised on sawfly larvae). Ovipositing into eggs with following parasitoid development in the host larvae occurs in several groups, but especially in the subfamilies Brachistinae and Cheloninae. Some taxa of the subfamily Euphorinae infest and develop in the nymphs of Psocoptera and Heteroptera or adults of Orthoptera, Neuroptera, Hymenoptera and Coleoptera. Several tropical genera (mainly from Doryctinae) were recorded as phytophagous or gall-forming wasps (Zaldívar-Riverón et al., 2007, 2014). Genuine egg, cocoon or pupal parasitoids are almost unknown in Braconidae. However, in the subfamily Meteorideinae final development is in the pupae of Lepidoptera (though probably the stage actually attacked would be larval, so this is not really different from the Alysiinae and Opiinae parasitizing cyclorrhaphous Diptera and delaying development until the host pupariates), and a small tropical group of Braconinae (Aspidobraconina) does actually oviposit into Lepidoptera pupae.

In the catalogue, in cases there is more than 3–4 host names we gave only the most common information about parasitoid hosts (their generic or family names); more specified data are present in the according places of the Taxapad Catalogue (Yu et al., 2016). Cosmopolitan family.

Number of taxa: World – 45 subfamilies, more than 1000 genera, about 21000 species, Palaearctic – 32/c. 400/c. 7000, Russia – 29/268/3272.

R e f e r e n c e s. Foerster, 1863; Marshall, 1888, 1891, 1897; Fahringer, 1925–1928, 1930–1931, 1930–1934; Telenga, 1936, 1941, 1956; Tobias, 1967a, 1968, 1971, 1976; Shenefelt, 1969, 1970a, 1970b, 1973a, 1973b, 1973c, 1974, 1975, 1978, 1980; Fischer, 1971; Shenefelt, Marsh, 1976; Tobias et al., 1986a, 1986b; Quicke, van Achterberg, 1990; Shaw, Huddleston, 1991; van Achterberg, 1993a; Belokobylskij et al., 1998; Belokobylskij, Tobias, 2000, 2007; Sharanowski et al., 2011; Quicke, 2015; Yu et al., 2016.

Subfamily ADELIINAE (*ACAELIINAE*)

S.A. BELOKOBYSKIJ

Members of this subfamily are endoparasitoids mainly of the mining caterpillars of Microlepidoptera. Sometimes this group is considered as a tribe of Cheloninae (Quicke, 2015; Yu et al., 2016). Only four genera are known in the subfamily, *Adelius* Haliday, 1833, *Paradelius* De Saeger, 1942, *Sculptomyriola* Belokobylskij, 1988 and *Sinadelius* He et Chen, 2000; all are recorded in the Palaearctic region.

Number of taxa: World – 4 genera and 48 species, Palaearctic – 4/19, Russia – 3/8.

R e f e r e n c e s. Tobias et al., 1986a; Belokobylskij, 1988; Belokobylskij et al., 1998, 2012b; Yu et al., 2016.

ADELIUS Haliday, 1833 (*Acaelius* Haliday, 1834; *Acoelius* Haliday, 1835; *Pleiomorus* Wesmael, 1837; *Anomopterus* Rohwer, 1914; *Myriola* Shestakov, 1932; *Pseudoscapiola* Perepechaenko, 1994). Type species: *Adelius subfasciatus* Haliday, 1833. Number of species: World – 37, Palaearctic – 13, Russia – 4.

Adelius amplius Belokobylskij, 1998. Russia: **FE** (PR).

Adelius clandestinus (Foerster, 1851) [Acoelius]. Endoparasitoid of caterpillars from the family Nepticulidae and dipteran larvae from the family Cecidomyiidae. Russia: **WS** (TM), **FE** (PR, KA, MG). – Europe (WE, SE, EE).

Adelius erythronotus (Foerster, 1851) [Acoelius] (*Acoelius pyrrhia* Deirne, 1945; *A. flavus* Tobias, 1966). Endoparasitoid of caterpillars from the family Nepticulidae. Russia: **EP** (NC), **FE** (PR). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkmenistan, Uzbekistan, Korean Peninsula.

Adelius subfasciatus subfasciatus Haliday, 1833 (*Microgaster germanus* Haliday, 1834; *M. minutissimus* Zetterstedt, 1838). Endoparasitoid of caterpillars from the families Coleophoridae, Gracillariidae, Lyonetidae, Nepticulidae, Tischeriidae and Tortricidae. Russia: **EP** (NW, NC, CR), **ES** (KS), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Georgia, Turkey, Kazakhstan.

Adelius subfasciatus parvulus (Foerster, 1851) [Acoelius]. Endoparasitoid of caterpillars from the families Nepticulidae and Tischeriidae. Russia: **FE** (KH, PR). – Europe (WE, EE).

PARADELIUS De Saeger, 1942. Type species: *Paradelius ghesquierei* De Saeger, 1942. Number of species: World – 5, Palaearctic – 2, Russia – 1.

Paradelius ussuriensis Belokobylskij, 1988. Russia: **FE** (PR).

SCULPTOMYRIOLA Belokobylskij, 1988. Type species: *Sculptomyriola extremiorientalis* Belokobylskij, 1988. Only three Palaearctic species are known in this genus, all were described from the Russian Far East. Perhaps two Nearctic species described in *Paradelius*, *P. rubra* Whitfield, 1988 and *P. nigra* Whitfield, 1988, also belong to this genus.

Sculptomyriola extremiorientalis Belokobylskij, 1988. Russia: **FE** (PR, KU). – Korean Peninsula.

Sculptomyriola ghilarovi Belokobylskij, 1988. Russia: **FE** (PR). – Korean Peninsula.

Sculptomyriola sinevi Belokobylskij, 1998. Russia: **FE** (PR).

Subfamily AGATHIDINAE

S.A. BELOKOBYLSKIJ

This is a large subfamily with a worldwide distribution. All known agathidines are koinobiont endoparasitoids of Lepidoptera caterpillars, of which most are leaf-miners or stem-borers, but the hosts of about one-fifth of agathidine taxa are free-living caterpillars, mainly of moths.

Number of taxa: World – about 50 genera and more than 1200 species, Palaearctic – 12/about 160, Russia – 12/63.

References. Kokujev, 1895; Shestakov, 1928, 1940; Telenga, 1933, 1955; Watanabe, 1937; Tobias, 1963, 1976a, 1976b; Belokobylskij, 1986a, 1989a, 1993a; Nixon, 1986; Tobias et al., 1986a; Chou, Sharkey, 1989; Sharkey, 1996; Belokobylskij et al., 1998; Sharkey, Bennett, 2004; Sharkey et al., 2009; van Achterberg, Long, 2010; van Achterberg, 2014.

Tribe AGATHIDINI

AGATHIS Latreille, 1804 (*Cenostomus* Foerster, 1863; *Aenigmotomus* Ashmead, 1900; *Baeognatha* Kokujev, 1903; *Rhaphagathis* Tobias, 1962). Type species: *Agathis malvacearum* Latreille, 1805. Large and almost cosmopolitan genus. Number of species: World – about 160, Palaearctic – 70, Russia – 25.

Agathis anglica Marshall, 1885 (*Agathis longicauda* Kokujev, 1895; *A. marshalli* Fahringer, 1937; *A. albanica* Fischer, 1957; *A. syriaca* Fischer, 1957; *A. caucasica* Tobias, 1963; *A. taiwanensis* Chou et Sharkey, 1989). Endoparasitoid of caterpillars from the families Coleophoridae, Crambidae, Depressariidae, Gelechiidae and Tortricidae. Russia: **EP** (NW, C, S, NC), **UR**, **ES** (KR, IR, YA). – Europe (WE, NE, SE, EE), Morocco, Armenia, Azerbaijan, Turkey, Syria, Iran, Tajikistan, Kazakhstan, Mongolia, China (NE, SE).

Agathis arida Tobias, 1963. Russia: **EP** (S). – Kazakhstan.

Agathis assimilis Kokujev, 1895 (*Agathis jakowlewi* Kokujev, 1895; *A. propinqua* Kokujev, 1895; *A. sibiricus* Telenga, 1933; *A. anchisiades* Nixon, 1986). Endoparasitoid of caterpillars from the family Coleophoridae. Russia: **EP** (NW, C, E, S), **UR**, **WS** (KM), **FE** (? AM: Telenga, 1933). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.

Agathis breviseta Nees, 1812. Endoparasitoid of caterpillars from the families Coleophoridae, Crambidae, Depressariidae, Gelechiidae and Tortricidae. Russia: **EP** (NW, C, E, S), **UR**, **WS** (TK), **ES** (KR, IR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Tajikistan, Kazakhstan, Mongolia.

Agathis cama Sharkey, 1998. Russia: **FE** (KH, PR, KU).

Agathis fuscipennis (Zetterstedt, 1838) [*Microgaster*] (*Agathis glabricula* Thomson, 1895; *A. schmiedeknechti* Kokujev, 1895; *A. annulata* Fahringer, 1937; *A. meridionellae* Fischer, 1957; *A. albicostella* Fischer, 1966; *A. artemisiana* Fischer, 1966). Endoparasitoid of caterpillars from the families Coleophoridae, Epermeniidae, Gelechiidae, Heliodinidae and Tortricidae. Russia: **EP** (C), **UR**, **WS** (AL), **ES** (KR). – Europe (WE, NE, SE, EE), Tunisia, Armenia, Turkey, Iran, Tajikistan, Kazakhstan, Mongolia, Korean Peninsula.

Agathis genalis Telenga, 1955. Russia: **WS** (? KM: Telenga, 1955), **ES** (KR, IR, YA, ZB), **FE** (PR). – Europe (SE), Kazakhstan, Mongolia, Korean Peninsula.

- Agathis glaucoptera** Nees, 1834. Russia: **EP** (C, S, NC), **UR**, **WS** (OM), **ES** (IR). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Turkey, Iran, Kazakhstan.
- Agathis griseifrons** Thomson, 1895 (*Agathis laticarpa* Telenga, 1955). Endoparasitoid of *Pyrausta aurata* Scop. (Crambidae). Russia: **EP** (NC), **UR**, **ES** (KR), **FE** (AM). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Kazakhstan, Mongolia, Korean Peninsula.
- Agathis maetoi** Sharkey, 1996. Russia: **FE** (PR). – Japan (Hon, Kyu).
- Agathis malvacearum** Latreille, 1805 (*Ichneumon panzeri* Latreille, 1805; *Agathis metzneriae* Muesebeck, 1967). Endoparasitoid of caterpillars from the families Coleophoridae, Gelechiidae, Pterophoridae and Tortricidae. Russia: **EP** (NW, C, NC), **UR**, **ES** (KR), **FE** (AM). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula, N America.
- Agathis medinai** Sharkey, 1998. Russia: **FE** (AM, PR).
- Agathis montana** Shestakov, 1932 (*Agathis zaykovi* Nixon, 1986). Endoparasitoid of *Pandemis cerasana* Hbn. (Tortricidae) and *Pyrausta aurata* Scop. (Crambidae). Russia: **EP** (C), **UR**, **FE** (AM). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Israel, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NC, CC, SE), Korean Peninsula.
- Agathis nigra** Nees, 1812 (*Agathis testaceipes* Fischer, 1957; *A. kasachstanica* Tobias, 1963; *A. nixonii* Belokobylskij et Jervis, 1998). Endoparasitoid of caterpillars from the families Coleophoridae, Crambidae, Gelechiidae, Pyralidae and Tortricidae. Russia: **EP** (C, E, S, NC), **UR**, **FE** (SA). – Europe (WE, NE, SE, EE), Morocco, Turkey, Israel, Iran, Kazakhstan, Mongolia, Korean Peninsula.
- Agathis pumila** (Ratzeburg, 1844) [Microdus]. Endoparasitoid of caterpillars from the families Coleophoridae, Tortricidae and Yponomeutidae. Russia: **ES** (TU, IR, BR), **FE** (PR). – Europe (WE, SE, EE), Iran, Mongolia, China (introduced), Japan, N America (introduced).
- Agathis rostrata** Tobias, 1963. Russia: **EP** (NC), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Iran, Kazakhstan, Mongolia.
- Agathis semiaciculata** Ivanov, 1899 (*Agathis striolata* Shestakov, 1928). Endoparasitoid of *Coleophora onobrychiella* Z. (Coleophoridae). Russia: **EP** (S, NC), **FE** (AM, PR, SA, KU). – Europe (WE, SE, EE), Georgia, Azerbaijan, Iran, Turkmenistan, Kazakhstan, Mongolia, China (NE, NC, CC, SE), Japan (Hok).
- Agathis syngenesiae** Nees, 1812 (*Vipio insularis* Vollenhoven, 1873; *Agathis tadhica* Telenga, 1955; *A. gilva* Papp, 1975). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Agathis tatarica** Telenga, 1933. Russia: **ES** (BR). – Europe (SE), Turkey, Kazakhstan, Mongolia.
- Agathis taurica** Telenga, 1955. Russia: **EP** (CR). – Europe (EE), Armenia, Turkey.
- Agathis tibialis** Nees, 1812 (*Agathis genualis* Marshall, 1898). Endoparasitoid of caterpillars from the families Coleophoridae and Gelechiidae. Russia: **EP** (NW, C, E, NC), **WS** (AL), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Agathis umbellatarum** Nees, 1812 (*Agathis brullaei* Lucas, 1849; *A. thoracica* Lucas, 1849; *A. aurantiaca* Fahringer, 1937; *A. kolazyi* Fischer, 1959; *A. gussakovskiyi* Tobias, 1963). Endoparasitoid of caterpillars from the families Gelechiidae and Oecophoridae. Russia: **EP** (S, NC). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Tajikistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Agathis varipes** Thomson, 1895 (*Agathis simulatrix* Kokujev, 1895; *A. rufipes* Ivanov, 1899; *A. dissimilis* Shestakov, 1928; *A. rufilabialis* Fahringer, 1937; *A. glabricollis* Telenga, 1955; *A. serratulae* Tobias, 1963; *A. lederi* Fischer, 1968; *A. ariadne* Nixon, 1986). Endoparasitoid of caterpillars from the families Gelechiidae and Pyralidae. Russia: **EP** (C, NC), **ES** (IR). – Europe (WE, NE, SE, EE), Turkey, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Agathis watanabei** Sharkey, 1996 (*Bassus spatulatus* Sharkey, 1996). Russia: **FE** (PR, SA, KU). – China (NE, SE), Japan (Hok, Hon, Kyu).
- Agathis zaisanica** Tobias, 1963. Russia: **FE** (PR). – Europe (EE), Turkey, Kazakhstan, Mongolia.
- BASSUS** Fabricius, 1804 (*Microdus* Nees, 1812; *Diplozon* Haliday, 1833; *Euryzona* Haliday, 1838; *Eumicrodus* Foerster, 1863; *Aerophilus* Szépligeti, 1902; *Agathellina* Enderlein, 1920; *Ditropia* Enderlein, 1920; *Hemioagaster* Enderlein, 1920; *Ioxia* Enderlein, 1920; *Obesomicrodus* Papp, 1971). Type species: *Ichneumon calculator* Fabricius, 1798. Large genus with worldwide distribution. Number of species: World – about 100, Palaearctic – 30, Russia – 11.
- Bassus brevicaudis** (Reinhard, 1867) [Microdus]. Endoparasitoid of *Coleophora follicularis* Vallot (Coleophoridae) and *Chrysoesthia stipella* Thunb. (Gelechiidae). Russia: **EP** (NC). – Europe (WE).
- Bassus calculator** (Fabricius, 1798) [Ichneumon] (*Microdus abscissus* Ratzeburg, 1844). Endoparasitoid of caterpillars from the family Tineidae. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), Georgia, Turkey.
- Remarks.** Information about rearing of this species from beetles of the families Curculionidae, Melandryidae and Tenebrionidae is perhaps erroneous.
- Bassus clausiellus** Sharkey, 1998. Endoparasitoid of caterpillars from the genus *Parachronistis* (Gelechiidae). Russia: **FE** (PR).
- Bassus festivoides** Sharkey, 1996. Russia: **FE** (SA, KU). – Japan (Hok, Hon, Kyu).

- Bassus inopinatae** (Tobias, 1976) [Microdus]. Endoparasitoid of *Grapholita inopinata* Heinr. (Tortricidae). Russia: **ES** (ZB), **FE** (PR). – Korean Peninsula, Japan (Hok, Hon).
- Bassus mediator** (Nees, 1812) [Microdus] (*Microdus lugubrior* Ratzeburg, 1852). Endoparasitoid of caterpillars from the families Coleophoridae and Gelechiidae. Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Israel, Kazakhstan.
- Bassus peniculus** Sharkey, 1996. Russia: **FE** (PR, SA). – Korean Peninsula, Japan (Hok).
- Bassus pilosus** (Tobias, 1976) [Microdus]. Russia: **FE** (PR, KU). – Japan (Hok, Hon, Kyu).
- Bassus semistriatus** (Walker, 1874) [Lissonota]. Russia: **FE** (PR). – Japan (Hon, Kyu).
- Bassus ussuriensis** (Telenga, 1933) [Microdus]. Russia: **FE** (PR, SA). – China (NE, NC, CC, SE), Japan (Hok, Hon, Shi, Kyu).
- BRAUNSLIA** Kriechbaumer, 1894 (*Metriosoma* Szépligeti, 1902; *Lissagathis* Cameron, 1911; *Laccagathis* Watanabe, 1934; *Pholeocephala* van Achterberg, 1988). Type species: *Braunsia bicolor* Kriechbaumer, 1894. Relatively large and predominantly tropical genus, with a few species penetrating in the South-Eastern Palaearctic. Number of species: World – 74, Palaearctic – 6, Russia – 2.
- Braunsia antefurcalis** Watanabe, 1937 (*Braunsia romani* Shestakov, 1940; *B. graciliventr* Belokobylskij, 1989). Endoparasitoid of *Pleuroptya ruralis* Scop. (Crambidae). Russia: **FE** (KH, PR, KU). – China (CC, SE), Korean Peninsula, Japan (Hok, Shi, Kyu, Ryu).
- Braunsia pilosa** Belokobylskij, 1986. Russia: **FE** (PR). – Japan (Hok, Hon).
- CAMPTOTHLIPSIS** Enderlein, 1920. Type species: *Camptothlipsis costalis* Enderlein, 1920. Medium-sized and mainly tropical or subtropical genus; only two species penetrate in the South Palaearctic. Number of species: World – 26, Palaearctic – 2, Russia – 1.
- Camptothlipsis nigra** (Telenga, 1955) [Baeognatha]. Endoparasitoid of *Coleophora flavipennella* Dup. and *C. luti-pennella* Z. (Coleophoridae). Russia: **UR**. – Europe (WE, EE), Azerbaijan, Kazakhstan.
- LYTOPILUS** Foerster, 1863 (*Neomicrodus* Szépligeti, 1908; *Aerophilopsis* Viereck, 1913; *Aerophilina* Enderlein, 1920; *Ioxia* Enderlein, 1920; *Hormagathis* Brues, 1936; *Obe-somicrodus* Papp, 1971; *Facilagathis* van Achterberg et Chen, 2004). Type species: *Lytophilus azygos* Viereck, 1905. This genus was lately (Sharkey et al., 2009) restored from the synonyms of *Bassus*. Medium-sized genus distributed in several zoogeographical regions. Number of species: World – 40, Palaearctic – 8, Russia – 3.
- Lytophilus romani** (Shestakov, 1940) [Microdus] (*Agathis ebula* Nixon, 1950; *Bassus ater* Chou et Sharkey, 1989). Endoparasitoid of *Acrobasis pyrivorella* Mats. (Pyralidae). Russia: **FE** (KH, PR, KU). – China (SE), Korean Peninsula, Vietnam, Thailand.
- Lytophilus rufipes** (Nees, 1812) [Microdus] (*Braunsia germanica* Enderlein, 1904; *Bassus diversus* Muesebeck, 1933; *Microdus amurensis* Shestakov, 1940). Endoparasitoid of caterpillars from the families Coleophoridae, Depressariidae, Gelechiidae, Pieridae, Pyralidae, Tortricidae and Yponomeutidae. Russia: **EP** (NC), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Iran, Turkmenistan, Kyrgyzstan, Kazakhstan, Korean Peninsula, Japan (Hok), USA, S America, Australia (introduced).
- Lytophilus sculptilis** (Tobias, 1986) [Microdus]. Russia: **EP** (NC). – Europe (EE).
- THEROPHILUS** Wesmael, 1837 (*Orgiloneura* Ashmead, 1900; *Agathiella* Szépligeti, 1902; *Baeognatha* Kokujev, 1903; *Aerophiloides* Strand, 1911). Type species: *Microdus conspicuus* Wesmael, 1837. This genus was lately (Sharkey et al., 2009) restored from the synonyms of *Bassus*. Large genus distributed in several zoogeographical regions. Number of species: World – about 100, Palaearctic – 17, Russia – 10.
- Therophilus arcuatus** (Reinhard, 1867) [Microdus]. Russia: **EP** (NW, C). – Europe (WE, NE, EE), Georgia, Mongolia.
- Therophilus belokobylskiji** (Sharkey, 1998) [Bassus]. Russia: **FE** (SA).
- Therophilus cingulipes** (Nees, 1812) [Microdus] (*Bassus nantouensis* Chou et Sharkey, 1989). Endoparasitoid of caterpillars from the families Coleophoridae, Gelechiidae, Geometridae and Tortricidae. Russia: **EP** (NW, C, NC), **ES** (IR), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Kazakhstan, Mongolia, China (NC, CC, SE), Korean Peninsula, Japan.
- Therophilus clausethalianus** (Ratzeburg, 1844) [Microdus]. Endoparasitoid of caterpillars from the families Depressariidae and (mainly) Tortricidae. Russia: **EP** (N, NW, C), **WS** (AL). – Europe (WE, NE, SE, EE), Iran, Kazakhstan, Mongolia.
- Therophilus conspicuus** (Wesmael, 1837) [Microdus] (*Earius zonatus* Marshall, 1885; *Bassus carpocapsae* Cushman, 1915; *Microdus angustatus* Telenga, 1955; *Bassus variabilis* Chou et Sharkey, 1989). Endoparasitoid of caterpillars from the families Crambidae and Tortricidae. Russia: **EP** (C), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, China (NC, CC, SE), Korean Peninsula, Japan, USA (introduced).
- Therophilus dimidiator** (Nees, 1834) [Microdus] (*Microdus cingulator* Ratzeburg, 1852; *M. laticinctus* Cresson, 1873; *M. ocellanae* Richardson, 1913). Endoparasitoid of caterpillars from the families Coleophoridae, Elachistidae, Gelechiidae, Tortricidae and Yponomeutidae. Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, China (NC, CC, SE), N America.

Therophilus festivus (Muesebeck, 1953) [Agathis] (*Agathis oranae* Watanabe, 1970; *Microdus kovalevi* Tobias, 1976; *M. quadratus* Tobias, 1976). Endoparasitoid of caterpillars from the families Blastobasidae, Carposinidae, Cossidae, Crambidae, Gelechiidae, Noctuidae and Tortricidae; information about its rearing from galls of *Andricus* sp. (Cynipidae) is perhaps erroneous. Russia: **FE** (KH, PR). – China (NE, NC, CC, SE), Korean Peninsula, Japan, USA (introduced), India, Nepal, Vietnam, Philippines.

Therophilus nugax (Reinhard, 1867) [Microdus] (*Microdus rufiventris* Abdinbekova, 1969). Endoparasitoid of *Eupoecilia roseana* L. (Tortricidae). Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan, Turkey, Israel.

Therophilus tobiassi (Sharkey, 1998) [Bassus]. Russia: **FE** (AM, PR, SA).

Therophilus tumidulus (Nees, 1812) [Microdus] (*Agathis tegularis* Thomson, 1895; *Eumicrodus intermedius* Ivanov, 1898; *Microdus annae* Enderlein, 1908; *M. aino* Watanabe, 1937; *M. ruficoxis* Fahringer, 1937; *M. bicolor* Shestakov, 1940; *M. victoris* Telenga, 1955; *Agathis shestakovi* Shenefelt, 1970; *Microdus anuphrievi* Tobias, 1986). Endoparasitoid of caterpillars from the families Depressariidae, Gelechiidae, Momphidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC), **WS** (AL), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Morocco, Georgia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, China (NC, CC), Korean Peninsula, Japan (Hok).

Tribe CREMNOPTINI

CREMNOPS Foerster, 1863. Type species: *Bracon deflagrator* Spinola, 1808 (= *Ichneumon desertor* Linnaeus, 1758). Medium-sized and mainly tropical genus with a few species recorded in the south of the Palaearctic region. Number of species: World – 48, Palaearctic – 3, Russia – 1.

Cremonops desertor (Linnaeus, 1758) [Ichneumon] (*Ichneumon purgatory* Fabricius, 1793; *Bracon deflagrator* Spinola, 1808; *Agathis atricornis* Smith, 1874; *A. nigritarsis* Cameron, 1899; *Cremonops alterans* Enderlein, 1920; *C. lemniscatus* Enderlein, 1920; *C. malayensis* Bhat, 1979). Endoparasitoid of caterpillars from the families Crambidae, Noctuidae, Psychidae, Sesiidae and Tortricidae. Russia: **EP** (NW, C, E, NC), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, Japan (Hok), N America, India, Nepal, Myanmar, Vietnam, Thailand, Malaysia, Indonesia.

Tribe DISOPHRINI

COCCYGIDIUM Saussure, 1892 (*Brachyropalum* Kriechbaumer, 1894; *Brachyropalum* Dalla Torre, 1898; *Neophylax* Ashmead, 1900; *Zelomorpha* Ashmead, 1900; *Ahngeria* Kokujev, 1902; *Dichelosus* Szépligeti, 1902;

Lisitheria Cameron, 1904; *Xanthomicrodus* Cameron, 1904; *Caenophylax* Schulz, 1911; *Spilomicrodus* Cameron, 1911; *Zelomorphidea* Viereck, 1912; *Hemichoma* Enderlein, 1920; *Amputostypus* Sharkey, 2009). Type species: *Coccygidium luteum* Saussure, 1892. Medium-sized genus mainly distributed in the tropical and subtropical regions. The record of *C. concolor* (Szépligeti, 1908) from the Russian Far East (Belokobyl'skij, 1993a) was erroneous (Belokobyl'skij et al., 1998); this material actually belongs to *Zelodia nihonensis* (Sharkey, 1996). Number of species: World – 33, Palaearctic – 7, Russia – 1.

Coccygidium nigricrus Sharkey, 1998. Russia: **FE** (PR).

DISOPHRYS Foerster, 1863 (*Megagathis* Costa, 1888; *Pseudagathis* Kriechbaumer, 1894; *Diophrys* Kriechbaumer, 1898; *Pseudocremonops* Szépligeti, 1915; *Platyagathis* Turner, 1918). Type species: *Agathis caesa* Klug, 1835. Relatively large genus with mainly tropical and arid distributed species; only several species were recorded in the arid zone of South Palaearctic. Number of species: World – 86, Palaearctic – 7, Russia – 2.

Disophrys caesa (Klug, 1835) [Agathis] (*Agathis baetica* Spinola, 1843; *A. erythromelas* Brullé, 1846; *A. bovaei* Lucas, 1849; *A. imperialis* Costa, 1888; *Diophrys anthracina* Kriechbaumer, 1898). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Morocco, Algeria, Armenia, Azerbaijan, Turkey, Israel, Iran.

Disophrys inculcatrix (Kriechbaumer, 1898) [Diophrys] (*Disophrys caucasica* Shestakov, 1928). Russia: **EP** (S, NC, CR), **UR**, **WS** (AL). – Europe (EE), Abkhazia, Georgia, Azerbaijan, Iran.

Remarks. This species was recorded in the fauna of former USSR and Russia as *Disophrys inculcator* (Nees) (Telenga, 1955) or *D. inculcator* (Linnaeus) (Tobias et al., 1986a).

EUAGATHIS Szépligeti, 1900 (*Chromomicrodus* Ashmead, 1900; *Holcotroticus* Cameron, 1902; *Balcemena* Cameron, 1903). Type species: *Euagathis bifasciata* Szépligeti, 1900. Large and mainly tropical genus. Number of species: World – about 100, Palaearctic – 3, Russia – 1.

Euagathis ohippium (Cameron, 1899) [Disophrys] (*Euagathis chinensis* Szépligeti, 1902; *E. asiatica* Fahringer, 1937; *E. semenovi* Shestakov, 1940; *E. relativa* Bhat et Gupta, 1977). Russia: **FE** (PR). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan (Hon, Kyu), India, Nepal, Vietnam, Thailand.

ZELODIA van Achterberg in van Achterberg, Long, 2010. Type species: *Zelomorpha varipes* van Achterberg et Maeto, 1990. This genus was recently described (van Achterberg, Long, 2010) and incorporated mainly the species previously attributed to the genus *Coccygidium*. Medium-sized genus distributed in Asia and Australia. Number of species: World – 45, Palaearctic – 3, Russia – 2.

Zelodia nihonensis (Sharkey, 1996) [Coccygidiium]. Russia: **FE** (KH, PR). – China (SE), Japan.

Zelodia ruida (Sharkey, 1996) [Coccygidiium]. Russia: **FE** (PR). – Korean Peninsula, Japan (Hon).

Tribe EARINI

EARINUS Wesmael, 1837 (*Diatmetus* Foerster, 1863). Type species: *Microdus delusor* Wesmael, 1837. Rather small genus recorded in the Holarctic, Oriental and Neotropical regions. Number of species: World – 18, Palaearctic – 5, Russia – 3.

Earinus elator (Fabricius, 1804) [Banchus] (*Microdus nitidulus* Nees, 1812; *M. thoracicus* Nees, 1834; *Agathis major* Fonscolombe, 1846; *Earinus pilosus* Tobias, 1961). Endoparasitoid of caterpillars from the families Geometridae, Gracillariidae and Noctuidae. Russia: **EP** (NW, C, E), **ES** (IR), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Korean Peninsula, Japan.

Earinus jezoensis Watanabe, 1937. Endoparasitoid of *Zeiraphera rufimitrana truncata* Oku (Tortricidae). Russia: **FE** (PR, SA). – Japan (Hok, Hon, Shi, Kyu).

Earinus longensis Sharkey, 1996. Russia: **FE** (SA, KU). – China (SE), Japan (Hok, Hon, Kyu).

Subfamily ALYSIINAE

S.A. BELOKOBYSKIJ

One of the largest and most diverse subfamilies well represented in the North Hemisphere at generic and especially species levels. Koinobiont endoparasitoids of Diptera–Cyclorrhapha; adults hatch from host puparia. The subfamily is divided into two large and polymorphic tribes, Alysiini and Dacnusi (Shenefelt, 1974; Yu et al., 2016). Morphologically, these two tribes are mainly separated by the presence (Alysiini) or absence (Dacnusi) of the fore wing second radiomedial vein. Accordingly, Alysiini have two submarginal (radiomedial) cells whereas Dacnusi have only one (first) cell. Members of Alysiini are common parasitoids of Diptera usually inhabiting humid and ephemeral habitats. Dacnusi are almost exclusively the specialized parasitoids of leaf and stem miners, mainly from the families Agromyzidae, Ephydriidae and Chloropidae.

Number of taxa: World – 107 genera and 2440 species, Palaearctic – 67/about 1700, Russia – 62/969.

References. Foerster, 1863; Meyer, 1929; Telenga, 1935a, 1935b; Nixon, 1937, 1943a, 1943b, 1944, 1945, 1946, 1948, 1949, 1954; Königsmann, 1959, 1960, 1969; Fischer, 1962, 1966, 1967, 1972a, 1973a, 1973b, 1973c, 1974a, 1974b, 1975a, 1975b, 1976, 1993a, 1993b, 2003, 2009, 2010; Tobias, 1962, 1985, 2003a, 2003b, 2004a, 2004b, 2006; Griffiths, 1964, 1967a, 1967b, 1968a, 1968b, 1984; van Achterberg, 1976c, 1983a, 1983b, 1986, 1988b, 1997, 2014; Wharton, 1980, 1986,

1988, 2002; Zaykov, 1982; Maeto, 1983; Tobias et al., 1986b; van Achterberg, O'Connor, 1990; Belokobylskij, 1992a, 2002, 2004b, 2004c, 2005b, 2015, 2019d; Yakovlev, Tobias, 1992; Chen, Wu, 1994; Belokobylskij, Tobias, 1997, 2002, 2007; Perepechaenko, 1997, 2000, 2008; Belokobylskij et al., 1998, 2007, 2012b; Belokobylskij, Kostromina, 2011; Peris-Felipo et al., 2014, 2015, 2016; Yao et al., 2015a, 2015b; Kostromina et al., 2016; Yu et al., 2016; Peris-Felipo, Belokobylskij, 2017, 2018; Zhu et al., 2017a, 2017b.

Tribe ALYSIINI

ADELUROLA Strand, 1928 (*Adelura* Foerster, 1863, nom. praec., nec Bonaparte, 1854; *Neocarpa* Fischer, 1966). Type species: *Alysia florimela* Haliday, 1838. Endoparasitoids of Anthomyiidae and Tephritidae. Number of species: World and Palaearctic – 4, Russia – 2.

Adeluroloa florimela (Haliday, 1838) [Alysia] (*Phaenocarpa multiarticulata* Marshall, 1898; *Dapsilarthra pentapleuroides* Fischer, 1971). Ectoparasitoid of *Pegomya solennis* Mg. (Antomyiidae) and *Acidia cognata* Wd. (Tephritidae). Russia: **EP** (N, NW, C), **WS** (TM), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Japan (Hon).

Adeluroloa kamtshatica Belokobylskij, 1998. Russia: **FE** (KA).

ALLOEA Haliday, 1833 (*Diaspasta* Foerster, 1863; *Lamada-tha* Cameron, 1900). Type species: *Alysia contracta* Haliday, 1833. Small genus with a few described species from the Holarctic and Oriental (Taiwan) regions. Endoparasitoids of flies from the family Lonchopteridae. Number of species: World – 14, Palaearctic – 7, Russia – 5.

Alloea bonessi Fischer, 1966. Endoparasitoid of *Lonchoptera lutea* Pz. (Lonchopteridae). Russia: **EP** (NW). – Europe (WE, EE).

Alloea kostroma Belokobylskij, 1998. Russia: **FE** (PR, SA, KU).

Alloea kupala Belokobylskij, 1998. Russia: **FE** (PR).

Alloea lonchopterae Fischer, 1966. Endoparasitoid of flies *Lonchoptera* sp. and *L. lutea* Pz. (Lonchopteridae). Russia: **EP** (NW, NC). – Europe (WE, EE), China (SE).

Alloea sadko Belokobylskij, 1998. Russia: **FE** (SA).

Alloea veles Belokobylskij, 1997. Russia: **FE** (KU, KA).

ALYSIA Latreille, 1804 (*Cechenus* Illiger, 1807; *Anarcha* Foerster, 1863; *Goniarcha* Foerster, 1863; *Strophaea* Foerster, 1863). Type species: *Ichneumon manducator* Panzer, 1799. Two subgenera, *Alysia* Latreille, 1804 and *Anarcha* Foerster, 1863, are known in this genus (Wharton, 1986), but their diagnostic characters are too variable; as a result, we prefer not to use subgeneric classification in this catalogue. Endoparasitoids of flies mainly from the families Anthomyiidae, Calliphoridae, Heleomyzidae, Muscidae and Sarcophagidae. Relatively large genus commonly represented in the Holarctic region,

but several species were described from the Oriental and Neotropical regions closely to the Holarctic border. Number of species: World – 90, Palaearctic – 56, Russia – 42.

Alysia aino Belokobylskij, 1998. Russia: **FE** (KU).

Alysia alkonost Belokobylskij, 1998. Russia: **FE** (PR).

Alysia alticola (Ashmead, 1890) [Pentapleura] (*Alysia soror* Marshall, 1894). Endoparasitoid of *Calliphora lilaea* Walk. and *C. terraenovae* Macq. (Calliphoridae). Russia: **EP** (N), **FE** (KU, KA). – Europe (WE, NE, EE), Armenia, Kazakhstan, Mongolia, N America, Argentina.

Alysia auca Belokobylskij, 1998. Russia: **FE** (KH, PR, KA).

Alysia austroussurica Belokobylskij, 1998. Russia: **FE** (PR).

Alysia avatsha Belokobylskij, 1998. Russia: **FE** (KA).

Alysia brachycera Thomson, 1895. Russia: **EP** (NW), **WS** (AL), **ES** (ZB), **FE** (KA). – Europe (NE), Georgia, Korean Peninsula, N America.

Alysia brachyura Gurasashvili, 1984. Russia: **EP** (NC).

Alysia cordyluræ Tobias, 1999. Endoparasitoid of *Cordilura picipes* Mg. (Scathophagidae). Russia: **EP** (NW).

Alysia fossulata Provancer, 1888. Endoparasitoid of *Blaesoxipha cessator* Aldrich and *B. plinthopyga* Wied. (Sarcophagidae), *Phormia regina* Mg. (Calliphoridae). Russia: **FE** (KH, PR). – USA.

Alysia frigida Haliday, 1838. Endoparasitoid of *Pegomya* sp. (Anthomyiidae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TM, AL), **ES** (IR, ZB), **FE** (SA, MG). – Europe (WE, NE, EE), Georgia, Mongolia, China (NE), N America.

Alysia fuscipennis Haliday, 1838 (*Alysia obscuripes* Thomson, 1895). Russia: **EP** (N, NW, C, NC). – Europe (WE, NE, EE), Georgia, Turkey.

Alysia gamaiun Belokobylskij, 1998. Russia: **FE** (KU).

Alysia incongrua Nees, 1834. Endoparasitoid of *Lucilia* sp. (Calliphoridae) and *Sarcophaga* sp. (Sarcophagidae). Russia: **EP** (C), **UR**, **WS** (AL), **ES** (BR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia.

Alysia kokujevi Tobias, 1986. Russia: **EP** (C).

Alysia lel Belokobylskij, 1998. Russia: **FE** (PR).

Alysia lesavka Belokobylskij, 1998. Russia: **FE** (PR).

Alysia longifrons Belokobylskij, 1998. Russia: **WS** (AL), **ES** (ZB).

Alysia lucia Haliday, 1838 (*Alysia rudis* Tobias, 1962; *A. diversiceps* Fischer, 1967). Russia: **EP** (N, NW, C), **WS** (AL), **FE** (KH, PR, SA). – Europe (WE, SE, EE), Mongolia, Korean Peninsula, Japan, N America.

Alysia lucicola Haliday, 1838. Endoparasitoid of *Suillia apicalis* Loew (Heleomyzidae) in mushroom *Gyromitra esculenta* Fries. Russia: **EP** (NW, C, E, NC), **UR**, **ES** (ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Kyrgyzstan, N America.

Alysia luciella Stelfox, 1941. Russia: **EP** (N, NW, NC, CR), **UR**, **ES** (ZB), **FE** (PR, SA, KA, MG). – Europe (NE, EE), Georgia, Armenia, Turkey, Mongolia, N America.

Alysia mandibulator (Nees, 1812) [Bassus] (*Alysia loripes* Haliday, 1838; *A. mandibulatrix* Schulz, 1906).

Endoparasitoid of flies from the family Tephritidae. Russia: **EP** (N). – Europe (WE, NE, SE).

Alysia manducator (Panzer, 1799) [Ichneumon] (*Ichneumon haematopus* Gmelin, 1790; *Alysia stercoraria* Latreille, 1805; *A. apicalis* Curtis, 1826; *A. similis* Curtis, 1826; *A. stercorator* Lamarck, 1835; *A. curtungula* Thomson, 1895; *A. bucephala* Marshall, 1898). Endoparasitoid of flies from the families Anthomyiidae, Calliphoridae and Muscidae. Russia: **EP** (NW, C), **UR**, **WS** (AL), **FE** (KH, SA, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Israel, Uzbekistan, Mongolia, China (NC, SE), USA, introduced in S America, Australia and New Zealand.

Alysia mogul Belokobylskij, 1998. Russia: **ES** (ZB).

Alysia mokosh Belokobylskij, 1998. Russia: **FE** (SA).

Alysia nemiza Belokobylskij, 1998. Russia: **FE** (PR).

Alysia nigratarsis Thomson, 1895. Russia: **EP** (NC), **UR**, **ES** (ZB), **FE** (AM, SA, KU, KA). – Europe (WE, NE), Georgia, Armenia, China (SE), Korean Peninsula.

Alysia nudinotum Wharton, 1986. Russia: **ES** (ZB), **FE** (KH, MG). – N America.

Alysia pestovens Tobias, 1999. Russia: **EP** (NW).

Alysia picta Goureau, 1851. Russia: **EP** (? C: Meyer, 1929). – Europe (WE, SE).

Alysia rufidens Nees, 1834 (*Alysia puncticollis* Thomson, 1895). Endoparasitoid of flies from the families Anthomyiidae and Tephritidae. Russia: **FE** (KA, CH). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, USA.

Alysia ryzhik Belokobylskij, 1998. Russia: **FE** (PR).

Alysia similis (Nees, 1812) [Bassus]. Russia: **EP** (C), **ES** (YA). – Europe (WE, EE).

Alysia sirin insularis Belokobylskij, 1998. Russia: **FE** (SA, KU). – Japan (Kyu).

Alysia sirin sirin Belokobylskij, 1998. Russia: **FE** (PR).

Alysia sophia Haliday, 1838. Endoparasitoid of *Mycetophila* sp. (Mycetophilidae). Russia: **EP** (C), **FE** (KA). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula.

Alysia subaperta Thomson, 1895. Russia: **ES** (ZB), **FE** (PR, KA, MG, CH). – Europe (NE, EE), N America.

Alysia subproia Tobias, 1999. Russia: **EP** (NW).

Alysia subtilis Wharton, 1988. Russia: **FE** (CH). – N America.

Alysia tipulae (Scopoli, 1763) [Ichneumon] (*Bassus abdominalis* Nees, 1812; *Anarcha notabilis* Foerster, 1863). Endoparasitoid of *Mycetophila* sp. (Mycetophilidae). Russia: **EP** (NW, C, E, NC), **ES** (YA), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Mongolia, Korean Peninsula.

Alysia truncator (Nees, 1812) [Bassus] (*Alysia lucidula* Goureau, 1862; *A. truncatrix* Schulz, 1906). Endoparasitoid of flies from the families Agromyzidae and Anthomyiidae. Russia: **EP** (NW, C), **ES** (ZB), **FE** (PR, KU, KA, MG). – Europe (WE, SE, EE), Georgia, Armenia, Korean Peninsula, N America.

Alysia umbrata Stelfox, 1941. Russia: **FE** (SA, KU, KA, CH). – Europe (WE), N America.

Alysia vladik Belokobylskij, 1998. Russia: **FE** (PR).

ALYSIASTA Wharton, 1980. Type species: *Alysia championi* Cameron, 1887. Small genus from the Nearctic, Neotropical and Oriental regions; one species was described from the Russian Far East. Number of species: World – 10, Palaearctic and Russia – 1.

Alysiasta udaegae Belokobylskij, 1998. Russia: **FE** (PR).

ANISOCYRTA Foerster, 1863. Type species: *Alysia perditia* Haliday, 1838. Small Holarctic genus. Number of species: World – 7, Palaearctic – 4, Russia – 3.

Anisocyrta longicauda Tobias, 1962 (*Anisocyrta nearctica* van Achterberg, 1986). Russia: **EP** (NW, C), **FE** (MG). – N America.

Anisocyrta perditia (Haliday, 1838) [*Alysia*]. Russia: **EP** (N, NW, C), **UR**, **ES** (ZB), **FE** (KH, PR, CH). – Europe (WE, NE, SE, EE), Canada.

Anisocyrta shelichovi Belokobylskij, 1997. Russia: **FE** (KU).

APHAERETA Foerster, 1863. Type species: *Alysia cephalotes* Haliday, 1833 (= *Stephanus minutus* Nees, 1811). Relatively small genus. Endoparasitoids of flies from the families Anthomyiidae, Sarcophagidae, Drosophilidae, Calliphoridae, Tephritidae, Scathophagidae, Muscidae, Agromyzidae and Syrphidae. Number of species: World – 45, Palaearctic – 15, Russia – 11.

Aphaereta alkonost Belokobylskij, 1998. Russia: **FE** (PR).

Aphaereta brevis Tobias, 1962. Russia: **EP** (NW, C, NC), **FE** (PR). – Europe (SE, EE), Afghanistan, Korean Peninsula.

Aphaereta difficilis Nixon, 1939. Endoparasitoid of *Delia radicum* L. and *Fucellia tergina* Z. (Anthomyiidae). Russia: **WS** (AL), **ES** (KR), **FE** (PR, SA, KU). – Europe (WE, SE, EE), Morocco, Tunisia, Israel, Iran, Uzbekistan, Korean Peninsula.

Aphaereta elegans Tobias, 1962. Russia: **EP** (NW), **FE** (PR). – Europe (EE).

Aphaereta falcigera Graham, 1960. Russia: **EP** (NW). – Europe (WE, SE, EE), Israel, Korean Peninsula.

Aphaereta kroschka Belokobylskij, 1998. Russia: **FE** (PR).

Aphaereta major (Thomson, 1895) [*Alysia*]. Endoparasitoid of *Pegomya rubivora* Coq. (Anthomyiidae). Russia: **EP** (NW, C, E, NC), **UR**. – Europe (WE, NE, SE, EE), China (NC).

Aphaereta minuta (Nees, 1811) [*Stephanus*] (*Alysia cephalotes* Haliday, 1833; *A. fuscipes* Nees, 1834; *A. confluentis* Ratzeburg, 1844; *A. stigmatalis* Thomson, 1895). Endoparasitoid of flies from the families Anthomyiidae, Calliphoridae, Drosophilidae, Muscidae, Sarcophagidae, Scathophagidae, Sepsidae and Tephritidae. Russia: **EP** (N, NW, C, S, NC), **WS** (TM), **ES** (KR), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Morocco, Turkey, Iran, Uzbekistan, Korean Peninsula.

Aphaereta rubicunda Tobias, 1962. Russia: **EP** (NW). – Europe (WE), China (CC).

Aphaereta scaptomyzae Fischer, 1966. Endoparasitoid of *Drosophila phalerata* Mg. and *Scaptomyza pallida* Z. (Drosophilidae). Russia: **EP** (N, NW), **FE** (KH, PR, SA, KA). – Europe (WE, EE), China (NW, CC), Korean Peninsula.

Aphaereta sylvia Belokobylskij, 1998. Russia: **FE** (PR).

Aphaereta tenuicornis Nixon, 1939. Endoparasitoid of *Botanophila phrenione* Seguy and *Delia radicum* L. (Anthomyiidae). Russia: **EP** (NW, C), **WS** (TM), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Turkey.

Aphaereta tricolor Papp, 1994. Russia: **FE** (PR). – China (CC), Korean Peninsula.

APRONOPA van Achterberg, 1980 (*Apronope* auct.). Type species: *Apronopa haeselbarthi* van Achterberg, 1980. Number of species: World and Palaearctic – 3, Russia – 1.

Apronopa ussuricola Belokobylskij, 1998. Russia: **FE** (PR).

ASOBARA Foerster, 1863 (*Spanista* Foerster, 1863). Type species: *Alysia tabida* Nees, 1834. Relatively large genus distributed in almost all zoogeographical regions. Endoparasitoids of flies mainly from the families Drosophilidae, Sepsidae and Tephritidae. Number of species: World – 42, Palaearctic – 9, Russia – 3.

Asobara rossica Belokobylskij, 1998. Endoparasitoid of *Drosophila auraria* Peng, *D. lutescens* Okada and *D. simulans* Sturt. (Drosophilidae). Russia: **FE** (PR, SA). – Korean Peninsula, Japan.

Asobara tabida (Nees, 1834) [*Alysia*] (*Alysia anomala* Thomson, 1895). Endoparasitoid of flies from the families Cecidomyiidae and especially Drosophilidae. Russia: **EP** (NW, C, E, NC), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Morocco, Tunisia, Turkey, Uzbekistan, China (NC, SE), Korean Peninsula, Japan, Canada, Malaysia, New Zealand.

Asobara tabidula (Tobias, 1962) [*Phaenocarpa*]. Russia: **EP** (NW), **FE** (PR). – Kyrgyzstan, China (SW, SE).

ASPILOTA Foerster, 1863 (*Dipiesta* Foerster, 1863; *Eusynaldis* Zaykov et Fischer, 1982; *Regetus* Papp, 1999; *Adelphenaldis* Fischer, 2003). Type species: *Alysia ruficornis* Nees, 1834. The species of this genus (together with *Dinotrema*) are one of the most common and numerous members of the subfamily Alysiinae in the humid forest stations of North Palaearctic. The genus includes two subgenera, *Aspilota* s. str. and *Eusynaldis* Zaykov et Fischer, 1982, with numerous not yet described species. Number of species: World – more than 280, Palaearctic – about 170, Russia – 95.

Aspilota (Aspilota) alexandri Belokobylskij, 2007. Russia: **FE** (PR).

Aspilota (Aspilota) aniva Belokobylskij, 2007. Russia: **FE** (SA).

Aspilota (Aspilota) antzyferovi Belokobylskij, 2007. Russia: **FE** (SA, KU).

- Aspilota (Aspilota) arsenievi* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) atlasovi* Belokobylskij, 2007. Russia: **FE** (KA).
- Aspilota (Aspilota) austroussurica* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) beringi* Belokobylskij, 2007. Russia: **FE** (CH).
- Aspilota (Aspilota) brevantennata* Tobias, 1962. Russia: **EP** (NW). – Europe (EE), Israel.
- Aspilota (Aspilota) budogosskii* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) chanka* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) chinganica* Belokobylskij, 2007. Russia: **FE** (KH).
- Aspilota (Aspilota) compressiventris* Stelfox et Graham, 1951. Russia: **EP** (NW), **FE** (AM, KH, PR, SA). – Europe (WE, EE).
- Aspilota (Aspilota) dezhnevi* Belokobylskij, 2007. Russia: **ES** (ZB), **FE** (PR, KA).
- Aspilota (Aspilota) dmitrii* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) efoveolata* (Thomson, 1895) [Alysia] (*Aspilota pneumatica* Fischer, 1973). Russia: **UR**, **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE).
- Aspilota (Aspilota) fuscicornis* (Haliday, 1838) [Alysia] (*Bassus minutus* Nees, 1812; *Orthostigma exile* Ruthe, 1859; *Alysia dilatata* Thomson, 1895). Russia: **EP** (NW, E, NC, CR), **UR**, **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula, Japan (Hok, Kyu).
- Aspilota (Aspilota) golovnini* Belokobylskij, 2007. Russia: **FE** (KU).
- Aspilota (Aspilota) gorbusha* Belokobylskij, 2007. Russia: **FE** (KA).
- Aspilota (Aspilota) insolita* (Tobias, 1962) [Orthostigma]. Russia: **EP** (NW). – Europe (SE, EE).
- Aspilota (Aspilota) izyaslavi* Belokobylskij, 2005. Russia: **FE** (PR).
- Aspilota (Aspilota) jakovlevi* Tobias, 1992. Russia: **EP** (N).
- Aspilota (Aspilota) kalinovka* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) kaplanovi* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) karafuta* Belokobylskij, 2007. Russia: **FE** (SA).
- Aspilota (Aspilota) karelica* Tobias, 1992. Russia: **EP** (N).
- Aspilota (Aspilota) komarovi* Belokobylskij, 2005. Russia: **FE** (PR).
- Aspilota (Aspilota) korsakovi* Belokobylskij, 2007. Russia: **FE** (SA).
- Aspilota (Aspilota) kotenkoi* Belokobylskij, 2007. Russia: **FE** (KU).
- Aspilota (Aspilota) kozyrevskii* Belokobylskij, 2007. Russia: **FE** (KA).
- Aspilota (Aspilota) kurilicola* Belokobylskij, 2005. Russia: **FE** (KU).
- Aspilota (Aspilota) laevinotum* Tobias, 1962. Russia: **EP** (NW), **FE** (AM, PR). – Korean Peninsula.
- Aspilota (Aspilota) maacki* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) macrops* Stelfox et Graham, 1951. Russia: **EP** (NW). – Europe (WE, EE).
- Aspilota (Aspilota) megastigmatica* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) middendorffi* Belokobylskij, 2007. Russia: **FE** (AM, PR).
- Aspilota (Aspilota) muravievi* Belokobylskij, 2007. Russia: **FE** (AM, KH, PR, KU).
- Aspilota (Aspilota) nacta* Belokobylskij, 2005. Russia: **FE** (AM, KH, PR).
- Aspilota (Aspilota) nasica* Belokobylskij, 2005. Russia: **FE** (PR). – China (CC), Malaysia.
- Aspilota (Aspilota) necopinata* Belokobylskij, 2005. Russia: **FE** (AM, KH, PR, SA, KU).
- Aspilota (Aspilota) nemorivaga* Belokobylskij, 2005. Russia: **FE** (PR).
- Aspilota (Aspilota) neoterica* Belokobylskij, 2007. Russia: **FE** (KA).
- Aspilota (Aspilota) nescita* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) nevelskoi* Belokobylskij, 2007. Russia: **FE** (PR, SA).
- Aspilota (Aspilota) nobilis* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) nomas* Belokobylskij, 2005. Russia: **ES** (ZB), **FE** (PR).
- Aspilota (Aspilota) nonna* Belokobylskij, 2005. Russia: **FE** (PR).
- Aspilota (Aspilota) notata* Belokobylskij, 2005. Russia: **FE** (PR).
- Aspilota (Aspilota) nuntius* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) nutricula* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) obsessor* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) obsoleta* Belokobylskij, 2007. Russia: **FE** (PR). – Japan (Hon).
- Aspilota (Aspilota) occulta* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) odarka* Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) oriens* Belokobylskij, 2007. Russia: **ES** (BR), **FE** (AM, SA).
- Aspilota (Aspilota) oroszi* Papp, 2008. Russia: **WS** (AL).
- Aspilota (Aspilota) parentalis* Belokobylskij, 2007. Russia: **FE** (PR).

- Aspilota (Aspilota) perai** Belokobylskij, 2007. Russia: **FE** (AM, PR).
- Aspilota (Aspilota) poiarkovi** Belokobylskij, 2007. Russia: **FE** (AM, PR, KA). – Japan (Hok).
- Aspilota (Aspilota) przewalskii** Belokobylskij, 2007. Russia: **FE** (AM, PR).
- Aspilota (Aspilota) raddei** Belokobylskij, 2007. Russia: **ES** (BR), **FE** (AM, KH, PR).
- Aspilota (Aspilota) riazanovi** Belokobylskij, 2007. Russia: **FE** (KU).
- Aspilota (Aspilota) ruficornis** (Nees, 1834) [Alysia]. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey.
- Aspilota (Aspilota) schpanbergi** Belokobylskij, 2007. Russia: **FE** (KU).
- Aspilota (Aspilota) schrenki** Belokobylskij, 2007. Russia: **FE** (AM, PR). – China (CC).
- Aspilota (Aspilota) semiinsularis** Belokobylskij, 2007. Russia: **FE** (KA).
- Aspilota (Aspilota) stenogaster** Stelfox et Graham, 1951. Russia: **EP** (NW, C), **UR**, **FE** (AM, KH, PR, SA). – Europe (WE, NE, EE), Turkey, Korean Peninsula, Japan (Hon).
- Aspilota (Aspilota) subcubiceps** Belokobylskij, 2007. Russia: **ES** (BR), **FE** (PR, KA).
- Aspilota (Aspilota) tiatinoi** Belokobylskij, 2007. Russia: **FE** (KU).
- Aspilota (Aspilota) tshandolaz** Belokobylskij, 2005. Russia: **FE** (PR).
- Aspilota (Aspilota) tshirikovi** Belokobylskij, 2007. Russia: **FE** (PR, MG). – Japan (Hok, Hon).
- Aspilota (Aspilota) ultor** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) umbrosa** Belokobylskij, 2007. Russia: **FE** (KA).
- Aspilota (Aspilota) unca** Belokobylskij, 2007. Russia: **FE** (KA).
- Aspilota (Aspilota) univoca** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) vaga** Belokobylskij, 2007. Russia: **FE** (PR). – Japan (Hok, Ryu), Malaysia.
- Aspilota (Aspilota) vargus** Belokobylskij, 2007. Russia: **FE** (PR, KA).
- Aspilota (Aspilota) variabilis** Tobias, 1962. Russia: **EP** (NW). – Europe (WE, EE), Korean Peninsula.
- Aspilota (Aspilota) vector** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) venatrix** Belokobylskij, 2007. Russia: **WS** (TM), **FE** (PR).
- Aspilota (Aspilota) ventasa** Belokobylskij, 2007. Russia: **FE** (PR, SA).
- Aspilota (Aspilota) viator** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) vicina** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) vincibilis** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) vindex** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) violator** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) visibilis** Belokobylskij, 2007. Russia: **FE** (SA).
- Aspilota (Aspilota) vladimirovka** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) volans** Belokobylskij, 2007. Russia: **FE** (PR).
- Aspilota (Aspilota) vostok** Belokobylskij, 2007. Russia: **FE** (PR, KA).
- Aspilota (Eusynaldis) cultrata** (Belokobylskij, 2002) [Synaldis]. Russia: **FE** (PR, KU).
- Aspilota (Eusynaldis) globipes** (Fischer, 1962) [Synaldis] (*Synaldis georgica* Fischer, 1993). Russia: **EP** (NW), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, China (SE).
- Aspilota (Eusynaldis) moniliata** (Belokobylskij, 2002) [Synaldis]. Russia: **FE** (PR).
- Aspilota (Eusynaldis) pacifica** (Belokobylskij, 2002) [Synaldis]. Russia: **FE** (PR, KU). – Japan (Hon).
- Aspilota (Eusynaldis) parvicornis** (Thomson, 1895) [Alysia]. Russia: **FE** (PR). – Europe (WE, NE, EE), China (CC, SW, SE).
- Remarks.** In the Taxapad (Yu et al., 2016) this species was treated as a member of *Aspilota (Aspilota)*.
- Aspilota (Eusynaldis) spasskensis** (Belokobylskij, 2002) [Synaldis]. Russia: **FE** (PR).
- Aspilota (Eusynaldis) spiritalis** (Tobias, 1992). Russia: **EP** (NW). – Europe (SE).
- ASYNTACTUS** Marshall, 1898. Type species: *Asyntactus rhogaleus* Marshall, 1898. Monotypic Palaearctic genus, endoparasitoids of Agromyzidae.
- Asyntactus rhogoleus** Marshall, 1898 (*Asyntactus sigalphoides* Marshall, 1898). Endoparasitoid of *Selachops flavocinctus* Wahlberg (Agromyzidae). Russia: **UR**. – Europe (WE, NE, EE).
- ATOPANDRIUM** Graham, 1952 (*Trisynaldis* Fischer, 1958). Type species: *Atopandrium loripenne* Graham, 1952 (= *Aphaereta debilitata* Morley, 1933). Monotypic Palaearctic genus.
- Atopandrium debilitatum** (Morley, 1933) [Aphaereta] (*Atopandrium loripenne* Graham, 1952; *Trisynaldis conflucta* Fischer, 1958). Endoparasitoid of *Scatella stagnalis* Fll. (Ephydriidae). Russia: **EP** (NW), **FE** (PR). – Europe (WE, SE, EE), Japan.
- CARINTHILOTA** Fischer, 1975. Type species: *Carinthilota parapsidalis* Fischer, 1975. Small Palaearctic genus. Number of species: World and Palaearctic – 4, Russia – 3.
- Carinthilota lada** Belokobylskij, 1998. Russia: **FE** (PR).
- Carinthilota mavka** Belokobylskij, 1998. Russia: **FE** (PR).

- Carinthilota vechti** van Achterberg, 1988. Russia: **FE** (PR). – Europe (WE, EE).
- CHASMODON** Haliday, 1838. Type species: *Bassus apterus* Nees, 1812. Small apterous genus included only two Western Palaearctic species. Number of species: World and Palaearctic – 2, Russia – 1.
- Chasmodon apterus** (Nees, 1812) [Bassus]. Endoparasitoid of flies from families Agromyzidae, Chloropidae, Cecidomyiidae, Drosophilidae and Opomyzidae. Russia: **EP** (C, E), **WS** (NS). – Europe (WE, NE, SE, EE), Israel.
- CRATOSPILA** Foerster, 1863. Type species: *Alysia circe* Haliday, 1838. Species of this genus were recorded in the Holarctic, Oriental and Australasian regions. Number of species: World – 15, Palaearctic – 4, Russia – 2.
- Cratospila circe** (Haliday, 1838) [Alysia] (*Hedylus habilis* Marshall, 1891; *Alysia annelata* Thomson, 1896). Russia: **EP** (NW, NC), **WS** (TM), **ES** (ZB), **FE** (PR, KU, KA). – Europe (WE, NE, SE, EE), Turkey, Mongolia, China (CC), Korean Peninsula, Malaysia.
- Cratospila tricolor** (Telenga, 1948) [Diachasma]. Russia: **EP** (NW, C), **ES** (ZB), **FE** (PR, SA, KU). – Georgia.
- DAPSILARTHRA** Foerster, 1863. Type species: *Alysia apii* Curtis, 1826. Small and mainly Holarctic genus; parasitoids of flies from the families Agromyzidae, Psilidae and Tephritidae. Several species from this genus are separated now in the genus *Heterolexis* Foerster which was previously considered only as a subgenus of *Dapsilarthra* (van Achterberg, 1983a; Tobias et al., 1986b; Belokobylskij et al., 1998). Number of species: World – 7, Palaearctic and Russia – 2.
- Dapsilarthra apii** (Curtis, 1826) [Alysia] (*Alysia laevipectus* Thomson, 1895; *Orthostigma americana* Brues, 1907). Endoparasitoid of *Euleia heraclei* L. (Tephritidae) and *Psila rosae* F. (Psilidae). Russia: **EP** (C), **FE** (PR, KU). – Europe (WE, NE, SE, EE), China (CC), USA.
- Dapsilarthra sylvia** (Haliday, 1839) [Alysia] (*Dapsilarthra carpathica* van Achterberg, 1983). Endoparasitoid of flies from the family Agromyzidae. **EP** (N, NW), **WS** (TM). – Europe (WE, SE, EE), China (NE).
- DINOTREMA** Foerster, 1863 (*Coloboma* Foerster, 1863; *Scotioneurus* Foerster, 1863; *Spanomeris* Foerster, 1863; *Pterusa* Fischer, 1958). Type species: *Dinotrema erythrope* Foerster, 1863. One of the largest taxa of Braconidae including several hundreds species widely distributed in the temperate forest zone. Members of this genus often are reared from the Agaricus and Boletus mushrooms and recorded as parasitoids of dipterans from the family Phoridae. Four subgenera are known in the genus, the nominate (with most part of known species), *Prosapha* Foerster, 1863, *Synaldis* Foerster, 1863 and *Synaldotrema* Belokobylskij et Tobias, 2002 (monotypic). Number of species: World – almost 400, Palaearctic – about 350, Russia – 199.
- Dinotrema (Dinotrema) abditivum** Tobias, 2004. Russia: **FE** (PR).
- Dinotrema (Dinotrema) abjectum** Tobias, 2004. Russia: **FE** (PR, KA).
- Dinotrema (Dinotrema) abnorme** Tobias, 2004. Russia: **FE** (PR).
- Dinotrema (Dinotrema) absimile** Tobias, 2004. Russia: **FE** (KU).
- Dinotrema (Dinotrema) accessorium** Tobias, 2004. Russia: **FE** (PR).
- Dinotrema (Dinotrema) aemulum** Tobias, 2004. Russia: **FE** (PR).
- Dinotrema (Dinotrema) aenigma** Tobias, 2004. Russia: **FE** (PR).
- Dinotrema (Dinotrema) aequabile** (Tobias, 1992) [Aspilota]. Russia: **EP** (N).
- Dinotrema (Dinotrema) aestuosum** Tobias, 2004. Russia: **EP** (NW).
- Dinotrema (Dinotrema) alienum** Tobias, 2004. Russia: **FE** (PR, KA). – Japan (Hon).
- Dinotrema (Dinotrema) alitum** Tobias, 2004. Russia: **FE** (PR).
- Dinotrema (Dinotrema) allictum** Tobias, 2004. Russia: **FE** (PR).
- Dinotrema (Dinotrema) amandum** Tobias, 2004. Russia: **FE** (SA).
- Dinotrema (Dinotrema) amoenidens** (Fischer, 1973) [Aspilota]. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), China (CC, SW).
- Dinotrema (Dinotrema) amoepilosum** Papp, 1999. Russia: **FE** (PR). – Mongolia.
- Dinotrema (Dinotrema) angustitempus** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) appellator** Tobias, 2004. Russia: **FE** (PR, SA, KU).
- Dinotrema (Dinotrema) applicatum** Tobias, 2004. Russia: **FE** (SA).
- Dinotrema (Dinotrema) aquilum** Tobias, 2004. Russia: **FE** (PR, KU).
- Dinotrema (Dinotrema) aquitabile** Tobias, 2004. Russia: **EP** (NW).
- Dinotrema (Dinotrema) arenosum** Tobias, 2004. Russia: **FE** (KA).
- Dinotrema (Dinotrema) barbarum** Tobias, 2007. Russia: **FE** (KA).
- Dinotrema (Dinotrema) bebium** Tobias, 2007. Russia: **FE** (SA).
- Dinotrema (Dinotrema) bellatrix** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) bellatulum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) bellax** Tobias, 2007. Russia: **FE** (PR, SA, KU, KA).
- Dinotrema (Dinotrema) bicoloreum** Tobias, 2007. Russia: **FE** (AM, PR).

- Dinotrema (Dinotrema) brevicauda** (Tobias, 1962) [Aspilota]. Russia: **EP** (NW). – Europe (WE, EE).
- Dinotrema (Dinotrema) brevisulcus** Tobias, 2003. Russia: **EP** (CR), **FE** (PR).
- Dinotrema (Dinotrema) breviterebra** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) cachectes** Tobias, 2007. Russia: **FE** (KA).
- Dinotrema (Dinotrema) caductum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) caecillum** Tobias, 2006. Russia: **FE** (KA).
- Dinotrema (Dinotrema) caecum** Tobias, 2006. Russia: **FE** (KA).
- Dinotrema (Dinotrema) caelium** Tobias, 2006. Russia: **FE** (PR).
- Dinotrema (Dinotrema) caesennium** Tobias, 2006. Russia: **EP** (NW).
- Dinotrema (Dinotrema) caesonium** Tobias, 2006. Russia: **FE** (PR).
- Dinotrema (Dinotrema) caesum** Tobias, 2006. Russia: **EP** (NW).
- Dinotrema (Dinotrema) calamitosum** Tobias, 2006. Russia: **EP** (NW).
- Dinotrema (Dinotrema) callidium** Tobias, 2007. Russia: **FE** (SA).
- Dinotrema (Dinotrema) callidum** Tobias, 2006. Russia: **EP** (NW), **FE** (SA).
- Dinotrema (Dinotrema) callanicum** Tobias, 2007. Russia: **FE** (KU).
- Dinotrema (Dinotrema) calliope** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) calpurinum** Tobias, 2006. Russia: **FE** (AM, KH).
- Dinotrema (Dinotrema) calvisum** Tobias, 2006. Russia: **FE** (KH, PR).
- Dinotrema (Dinotrema) calvum** Tobias, 2006. Russia: **FE** (PR).
- Dinotrema (Dinotrema) camena** Tobias, 2007. Russia: **FE** (PR, KU, KA). – Japan (Hok).
- Dinotrema (Dinotrema) campense** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) campester** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) canaliculatum** Tobias, 2006. Russia: **EP** (NW).
- Dinotrema (Dinotrema) caninium** Tobias, 2007. Russia: **FE** (PR, SA, MG).
- Dinotrema (Dinotrema) canissum** Tobias, 2007. Russia: **FE** (PR, KA).
- Dinotrema (Dinotrema) captator** Tobias, 2007. Russia: **FE** (SA, KA).
- Dinotrema (Dinotrema) captiosum** Tobias, 2006. Russia: **FE** (PR).
- Dinotrema (Dinotrema) carinatum** (Tobias, 1962) [Aspilota]. Russia: **EP** (NW). – Europe (WE, EE), Korean Peninsula.
- Dinotrema (Dinotrema) carnifex** Tobias, 2006. Russia: **FE** (PR).
- Dinotrema (Dinotrema) carnivorum** Tobias, 2007. Russia: **ES** (ZB), **FE** (PR, SA).
- Dinotrema (Dinotrema) carum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) cassium** Tobias, 2006. Russia: **FE** (AM).
- Dinotrema (Dinotrema) cassum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) castum** Tobias, 2006. Russia: **FE** (AM).
- Dinotrema (Dinotrema) casuale** Tobias, 2007. Russia: **FE** (KU).
- Dinotrema (Dinotrema) cato** Tobias, 2007. Russia: **FE** (PR, SA, KU, KA). – China (CC), Japan (Hok, Hon).
- Dinotrema (Dinotrema) catonians** Tobias, 2007. Russia: **FE** (PR, KU).
- Dinotrema (Dinotrema) cautulum** Tobias, 2006. Russia: **FE** (PR).
- Dinotrema (Dinotrema) censor** Tobias, 2007. Russia: **FE** (PR, SA).
- Dinotrema (Dinotrema) cercator** Tobias, 2007. Russia: **FE** (SA).
- Dinotrema (Dinotrema) cerinum** Tobias, 2006. Russia: **FE** (KH, PR).
- Dinotrema (Dinotrema) cerium** Tobias, 2007. Russia: **FE** (KU).
- Dinotrema (Dinotrema) certum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) cinna** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) circuitum** Tobias, 2007. Russia: **FE** (PR, KU).
- Dinotrema (Dinotrema) cladium** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) clandestinum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) clodia** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) cluentum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) coactum** Tobias, 2007. Russia: **FE** (KU).
- Dinotrema (Dinotrema) coecium** Tobias, 2007. Russia: **ES** (ZB), **FE** (PR).
- Dinotrema (Dinotrema) comes** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) commovens** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) compar** Tobias, 2007. Russia: **FE** (PR).

- Dinotrema (Dinotrema) concinnatum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) concinnum** (Haliday, 1838) [Alysia] (*Synaldis maximum* Fischer, 1962). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Tunisia, Turkey, Israel, Iran, Afghanistan, Mongolia.
- Dinotrema (Dinotrema) conexium** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) confessum** Tobias, 2007. Russia: **FE** (SA).
- Dinotrema (Dinotrema) congruum** Tobias, 2007. Russia: **FE** (PR, KU).
- Dinotrema (Dinotrema) conjunctum** Tobias, 2007. Russia: **FE** (PR, SA). – China (CC).
- Dinotrema (Dinotrema) connexivum** Tobias, 2007. Russia: **FE** (PR, SA, KU).
- Dinotrema (Dinotrema) connexum** Tobias, 2007. Russia: **FE** (PR, KA).
- Dinotrema (Dinotrema) consors** Tobias, 2007. Russia: **FE** (KU).
- Dinotrema (Dinotrema) conspectum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) conspicuum** Tobias, 2007. Russia: **FE** (PR, CH).
- Dinotrema (Dinotrema) constrictum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) consuetum** Tobias, 2007. Russia: **FE** (KH, SA, MG).
- Dinotrema (Dinotrema) contracticorne** (Fischer, 1974) [Aspilota]. Russia: **FE** (MG). – Europe (WE, EE), Iran.
- Dinotrema (Dinotrema) curabile** Tobias, 2007. Russia: **FE** (SA, KA).
- Dinotrema (Dinotrema) curiatum** Tobias, 2007. Russia: **FE** (PR). – Japan (Hok).
- Dinotrema (Dinotrema) curiosulum** Tobias, 2007. Russia: **FE** (MG).
- Dinotrema (Dinotrema) curiosum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) curitabele** Tobias, 2007. Russia: **FE** (KA).
- Dinotrema (Dinotrema) curitium** Tobias, 2007. Russia: **FE** (PR, SA).
- Dinotrema (Dinotrema) curium** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) cursor** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) curvicauda** Tobias, 2007. Russia: **FE** (SA).
- Dinotrema (Dinotrema) cybele** Tobias, 2007. Russia: **FE** (CH).
- Dinotrema (Dinotrema) cylon** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) cylonium** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) dentatum** (Tobias, 1962) [Aspilota]. Russia: **EP** (NW, CR). – Georgia.
- Dinotrema (Dinotrema) dimidiatum** (Thomson, 1895) [Alysia]. Endoparasitoid of *Scaptomyza pallida* Z. (Drosophilidae). Russia: **EP** (NC). – Europe (WE, EE), Turkey, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Dinotrema (Dinotrema) divisum** (Stelfox et Graham, 1950) [Aspilota]. Russia: **EP** (NW, C, NC), **FE** (PR). – Europe (WE, SE, EE), Afghanistan, Korean Peninsula.
- Dinotrema (Dinotrema) falsificum** (Stelfox et Graham, 1950) [Aspilota]. Russia: **EP** (NW). – Europe (WE, EE).
- Dinotrema (Dinotrema) fungicola** (Tobias, 1992) [Aspilota]. Russia: **EP** (N, NW, C), **FE** (KU, KA).
- Dinotrema (Dinotrema) glabratum** (Tobias, 2007) [*Dinotrema glabrum* Tobias, 2003, nom. praeocc., nec *D. glabrum* (Stelfox et Graham, 1951)]. Russia: **FE** (PR).
- Dinotrema (Dinotrema) glabrum** (Stelfox et Graham, 1951) [Aspilota]. Russia: **EP** (NW). – Europe (WE, NE, EE), Mongolia, Korean Peninsula.
- Dinotrema (Dinotrema) insulare** Tobias, 2003. Russia: **FE** (KU). – Japan (Hok).
- Dinotrema (Dinotrema) jaculans** (Haliday, 1838) [Alysia]. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Dinotrema (Dinotrema) kamtschaticum** Tobias, 2003. Russia: **FE** (KA).
- Dinotrema (Dinotrema) kempei** (Hedqvist, 1973) [Aspilota]. Russia: **EP** (N, NW). – Europe (NE, SE, EE), China (NE, SE).
- Dinotrema (Dinotrema) leptocauda** (Fischer, 1976) [Aspilota]. Russia: **EP** (NW), **FE** (PR). – Europe (WE, EE), Japan.
- Dinotrema (Dinotrema) lineolum** (Thomson, 1895) [Alysia]. Endoparasitoid of *Megaselia rufipes* Mg. (Phoridae). Russia: **EP** (C), **ES** (ZB), **FE** (PR, SA, KU, KA). – Europe (WE, SE, EE), Armenia, Mongolia, Korean Peninsula.
- Dinotrema (Dinotrema) liosoma** (Stelfox et Graham, 1951) [Aspilota] (*Alysia caudata* Thomson, 1895). Russia: **EP** (N, NW, C), **FE** (PR). – Europe (WE, NE, SE, EE).
- Dinotrema (Dinotrema) longicauda** Tobias, 2003. Russia: **FE** (PR). – ? Turkey.
- Dinotrema (Dinotrema) longiventre** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) lugaense** Tobias, 2003. Russia: **EP** (NW).
- Dinotrema (Dinotrema) marshakovi** Belokobylskij, 2019 (*Dinotrema concinnum* Tobias, 2007, nom. praeocc., nec Haliday, 1838). Russia: **FE** (CH).
- Dinotrema (Dinotrema) matridignum** (Fischer, 1974) [Aspilota]. Russia: **FE** (PR). – Europe (WE, EE).
- Dinotrema (Dinotrema) microsoma** (Fischer, 1976) [Aspilota]. Russia: **EP** (NC). – Europe (WE, EE).
- Dinotrema (Dinotrema) minicamena** Tobias, 2007. Russia: **FE** (PR, KA).
- Dinotrema (Dinotrema) naevium** (Tobias, 1962) [Aspilota]. Russia: **EP** (NW). – Europe (EE), Mongolia, Korean Peninsula.

- Dinotrema (Dinotrema) necrassicosta** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) nervosum** (Haliday, 1833) [Alysia] (*Alysia crassica* Thomson, 1895). Endoparasitoid of flies from the families Drosophilidae, Fanniidae, Mycetophilidae, Phoridae and Sphaeroceridae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula.
- Dinotrema (Dinotrema) nevae** (Tobias, 1986) [Aspilota]. Russia: **EP** (NW).
- Dinotrema (Dinotrema) oleraceum** (Tobias, 1962) [Aspilota]. Russia: **EP** (NW), **FE** (PR, SA, KU, KA). – Europe (WE, SE, EE), Mongolia, Korean Peninsula.
- Dinotrema (Dinotrema) orientale** Tobias, 2003. Russia: **FE** (PR). – Kazakhstan.
- Dinotrema (Dinotrema) pilosulum** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) propodeale** (Tobias, 1962) [Aspilota]. Russia: **EP** (NW). – Europe (WE, EE), Korean Peninsula.
- Dinotrema (Dinotrema) remotum** Papp, 1999. Russia: **FE** (SA). – Mongolia.
- Dinotrema (Dinotrema) sergeji** Tobias, 2003. Russia: **FE** (PR, KA).
- Dinotrema (Dinotrema) sessile** van Achterberg, 1988. Russia: **EP** (N). – Europe (WE).
- Dinotrema (Dinotrema) sochareolatum** Tobias, 2004. Russia: **EP** (NC).
- Dinotrema (Dinotrema) sochiense** Tobias, 2003. Russia: **EP** (NC).
- Dinotrema (Dinotrema) spasski** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) stigmaticum** (Tobias, 1992) [Aspilota]. Russia: **EP** (N, NC).
- Dinotrema (Dinotrema) storozhevae** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) subbebum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) subcaesum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) subcalamitosum** Tobias, 2007. Russia: **FE** (KA).
- Dinotrema (Dinotrema) subcallidium** Tobias, 2007. Russia: **FE** (KA).
- Dinotrema (Dinotrema) subcamena** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) subcladium** Tobias, 2007. Russia: **FE** (MG).
- Dinotrema (Dinotrema) subconnexum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) subconsuetum** Tobias, 2007. Russia: **FE** (KA).
- Dinotrema (Dinotrema) subcrassica** Tobias, 2007. Russia: **FE** (KU).
- Dinotrema (Dinotrema) subcuriosum** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) subcurium** Tobias, 2007. Russia: **FE** (PR).
- Dinotrema (Dinotrema) subinsulare** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) suboleraceum** Tobias, 2007. Russia: **FE** (PR, SA, KU, KA). – Japan (Hok).
- Dinotrema (Dinotrema) subtauricum** Tobias, 2003. Russia: **EP** (NW).
- Dinotrema (Dinotrema) sylvaticum** Tobias, 2003. Russia: **EP** (NW).
- Dinotrema (Dinotrema) tauricum** (Telenga, 1935) [Aspilota] (*Aspilota alua* Stelfox et Graham, 1950). Russia: **EP** (N, NW, NC, CR), **FE** (PR, KU). – Europe (WE, NE, EE), China (NE), Korean Peninsula.
- Dinotrema (Dinotrema) tenuicorne** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) tosgonii** Papp, 1999. Russia: **ES** (ZB), **FE** (PR). – Mongolia.
- Dinotrema (Dinotrema) transitum** Tobias, 2003. Russia: **EP** (NW). – Georgia.
- Dinotrema (Dinotrema) tricoloratum** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) tuberculatum** van Achterberg, 1988. Russia: **EP** (NW), **ES** (BR), **FE** (PR, KA). – Europe (WE, NE, SE, EE), China (SW, SE), Korean Peninsula.
- Dinotrema (Dinotrema) ussuriense** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Dinotrema) varimembre** (Fischer, 1973) [Aspilota]. Russia: **EP** (N). – Europe (WE, EE).
- Dinotrema (Dinotrema) varipes** (Tobias, 1962) [Aspilota]. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Georgia, Mongolia, Korean Peninsula.
- Dinotrema (Prosapha) comptum** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Prosapha) pachysemoides** Tobias, 2003. Russia: **FE** (PR).
- Dinotrema (Prosapha) speculum** (Haliday, 1838) [Alysia] (*Alysia venusta* Haliday, 1838). Russia: **EP** (NW, C, S, NC), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Kyrgyzstan, Kazakhstan.
- Dinotrema (Prosapha) ussuriicum** (Tobias, 2007) (*Dinotrema (Prosapha) ussuriense* Tobias, 2003, nom. praeocc., nec *D. (Dinotrema) ussuriense* Tobias, 2003). Russia: **FE** (PR).
- Dinotrema (Synaldis) bicolorator** (Belokobylskij, 2002) [Synaldis]. Russia: **FE** (PR).
- Dinotrema (Synaldis) bokhaica** (Belokobylskij, 2004) [Synaldis]. Russia: **FE** (PR).
- Dinotrema (Synaldis) cabinica asiatica** (Papp, 1996) [Synaldis]. Russia: **FE** (PR, SA). – Korean Peninsula.
- Dinotrema (Synaldis) cespitator** (Belokobylskij, 2004) [Synaldis]. Russia: **FE** (PR, KA).

- Dinotrema (Synaldis) concolor** (Nees, 1812) [Bassus]. Endoparasitoid of *Megaselia albidihalteris* Felt and *M. nigra* Santos (Phoridae). Russia: **EP** (NW, C, E), **UR**, **FE** (PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Turkey, Iran, Afghanistan, Mongolia, Korean Peninsula.
- Dinotrema (Synaldis) cultrigaster** (Fischer, 1970) [Synaldis]. Russia: **EP** (NW), **FE** (PR). – Europe (WE).
- Dinotrema (Synaldis) distenta** (Papp, 1994) [Synaldis]. Russia: **FE** (PR). – Korean Peninsula.
- Dinotrema (Synaldis) distracta** (Nees, 1834) [Alysia]. Russia: **EP** (NW, C, E), **UR**, **FE** (PR, KU, KA, MG). – Europe (WE, NE, SE, EE), Tunisia, Israel, Iran, Uzbekistan, Mongolia, China (SE), Korean Peninsula, Malaysia.
- Dinotrema (Synaldis) esipenkoi** (Belokobyl'skij, 2004) [Synaldis]. Russia: **FE** (PR).
- Dinotrema (Synaldis) evgenievka** (Belokobyl'skij, 2004) [Synaldis]. Russia: **FE** (PR).
- Dinotrema (Synaldis) extremiorientalis** (Belokobyl'skij, 2002) [Synaldis]. Russia: **FE** (PR, SA). – Japan (Hok).
- Dinotrema (Synaldis) hirsuta** (Papp, 1994. Russia: **FE** (PR, SA). – Korean Peninsula, Japan (Hok).
- Dinotrema (Synaldis) kangauziensis** Belokobyl'skij, 2002) [Synaldis]. Russia: **FE** (PR).
- Dinotrema (Synaldis) leshii** (Belokobyl'skij, 2004) [Synaldis]. Russia: **FE** (PR, KA).
- Dinotrema (Synaldis) licho** (Belokobyl'skij, 2004) [Synaldis]. Russia: **FE** (PR). – Japan (Hok, Hon).
- Dinotrema (Synaldis) nitidulator** (Belokobyl'skij, 2004) [Synaldis]. Russia: **FE** (PR).
- Dinotrema (Synaldis) orotshi** (Belokobyl'skij, 2004) [Synaldis]. Russia: **FE** (KH, PR).
- Dinotrema (Synaldis) propedistractam** (Papp, 1993) [Synaldis]. Russia: **FE** (PR). – Europe (EE), Korean Peninsula.
- Dinotrema (Synaldis) reducta** (Tobias, 1962) [Aspilota]. Russia: **EP** (NW, C), **UR**, **ES** (IR), **FE** (KH, PR). – Europe (WE, EE), Korean Peninsula.
- Dinotrema (Synaldis) seralae** (Belokobyl'skij, 2004) [Synaldis]. Russia: **FE** (PR).
- Dinotrema (Synaldis) sincera** (Papp, 1994) [Synaldis]. Russia: **FE** (PR). – Korean Peninsula.
- Dinotrema (Synaldis) sternalis** (Belokobyl'skij, 2004) [Synaldis]. Russia: **FE** (PR). – Japan (Hon).
- Dinotrema (Synaldis) sulcata** (Fischer, 1962) [Synaldis]. Russia: **UR**, **FE** (PR). – Europe (SE, EE), Tunisia, Mongolia.
- Dinotrema (Synaldis) ultima** (Fischer, 1970) [Synaldis]. Russia: **FE** (PR, KA). – Europe (WE, SE, EE), Iran.
- Dinotrema (Synaldis) ussuriiana** (Belokobyl'skij, 2004) [Synaldis]. Russia: **FE** (PR).
- Dinotrema (Synaldis) vestigata** (Papp, 1994) [Synaldis]. Russia: **FE** (PR, KU, KA). – Korean Peninsula, Japan (Hok, Hon, Kyu).
- Dinotrema (Synaldotrema) speciosum** (Belokobyl'skij et Tobias, 2002) [Synaldis]. Russia: **ES** (TU), **FE** (PR).
- GRAMMOSPILA** Foerster, 1863 (*Paraorthostigma* Königsmann, 1972). Type species: *Alysia isabella* Haliday, 1838. Small genus with only four known species mainly recorded in the Palaearctic region. Previously, the species of this genus were considered as members of the genus *Dapsilarthra* and only recently (van Achterberg, 2014) the genus *Grammospila* was restored in generic status. Endoparasitoids of flies from the families Agromyzidae and Scathiophagidae. Number of species: World and Palaearctic – 4, Russia – 2.
- Grammospila isabella** (Haliday, 1838) [Alysia]. Russia: **WS** (TM), **FE** (KH, PR, KU). – Europe (WE, SE), China (SW, CC, SE).
- Grammospila rufiventris** (Nees, 1812) [Bassus] (*Alysia flaviventris* Haliday, 1838; *Phaenocarpa ochrogaster* Szépligeti, 1898). Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW, C, E, NC), **FE** (PR, KA). – Europe (WE, SE, EE), Turkey, Mongolia, China (NE, CC, SW, SE), Japan.
- HETEROLEXIS** Foerster, 1863. Type species: *Heterolexis subtilis* Foerster, 1863. Small genus with eight known species mainly recorded in the Palaearctic region. Previously, the species of this genus were included into the genus *Dapsilarthra* and only recently (van Achterberg, 2014) the genus *Heterolexis* was restored in generic status. Number of species: World and Palaearctic – 8, Russia – 2.
- Heterolexis balteata** (Thomson, 1895) [Alysia]. Endoparasitoid of flies from the families Agromyzidae and Anthomyiidae. Russia: **EP** (NW, C, NC), **WS** (TM), **ES** (BR, ZB), **FE** (PR, SA, KA). – Europe (WE, SE, EE), Turkey, Korean Peninsula, Japan.
- Heterolexis dictynna** (Marshall, 1895) [Adelura]. Endoparasitoid of *Hylemya flavipennis* Fll. (Tephritidae). Russia: **EP** (NW, NC), **FE** (KA). – Europe (WE, SE, EE).
- HYLCALOSIA** Fischer, 1967 (*Holcalysia* Cameron, 1910, nom. praeocc., nec Cameron, 1905). Type species: *Holcalysia ruficeps* Cameron, 1910. Small and peculiar genus with unknown biology, sporadically distributed in the Eastern Asia. Number of species: World – 13, Palaearctic – 6, Russia – 3.
- Hylcalosia hymaenei** Belokobyl'skij, 1992. Russia: **FE** (AM, KH, PR).
- Hylcalosia livadiae** Belokobyl'skij, 2015. Russia: **FE** (PR).
- Hylcalosia sutchanica** Belokobyl'skij, 1992 (*Hylcalosia adsimilis* Papp, 1994). Russia: **FE** (AM, PR). – China (CC), Korean Peninsula.
- IDIASTA** Foerster, 1863 (*Euphaenocarpa* Tobias, 1975). Type species: *Alysia maritima* Haliday, 1838. Relatively large genus distributed in several zoogeographic regions, but mainly recorded in the Holarctic. Perhaps endoparasitoids of flies from the family Muscidae. Number of species: World – 52, Palaearctic – 21, Russia – 12.
- Idiasta aborigen** Belokobyl'skij, 1998. Russia: **FE** (PR, SA, KU).

- Idiasta annulicornis** (Thomson, 1895) [Alysia]. Russia: **ES** (BR), **FE** (PR, KA). – Europe (NE), China (SE).
- Idiasta buriat** Belokobylskij, 1998. Russia: **ES** (BR).
- Idiasta daurica** Belokobylskij, 1998. Russia: **ES** (ZB).
- Idiasta dichrocera** Königsmann, 1960. Russia: **EP** (NW, C), **WS** (AL), **FE** (KH, PR). – Europe (WE, EE), Turkey, Israel, Uzbekistan, Kazakhstan, China (CC, SW, SE), Korean Peninsula.
- Idiasta maritima** (Haliday, 1838) [Alysia]. Russia: **EP** (NW, S, NC), **WS** (AL). – Europe (WE, SE, EE), Kazakhstan, Mongolia, N America, Mexico.
- Idiasta megastigma** Tobias, 1999. Russia: **EP** (N).
- Idiasta pallida** Papp, 1994. Russia: **FE** (PR). – Korean Peninsula.
- Idiasta paramaritima** Königsmann, 1960. Russia: **EP** (C), **FE** (PR). – Europe (WE, SE, EE), Mongolia, China (SW).
- Idiasta sculpturata** (Tobias, 1986) [Euphaenocarpa]. Russia: **EP** (NW).
- Idiasta subannellata** (Thomson, 1895) [Alysia] (*Idiasta rossica* Telenga, 1935). Russia: **EP** (NW, C, CR), **WS** (TM). – Europe (WE, NE, EE), Turkey, Kazakhstan, China (SW, SE).
- Idiasta tungus** Belokobylskij, 1998. Russia: **FE** (PR).
- MESOCRINA** Foerster, 1863 (*Pseudomesocrina* Königsmann, 1959). Type species: *Mesocrina indagatrix* Foerster, 1863. Small genus distributed mainly in the Holarctic, but also sporadically recorded in the Oriental and Neotropical regions. Endoparasitoids of flies from the family Scathophagidae. Number of species: World – 7, Palaearctic – 4, Russia – 3.
- Mesocrina leshii** Belokobylskij, 1998. Russia: **FE** (KH, PR).
- Mesocrina lesovik** Belokobylskij, 1998. Russia: **FE** (PR).
- Mesocrina lichio** Belokobylskij, 1998. Russia: **FE** (SA). – China (NC).
- NEORTHOSTIGMA** Belokobylskij, 1998. Type species: *Neorthostigma eoum* Belokobylskij, 1998. Monotypic genus with unknown biology; its synonymisation with *Orthostigma* (Wharton, 2002) was unjustified: the former genus distinctly differs from the latter by the large paraclypeal pits, the absence of the oblique sulcus between antenna and eye, the presence of scutal pits and entirely setose mesoscutum. Only single described Eastern Palaearctic species is known; the genus was also recorded in the Australasian region.
- Neorthostigma eoum** Belokobylskij, 1998. Russia: **FE** (PR, SA). – Japan (Kyū).
- ORTHOSTIGMA** Ratzeburg, 1844. Type species: *Aphidius flavipes* Ratzeburg, 1844 (= *Alysia pumilum* Nees, 1834). Relatively large genus distributed mainly in the Holarctic, Oriental and Afrotropical regions. Consists of three subgenera, of which two are known only from tropical regions of the Old World. In the Palaearctic and Russia only the members of the nominative subgenus *Orthostigma* s. str. occur. Endoparasitoids of flies from the subfamilies Agromyzidae and Phoridae. Number of species: World – about 60, Palaearctic – 33, Russia – 16.
- Orthostigma anatolii** Belokobylskij, 1998. Russia: **FE** (SA).
- Orthostigma bicolor** Belokobylskij, 1998. Russia: **FE** (PR).
- Orthostigma breviradiale** Königsmann, 1969. Russia: **FE** (KA). – Europe (WE, SE, EE), Mongolia.
- Orthostigma cratospilum** (Thomson, 1895) [Alysia] (*Alysia melanostigma* Thomson, 1895). Endoparasitoid of flies from the families Drosophilidae, Phoridae and Sepsidae. Russia: **EP** (C, E, NC), **UR**, **WS** (TM), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), China (NE, SE), Korean Peninsula.
- Orthostigma dentatum** Belokobylskij, 1998. Russia: **ES** (TU, BR), **FE** (KH, PR).
- Orthostigma laticeps** (Thomson, 1895) [Alysia] (*Alysia aequalis* Thomson, 1895; *Aspilota latinerve* Petersen, 1956). Russia: **EP** (NW, C, NC), **UR**, **WS** (TM), **ES** (ZB), **FE** (PR, KU, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, Uzbekistan, China (NE, CC, SE), Korean Peninsula.
- Orthostigma longicorne** Königsmann, 1969. Russia: **EP** (NW, C, NC), **UR**, **FE** (PR, KU). – Europe (WE, NE, SE, EE), China (NE, CC, SE), Korean Peninsula.
- Orthostigma lucidum** Königsmann, 1969. Russia: **FE** (PR, SA, KU, KA). – Europe (NE, EE), China (NE, CC), Korean Peninsula.
- Orthostigma maculipes** (Haliday, 1838) [Alysia]. Russia: **EP** (NW, C, E), **UR**, **FE** (PR, CH). – Europe (WE, NE, SE, EE), Iran.
- Orthostigma mandibulare** (Tobias, 1962) [Aspilota]. Russia: **EP** (NW, NC), **WS** (TM), **FE** (KH, PR, KU, MG). – Europe (WE, SE, EE), China (NE, CC, SE), Korean Peninsula.
- Orthostigma maska** Belokobylskij, 1998. Russia: **FE** (PR, KU).
- Orthostigma pumilum** (Nees, 1834) [Alysia] (*Aphidius flavipes* Ratzeburg, 1844; *Orthostigma brunipes* Ratzeburg, 1852). Endoparasitoid of flies from the families Agromyzidae, Cecidomyiidae, Muscidae and Phoridae. Russia: **EP** (NW, C, E, NC, CR), **UR**, **FE** (PR, KA). – Europe (WE, NE, SE, EE), Mongolia, China (CC, SE), Korean Peninsula.
- Orthostigma pusillum** (Zetterstedt, 1838) [Alysia] (*Orthostigma antennatum* Tobias, 1962). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey, China (NE, CC, SE), Korean Peninsula.
- Orthostigma sculpturatum** Tobias, 1962. Russia: **EP** (NW, C, E), **UR**, **WS** (TM), **FE** (PR, SA, KU). – Europe (WE, SE, EE), Uzbekistan, China (NE, CC).
- Orthostigma sibiricum** (Telenga, 1933) [Aspilota]. Russia: **WS** (KM), **FE** (PR, SA, KA). – China (SW, SE), Korean Peninsula.
- Orthostigma sordipes** (Thomson, 1895) [Alysia]. Russia: **FE** (KH, PR, SA, KU). – Europe (WE, SE, EE), China (SE), Korean Peninsula.

- PARENEMA** Foerster, 1863. Type species: *Panerema inops* Foerster, 1863. Small Palaearctic genus with the type species reared from Phoridae. Number of species: World and Palaearctic – 3, Russia – 1.
- Panerema kamtshatica** Belokobylskij, 2012. Russia: **FE** (KA).
- PENTAPLEURA** Foerster, 1863 (*Opisendea* Foerster, 1863; *Gnathospila* Fischer, 1966). Type species: *Bassus pumilio* Nees, 1812. Small Holarctic genus. Endoparasitoids of flies from the families Anthomyiidae, Drosophilidae and Sphaeroceridae. Number of species: World – 12 (2 fossil), Palaearctic – 8, Russia – 6.
- Pentapleura aino** Belokobylskij, 1997. Russia: **FE** (KU).
- Pentapleura angustula** (Haliday, 1838) [Alysia] (*Opisendea tenuicornis* Foerster, 1863; *Aspilota laevipleuris* Tobias, 1962). Endoparasitoid of *Scaptomyza pallida* Z. (Drosophilidae). Russia: **EP** (NW), **FE** (KU). – Europe (WE, NE, SE, EE), Turkey, Mongolia.
- Pentapleura atlasovi** Belokobylskij, 1998. Russia: **FE** (KA).
- Pentapleura fuliginosa** (Haliday, 1838) [Alysia] (*Alysia carinata* Thomson, 1895). Endoparasitoid of flies from the families Anthomyiidae and Drosophilidae. Russia: **EP** (N, NW, C), **FE** (PR, SA, KA). – Europe (WE, EE).
- Pentapleura pumilio** (Nees, 1812) [Bassus] (*Toxares triticiphis* Fitch, 1861; *Pentapleura mesocrinoides* Goidanich, 1936). Endoparasitoid of flies from the families Drosophilidae and Sphaeroceridae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TM, AL), **ES** (BR), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Afghanistan, Mongolia, Korean Peninsula, N America.
- Pentapleura savva** Belokobylskij, 1998. Russia: **FE** (PR).
- PHAENOCARPA** Foerster, 1863 (*Masothesis* Foerster, 1863; *Sathra* Foerster, 1863; *Asonaphes* Provancher, 1886; *Stiralsia* Cameron, 1910; *Rhopaloneura* Stelfox, 1941). Type species: *Alysia picinervis* Haliday, 1838. One of the largest and polymorphic genera of Alysini widely distributed in almost all zoogeographic regions, but the most abundant in the temperate and humid regions of Palaearctic. Consists of 10 subgenera, most of which are described from the East Asia (Belokobylskij et al., 1998; Zhu et al., 2017a, 2017b). Endoparasitoids of flies mainly from the families Anthomyiidae, Drosophilidae, Sarcophagidae and Tephritidae. Number of species: World – about 230, Palaearctic – 109, Russia – 71.
- Phaenocarpa (Discphaenocarpa) angustiptera** Papp, 1968. Russia: **FE** (KH, KU, MG). – Europe (NE, EE), Mongolia, Korean Peninsula.
- Phaenocarpa (Discphaenocarpa) omolonica** Belokobylskij, 1998. Russia: **FE** (CH).
- Phaenocarpa (Homophyla) lichasherstovi** Telenga, 1935. Russia: **EP** (S). – Europe (WE, EE), Kazakhstan.
- Phaenocarpa (Homophyla) pullata** (Haliday, 1838) [Alysia]. Endoparasitoid of *Hylemya genitalis* Schnabl (Anthomyiidae). Russia: **EP** (N, NW, C, NC), **ES** (ZB). – Europe (WE, NE, EE), Turkey, Kazakhstan, Mongolia.
- Phaenocarpa (Homophyla) theodori** (Snellen von Vollenhoven, 1878) [Alysia]. Russia: **EP** (NW), **WS** (KM), **ES** (BR), **FE** (MG, CH). – Europe (NE, EE), Uzbekistan, Kazakhstan.
- Phaenocarpa (Neophaenocarpa) jezoensis** Watanabe, 1937. Russia: **FE** (KU). – Japan (Hok, Kyu).
- Phaenocarpa (Phaenocarpa) aniva** Belokobylskij, 1998. Russia: **FE** (SA).
- Phaenocarpa (Phaenocarpa) arkadii** Belokobylskij, 1998. Russia: **FE** (KU).
- Phaenocarpa (Phaenocarpa) basarukini** Belokobylskij, 1998. Russia: **FE** (PR, KU).
- Phaenocarpa (Phaenocarpa) borealis** Belokobylskij, 1998. Russia: **FE** (KA, MG).
- Phaenocarpa (Phaenocarpa) breviflagellum** van Achterberg et Zaykov, 1981. Russia: **EP** (NC). – Europe (EE).
- Phaenocarpa (Phaenocarpa) brevipalpis** (Thomson, 1895) [Alysia]. Reared from Anthomyiidae puparium. Russia: **WS** (AL), **FE** (KA). – Europe (NE, SE, EE), Israel, Iran, Mongolia.
- Phaenocarpa (Phaenocarpa) canaliculata** Stelfox, 1941. Endoparasitoid of *Fannia monilis* Hal. (Fanniidae). Russia: **EP** (NW, C), **UR**, **WS** (TM). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan.
- Phaenocarpa (Phaenocarpa) caucasica** Telenga, 1935. Russia: **EP** (C). – Azerbaijan.
- Phaenocarpa (Phaenocarpa) chasanica** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) compacta** Belokobylskij, 1998. Russia: **ES** (ZB), **FE** (PR, KU).
- Phaenocarpa (Phaenocarpa) compressa** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) conspurcator** (Haliday, 1838) [Alysia] (*Alysia arctica* Thomson, 1895; *Phaenocarpa tatrica* Niezabitowski, 1910; *Ph. remota* Papp, 1981). Endoparasitoid of *Scathophaga stercoraria* L. (Scathophagidae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Turkmenistan, Uzbekistan, Kazakhstan, Mongolia, China (CC, SW).
- Phaenocarpa (Phaenocarpa) elizovo** Belokobylskij, 1998. Russia: **FE** (KA).
- Phaenocarpa (Phaenocarpa) eoa** Belokobylskij, 1998. Russia: **FE** (KH, PR, SA).
- Phaenocarpa (Phaenocarpa) ermak** Belokobylskij, 1998. Russia: **WS** (TM), **ES** (BR), **FE** (KH).
- Phaenocarpa (Phaenocarpa) eugenia** (Haliday, 1838) [Alysia] (*Alysia pectoralis* Zetterstedt, 1838; *Phaenocarpa orbicularis* Gurasashvili, 1983). Russia: **EP** (N, NW, E), **ES** (BR, ZB), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Mongolia.
- Phaenocarpa (Phaenocarpa) eunice** (Haliday, 1838) [Alysia] (*Phaenocarpa nimia* Stelfox, 1941). Russia: **ES** (IR, ZB), **FE** (KA). – Europe (WE, EE), China (CC, SW), Korean Peninsula.

- Phaenocarpa (Phaenocarpa) fidelis** Fischer, 1970 (*Phaenocarpa fidelis notaulix* Belokobylskij, 1998). Russia: **ES** (IR), **FE** (PR, KU, MG). – Europe (WE, NE, SE, EE), Georgia, Uzbekistan, Kazakhstan, Korean Peninsula, Japan (Kyu).
- Phaenocarpa (Phaenocarpa) flavipes** (Haliday, 1838) [Alysia]. Endoparasitoid of *Stegana coleoptrata* Scop. (Drosophilidae), *Conisternum obscurum* Fll. and *Norellia spinimana* Fll. (Scathophagidae). Russia: **EP** (N, NW, S, NC), **WS** (TM, AL), **FE** (KA). – Europe (WE, SE, EE), Georgia, Nepal.
- Phaenocarpa (Phaenocarpa) fridolini** Tobias, 1986. Russia: **EP** (N), **WS** (TM).
- Phaenocarpa (Phaenocarpa) gratia** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) intermedia** Tobias, 1962. Russia: **EP** (N, NW), **WS** (TM, AL), **ES** (ZB), **FE** (MG). – China (CC).
- Phaenocarpa (Phaenocarpa) istochaetae** Belokobylskij, 1998. Endoparasitoid of *Istochaeta aldrichi* Mesnil (Tachinidae). Russia: **FE** (PR, KU).
- Phaenocarpa (Phaenocarpa) ivanovi** Belokobylskij, 1998. Russia: **FE** (PR, SA).
- Phaenocarpa (Phaenocarpa) kasparyani** Belokobylskij, 1998. Russia: **FE** (KU).
- Phaenocarpa (Phaenocarpa) kerzhneri** Belokobylskij, 1998. Russia: **FE** (KA).
- Phaenocarpa (Phaenocarpa) kokujevi** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) kolaensis** Vikberg, 2013. Russia: **EP** (N).
- Phaenocarpa (Phaenocarpa) kozyrevskii** Belokobylskij, 1998. Russia: **FE** (KA).
- Phaenocarpa (Phaenocarpa) laticeps** Gurasashvili, 1983. Russia: **EP** (NC). – Europe (SE), Georgia.
- Phaenocarpa (Phaenocarpa) levada** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) lissogastra** Tobias, 1986. Russia: **EP** (C). – China (CC), ? Malaysia.
- Phaenocarpa (Phaenocarpa) livida** (Haliday, 1838) [Alysia] (*Sathra debilis* Foerster, 1863). Endoparasitoid of *Calamoncosis glyceriae* Nartschuk (Chloropidae) and *Geomyza tripunctata* Fll. (Opomyzidae). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).
- Phaenocarpa (Phaenocarpa) masha** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) micula** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) nadezhda** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) nereis** Tobias, 1999. Russia: **EP** (NW).
- Phaenocarpa (Phaenocarpa) nigrella** Tobias, 1986. Russia: **EP** (N), **ES** (IR, BR), **FE** (PR, KA, MG, CH).
- Phaenocarpa (Phaenocarpa) nina** (Haliday, 1838) [Alysia]. Russia: **FE** (? KA: Fahringer, 1929). – Europe (WE).
- Phaenocarpa (Phaenocarpa) notabilis** Stelfox, 1944. Russia: **EP** (N), **FE** (AM). – Europe (WE), China (SW, SE).
- Phaenocarpa (Phaenocarpa) odarka** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) orientalis** Belokobylskij, 1998. Russia: **FE** (PR, SA, KA).
- Phaenocarpa (Phaenocarpa) picinervis** (Haliday, 1838) [Alysia] (*Phaenocarpa americana* Ashmead, 1889). Endoparasitoid of *Hebecnema affinis* Malloch (Muscidae). Russia: **EP** (NW, C), **ES** (YA, ZB), **FE** (PR, SA, KA, MG). – Europe (WE, NE, SE, EE), Turkey, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula, USA.
- Phaenocarpa (Phaenocarpa) pratellae** (Curtis, 1826) [Alysia] (*Alysia piceator* Zetterstedt, 1838; *Phaenocarpa psalliotae* Telenga, 1935). Collected on Boletus mushrooms. Russia: **EP** (N, NW, C, E), **UR**, **WS** (AL), **ES** (YA, ZB), **FE** (AM, KH, PR, SA, KA, MG). – Europe (WE, NE, SE, EE), Kyrgyzstan, Kazakhstan, China (CC, SW), Japan.
- Phaenocarpa (Phaenocarpa) riphaeica** Tobias, 1986. Russia: **UR**, **FE** (PR, KA). – Europe (WE), China (CC).
- Phaenocarpa (Phaenocarpa) ruficeps** (Nees, 1812) [Bassus] (*Bassus testacea* Nees, 1812; *Alysia gracilis* Curtis, 1826; *A. pallida* Curtis, 1826; *A. agriculator* Zetterstedt, 1838; *A. oculator* Ratzeburg, 1848; *A. rubriceps* Provancher, 1883; *Holcalysia testaceipes* Cameron, 1905; *Phaenocarpa divergens* Fischer, 1975; *Ph. fervida* Fischer, 1975; *Ph. incerta* Fischer, 1975; *Ph. meritoria* Papp, 1981; *Ph. ferga* Papp, 1982). Endoparasitoid of flies from the families Anthomyiidae, Lonchaeidae and Piophilidae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (AL), **ES** (KR, IR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Morocco, Tunisia, Armenia, Iran, Uzbekistan, Kazakhstan, Mongolia, China (CC, SW), Korean Peninsula, N America, South Africa.
- Phaenocarpa (Phaenocarpa) rufoorbiculata** Tobias, 1986. Russia: **EP** (N).
- Phaenocarpa (Phaenocarpa) sculptifrons** Tobias, 1962. Russia: **EP** (NW).
- Phaenocarpa (Phaenocarpa) secunda** (Ashmead, 1906) [Kahlia]. Russia: **FE** (KU). – Japan (Hok).
- Phaenocarpa (Phaenocarpa) seitneri** Fahringer, 1929. Endoparasitoid of flies from the family Anthomyiidae. Russia: **EP** (N), **ES** (IR, ZB), **FE** (KH). – Europe (WE), Georgia, China (SE).
- Phaenocarpa (Phaenocarpa) shestakovi** Belokobylskij, 1998. Russia: **FE** (PR). – Japan (Kyu).
- Phaenocarpa (Phaenocarpa) sibirica** Belokobylskij, 1998. Russia: **ES** (ZB), **FE** (KA).
- Phaenocarpa (Phaenocarpa) slavianka** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) stackelbergi** Tobias et Gurasashvili, 1985. Russia: **EP** (NW, NC), **UR**, **ES** (IR), **FE** (PR, SA, KU). – Abkhazia, Georgia.
- Phaenocarpa (Phaenocarpa) tacita** Stelfox, 1941 (*Phaenocarpa caucasica* Gurasashvili, 1983; *Ph. causicola* Tobias,

- 1986). Endoparasitoid of *Drosophila* sp. and *D. phalerata* Mg. (Drosophilidae). Russia: **EP** (NC), **WS** (AL), **ES** (IR, ZB), **FE** (PR, SA, KU, KA). – Europe (WE, EE).
- Phaenocarpa (Phaenocarpa) taiga** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) telengai** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) tenuistigma** Tobias, 1962. Russia: **EP** (NW), **FE** (KH, PR, KU). – Kazakhstan.
- Phaenocarpa (Phaenocarpa) tiliiae** Tobias, 1986. Endoparasitoid of *Temnostoma* sp. (Syrphidae) in Tilia wood. Russia: **EP** (C), **FE** (PR).
- Phaenocarpa (Phaenocarpa) tobiiasi** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) unguicularis** (Thomson, 1895) [Alysia]. Russia: **EP** (NW, NC). – Europe (WE, NE, EE), Georgia.
- Phaenocarpa (Phaenocarpa) ussurica** Belokobylskij, 1998. Russia: **FE** (PR).
- Phaenocarpa (Phaenocarpa) uzonica** Belokobylskij, 1998. Russia: **FE** (KA).
- Phaenocarpa (Phaenocarpa) vulcanica** Belokobylskij, 1998. Russia: **FE** (KA).
- Phaenocarpa (Sibphaenocarpa) ratta** Belokobylskij, 1998. Russia: **WS** (TM).
- Phaenocarpa (Uncphaenocarpa) nigripes** Gurasashvili, 1983. Russia: **WS** (TM), **ES** (BR, YA), **FE** (KA, MG). – Georgia, Mongolia.
- Phaenocarpa (Ussurphaenocarpa) tetradentata** Belokobylskij, 1998. Russia: **FE** (PR, KU).
- PHASMALYSIA** Tobias, 1971. Type species: *Phasmalysia zinovjevi* Tobias, 1971. Small genus from the Holarctic and Afrotropical regions. Biology unknown. Number of species: World – 3, Palaearctic and Russia – 1.
- Phasmalysia zinovjevi** Tobias, 1971. Russia: **UR**.
- PHASMIDIASTA** Wharton, 1980. Type species: *Phasmidiasta lia* Wharton, 1980. Small genus from the Palaearctic, Nearctic, Neotropical and Oriental regions. Biology is unknown. Number of species: World – 4, Palaearctic and Russia – 1.
- Phasmidiasta effecta** Belokobylskij, 1998. Russia: **WS** (NS).
- PSEUDOPEZOMACHUS** Mantero, 1905 (*Ischnopus* Marshall, 1904, nom. praeocc., nec Kriechbaumer, 1898; *Libyophilus* Kieffer, 1906; *Alysiella* Ferrière, 1930). Type species: *Ischnopus bituberculatus* Marshall, 1904. Small Western Palaearctic genus with apterous females and males with wings transformed in the long claviform processes. Endoparasitoids of flies from the family Agromyzidae. Number of species: World and Palaearctic – 4, Russia – 1.
- Pseudopezomachus kasparyani** Tobias, 1986. Russia: **EP** (CR). – Azerbaijan, Israel.
- SYMPHANES** Foerster, 1863. Type species: *Symphanes aciculata* Foerster, 1863. Small genus with two subgenera (*Neosymphanes* Belokobylskij, 1998 is a junior synonym of *Bobekia* Niezabitowski, 1910) and three known species. Endoparasitoids of flies from the families Agromyzidae and Muscidae. Number of species: World – 3, Palaearctic and Russia – 2.
- Symphanes (Bobekia) striolata** (Thomson, 1895) [Alysia] (*Bobekia montana* Niezabitowski, 1910). Endoparasitoid of *Chromatomyia scolopendri* Gour., *Napomyza elegans* Mg. and *Phytoliriomyza ornata* Mg. (Agromyzidae). Russia: **FE** (PR, CH). – Europe (NE, EE).
- Symphanes (Symphanes) aciculata** Foerster, 1863 (*Bobekia uliginosa* Niezabitowski, 1910). Russia: **EP** (CR). – Europe (WE, SE, EE).
- SYNCRASIS** Foerster, 1863. Type species: *Alysia fucicola* Haliday, 1838. Small Holarctic genus with two subgenera, *Syncrasis* s. str. and *Eusyncrasis* Tobias, 1986. Number of species: World and Palaearctic – 3, Russia – 1.
- Syncrasis (Syncrasis) fucicola** (Haliday, 1838) [Alysia]. Russia: **FE** (PR). – Europe (WE, NE, SE).
- TANYCARPA** Foerster, 1863 (*Acrobela* Foerster, 1863; *Epiclista* Foerster, 1863; *Hypostrophia* Foerster, 1863). Type species: *Bassus gracilicornis* Nees, 1812. Medium-sized genus with species mainly recorded from the Holarctic region. Endoparasitoids of flies from the families Drosophilidae, Agromyzidae and Mycetophilidae. Number of species: World – 24, Palaearctic – 20, Russia – 12.
- Tanycarpa amplipennis** (Foerster, 1863) [Hypostrophia]. Russia: **ES** (BR), **FE** (KH, KA, MG). – Europe (WE), China (SE), USA (Alaska).
- Tanycarpa bicolor** (Nees, 1812) [Bassus] (*Alysia ancilla* Haliday, 1838). Endoparasitoid of *Drosophila kuntzei* Fuda, *D. phalerata* Mg. and *Scaptomyza pallida* Z. (Drosophilidae). Russia: **EP** (NW, C), **WS** (TM), **FE** (PR, KA). – Europe (WE, SE, EE), Turkey, China (NE).
- Tanycarpa chors** Belokobylskij, 1998. Russia: **FE** (KH, PR, SA, KU). – China (NC), Korean Peninsula.
- Tanycarpa dazhbog** Belokobylskij, 1998. Russia: **FE** (KU).
- Tanycarpa gracilicornis** (Nees, 1812) [Bassus]. Endoparasitoid of *Liriomyza cicerina* Rd. (Agromyzidae) and *Mycetophila signata* Mg. (Mycetophilidae). Russia: **EP** (N, NW, C, NC), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), China (NC, CC, SE), Korean Peninsula, USA.
- Tanycarpa mitis** Stelfox, 1941. Russia: **EP** (NW, C), **FE** (PR, SA, KU). – Europe (WE, EE), Kyrgyzstan, China (NC, CC, SE).
- Tanycarpa perun** Belokobylskij, 1998. Russia: **FE** (PR).
- Tanycarpa rufinotata** (Haliday, 1838) [Alysia] (*Acrobela carinata* Foerster, 1863; *Epiclista erythrogaster* Foerster, 1863; *Alysia foersteri* Shenefelt, 1974). Endoparasitoid of *Liriomyza cicerinae* Rd. (Agromyzidae). Russia:

EP (NC). – Europe (WE, SE, EE), Georgia, Turkey, China (CC).

Tanycarpa simargla Belokobylskij, 1998. Russia: **FE** (PR).

Tanycarpa strilog Belokobylskij, 1998. Russia: **FE** (KU).

Tanycarpa svarog Belokobylskij, 1998. Russia: **FE** (PR, SA, KU).

Tanycarpa volch Belokobylskij, 1998. Russia: **FE** (PR, SA).

TRACHYUSA Ruthe, 1854 (*Cosmiocarpa* Foerster, 1863). Type species: *Trachyusa nigriceps* Ruthe, 1854 (= *Alysia aurora* Haliday, 1838). Small Palaearctic genus. Number of species: World and Palaearctic – 6, Russia – 3.

Trachyusa aurora (Haliday, 1838) [*Alysia*] (*Trachyusa nigriceps* Ruthe, 1854; *T. nigrothoracica* van Achterberg et O'Connor, 1990). Russia: **EP** (NW, C, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Korean Peninsula.

Trachyusa indrik Belokobylskij, 1998. Russia: **FE** (PR).

Trachyusa vasilisk Belokobylskij, 1998. Russia: **FE** (PR).

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AMYRAS Nixon, 1943. Type species: *Alysia clandestina* Haliday, 1839. Very small Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.

Amyras clandestina (Haliday, 1839) [*Alysia*] (*Dacnusa quadridentata* Thomson, 1895). Russia: **EP** (NW, E), **ES** (BR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia.

ANTRUSA Nixon, 1943. Type species: *Dacnusa melanocera* Thomson, 1895. Small Palaearctic genus, endoparasitoids of flies from the family Agromyzidae. Number of species: World and Palaearctic – 11, Russia – 3.

Antrusa chrysotegula (Tobias, 1986) [Exotela]. Russia: **EP** (C). – Europe (EE), Korean Peninsula.

Antrusa flavicoxa (Thomson, 1895) [Dacnusa]. Endoparasitoid of many species of flies from the family Agromyzidae. Russia: **EP** (N, NW), **ES** (IR, BR), **FE** (PR, SA, KU, MG). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia, Korean Peninsula.

Antrusa melanocera (Thomson, 1895) [Dacnusa] (*Antrusa persimilis* Nixon, 1954). Endoparasitoid of many species of flies from the family Agromyzidae. Russia: **EP** (NW, C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Azerbaijan, Korean Peninsula.

Antrusa vaenia Nixon, 1954. Russia: **EP** (C, NC). – Europe (WE), Uzbekistan, Korean Peninsula.

ARISTELIX Nixon, 1943. Type species: *Alysia (Dacnusa) phaenicura* Haliday, 1839. Very small Western Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.

Aristelix phaenicura (Haliday, 1839) [*Alysia*]. Russia: **EP** (C, NC). – Europe (WE, SE, EE).

CHAENUSA Haliday, 1839 (*Chorebidella* Riegel, 1950). Type species: *Bracon conjungens* Nees, 1811. Medium-sized genus with two subgenera, *Chaenusa* s. str. and *Chorebidea* Viereck, 1914. Endoparasitoids of flies from the family Ephydriidae. Number of species: World – 38, Palaearctic – 15, Russia – 6.

Chaenusa (Chaenusa) conjungens (Nees, 1811) [Bracon]. Endoparasitoid of *Hydrellia* species (Ephydriidae). Russia: **EP** (NW), **WS** (AL), **FE** (PR). – Europe (WE, SE, EE).

Chaenusa (Chaenusa) opaca Stelfox, 1957. Endoparasitoid of *Hydrellia tarsata* Hal. (Ephydriidae). Russia: **EP** (NW). – Europe (WE, EE).

Chaenusa (Chaenusa) orghidani Burghela, 1960. Endoparasitoid of *Hydrellia griseola* Fll. (Ephydriidae). Russia: **EP** (NW, C), **FE** (PR). – Europe (EE), China (CC).

Chaenusa (Chorebidea) naiadum (Haliday, 1839) [*Alysia*]. Endoparasitoid of *Hydrellia griseola* Fll. (Ephydriidae). Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, SE).

Chaenusa (Chorebidea) nereidum (Haliday, 1839) [*Alysia*]. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Mongolia.

Chaenusa (Chorebidea) varinervis Zaykov, 1986. Russia: **EP** (NW, NC), **FE** (PR).

CHOREBUS Haliday, 1833 (*Ametria* Foerster, 1863; *Gyrocampa* Foerster, 1863; *Diplusia* Brischke, 1882). Type species: *Bassus affinis* Nees, 1812. One of the largest genera of Dacnusiini, consists of six subgenera: *Chorebus* s. str., *Etriptes* Nixon, 1943, *Paragyrocampa* Tobias, 1962, *Pentalexia* Perepechaenko, 2000, *Phaenolexis* Foerster, 1863 and *Stiphrocera* Foerster, 1863. More than 450 species are known, mostly from the Palaearctic region. Number of species: World – about 460, Palaearctic – 432, Russia – 272.

Chorebus (Chorebus) affinis (Nees, 1812) [Bassus]. Endoparasitoid of *Hydrellia griseola* Fll. (Ephydriidae) and *Phytomyza rufipes* Mg. (Agromyzidae). Russia: **EP** (NW), **WS** (AL), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Iran, Mongolia, Korean Peninsula.

Chorebus (Chorebus) armida (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **UR**. – Europe (WE, NE, EE).

Chorebus (Chorebus) concinnus (Telenga, 1935) [Dacnusa]. Russia: **EP** (N, NC), **ES** (IR). – Europe (SE, EE), Azerbaijan, Uzbekistan.

Chorebus (Chorebus) cyparissus (Nixon, 1944) [Dacnusa]. Endoparasitoid of *Melanagromyza albocilia* Hndel (Agromyzidae). Russia: **EP** (C, E). – Europe (SE, SE, EE), Azerbaijan, Kazakhstan.

Chorebus (Chorebus) dumitus Tobias, 1999. Russia: **EP** (NW).

Chorebus (Chorebus) erythrogaster (Szépligeti, 1901) [Dacnusa]. Russia: **EP** (E).

Chorebus (Chorebus) fordii (Nixon, 1954) [Gyrocampa]. Endoparasitoid of *Cerodonthea lateralis* Macq.

- (Agromyzidae). Russia: **EP** (NW), **UR**, **FE** (PR). – Europe (WE, SE, EE).
- Chorebus (Chorebus) foveolus** (Haliday, 1839) [Alysia]. Russia: **FE** (KU). – Europe (WE, EE), Azerbaijan.
- Chorebus (Chorebus) gracilipes** (Thomson, 1895) [Dacnusa]. Endoparasitoid of *Cerodontha geniculata* Fll. (Agromyzidae). Russia: **EP** (NW), **FE** (PR, KA). – Europe (NE, SE, EE), Iran, Mongolia.
- Chorebus (Chorebus) groschkei** Griffiths, 1967. Endoparasitoid of *Agromyza prespans* Spencer (Agromyzidae). Russia: **EP** (E). – Europe (WE, EE), Iran.
- Chorebus (Chorebus) kirvus** Tobias, 1999. Russia: **EP** (NW). – Europe (EE).
- Chorebus (Chorebus) ladogae** Tobias, 1986. Russia: **EP** (NW).
- Chorebus (Chorebus) larides** (Nixon, 1944) [Dacnusa]. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Chorebus (Chorebus) minutus** (Telenga, 1935) [Dacnusa]. Russia: **ES** (IR).
- Chorebus (Chorebus) nanus** (Nixon, 1943) [Dacnusa]. Endoparasitoid of *Chromatomyia* and *Phytomyza* species (Agromyzidae). Russia: **UR**. – Europe (WE, NE, EE), Korean Peninsula.
- Chorebus (Chorebus) nixonii** Burghele, 1959. Endoparasitoid of *Hydrellia griseola* Fll. (Ephydriidae). Russia: **FE** (PR). – Europe (EE), Azerbaijan, Iran, Mongolia.
- Chorebus (Chorebus) nydia** (Nixon, 1937) [Dacnusa]. Endoparasitoid of *Agromyza* species (Agromyzidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan.
- Chorebus (Chorebus) scabrifossa** Stelfox, 1957. Russia: **EP** (NW), **FE** (PR). – Europe (WE, EE).
- Chorebus (Chorebus) sculptitergum** Tobias, 1998. Russia: **FE** (PR). – Europe (EE).
- Chorebus (Chorebus) siniffa** (Nixon, 1937) [Dacnusa]. Endoparasitoid of *Cerodontha morosa* Mg. (Agromyzidae). Russia: **EP** (NW), **FE** (KA). – Europe (WE, SE, EE), Kazakhstan.
- Chorebus (Chorebus) solstitialis** (Stelfox, 1951) [Dacnusa]. Endoparasitoid of *Agromyza megalopsis* Hering (Agromyzidae). Russia: **EP** (S, NC). – Europe (WE, SE, EE), Azerbaijan, Iran.
- Chorebus (Chorebus) thusa** (Nixon, 1937) [Dacnusa]. Endoparasitoid of *Phytomyza rufipes* Mg. (Agromyzidae) and *Delia florilega* Z. (Anthomyiidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia.
- Chorebus (Chorebus) uliginosus** (Haliday, 1839) [Alysia] (*Gyrocampa thienemanni* Ruschka, 1913). Endoparasitoid of flies from the families Agromyzidae and Ephydriidae. Russia: **EP** (N, NW, C), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Iran, Mongolia, Korean Peninsula.
- Chorebus (Etriptes) asperimus** Griffiths, 1968. Endoparasitoid of *Cerodontha pygmaea* Mg. and *C. tatrlica* Rydén (Agromyzidae). Russia: **FE** (SA, KU). – Europe (EE).
- Chorebus (Etriptes) rhanis** (Nixon, 1943) [Dacnusa]. Russia: **FE** (KU, MG). – Europe (WE, EE).
- Chorebus (Etriptes) subasper** Griffiths, 1968. Endoparasitoid of *Cerodontha alpina* Nowak. (Agromyzidae). Russia: **WS** (TM), **FE** (KU). – Europe (EE), Israel, Korean Peninsula.
- Chorebus (Etriptes) talaris** (Haliday, 1839) [Alysia]. Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (C), **FE** (KU, KA). – Europe (WE, NE, SE, EE).
- Chorebus (Paragyrocampa) ophthalmicus** (Tobias, 1962) [Paragyrocampa]. Russia: **EP** (NW). – Europe (EE).
- Chorebus (Pentalexis) mysteriosus** Perepechaenko, 2000. Russia: **ES** (ZB).
- Chorebus (Phaenolexis) abaris** (Nixon, 1944) [Dacnusa]. Endoparasitoid of flies from the family Agromyzidae. Russia: **FE** (PR). – Europe (WE, EE).
- Chorebus (Phaenolexis) adnatus** Tobias, 1998. Russia: **FE** (PR, SA).
- Chorebus (Phaenolexis) angulicapitis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) ares** (Nixon, 1944) [Dacnusa]. Russia: **EP** (NW, C), **WS** (TM), **FE** (KA, MG). – Europe (WE, EE), Azerbaijan, Kazakhstan.
- Chorebus (Phaenolexis) bathyzonus** (Marshall, 1895) [Dacnusa]. Endoparasitoid of *Ophiomyia* species (Agromyzidae). Russia: **EP** (NW, C), **UR**, **FE** (KH, PR). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan.
- Chorebus (Phaenolexis) bibulus** Tobias, 1998. Russia: **FE** (KA).
- Chorebus (Phaenolexis) bicoloratus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) brevicornis** (Thomson, 1895) [Dacnusa] (*Dacnusa chrysippe* Nixon, 1944; *D. ea* Nixon, 1944). Endoparasitoid of *Melanagromyza aeneoventris* Fll. (Agromyzidae). Russia: **EP** (NW, NC), **FE** (KH, PR). – Europe (WE, SE, EE), Azerbaijan, Kazakhstan.
- Chorebus (Phaenolexis) brevifemur** (Tobias, 1962) [Dacnusa]. Russia: **EP** (NW). – Europe (EE), Mongolia.
- Chorebus (Phaenolexis) brevivalvis** Tobias, 1998. Russia: **FE** (PR, SA). – Korean Peninsula.
- Chorebus (Phaenolexis) brunripes** Tobias, 1998. Russia: **FE** (PR). – Mongolia.
- Chorebus (Phaenolexis) calthae** Griffiths, 1967. Endoparasitoid of flies from the family Agromyzidae. Russia: **FE** (KA). – Europe (WE, SE, EE), Iran.
- Chorebus (Phaenolexis) cephalotes** Tobias, 1998. Russia: **FE** (KH, PR).
- Chorebus (Phaenolexis) chrysoventris** Tobias, 1998. Russia: **FE** (KU).
- Chorebus (Phaenolexis) compressiventris** (Telenga, 1935) [Dacnusa]. Russia: **EP** (NC). – Europe (EE).
- Chorebus (Phaenolexis) crassicornis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) creteus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) cultratus** (Tobias, 1962) [Dacnusa]. Russia: **EP** (NW, C), **FE** (PR). – Europe (EE), Kazakhstan.

- Chorebus (Phaenolexis) cylindratus** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- Chorebus (Phaenolexis) cytherea** (Nixon, 1937) [Dacnusa] (*Dacnusa calliope* Nixon, 1944; *D. tesmia* Nixon, 1944). Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NC), **ES** (BR), **FE** (KH, PR, KA). – Europe (WE, NE, EE).
- Chorebus (Phaenolexis) cytherius** Tobias, 1998. Russia: **FE** (KH, KA).
- Chorebus (Phaenolexis) declivis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) divergens** Tobias, 1998. Russia: **FE** (PR, KU).
- Chorebus (Phaenolexis) dmitrii** Tobias, 1998. Russia: **FE** (KU).
- Chorebus (Phaenolexis) elegans** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- Chorebus (Phaenolexis) erigens** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) euryale** (Nixon, 1944) [Dacnusa]. Russia: **EP** (C). – Europe (WE, EE), Azerbaijan, Kazakhstan.
- Chorebus (Phaenolexis) femoratus** (Tobias, 1962) [Dacnusa]. Russia: **EP** (NW). – Europe (NE, EE), Azerbaijan, Turkey.
- Chorebus (Phaenolexis) filicornis** Tobias, 1998. Russia: **FE** (SA).
- Chorebus (Phaenolexis) flagellaris** Tobias, 1998. Russia: **FE** (PR, SA, KU). – Korean Peninsula.
- Chorebus (Phaenolexis) flagrator** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) flavicornis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) fumimembris** Tobias, 1998. Russia: **FE** (PR). – Mongolia.
- Chorebus (Phaenolexis) fuscipennis** (Nixon, 1937) [Dacnusa]. Endoparasitoid of *Ophiomyia* species (Agromyzidae). Russia: **EP** (NW, C), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Iran, Korean Peninsula.
- Chorebus (Phaenolexis) gedanensis** (Ratzeburg, 1852) [Alysia] (*Dacnusa anguligena* Nixon, 1937). Endoparasitoid of *Hexomyza schineri* Gir. (Agromyzidae). Russia: **EP** (NW), **ES** (IR), **FE** (KH, PR, KU, KA). – Europe (WE, NE, SE, EE), Uzbekistan, Kazakhstan, Mongolia.
- Chorebus (Phaenolexis) glaber** (Nixon, 1944) [Dacnusa]. Endoparasitoid of *Napomyza* species (Agromyzidae). Russia: **FE** (PR). – Europe (WE, SE, EE).
- Chorebus (Phaenolexis) herbigradus** (Tobias, 1962) [Dacnusa]. Russia: **EP** (NW), **FE** (PR). – Europe (EE).
- Chorebus (Phaenolexis) heringianus** Griffiths, 1967. Endoparasitoid of *Ophiomyia thalictraulic* Hering (Agromyzidae). Russia: **FE** (PR). – Europe (WE, SE, EE).
- Chorebus (Phaenolexis) hirtipes** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) interstinctus** Tobias, 1998. Russia: **FE** (PR). – Mongolia.
- Chorebus (Phaenolexis) iridis** Griffiths, 1968. Endoparasitoid of *Cerodontha iridis* Hendel (Agromyzidae). Russia: **FE** (PR). – Europe (SE, EE), Azerbaijan, Turkey, Iran, Korean Peninsula.
- Chorebus (Phaenolexis) kamtshaticus** Tobias, 1998. Russia: **FE** (KA).
- Chorebus (Phaenolexis) karelicus** Tobias, 1986. Russia: **EP** (N), **FE** (PR). – Europe (SE, EE), Mongolia, Korean Peninsula.
- Chorebus (Phaenolexis) kunaschiricus** Tobias, 1998. Russia: **FE** (KU).
- Chorebus (Phaenolexis) latiradialis** Tobias, 1998. Russia: **FE** (MG).
- Chorebus (Phaenolexis) leleji** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) leptogaster** (Haliday, 1839) [Alysia] (*Dacnusa naenia* Morley, 1924; *D. dinae* Burghelle, 1960). Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW, C, E, NC), **UR**, **FE** (PR, SA, CH). – Europe (WE, NE, SE, EE), Azerbaijan, Israel, Iran, Afghanistan, Kazakhstan, Korean Peninsula.
- Chorebus (Phaenolexis) longiterebralis** Tobias, 1998. Russia: **ES** (YA).
- Chorebus (Phaenolexis) lychnidis** Griffiths, 1967. Endoparasitoid of *Ophiomyia* species (Agromyzidae). Russia: **FE** (PR, SA, KA). – Europe (WE, SE, EE).
- Chorebus (Phaenolexis) macrocerus** Tobias, 1998. Russia: **FE** (KH, PR).
- Chorebus (Phaenolexis) macrorhatus** Tobias, 1998. Russia: **FE** (PR, KU). – Korean Peninsula.
- Chorebus (Phaenolexis) minor** Tobias, 1998. Russia: **FE** (KU).
- Chorebus (Phaenolexis) monilicornis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) monitor** Tobias, 1998. Russia: **FE** (KH, PR).
- Chorebus (Phaenolexis) necessarius** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) nerissa** (Nixon, 1937) [Dacnusa]. Russia: **EP** (NW, C), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Korean Peninsula.
- Chorebus (Phaenolexis) nigriridis** Tobias, 1998. Russia: **FE** (SA). – Mongolia, Korean Peninsula.
- Chorebus (Phaenolexis) nigriritibialis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) nigrosoma** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Phaenolexis) nomia** (Nixon, 1937) [Dacnusa]. Russia: **EP** (C), **ES** (IR), **FE** (KH, PR, KU). – Europe (WE, NE, EE), Azerbaijan, Kazakhstan.
- Chorebus (Phaenolexis) nomioides** Tobias, 1997. Russia: **ES** (IR), **FE** (KH, PR, KU). – Korean Peninsula.

- Chorebus (Phaenolexis) notaulicus** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) orbiculatae** Griffiths, 1967. Endoparasitoid of *Ophiomyia orbiculata* Hendel (Agromyzidae). Russia: FE (PR). – Europe (WE, SE, EE).
- Chorebus (Phaenolexis) ornatus** (Telenga, 1935) [Dacnusa]. Russia: EP (NW, C, E), UR. – Europe (SE, EE), Azerbaijan, Iran.
- Chorebus (Phaenolexis) petiolaris** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) petiolatus** (Nees, 1834) [Alysia]. Endoparasitoid of *Plioreocepta poeciloptera* Schr. (Tephritidae). Russia: EP (NW, C), FE (PR). – Europe (WE, NE, SE, EE), China (SW).
- Chorebus (Phaenolexis) pilosiscutum** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) posticus** (Haliday, 1839) [Alysia] (*Alysia gracilis* Nees, 1834; *Dacnusa egregia* Marshall, 1895; *D. dentata* Tobias, 1962). Endoparasitoid of *Psila nigricornis* Mg. and *P. rosae* F. (Psilidae). Russia: EP (N, NW, C), UR, FE (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Iran, Kazakhstan, Mongolia, Canada.
- Chorebus (Phaenolexis) pratensis** (Tobias, 1962) [Dacnusa]. Russia: EP (NW, C). – Europe (SE, EE).
- Chorebus (Phaenolexis) propinquus** Tobias, 1998. Russia: FE (PR, KU).
- Chorebus (Phaenolexis) pullulus** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) querceti** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) rondanii** (Giard, 1904) [Dacnusa] (*Dacnusa galba* Nixon, 1944). Endoparasitoid of *Ophiomyia simplex* Lw. (Agromyzidae). Russia: EP (NW, C, E), UR, FE (PR). – Europe (WE, SE, EE), Azerbaijan, Kazakhstan, USA.
- Chorebus (Phaenolexis) sakhalinicus** Tobias, 1998. Russia: FE (SA).
- Chorebus (Phaenolexis) selene** (Nixon, 1937) [Dacnusa]. Russia: FE (PR). – Europe (WE, SE, EE).
- Chorebus (Phaenolexis) senilis** (Nees, 1812) [Bassus] (*Dacnusa tomentosa* Thomson, 1895; *D. nemesis* Morley, 1924). Endoparasitoid of flies from the families Agromyzidae, Cecidomyiidae and Psilidae. Russia: EP (NW, C, NC), FE (PR). – Europe (WE, NE, SE, EE), Azerbaijan.
- Chorebus (Phaenolexis) separatus** (Telenga, 1935) [Dacnusa]. Russia: EP (C, E), WS (KM). – Europe (SE, EE), Azerbaijan.
- Chorebus (Phaenolexis) serenus** Tobias, 1998. Russia: FE (KH).
- Chorebus (Phaenolexis) serus** (Nixon, 1937) [Dacnusa]. Russia: FE (PR). – Europe (WE, EE), Korean Peninsula.
- Chorebus (Phaenolexis) spasskensis** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) sphaerothorax** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) stenocerus** (Thomson, 1895) [Dacnusa] (*Dacnusa praeclara* Nixon, 1944). Russia: EP (C), ES (IR). – Europe (WE, NE, EE), Azerbaijan, Uzbekistan, Kazakhstan.
- Chorebus (Phaenolexis) subabaris** Tobias, 1998. Russia: FE (KU).
- Chorebus (Phaenolexis) subcylindratus** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) subfuscipennis** Tobias, 1986. Russia: UR.
- Chorebus (Phaenolexis) subnerissa** Tobias, 1998. Russia: FE (KH, PR, SA, KU). – Mongolia.
- Chorebus (Phaenolexis) subpetiolatus** Tobias, 1998. Russia: ES (BR), FE (PR).
- Chorebus (Phaenolexis) sulcimarginis** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) tamsi** (Nixon, 1944) [Dacnusa]. Russia: FE (PR). – Europe (WE, EE), Iran.
- Chorebus (Phaenolexis) tenuicornis** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) tenuivalvis** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) thoracicus** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) tibialis** Tobias, 1998. Russia: FE (KU).
- Chorebus (Phaenolexis) trjapitzini** Tobias, 1986. Russia: EP (N). – Europe (SE, EE), Korean Peninsula.
- Chorebus (Phaenolexis) varicornis** Tobias, 1998. Russia: ES (IR), FE (KH, PR).
- Chorebus (Phaenolexis) votivus** Tobias, 1998. Russia: FE (PR).
- Chorebus (Phaenolexis) xiphidius** Griffiths, 1967. Endoparasitoid of *Ophiomyia* species (Agromyzidae). Russia: ES (ZB), FE (PR). – Europe (WE, SE, EE), Korean Peninsula.
- Chorebus (Stiphrocera) agraulis** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Cerodontha muscina* Mg. (Agromyzidae). Russia: EP (C). – Europe (WE, SE, EE), Korean Peninsula.
- Chorebus (Stiphrocera) albipes** (Haliday, 1839) [Alysia]. Endoparasitoid of flies from the family Agromyzidae. Russia: EP (E), FE (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Uzbekistan, Kazakhstan, Korean Peninsula.
- Chorebus (Stiphrocera) alecto** (Morley, 1924) [Rhizarcha] (*Dacnusa turissa* Nixon, 1937). Endoparasitoid of flies from the family Agromyzidae. Russia: EP (NW, C, E, NC), FE (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Korean Peninsula.
- Chorebus (Stiphrocera) amasis** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Phytomyza crassisetia* Z. (Agromyzidae). Russia: EP (S). – Europe (WE, NE, SE, EE).
- Chorebus (Stiphrocera) ampliator** (Nees, 1834) [Alysia] (*Stiphrocera nigricornis* Foerster, 1863). Endoparasitoid of flies from the family Agromyzidae. Russia: EP (NW),

- FE** (SA, CH). – Europe (WE, NE, SE, EE), Morocco, Azerbaijan, Kazakhstan.
- Chorebus (Stiphrocera) anasellus** (Stelfox, 1951) [Dacnusa]. Endoparasitoid of *Phytomyza plantaginis* Rob. (Agromyzidae). Russia: **EP** (C, CR), **UR**. – Europe (WE, SE, EE), Azerbaijan, Turkey.
- Chorebus (Stiphrocera) angelicae** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Phytomyza angelicae* Kalt. (Agromyzidae). Russia: **EP** (NW), **FE** (SA, KU). – Europe (WE, NE, EE).
- Chorebus (Stiphrocera) angelus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) aphantus** (Marshall, 1896) [Dacnusa]. Russia: **EP** (NW, C, NC), **UR**, **ES** (BR), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, China (SW).
- Chorebus (Stiphrocera) asper** Tobias, 1998. Russia: **FE** (KH, PR).
- Chorebus (Stiphrocera) asramenes** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Cerodontha pygmaea* Mg. (Agromyzidae). Russia: **EP** (NW, C, NC), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan.
- Chorebus (Stiphrocera) auctus** Tobias, 1998. Russia: **FE** (KH).
- Chorebus (Stiphrocera) avesta** (Nixon, 1944) [Dacnusa]. Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW, C, E), **UR**, **ES** (BR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Korean Peninsula.
- Chorebus (Stiphrocera) bres** (Nixon, 1944) [Dacnusa]. Endoparasitoid of *Agromyza potentillae* Kalt. (Agromyzidae). Russia: **EP** (C, NC), **UR**, **ES** (BR), **FE** (PR, KA). – Europe (WE, NE, SE, EE).
- Chorebus (Stiphrocera) brevitarsis** Tobias, 1998. Russia: **FE** (KA).
- Chorebus (Stiphrocera) buryaticus** Tobias, 1998. Russia: **ES** (BR).
- Chorebus (Stiphrocera) cambricus** Griffiths, 1968. Endoparasitoid of *Liriomyza pusilla* Mg. (Agromyzidae). Russia: **FE** (PR). – Europe (WE).
- Chorebus (Stiphrocera) canace** Tobias, 1998. Russia: **FE** (PR). – Europe (EE), Mongolia.
- Chorebus (Stiphrocera) catta** (Nixon, 1945) [Dacnusa]. Russia: **EP** (NW). – Europe (NE, EE).
- Chorebus (Stiphrocera) chankaensis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) chrysotegula** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) cinctus** (Haliday, 1839) [Alysia] (*Dacnusa castaneiventris* Thomson, 1895). Endoparasitoid of *Agromyza* sp. and *A. lucida* Hendel (Agromyzidae). Russia: **EP** (NW, C), **ES** (IR, BR). – Europe (WE, NE, SE, EE).
- Chorebus (Stiphrocera) coxator** (Thomson, 1895) [Dacnusa]. Endoparasitoid of *Agromyza hendeli* Griff. and *A. phragmitidis* Hendel (Agromyzidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE).
- Chorebus (Stiphrocera) credne** (Nixon, 1944) [Dacnusa]. Endoparasitoid of *Agromyza* species (Agromyzidae). Russia: **EP** (NW, C), **UR**, **FE** (KH, PR). – Europe (WE, NE, SE, EE), Azerbaijan.
- Chorebus (Stiphrocera) credulus** Tobias, 1998. Russia: **ES** (BR), **FE** (KH, KA). – Korean Peninsula.
- Chorebus (Stiphrocera) crenulatus** (Thomson, 1895) [Dacnusa] (*Dacnusa elegantula* Nixon, 1937). Endoparasitoid of *Cerodontha denticornis* Panz. (Agromyzidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Azerbaijan.
- Chorebus (Stiphrocera) crocale** (Nixon, 1945) [Dacnusa]. Russia: **EP** (C), **ES** (BR), **FE** (PR, KA). – Europe (WE, SE, EE).
- Chorebus (Stiphrocera) cubicus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) cubocephalus** (Telenga, 1935) [Rhizarcha] (*Dacnusa cyclops* Nixon, 1937). Endoparasitoid of *Oscinella pusilla* Mg. (Chloropidae). Russia: **EP** (NW, C, NC), **WS** (NS, KM), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kazakhstan, Korean Peninsula.
- Chorebus (Stiphrocera) curtipes** Tobias, 1998. Russia: **FE** (SA).
- Chorebus (Stiphrocera) cybeleius** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- Chorebus (Stiphrocera) cylindricus** (Telenga, 1935) [Dacnusa] (*Dacnusa cybele* Nixon, 1937). Endoparasitoid of *Melanagromyza* species (Agromyzidae). Russia: **EP** (C), **FE** (KH, PR). – Europe (WE, SE, EE), Azerbaijan, Korean Peninsula.
- Chorebus (Stiphrocera) dacnusoideus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) dagda** (Nixon, 1943) [Dacnusa]. Endoparasitoid of *Phytomyza gentianae* Hendel (Agromyzidae). Russia: **EP** (C). – Europe (WE, SE, EE), Korean Peninsula.
- Chorebus (Stiphrocera) daimenus** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Liriomyza* species (Agromyzidae). Russia: **EP** (NW, E). – Europe (WE, NE, SE, EE).
- Chorebus (Stiphrocera) deione** (Nixon, 1944) [Dacnusa]. Endoparasitoid of *Agromyza* species (Agromyzidae). Russia: **EP** (NW), **FE** (PR, KU, KA). – Europe (WE, NE, SE, EE).
- Chorebus (Stiphrocera) didas** (Nixon, 1944) [Dacnusa]. Endoparasitoid of *Napomyza lateralis* Fll. and *N. scrophulariae* Spencer (Agromyzidae). Russia: **EP** (N, NW, C, NC), **UR**, **ES** (IR), **FE** (KH, PR). – Europe (WE, SE, EE), Azerbaijan, Korean Peninsula.
- Chorebus (Stiphrocera) dilatatus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) dilatus** Tobias, 1998. Russia: **FE** (PR).

- Chorebus (Stiphrocera) diremtus** (Nees, 1834) [Alysia] (*Alysia dirempta* Haliday, 1839). Endoparasitoid of *Cerodontha fulvipes* Mg. (Agromyzidae). Russia: **EP** (NW, C), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Mongolia, Korean Peninsula.
- Chorebus (Stiphrocera) dirona** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Liriomyza pusio* Mg. (Agromyzidae). Russia: **EP** (C), **ES** (IR), **FE** (PR). – Europe (WE, SE, EE), Azerbaijan.
- Chorebus (Stiphrocera) eaous** Tobias, 1998. Russia: **FE** (KH).
- Chorebus (Stiphrocera) endymion** Griffiths, 1967. Endoparasitoid of *Aulagromyza luteoscutellata* De Meijere and *Napomyza xylostei* R.-D. (Agromyzidae). Russia: **FE** (PR, KA). – Europe (WE, EE), Korean Peninsula.
- Chorebus (Stiphrocera) enephes** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Cerodontha imbuta* Mg. and *C. phalaridis* Nowak. (Agromyzidae). Russia: **EP** (NW), **UR**. – Europe (WE, NE, SE, EE), Korean Peninsula.
- Chorebus (Stiphrocera) eros** (Nixon, 1937) [Dacnusa]. Endoparasitoid of *Agromyza nigriciliata* Hendel and *A. potentillae* Kalt. (Agromyzidae). Russia: **EP** (C, NC), **FE** (SA, MG). – Europe (WE, NE, SE, EE), Kazakhstan.
- Chorebus (Stiphrocera) expansus** Tobias, 1998. Russia: **FE** (PR). – Mongolia.
- Chorebus (Stiphrocera) falcator** Tobias, 1998. Russia: **FE** (KH, PR, SA).
- Chorebus (Stiphrocera) fallaciosae** Griffiths, 1967. Endoparasitoid of *Phytomyza fallaciosa* Brischke and *Ph. rydeni* Hering (Agromyzidae). Russia: **FE** (KA). – Europe (WE, SE, EE).
- Chorebus (Stiphrocera) flavescens** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) flavipes** (Goureau, 1851) [Dacnusa] (*Dacnusa raissa* Nixon, 1937). Endoparasitoid of flies from the family Agromyzidae. Russia: **FE** (PR, SA, KA). – Europe (WE, SE, EE), Turkey, Iran, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Chorebus (Stiphrocera) flavipleuris** Tobias, 1998. Russia: **FE** (SA).
- Chorebus (Stiphrocera) flavotestaceus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) fumipennis** Tobias, 1998. Endoparasitoid of *Chetostoma continuans* Zia, *Myoleja sinensis* Zia and *Rhagoletis reducta* Hering (Tephritidae). Russia: **FE** (PR). – Korean Peninsula.
- Chorebus (Stiphrocera) ganesus** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Cerodontha beigeriae* Nowak. and *C. imbuta* Mg. (Agromyzidae). Russia: **EP** (NW, C), **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, EE), Korean Peninsula.
- Chorebus (Stiphrocera) geminus** (Tobias, 1962) [Dacnusa]. Russia: **EP** (NW). – Europe (EE), Azerbaijan.
- Chorebus (Stiphrocera) globosus** Tobias, 1998. Russia: **FE** (PR, SA).
- Chorebus (Stiphrocera) gnaruris** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) granulatus** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- Chorebus (Stiphrocera) interjectus** (Tobias, 1962) [Dacnusa]. Russia: **EP** (NW).
- Chorebus (Stiphrocera) iphias** (Nixon, 1943) [Dacnusa]. Russia: **UR**, **FE** (PR). – Europe (WE, EE).
- Chorebus (Stiphrocera) irkutensis** Tobias, 1998. Russia: **ES** (IR).
- Chorebus (Stiphrocera) kasparyani** Tobias, 1998. Russia: **ES** (IR).
- Chorebus (Stiphrocera) kerzhneri** Tobias, 1998. Russia: **FE** (KA).
- Chorebus (Stiphrocera) knautiae** Griffiths, 1967. Endoparasitoid of *Agromyza woerzi* Groschke (Agromyzidae). Russia: **EP** (C), **FE** (KH, PR, SA, KU). – Europe (WE, EE).
- Chorebus (Stiphrocera) kunashiri** Tobias, 1998. Russia: **FE** (KU).
- Chorebus (Stiphrocera) laetabilis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) lanulosus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) lar** (Morley, 1924) [Dacnusa] (*Dacnusa innana* Nixon, 1943). Endoparasitoid of *Agromyza johannae* Meijere and *A. pulla* Mg. (Agromyzidae). Russia: **EP** (NW, C, CR), **UR**, **WS** (KM), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Azerbaijan, Iran, Afghanistan, Korean Peninsula.
- Chorebus (Stiphrocera) lateralis** (Haliday, 1839) [Alysia] (*Alysia fuscata* Haliday, 1839; *Dacnusa albicoxa* Thomson, 1895). Russia: **EP** (NW, C, E), **FE** (AM, PR, KU, KA). – Europe (WE, NE, SE, EE).
- Chorebus (Stiphrocera) latidens** Tobias, 1998. Russia: **ES** (BR), **FE** (PR).
- Chorebus (Stiphrocera) lissonotum** Tobias, 1998. Russia: **FE** (SA).
- Chorebus (Stiphrocera) lissopleuris** Tobias, 1998. Russia: **FE** (PR). – Mongolia, Korean Peninsula.
- Chorebus (Stiphrocera) longitarsis** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- Chorebus (Stiphrocera) longitemporis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) lugubris** (Nixon, 1937) [Dacnusa]. Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW, C), **WS** (TM), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan.
- Chorebus (Stiphrocera) luzulae** Griffiths, 1967. Endoparasitoid of *Chromatomyia luzulae* Hering (Agromyzidae). Russia: **FE** (SA). – Europe (WE, EE).
- Chorebus (Stiphrocera) marshakovi** Tobias, 1998. Russia: **FE** (CH).
- Chorebus (Stiphrocera) melanophytobiae** Griffiths, 1968. Endoparasitoid of *Melanophytobia obscura* R.-H. (Agromyzidae). Russia: **FE** (PR, KA). – Europe (WE, SE, EE), Azerbaijan, Uzbekistan, Korean Peninsula.

- Chorebus (Stiphrocera) menes** Tobias, 1998. Russia: **FE** (SA, KU).
- Chorebus (Stiphrocera) meracus** Tobias, 1998. Russia: **FE** (PR). – Mongolia.
- Chorebus (Stiphrocera) merellus** (Nixon, 1937) [Dacnusa]. Endoparasitoid of *Cerodontha* species (Agromyzidae). Russia: **EP** (NW), **FE** (PR). – Europe (WE, EE), Israel, Iran, Korean Peninsula.
- Chorebus (Stiphrocera) merion** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Phytomyza wahlgreni* Rydén (Agromyzidae). Russia: **EP** (NW). – Europe (WE, SE).
- Chorebus (Stiphrocera) micros** Tobias, 1998. Russia: **FE** (PR, SA).
- Chorebus (Stiphrocera) microsoma** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) minutissimus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) misellus** (Marshall, 1895) [Dacnusa]. Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW, C, E, S, NC), **UR**, **WS** (KM), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Iran, Afghanistan, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Chorebus (Stiphrocera) moniliatus** Tobias, 1998. Russia: **FE** (PR, SA).
- Chorebus (Stiphrocera) mucronatus** (Telenga, 1935) [Dacnusa]. Endoparasitoid of *Phytomyza rufipes* Mg. (Agromyzidae). Russia: **EP** (C, E, S, NC), **ES** (ZB), **FE** (PR, CH). – Europe (WE, SE, EE), Azerbaijan, Iran, Uzbekistan, Kazakhstan, Mongolia.
- Chorebus (Stiphrocera) mufrius** Tobias, 1998. Russia: **FE** (PR). – Mongolia, Korean Peninsula.
- Chorebus (Stiphrocera) ninella** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Agromyza hendeli* Griff. and *Cerodontha calamagrostidis* Nowak. (Agromyzidae). Russia: **EP** (NW, C, E), **UR**, **FE** (PR, SA). – Europe (WE, NE, EE), Azerbaijan, Korean Peninsula.
- Chorebus (Stiphrocera) nobilis** Griffiths, 1968. Endoparasitoid of *Cerodontha eucaricis* Nowak. (Agromyzidae). Russia: **FE** (PR). – Europe (WE, EE).
- Chorebus (Stiphrocera) notus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) omolonicus** Tobias, 1998. Russia: **FE** (CH).
- Chorebus (Stiphrocera) orientalis** Tobias, 1998. Russia: **ES** (IR, BR), **FE** (KH, PR, SA, KU).
- Chorebus (Stiphrocera) oritias** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Phytomyza picridocecis* Hering (Agromyzidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE).
- Chorebus (Stiphrocera) ovalis** (Marshall, 1896) [Dacnusa]. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **EP** (NW, C, E), **UR**, **ES** (IR), **FE** (KH, PR, KU, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Korean Peninsula.
- Chorebus (Stiphrocera) pachysemoides** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) paracredne** Tobias, 1998. Russia: **FE** (SA).
- Chorebus (Stiphrocera) pelion** (Nixon, 1944) [Dacnusa]. Russia: **FE** (KA). – Europe (WE, NE, EE).
- Chorebus (Stiphrocera) pallax** Tobias, 1998. Russia: **FE** (SA).
- Chorebus (Stiphrocera) percussor** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) peremptor** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- Chorebus (Stiphrocera) perkinsi** (Nixon, 1944) [Dacnusa]. Endoparasitoid of *Agromyza albitarsis* Mg. (Agromyzidae). Russia: **EP** (NW, C, E), **UR**, **FE** (PR, KU). – Europe (WE, NE, EE), Azerbaijan, Turkey.
- Chorebus (Stiphrocera) phaedra** (Nixon, 1937) [Dacnusa]. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Azerbaijan.
- Chorebus (Stiphrocera) pinguis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) pione** (Nixon, 1944) [Dacnusa]. Endoparasitoid of *Agromyza albitarsis* Mg. (Agromyzidae). Russia: **FE** (PR). – Europe (WE, NE, EE).
- Chorebus (Stiphrocera) plumbeus** Tobias, 1998. Russia: **FE** (MG).
- Chorebus (Stiphrocera) polygoni** Griffiths, 1967. Endoparasitoid of *Agromyza polygoni* Hering and *A. nigrescens* Hendel (Agromyzidae). Russia: **FE** (PR). – Azerbaijan.
- Chorebus (Stiphrocera) prosper** (Nixon, 1945) [Dacnusa]. Russia: **EP** (NC), **FE** (PR). – Europe (NE, SE, EE).
- Chorebus (Stiphrocera) pseudomisellus** Griffiths, 1968. Endoparasitoid of *Liriomyza congesta* Becker (Agromyzidae). Russia: **EP** (NW), **FE** (PR, KA). – Europe (WE, SE, EE), Uzbekistan, Korean Peninsula.
- Chorebus (Stiphrocera) resus** (Nixon, 1937) [Dacnusa]. Endoparasitoid of *Phytomyza melana* Hendel (Agromyzidae). Russia: **EP** (NW), **ES** (ZB), **FE** (KH, PR). – Europe (WE, NE, EE), Korean Peninsula.
- Chorebus (Stiphrocera) rotundifossa** Tobias, 1998. Russia: **ES** (IR).
- Chorebus (Stiphrocera) rotundiventris** (Thomson, 1895) [Dacnusa]. Endoparasitoid of *Agromyza alumulata* Hendel (Agromyzidae). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE).
- Chorebus (Stiphrocera) rubicundulus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) rufiventris** Tobias, 1998. Russia: **FE** (PR). – Mongolia.
- Chorebus (Stiphrocera) rugipleuris** Tobias, 1998. Russia: **FE** (SA).
- Chorebus (Stiphrocera) sakhalinensis** Tobias, 1998. Russia: **FE** (SA). – Korean Peninsula.
- Chorebus (Stiphrocera) seimchanicus** Tobias, 1998. Russia: **FE** (MG).
- Chorebus (Stiphrocera) semifumosus** Tobias, 1998. Russia: **FE** (PR).

- Chorebus (Stiphrocera) singularis** (Tobias, 1962) [Dacnusa]. Russia: **EP** (NW), **FE** (KU, KA). – Europe (SE, EE), Mongolia.
- Chorebus (Stiphrocera) sinuosus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) spenceri** Griffiths, 1964. Endoparasitoid of *Agromyza phragmitidis* Hendel (Agromyzidae). Russia: **EP** (NW). – Europe (WE, EE), Iran, Korean Peninsula.
- Chorebus (Stiphrocera) sphaeroides** Tobias, 1998. Russia: **FE** (KU).
- Chorebus (Stiphrocera) stolyarovi** Perepechaenko, 2008. Russia: **EP** (S). – Europe (EE).
- Chorebus (Stiphrocera) subampliator** Tobias, 1998. Russia: **ES** (ZB), **FE** (SA). – Mongolia.
- Chorebus (Stiphrocera) subauctus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) subexpansus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) subsativi** Tobias, 1998. Russia: **FE** (SA, KA).
- Chorebus (Stiphrocera) sulciferus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) terebrator** Tobias, 1998. Russia: **FE** (SA).
- Chorebus (Stiphrocera) thecla** (Nixon, 1943) [Dacnusa]. Endoparasitoid of *Liriomyza* sp. and *Phytomyza lithospermi* Nowak. (Agromyzidae). Russia: **UR**. – Europe (WE, EE), Israel.
- Chorebus (Stiphrocera) thisbe** (Nixon, 1937) [Dacnusa]. Endoparasitoid of *Agromyza nigriciliata* Hendel (Agromyzidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, EE), Korean Peninsula.
- Chorebus (Stiphrocera) tridens** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) trilobomyzae** Griffiths, 1968. Endoparasitoid of *Amauromyza* species (Agromyzidae). Russia: **FE** (PR). – Europe (WE, NE, EE), Mongolia.
- Chorebus (Stiphrocera) tshukoticus** Tobias, 1998. Russia: **FE** (CH).
- Chorebus (Stiphrocera) uma** (Nixon, 1944) [Dacnusa]. Russia: **EP** (NW, NC), **ES** (BR), **FE** (KH, PR, SA, KA). – Europe (WE, NE, EE), Azerbaijan.
- Chorebus (Stiphrocera) uralicus** Tobias, 1986. Russia: **UR**.
- Chorebus (Stiphrocera) ussuricus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) ussuriensis** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) uzon** Tobias, 1998. Russia: **FE** (PR, KA).
- Chorebus (Stiphrocera) varuna** (Nixon, 1945) [Dacnusa]. Endoparasitoid of *Metopomyza flavonotata* Hal. (Agromyzidae). Russia: **EP** (C), **FE** (KH, PR, KA). – Europe (WE, NE, EE), Azerbaijan, Turkey, Kazakhstan.
- Chorebus (Stiphrocera) venustulus** Tobias, 1998. Russia: **FE** (PR).
- Chorebus (Stiphrocera) venustus** (Tobias, 1962) [Dacnusa]. Endoparasitoid of *Liriomyza sonchi* Hendel and *L. soror* Hendel (Agromyzidae). Russia: **EP** (NW, C), **FE** (KU). – Europe (WE, SE, EE), Azerbaijan, Iran.
- Chorebus (Stiphrocera) veratri** Griffiths, 1968. Endoparasitoid of *Liriomyza wachtli* Hendel (Agromyzidae). Russia: **FE** (PR, KA). – Europe (WE, EE), Korean Peninsula.
- Chorebus (Stiphrocera) xanthospidae** Griffiths, 1968. Endoparasitoid of *Metopomyza xanthospida* Hendel (Agromyzidae). Russia: **ES** (IR), **FE** (PR, SA). – Europe (WE, EE), Mongolia.
- Chorebus (Stiphrocera) xanthotegula** Tobias, 1998. Russia: **FE** (SA, KU).
- Chorebus (Stiphrocera) xylostellus** Griffiths, 1967. Endoparasitoid of *Chromatomyia periclymeni* Meijere and *Liriomyza vitrimentula* Sasakawa (Agromyzidae). Russia: **FE** (PR). – Europe (WE, NE, EE), Korean Peninsula.
- COELINIASPIS** Fischer, 2010. Type species: *Coeliniaspis kohlkongensis* Fischer, 2010. Small Asiatic genus, originally monotypic (Fischer, 2010), but two Eastern Palaearctic species were recently transferred in this genus from *Sarops* Nixon (Zheng et al., 2017b). Number of species: World – 3, Palaearctic and Russia – 2.
- Coeliniaspis insularis** (Tobias, 1998) [Coelinus]. Russia: **FE** (SA, KU). – China (SE).
- Coeliniaspis rufiventris** (Tobias, 1998) [Coelinus]. Russia: **FE** (PR).
- COELINIDEA** Viereck, 1913 (*Lepton* Zetterstedt, 1838, nom. praeocc., nec Turton, 1822; *Ericoelinus* Viereck, 1913; *Fischerastriolus* Perepechaenko, 1999). Type species: *Stephanus niger* Nees, 1811. Medium-sized genus distributed basically in Holarctic, endoparasitoids of flies mainly from the families Agromyzidae and Chloropidae. Sometimes it was considered as a subgenus of *Coelinus* Nees, 1819 (Belokobylskij et al., 1998). Number of species: World – 35, Palaearctic – 21, Russia – 14.
- Coelinidea arctous** (Astafurova, 1998) [Coelinus]. Russia: **FE** (MG).
- Coelinidea atrans** (Astafurova, 1998) [Coelinus]. Russia: **FE** (PR).
- Coelinidea discolor** (Astafurova, 1998) [Coelinus]. Russia: **FE** (PR).
- Coelinidea elegans** (Haliday, 1829) [Chaenon] (*Chaenon brevicornis* Curtis, 1829; *Ch. cingulatus* Curtis, 1829; *Ch. rufinotatus* Curtis, 1829; *Ch. similis* Curtis, 1829). Endoparasitoid of *Lipara lucens* Mg. (Chloropidae). Russia: **EP** (NW, C, E), **UR**, **WS** (TM), **ES** (ZB), **FE** (SA, KU, KA). – Europe (WE, SE, EE), Azerbaijan, Turkey, Mongolia, Korean Peninsula.
- Coelinidea gracilis** (Curtis, 1829) [Chaenon] (*Lepton attenuator* Zetterstedt, 1838). Russia: **EP** (NW, C), **UR**, **WS** (TM),

- FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Iran, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Coelinidea nigra** (Nees, 1811) [Stephanus] (*Alysia olivieri* Curtis, 1829; *Chaenon nigricans* Westwood, 1835; *Ch. affinis* Curtis, 1829). Endoparasitoid of flies from the family Chloropidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **ES** (IR, BR, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Azerbaijan, Uzbekistan, Mongolia.
- Coelinidea pusilla** (Astafurova, 1998) [Coelinus]. Russia: **FE** (PR). – Europe (EE), Korean Peninsula.
- Coelinidea rufa** (Astafurova, 1998) [Coelinus]. Russia: **FE** (PR). – Europe (EE).
- Coelinidea ruficollis** (Herrich-Schäffer, 1838) [Coelinus] (*Alysia procera* Haliday, 1839). Russia: **EP** (NW, C), **UR**, **ES** (BR), **FE** (PR). – Europe (WE, SE, EE), Uzbekistan, Mongolia, Korean Peninsula.
- Coelinidea semirufa** Fischer, 1957. Russia: **EP** (C), **WS** (AL), **ES** (ZB). – Europe (WE, EE), Kyrgyzstan, Mongolia.
- Coelinidea solaris** (Astafurova, 1998) [Coelinus]. Russia: **FE** (PR).
- Coelinidea tenuis** (Astafurova, 1998) [Coelinus]. Russia: **FE** (PR).
- Coelinidea trjapitzini** Tobias, 1971. Russia: **EP** (NW).
- Coelinidea vidua** (Curtis, 1829) [Chaenon]. Endoparasitoid of flies from the family Chloropidae. Russia: **EP** (NW, C, S). – Europe (WE, NE, SE, EE), Mongolia.
- COELINIUS** Nees, 1819 (*Chaenon* Curtis, 1829; *Copisura* Schiødte, 1837; *Copidura* Foerster, 1863). Type species: *Stephanus parvulus* Nees, 1811. Medium-sized genus distributed in several zoogeographical regions, but most common in the Nearctic. Endoparasitoids of flies from the families Agromyzidae, Chloropidae and Ephydriidae. Number of species: World – 44, Palaearctic – 8, Russia – 3.
- Coelinus opertus** Astafurova, 1998. Russia: **FE** (PR).
- Coelinus parvulus** (Nees, 1811) [Stephanus] (*Ichneumon circulator* Gravenhorst, 1807; *Chaenon anceps* Curtis, 1829; *Copisura rimator* Schiødte, 1837; *Coelinus bicarinatus* Herrich-Schäffer, 1838; *C. flexuosus* Herrich-Schäffer, 1838; *C. bicolor* Maréchal, 1938). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.
- Coelinus venustus** Marshall, 1898. Russia: **EP** (NW, E), **WS** (AL), **FE** (PR). – Europe (WE, EE).
- COLONEURA** Foerster, 1863 (*Isomerista* Foerster, 1863; *Trisisa* Foerster, 1863; *Merites* Nixon, 1943; *Priapsis* Nixon, 1943). Type species: *Coloneura stylata* Foerster, 1863. Relatively small Palaearctic genus, endoparasitoids of flies from the family Agromyzidae. Number of species: World and Palaearctic – 15, Russia – 5.
- Coloneura dice** (Nixon, 1943) [Priapsis]. Endoparasitoid of *Liriomyza balcanica* Strobl, *Phytomyza angelicivora* Hering and *Ph. silai* Hering (Agromyzidae). Russia: **UR**, **FE** (KH, PR). – Europe (WE, SE, EE), Azerbaijan.
- Coloneura moskovita** Tobias, 1986. Russia: **EP** (C). – Europe (EE).
- Coloneura punctulata** Tobias, 1998. Russia: **FE** (CH).
- Coloneura radialis** Tobias, 1998. Russia: **FE** (PR). – Kazakhstan.
- Coloneura trjapitzini** Tobias, 1998. Russia: **FE** (PR).
- DACNUSA** Haliday, 1833 (*Agonia* Foerster, 1863; *Aphanta* Foerster, 1863; *Brachystropha* Foerster, 1863; *Liposcia* Foerster, 1863; *Pachysema* Foerster, 1863; *Rhizarcha* Foerster, 1863; *Tanystropha* Foerster, 1863; *Radiolaria* Provancher, 1886). Type species: *Bracon areolaris* Nees, 1811. Large and worldwide distributed genus, most species are known from the Holarctic region. Four subgenera are known in this genus, *Agonia*, *Aphanta*, *Dacnusa* s. str. and *Pachysema*. Number of species: World – about 160, Palaearctic – about 150, Russia – 94.
- Dacnusa (Agonia) adducta** (Haliday, 1839) [Alysia]. Endoparasitoid of *Cerodontha pygmaea* Mg. and *Liriomyza flaveola* Fll. (Agromyzidae). Russia: **EP** (NW, C), **UR**, **WS** (TM), **FE** (AM, PR, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Korean Peninsula.
- Dacnusa (Aphanta) sasakawai** Takada, 1977 (*Dacnusa distracta* Tobias, 1986). Endoparasitoid of *Chromatomyia horticola* Gour. and *Liriomyza bryoniae* Kalt. (Agromyzidae). Russia: **EP** (C), **FE** (PR). – Iran, Tajikistan, Mongolia, Korean Peninsula, Japan.
- Dacnusa (Dacnusa) areolaris** (Nees, 1811) [Bracon] (*Dacnusa lysias* Goureau, 1851). Endoparasitoid of flies mainly from the families Agromyzidae and Chloropidae. Russia: **EP** (NW, C), **FE** (KA). – Europe (WE, NE, SE, EE), Azerbaijan, Uzbekistan, Korean Peninsula, New Zealand.
- Dacnusa (Dacnusa) arephini** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Dacnusa) aspilotoides** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Dacnusa) astarte** (Nixon, 1948) [Rhizarcha]. Russia: **FE** (PR, SA, KA). – Europe (WE, EE).
- Dacnusa (Dacnusa) brevis** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Dacnusa) brevistigma** (Tobias, 1962) [Pachysema]. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **EP** (NW), **FE** (PR). – Europe (WE, SE, EE).
- Dacnusa (Dacnusa) brevitarsis** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Dacnusa) cerperes** (Nixon, 1948) [Rhizarcha]. Endoparasitoid of *Phytomyza rostrata* Hering (Agromyzidae). Russia: **EP** (NW, C, E). – Europe (WE, NE, SE, EE).
- Dacnusa (Dacnusa) cingulator** (Nees, 1834) [Alysia] (*Dacnusa cingulatrix* Schulz, 1906). Russia: **EP** (NW). – Europe (WE, NE, EE), Azerbaijan.
- Dacnusa (Dacnusa) dryas** (Nixon, 1948) [Rhizarcha]. Endoparasitoid of *Agromyza frontella* Rd. and *Liriomyza*

- trifoliarum* Spencer (Agromyzidae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula, N America (introduced).
- Dacnusa (Dacnusa) faeroeensis** (Roman, 1917) [Rhizarcha] (*Dacnusa lestes* Nixon, 1937). Endoparasitoid of *Scaptomyza graminum* Fll. (Drosophilidae). Russia: **EP** (NW, C, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Kazakhstan.
- Dacnusa (Dacnusa) jakovlevi** Tobias, 1986. Russia: **EP** (C). – Europe (EE).
- Dacnusa (Dacnusa) jakutica** Tobias, 1998. Russia: **ES** (YA).
- Dacnusa (Dacnusa) konovalovae** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Dacnusa) laevipectus** Thomson, 1895 (*Rhizarcha nox* Morley, 1924). Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (N, NW, C, NC), **UR**, **ES** (IR). – Europe (WE, NE, SE, EE), Azerbaijan, China (NC).
- Dacnusa (Dacnusa) leleji** Tobias, 1998. Russia: **FE** (KU).
- Dacnusa (Dacnusa) longithorax** (Tobias, 1962) [Rhizarcha]. Russia: **EP** (NW). – Europe (EE).
- Dacnusa (Dacnusa) lugens** (Haliday, 1839) [Alysia]. Russia: **EP** (N). – Europe (WE, NE, SE, EE), Mongolia.
- Dacnusa (Dacnusa) maculipes** Thomson, 1895. Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW, C), **UR**, **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia, Korean Peninsula, Japan.
- Dacnusa (Dacnusa) ocyroe** Nixon, 1937. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **EP** (NW, NC), **UR**. – Europe (WE, EE).
- Dacnusa (Dacnusa) omolonica** Tobias, 1998. Russia: **FE** (CH).
- Dacnusa (Dacnusa) plantaginis** Griffiths, 1967. Endoparasitoid of *Chromatomyia* and *Phytomyza* species (Agromyzidae). Russia: **EP** (NW, E, NC), **FE** (KU). – Europe (WE, NE, SE, EE).
- Dacnusa (Dacnusa) pseudolugens** Tobias, 1998. Russia: **ES** (YA), **FE** (PR, MG). – Korean Peninsula.
- Dacnusa (Dacnusa) pubescens** (Curtis, 1826) [Alysia] (*Alysia exserens* Nees, 1834). Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (N, NW, C, E, NC), **FE** (KU). – Europe (WE, NE, SE, EE), Azerbaijan, Iran.
- Dacnusa (Dacnusa) storozhevae** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Dacnusa) stramineipes** (Haliday, 1839) [Alysia] (*Tanystropha haemorrhoea* Foerster, 1863; *Dacnusa longicauda* Thomson, 1895). Endoparasitoid of *Delia radicum* L. (Anthomyiidae), *Phytomyza buhriella* Spencer and *Ph. rufipes* Mg. (Agromyzidae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia.
- Dacnusa (Dacnusa) sulcata** (Tobias, 1962) [Pachysema]. Endoparasitoid of *Phytomyza calthivora* Hendel and *Ph. calthophila* Hering (Agromyzidae). Russia: **EP** (NW). – Europe (WE), Mongolia.
- Dacnusa (Dacnusa) temula** (Haliday, 1839) [Alysia]. Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW, C), **FE** (KU). – Europe (WE, NE, SE, EE).
- Dacnusa (Pachysema) abdita** (Haliday, 1839) [Alysia] (*Dacnusa incidens* Thomson, 1895; *D. lepida* Marshall, 1896). Endoparasitoid of *Agromyza* species (Agromyzidae). Russia: **EP** (NW), **UR**. – Europe (WE, NE, SE, EE), Iran, Mongolia.
- Dacnusa (Pachysema) abditiva** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) abstrusa** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) alpestris** Griffiths, 1967. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **FE** (KA). – Europe (WE, SE, EE), Iran.
- Dacnusa (Pachysema) angelicina** Griffiths, 1967. Russia: **EP** (NW), **FE** (SA). – Europe (WE, NE, EE), Mongolia.
- Dacnusa (Pachysema) aquilegiae** Marshall, 1896. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **ES** (BR), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula.
- Dacnusa (Pachysema) arkadii** Tobias, 1997. Russia: **FE** (KU).
- Dacnusa (Pachysema) aterrima** Thomson, 1895. Russia: **FE** (SA, KA). – Europe (WE, NE, EE), Azerbaijan, Iran, Mongolia.
- Dacnusa (Pachysema) atra** Tobias, 1998. Russia: **FE** (PR). – Mongolia.
- Dacnusa (Pachysema) austriaca** (Fischer, 1961) [Pachysema]. Endoparasitoid of *Liriomyza* species (Agromyzidae). Russia: **EP** (C), **UR**, **FE** (PR, CH). – Europe (WE, NE, EE), Korean Peninsula.
- Dacnusa (Pachysema) barkalovi** Tobias, 1998. Russia: **FE** (MG).
- Dacnusa (Pachysema) basirufa** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- Dacnusa (Pachysema) belokobylskii** Tobias, 1998. Russia: **FE** (SA, KA).
- Dacnusa (Pachysema) centaureae** Griffiths, 1967. Endoparasitoid of *Phytomyza montana* Groschke (Agromyzidae). Russia: **EP** (C, E, NC), **FE** (PR). – Europe (WE).
- Dacnusa (Pachysema) cisbaikalica** Tobias, 1998. Russia: **ES** (IR).
- Dacnusa (Pachysema) cismelicerta** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) discolor** (Foerster, 1863) [Liposcia] (*Pachysema cercides* Nixon, 1954). Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW, E), **UR**. – Europe (WE, NE, SE, EE), Azerbaijan.
- Dacnusa (Pachysema) ergeteles** (Nixon, 1954) [Pachysema]. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **FE** (PR). – Europe (WE, NE, EE), Azerbaijan.
- Dacnusa (Pachysema) erythrosoma** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) evadne** Nixon, 1937. Endoparasitoid of *Agromyza potentillae* Kalt. (Agromyzidae). Russia:

- EP** (N, NW), **UR**, **ES** (ZB). – Europe (WE, NE, EE), Azerbaijan, Turkey, Iran.
- Dacnusa (Pachysema) fasciola** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) fastosa** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) filatica** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) flaviventris** Tobias, 1998. Russia: **FE** (PR, CH).
- Dacnusa (Pachysema) fraterna** Tobias, 1997. Russia: **FE** (PR).
- Dacnusa (Pachysema) fumicoxa** Tobias, 1998. Russia: **FE** (KU).
- Dacnusa (Pachysema) kasparyani** Tobias, 1998. Russia: **ES** (IR).
- Dacnusa (Pachysema) kerzhneri** Tobias, 1998. Russia: **FE** (KA).
- Dacnusa (Pachysema) kurilensis** Tobias, 1997. Russia: **FE** (KU).
- Dacnusa (Pachysema) laesa** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) latisternaulica** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) leucotegula** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) liopleuris** Thomson, 1895. Endoparasitoid of *Amauromyza gyrans* Fll. and *Liriomyza scorzonerae* Rydén (Agromyzidae). Russia: **EP** (NW), **FE** (KH, PR, SA, KA). – Europe (WE, NE, EE).
- Dacnusa (Pachysema) lissos** (Nixon, 1954) [Pachysema]. Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW, NC), **FE** (KH, PR). – Europe (WE, NE, EE).
- Dacnusa (Pachysema) lithospermi** Griffiths, 1967. Endoparasitoid of *Phytomyza lithospermi* Nowak. (Agromyzidae). Russia: **FE** (KH, PR). – Europe (WE, EE).
- Dacnusa (Pachysema) macrosoma** Tobias, 1998. Russia: **ES** (IR).
- Dacnusa (Pachysema) macrospila** (Haliday, 1839) [Alysia]. Endoparasitoid of *Phytomyza ranunculi* Schrank (Agromyzidae). Russia: **EP** (NW, NC), **ES** (IR). – Europe (WE, NE, EE), Mongolia.
- Dacnusa (Pachysema) marshakovi** Tobias, 1998. Russia: **FE** (MG).
- Dacnusa (Pachysema) maxima** (Fischer, 1961) [Pachysema]. Endoparasitoid of *Agromyza abiens* Z. (Agromyzidae). Russia: **UR**. – Europe (WE, EE), Azerbaijan.
- Dacnusa (Pachysema) megastigma** Tobias, 1998. Russia: **ES** (IR), **FE** (PR). – Mongolia.
- Dacnusa (Pachysema) melicerta fumipes** Tobias, 1998. Russia: **FE** (CH).
- Dacnusa (Pachysema) melicerta melicerta** (Nixon, 1954) [Pachysema]. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **EP** (NW), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia.
- Dacnusa (Pachysema) metula** (Nixon, 1954) [Pachysema]. Endoparasitoid of flies from the family Agromyzidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia.
- Dacnusa (Pachysema) moniliata** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) nigricoxa** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) nigrifemur** Tobias, 1998. Russia: **FE** (CH).
- Dacnusa (Pachysema) nigropygmaea** Stelfox, 1954. Endoparasitoid of *Phytomyza affinis* Fll. (Agromyzidae). Russia: **EP** (NW), **UR**, **FE** (MG). – Europe (WE, EE), Azerbaijan, Uzbekistan, Mongolia.
- Dacnusa (Pachysema) obesa** Stelfox, 1954. Endoparasitoid of *Liriomyza virgo* Z. (Agromyzidae). Russia: **FE** (PR). – Europe (WE, EE), Uzbekistan.
- Dacnusa (Pachysema) paramushirica** Tobias, 1997. Russia: **FE** (KU).
- Dacnusa (Pachysema) paucicula** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- Dacnusa (Pachysema) rufa** Tobias, 1998. Russia: **FE** (KH, PR).
- Dacnusa (Pachysema) sergia** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) sibirica** Telenga, 1935 (*Pachysema comis* Nixon, 1954). Endoparasitoid of many species of flies from the family Agromyzidae. Russia: **EP** (C, E, S), **WS** (NS), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Iran, Uzbekistan, Mongolia, China (NW), Korean Peninsula, Vietnam.
- Dacnusa (Pachysema) soldanellae** Griffiths, 1967. Endoparasitoid of *Phytomyza soldanellae* Griff. (Agromyzidae). Russia: **FE** (PR). – Europe (WE, EE).
- Dacnusa (Pachysema) splendida** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) stenoradialis** Tobias, 1998. Russia: **FE** (KH, PR).
- Dacnusa (Pachysema) subfasciata** Tobias, 1998. Russia: **FE** (KH, PR).
- Dacnusa (Pachysema) sublaeta** Tobias, 1998. Russia: **ES** (BR), **FE** (PR, KU). – Korean Peninsula.
- Dacnusa (Pachysema) sublonicerella** Tobias, 1998. Russia: **FE** (KH, PR).
- Dacnusa (Pachysema) subnigrella** Tobias, 1986. Russia: **UR**.
- Dacnusa (Pachysema) sulcifera** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) sulcipleuris** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- Dacnusa (Pachysema) sylvatica** Tobias, 1998. Russia: **FE** (KH, PR, KU).
- Dacnusa (Pachysema) temuloides** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) terminalis** (Tobias, 1962) [Pachysema]. Russia: **EP** (NW).
- Dacnusa (Pachysema) tricolor** Tobias, 1998. Russia: **FE** (PR). – Mongolia.

- Dacnusa (Pachysema) trisulcata** Tobias, 1998. Russia: **ES** (IR).
- Dacnusa (Pachysema) umbelliferae** Tobias, 1998. Russia: **ES** (IR).
- Dacnusa (Pachysema) ussuriensis** Tobias, 1998. Russia: **FE** (PR).
- Dacnusa (Pachysema) veronicae** Griffiths, 1967. Endoparasitoid of *Phytomyza crassiseti* Z. (Agromyzidae). Russia: **EP** (E). – Europe (WE, EE), Armenia.
- Dacnusa (Pachysema) zek** Tobias, 1998. Russia: **FE** (CH).
- Dacnusa (Pachysema) zlobini** Tobias, 1998. Endoparasitoid of *Phytomyza plantaginis* Goureau (Agromyzidae). Russia: **FE** (PR).
- EPIMICTA** Foerster, 1863. Type species: *Alysia marginalis* Haliday, 1839. Small Holarctic genus. Number of species: World – 5, Palaearctic – 3, Russia – 2.
- Epimicta longicaudalis** Tobias, 1998. Russia: **FE** (KH, PR).
- Epimicta marginalis** (Haliday, 1839) [Alysia]. Endoparasitoid of *Phytobia carbonaria* Z. (Agromyzidae). Russia: **EP** (C, S), **FE** (PR). – Europe (WE, NE, EE).
- EUCOELINIDEA** Tobias, 1979 (*Neopolemon* Perepechenko, 1999). Type species: *Eucoelinidea compressa* Tobias, 1979. Small Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.
- Eucoelinidea breviventris** (Telenga, 1935) [Coelinus]. Russia: **EP** (NC). – Europe (EE), Azerbaijan.
- EXOTELA** Foerster, 1863 (*Toxalea* Nixon, 1943). Type species: *Exotela cyclogaster* Foerster, 1863. Medium-sized and exclusively Palaearctic genus of the parasitoids of flies from the family Agromyzidae. Number of species: World and Palaearctic – 27, Russia – 19.
- Exotela adjuncta** Tobias, 1998. Russia: **FE** (PR, SA).
- Exotela cyclogaster** Foerster, 1863 (*Dacnusa bellina* Nixon, 1937). Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **EP** (NW, C), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, SE, EE), Azerbaijan, Korean Peninsula.
- Exotela dives** (Nixon, 1954) [Toxalea]. Endoparasitoid of *Agromyza viciae* Kalt. (Agromyzidae). Russia: **EP** (NW, C). – Europe (WE, NE, EE), Uzbekistan.
- Exotela facialis** (Thomson, 1895) [Dacnusa]. Russia: **FE** (PR). – Europe (NE), Korean Peninsula.
- Exotela flavigaster** Tobias, 1998. Russia: **FE** (PR).
- Exotela gilvipes** (Haliday, 1839) [Alysia] (*Dacnusa albilaris* Thomson, 1895). Endoparasitoid of *Chromatomyia mili* Kalt. and *Phytomyza ranunculi* Schrank (Agromyzidae). Russia: **EP** (NW, C), **FE** (KA). – Europe (WE, NE, SE, EE), Azerbaijan.
- Exotela hera** (Nixon, 1937) [Dacnusa]. Endoparasitoid of *Agromyza* species (Agromyzidae). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia.
- Exotela junio** Tobias, 1998. Russia: **FE** (PR).
- Exotela lonicerae** Griffiths, 1967. Endoparasitoid of *Aulagromyza hendeliana* Hering (Agromyzidae). Russia: **FE** (KH, PR, KA). – Europe (WE, EE), Mongolia, Korean Peninsula.
- Exotela minuscularia** Tobias, 1998. Russia: **FE** (KA).
- Exotela nowakowskii** Griffiths, 1967. Endoparasitoid of *Agromyza phragmitidis* Hendel and *A. potentillae* Kalt. (Agromyzidae). Russia: **FE** (PR, SA). – Europe (WE, EE).
- Exotela obscura** Griffiths, 1967. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **EP** (NW), **ES** (IR, BR), **FE** (PR). – Europe (WE, EE), Mongolia, Korean Peninsula.
- Exotela parallela** Tobias, 1998. Russia: **FE** (PR).
- Exotela phryne** (Nixon, 1954) [Toxalea]. Endoparasitoid of *Agromyza alnibetulae* Hendel (Agromyzidae). Russia: **EP** (NW), **FE** (PR, KA). – Europe (WE, EE).
- Exotela pseudoobscura** Tobias, 1998. Russia: **ES** (IR, BR), **FE** (PR).
- Exotela sonchina** Griffiths, 1967. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **ES** (IR, BR), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula.
- Exotela spinifer** (Nixon, 1954) [Toxalea]. Endoparasitoid of *Chromatomyia* and *Phytomyza* species (Agromyzidae). Russia: **EP** (NW, C, NC). – Europe (WE, NE, EE).
- Exotela umbellina** (Nixon, 1954) [Toxalea]. Endoparasitoid of *Phytomyza* species (Agromyzidae). Russia: **EP** (NW, C, E), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Turkey.
- Exotela urupica** Tobias, 1998. Russia: **FE** (KU).
- Exotela versicolor** Tobias, 1998. Russia: **FE** (PR, SA).
- LAOTRIS** Nixon, 1943. Type species: *Alysia striatula* Haliday, 1839. Small Palaearctic genus; parasitoids of Agromyzidae. Number of species: World and Palaearctic – 3, Russia – 1.
- Laotris minuscularia** Tobias, 1998. Russia: **FE** (PR).
- LODBROKIA** Hedqvist, 1962. Type species: *Lodbrokia hirta* Hedqvist, 1962. Small apterous genus with unknown biology distributed only in the Western Palaearctic. Number of species: World and Palaearctic – 3, Russia – 1.
- Lodbrokia uralica** Belokobyl'skij et Kostromina, 2011. Russia: **UR**.
- ORIENTELIX** Tobias, 1998. Type species: *Orientelix marginalis* Tobias, 1998. Monotypic Eastern Palaearctic genus.
- Orientelix marginalis** Tobias, 1998. Russia: **FE** (PR). – Korean Peninsula.
- PARASYMPHYA** Tobias, 1998. Type species: *Parasymphya dentata* Tobias, 1998. Monotypic Eastern Palaearctic genus.
- Parasymphya dentata** Tobias, 1998. Russia: **FE** (KH, PR, KU). – Korean Peninsula.

POLEMOCHARTUS Schulz, 1911 (*Polemon* Giraud, 1863). Type species: *Polemon liparae* Giraud, 1863. Relatively small Palaearctic genus, parasitoids of flies from the family Chloropidae. Sometimes it was considered only as a subgenus of *Coelinus* Nees, 1819 (Belokobyl'skij et al., 1998). Number of species: World and Palaearctic – 6, Russia – 3.

Polemochartus liparae (Giraud, 1863) [Polemon]. Endoparasitoid of *Lipara lucens* Mg. and *L. similis* Schiner (Chloropidae). Russia: **EP** (S, NC, CR), **FE** (KU). – Europe (WE, NE, SE, EE), Azerbaijan, Iran, Tajikistan, Mongolia.

Polemochartus melas (Giraud, 1863) [Polemon]. Endoparasitoid of *Lipara* species (Chloropidae). Russia: **EP** (S), **FE** (PR, KU). – Europe (WE, SE, EE), Azerbaijan, Korean Peninsula, Japan.

Polemochartus nipponensis Maeto, 1983. Endoparasitoid of *Lipara japonica* Kanmiya (Chloropidae). Russia: **FE** (PR, KU). – Japan.

PROANTRUSA Tobias, 1998. Type species: *Proantrusa kasparyani* Tobias, 1998. Monotypic Eastern Palaearctic genus.

Proantrusa kasparyani Tobias, 1998. Russia: **FE** (KU).

PROTOCHOREBUS Perepechaenko, 1997. Type species: *Protochorebus kasparyani* Perepechaenko, 1997. Small Palaearctic species. Number of species: World, Palaearctic and Russia – 2.

Protochorebus kasparyani Perepechaenko, 1997. Russia: **ES** (ZB). – Europe (EE), Mongolia.

Protochorebus pervushini Kostromina, Timokhov et Belokobyl'skij, 2016. Endoparasitoid of *Selachops flavocinctus* Wahlberg (Agromyzidae). Russia: **UR**.

PROTODACNUSA Griffiths, 1964. Type species: *Alysia tristis* Nees, 1834. Relatively small genus recorded in the Palaearctic and Oriental regions. Parasitoids of flies from the families Agromyzidae and Chloropidae. Number of species: World – 18, Palaearctic – 17, Russia – 6.

Protodacnusa amurensis (Telenga, 1935) [Dacnusa]. Russia: **FE** (AM). – Mongolia.

Protodacnusa aridula (Thomson, 1895) [Dacnusa] (*Antrusa miser* Nixon, 1954). Parasitoid of *Agromyza nigrella* Rd. (Agromyzidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Iran, Mongolia, Korean Peninsula.

Protodacnusa litoralis Griffiths, 1964. Russia: **EP** (C), **UR**. – Europe (WE, SE, EE), Azerbaijan, Iran, Korean Peninsula.

Protodacnusa orientalis Tobias, 1998. Russia: **FE** (PR).

Protodacnusa ruthei Griffiths, 1964. Russia: **EP** (C). – Europe (WE, EE), Azerbaijan, Turkey, Mongolia.

Protodacnusa tristis (Nees, 1834) [Alysia] (*Alysia ampliator* Haliday, 1839; *Dacnusa longistigma* Telenga, 1935). Parasitoid of flies from the families Agromyzidae and Chloropidae. Russia: **EP** (NW, C, E, NC), **UR**, **WS** (KM). – Europe

(WE, NE, SE, EE), Azerbaijan, Turkey, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan.

SAROPS Nixon, 1942. Type species: *Sarops rea* Nixon, 1942. Relatively small genus recorded in the Palaearctic, Oriental and Afrotropical regions. Parasitoids of flies from the family Chloropidae. Sometimes it was considered only as a subgenus of *Coelinus* Nees, 1819 (Belokobyl'skij et al., 1998). Number of species: World – 6, Palaearctic and Russia – 4.

Sarops lissus (Tobias, 1998) [Coelinus]. Russia: **FE** (KU).

Sarops popovi Tobias, 1962. Russia: **EP** (NW, C), **UR**, **FE** (PR, KU). – Europe (SE, EE), Azerbaijan, Mongolia, Korean Peninsula.

Sarops rea Nixon, 1942. Endoparasitoid of *Lipara rufitarsis* Lw. (Chloropidae). Russia: **FE** (PR). – Europe (WE, EE), Korean Peninsula, Japan.

Sarops rufulus (Tobias, 1998) [Coelinus]. Russia: **FE** (PR).

SYNELIX Foerster, 1863 (*Ectilis* Nixon, 1943). Type species: *Synelix agnata* Foerster, 1863 (= *Alysia semirugosa* Haliday, 1839). Small Palaearctic genus with two subgenera, *Synelix* s. str. and *Eusynelix* Tobias, 1986; parasitoids of flies from the family Scathophagidae. Sometimes it was considered only as a subgenus of *Coelinus* Nees, 1819 (Belokobyl'skij et al., 1998). Number of species: World and Palaearctic – 4, Russia – 3.

Synelix (Eusynelix) ghilarovi Tobias, 1986. Russia: **EP** (C).

Synelix (Synelix) rossica (Telenga, 1935) [Epimicta]. Russia: **EP** (C).

Synelix (Synelix) semirugosus (Haliday, 1839) [Alysia] (*Synelix agnata* Foerster, 1863; *Dacnusa amaurosomae* Telenga, 1935). Endoparasitoid of *Nanna armillata* Z. (Scathophagidae). Russia: **EP** (N, NW, C, NC), **FE** (KA). – Europe (WE, NE, EE), Kazakhstan, Mongolia, Korean Peninsula.

TATES Nixon, 1943. Type species: *Dacnusa heterocera* Thomson, 1895. Monotypic Palaearctic genus.

Tates heterocera (Thomson, 1895) [Dacnusa]. Russia: **EP** (C), **FE** (KH, PR, CH). – Europe (WE, NE, EE), Azerbaijan.

TEREBREBUS Tobias, 1999. Type species: *Terebrebus monstrosus* Tobias, 1999. Monotypic Western Palaearctic species.

Terebrebus monstrosus Tobias, 1999. Russia: **EP** (NW).

TRACHIONUS Haliday, 1833 (*Aenone* Curtis, 1837; *Aenone* Haliday, 1838; *Oenone* Haliday, 1839; *Symphya* Foerster, 1863; *Anarmus* Ruthe, 1882). Type species: *Sigalphus mandibularis* Nees, 1816. Medium-sized Holarctic genus with two subgenera, *Planiricus* Perepechaenko, 2000 and *Trachionus* s. str. Parasitoids of flies from the family Agromyzidae. Number of species: World – 17, Palaearctic – 7, Russia – 4.

Trachionus (Planiricus) hians (Nees, 1816) [Sigalphus]. Parasitoid of *Dizygomyza* sp. and *Phytobia cambii* Hendel (Agromyzidae). **EP** (N, NW, C), **ES** (IR), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, Mongolia, Korean Peninsula.

Trachionus (Planiricus) ringes (Haliday, 1839) [Alysia]. Parasitoid of *Dizygomyza* sp. and *Phytobia cambii* Hendel (Agromyzidae). **EP** (NW, C), **FE** (PR). – Europe (WE, NE, EE), Azerbaijan, Mongolia, Korean Peninsula.

Trachionus (Trachionus) mandibularis (Nees, 1816) [Sigalphus]. Parasitoid of *Dizygomyza* sp. and *Phytobia cerasiferae* Kangas (Agromyzidae). **EP** (NW), **ES** (IR), **FE** (KH, PR, KU). – Europe (WE, NE, EE), Turkey, Mongolia, Korean Peninsula, Japan.

Trachionus (Trachionus) microcephala (Tobias, 1970) [Symphyta]. Russia: **FE** (PR).

TRICHOCHOREBUS Tobias, 1971. Type species: *Trichochorebus piliventris* Tobias, 1971. Small Palaearctic genus. Number of species: World, Palaearctic and Russia – 4.

Trichochorebus caudiger Tobias, 1998. Russia: **FE** (PR, SA).

Trichochorebus mixtus Tobias, 1998. Russia: **FE** (PR).

Trichochorebus piliventris Tobias, 1971. Russia: **EP** (C), **WS** (TM), **ES** (IR, BR), **FE** (PR). – Kazakhstan.

Trichochorebus sulciscutis Tobias, 1998. Russia: **FE** (PR).

USSURDACNUSA Tobias, 1998. Type species: *Ussurdacnusa acuminata* Tobias, 1998. Monotypic Eastern Palaearctic genus.

Ussurdacnusa acuminata Tobias, 1998. Russia: **FE** (PR).

VICTOROVITA Tobias, 1985. Type species: *Victorovita genalis* Tobias, 1985. Small Palaearctic genus. Number of species: World and Palaearctic – 3, Russia – 2.

Victorovita caudata (Szépligeti, 1901) [Dacnusa]. Russia: **EP** (E). – Europe (EE).

Victorovita genalis Tobias, 1985. Russia: **EP** (C), **WS** (TM). – Europe (EE), Azerbaijan, Kazakhstan.

Subfamily BLACINAE

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Medium-sized and almost cosmopolitan subfamily with yet unstable taxonomical status and contents because sometimes it has been included as a tribe in the subfamily Euphorinae (Tobias et al., 1986a; Belokobylskij, Tobias, 2000) or Brachistinae (Sharonowski et al., 2011). According to Taxapad (Yu et al., 2016) Blacinae include five tribes and 14 genera, most of which occur in the tropical regions. The genus *Hellenius* Tobias, 1982 together with the tribe Dyscoletini are considered here in the subfamily Helconinae.

Number of taxa: World – 12 genera and more than 200 species, Palaearctic – 2/86, Russia – 2/44.

References. Haeselbarth, 1973; Tobias, 1976a; van Achterberg, 1976b, 1988a; Tobias et al., 1986a; Belokobylskij, 1995a, 2000a, 2019d; Belokobylskij, Tobias, 2000; Yu et al., 2016.

BLACOMETEORUS Tobias, 1976. Type species: *Blacometeorus intermedius* Tobias, 1976. Small and rare Palaearctic-Oriental genus; parasitoids of the beetle larvae from the families Cerambycidae and Curculionidae (Scolytinae). Number of species: World – 5, Palaearctic – 4, Russia – 1.

Blacometeorus brevicauda (Hellén, 1958) [Diospilus]. Endoparasitoid of *Scolytus scolytus* F. (Curculionidae: Scolytinae). Russia: **FE** (PR). – Europe (WE, NE, EE).

BLACUS Nees, 1819. Type species: *Bracon humilis* Nees, 1819. Large genus recorded in all zoogeographical regions, consists of ten subgenera. Endoparasitoids mainly of the coleopteran larvae from the families Anobiidae, Attelabidae, Cerambycidae, Cryptophagidae, Curculionidae, Melyridae, Nitidulidae, etc. Number of species: World – 200, Palaearctic – 75, Russia – 43.

Blacus (Blacus) alexandri Belokobylskij, 2000. Russia: **FE** (PR).

Blacus (Blacus) bovistae Haeselbarth, 1973. Russia: **EP** (NC, CR). – Europe (WE, SE, EE), Tunisia, Turkey, Iran.

Blacus (Blacus) compressus Belokobylskij, 2000. Russia: **FE** (PR).

Blacus (Blacus) coracinus Belokobylskij, 1995. Russia: **FE** (SA).

Blacus (Blacus) dadianshanicus Belokobylskij, 2000. Russia: **FE** (PR).

Blacus (Blacus) dezhnevi Belokobylskij, 2000. Russia: **FE** (CH).

Blacus (Blacus) errans (Nees, 1811) [Bracon] (*Blacus vagans* Ruthe, 1861). Endoparasitoid of beetles from the genera *Exocentrus*, *Pogonocherus* and *Tetrops* (Cerambycidae), *Polygraphus* and *Scolytus* (Curculionidae: Scolytinae) and *Dasytes* (Melyridae). Russia: **EP** (NC), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran, Turkmenistan, Uzbekistan.

Blacus (Blacus) exilis (Nees, 1811) [Bracon] (*Aphidius lactucaphis* Fitch, 1855; *Miocolus pallipes* Foerster, 1863; *Blacus propallipes* Shenefelt, 1969; *B. intermedius* Janson, 1975). Endoparasitoid of *Ernobius nigrinus* Sturm (Anobiidae), *Ips vorontzowi* Jakobs. (Curculionidae: Scolytinae) and *Magdalis armigera* Geoffr. (Curculionidae). Russia: **EP** (N, NW, NC), **ES** (IR), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Morocco, Georgia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula, N America.

Blacus (Blacus) filicornis Haeselbarth, 1973. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, Mongolia.

- Blacus (Blacus) forticornis** Haeselbarth, 1973. Russia: **EP** (N, C, NC). – Europe (WE, EE).
- Blacus (Blacus) hastatus** Haliday, 1835 (*Blacus terebrator* Ruthe, 1861). Endoparasitoid of *Stereonychus fraxini* Deg. (Curculionidae) and *Meligethes* sp. (Nitidulidae). Russia: **EP** (NW, C, NC), **FE** (KA). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Blacus (Blacus) humilis** (Nees, 1811) [Bracon] (*Blacus trivialis* Haliday, 1835; *B. wesmaeli* Ruthe, 1861). Endoparasitoid of beetles from the genera *Stegobium* (Anobiidae), *Cionus* and *Gymnetron* (Curculionidae), *Blastophagus* (Curculionidae: Scolytinae) and *Cryptophagus* (Cryptophagidae). Russia: **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, Korean Peninsula, Japan, N America, Mexico, India.
- Blacus (Blacus) instabilis** Ruthe, 1861. Russia: **EP** (NW), **FE** (AM). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Mongolia, Korean Peninsula, India.
- Blacus (Blacus) interstitialis** Ruthe, 1861 (*Blacus oscinellae* Fischer, 1963). Endoparasitoid of *Oscinella frit* L. (Chloropidae). Russia: **EP** (CR). – Europe (WE, NE, EE), Morocco, Turkey, Iran, Afghanistan.
- Blacus (Blacus) longipennis** (Gravenhorst, 1807) [Ophion] (*Blacus dubius* Ruthe, 1861). Endoparasitoid of *Anobium* sp. (Anobiidae) and *Molorchus umbellatarum* Schreb. (Cerambycidae). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Kazakhstan.
- Blacus (Blacus) maryi** Hellén, 1958. Russia: **FE** (MG). – Europe (WE, NE, SE), N America.
- Blacus (Blacus) paganus** Haliday, 1835 (*Blacus brevicornis* Ruthe, 1861). Endoparasitoid of *Antherophagus* sp. (Cryptophagidae). Russia: **EP** (NW, C, NC, CR), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Turkey, Iran, Mongolia, N America.
- Blacus (Blacus) pappianus** Haeselbarth, 1973. Russia: **EP** (C). – Europe (WE, SE, EE).
- Blacus (Blacus) puber** Belokobylskij, 2000. Russia: **FE** (PR).
- Blacus (Blacus) radialis** Haeselbarth, 1973. Russia: **EP** (CR), **ES** (ZB), **FE** (KH, PR, SA, KU). – Europe (EE), Kazakhstan, Mongolia, Japan (Hon), Nepal.
- Blacus (Blacus) spasskensis** Belokobylskij, 1995. Russia: **FE** (PR).
- Blacus (Blacus) stelfoxi** Haeselbarth, 1973. Russia: **ES** (KR). – Europe (WE, NE, EE), Georgia, Turkey, Iran, Mongolia.
- Blacus (Blacus) ussuriensis** Belokobylskij, 1995. Russia: **FE** (KH, PR).
- Blacus (Ganychorus) applicatus** Papp, 1985. Russia: **FE** (PR). – Korean Peninsula.
- Blacus (Ganychorus) armatulus** Ruthe, 1861. Endoparasitoid of *Barynotus* sp. and *Gymnetron campanulae* Schoen. (Curculionidae). Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Kazakhstan, N America.
- Blacus (Ganychorus) bussei** Belokobylskij, 1995. Russia: **FE** (PR).
- Blacus (Ganychorus) capeki** Haeselbarth, 1973. Russia: **EP** (NC). – Europe (WE, SE, EE), Turkey, Korean Peninsula.
- Blacus (Ganychorus) concinnus** Belokobylskij, 1995. Russia: **FE** (PR).
- Blacus (Ganychorus) diversicornis** (Nees, 1834) [Bracon] (*Blacus compar* Ruther, 1861). Russia: **EP** (N, NW, C), **FE** (MG, CH). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, Korean Peninsula, N America.
- Blacus (Ganychorus) dolosus** Papp, 1985. Russia: **FE** (PR, KU). – Korean Peninsula.
- Blacus (Ganychorus) kangauzi** Belokobylskij, 1995. Russia: **FE** (PR).
- Blacus (Ganychorus) macropterus** Haeselbarth, 1973. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Mongolia.
- Blacus (Ganychorus) maculipes** Wesmael, 1835. Endoparasitoid of *Apoderus coryli* L. (Attelabidae). Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Blacus (Ganychorus) nitidus** Haeselbarth, 1973 (*Blacus petiolatus* Tobias, 1976). Russia: **EP** (N, NC). – Europe (WE, NE, SE, EE), Korean Peninsula, Japan, India.
- Blacus (Ganychorus) pallipes** Haliday, 1835 (*Blacus tuberculatus* Wesmael, 1835; *B. florus* Goureau, 1851). Endoparasitoid of *Barynotus obscurus* F. and *Otiiorhynchus ligneus* Oliv. (Curculionidae). Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Armenia, Kazakhstan.
- Blacus (Ganychorus) pectinatus** Haeselbarth, 1973. Russia: **FE** (PR, SA). – Europe (WE, NE, EE).
- Blacus (Ganychorus) ruficornis** (Nees, 1811) [Bracon] (*Microgaster bisstigmata* Say, 1836; *Bracon tipulator* Zetterstedt, 1838; *Dacnusa cerealis* Curtis, 1860; *Dinocampus pallidipes* Costa, 1885; *Blacus dentatus* Hellén, 1958). Endoparasitoid of *Stereonychus fraxini* Deg. (Curculionidae) and *Tachyporus obtusus* L. (Staphylinidae). Russia: **EP** (NW), **WS** (AL), **ES** (IR), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Turkey, Iran, Afghanistan, Korean Peninsula, Japan (Hon), N America, Mexico, Nepal.
- Blacus (Ganychorus) sutchanicus** Belokobylskij, 1995. Russia: **FE** (KH, PR). – Japan (Kyu).
- Blacus (Hysterobolus) chabarovi** Belokobylskij, 1995. Russia: **FE** (KH, PR).
- Blacus (Hysterobolus) mamillanus** Ruthe, 1861 (*Blacus aptenodytes* Marshall, 1889). Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia.
- Blacus (Hysterobolus) nixonii** Haeselbarth, 1973. Russia: **FE** (PR, KU). – Europe (WE, SE, EE), Turkey, Iran, Korean Peninsula.
- Blacus (Leioblacus) fischeri** Haeselbarth, 1973. Russia: **FE** (PR). – Europe (WE, SE, EE).
- Blacus (Tarpheion) achterbergi** Haeselbarth, 1976 (*Blacus gracilis* Haeselbarth, 1973). Russia: **EP** (N), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Iran, Korean Peninsula.

Subfamily BRACHISTINAE (CALYPTINAE)

S.A. BELOKOBYSKIJ

Relatively large subfamily, which members are recorded in almost all zoogeographic regions. Egg-larval koinobiont endoparasitoids of different families of Coleoptera, mainly Chrysomelidae and Curculionidae.

Number of taxa: World – 11 genera and about 410 species, Palaearctic – 7/220, Russia – 5/99.

R e f e r e n c e s. Šnoflák, 1953; Tobias et al., 1986a; van Achterberg, 1990a, 2000; Belokobylskij, 1994b; Belokobylskij et al., 1998, 2012b; Yu et al., 2016.

EUBASUS Nees, 1812 (*Brachistes* Wesmael, 1835; *Calyptus* Haliday, 1835; *Aliolus* Say, 1836; *Allodorus* Foerster, 1863). Type species: *Eubazus pallipes* Nees, 1812. Medium-sized genus; consists of five subgenera: *Aliolus*, *Allodorus*, *Brachistes*, *Calyptus* and *Eubazus* s. str. Number of species: World – about 150, Palaearctic – about 100, Russia – 49.

Eubazus (Aliolus) janus Belokobylskij, 1998. Russia: **FE** (PR).

Eubazus (Aliolus) latus Belokobylskij, 1998. Russia: **FE** (PR).

Eubazus (Aliolus) lepidus (Haliday, 1835) [Helcon] (*Triaspis hofferi* Šnoflák, 1953; *Allodorus kusarensis* Abdinbekova, 1969). Endoparasitoid of *Pissodes harcyniae* Hbst. (Curculionidae). Russia: **EP** (NW, C), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.

Eubazus (Aliolus) regularis van Achterberg, 2000 (*Aliolus rufithorax* Tobias, 1986, nom. praeocc., nec *Calyptus rufithorax* Abdinbekova, 1969). Russia: **EP** (NC).

Eubazus (Aliolus) santacheza Belokobylskij, 1998. Russia: **FE** (PR).

Eubazus (Aliolus) sintuchae Belokobylskij, 1998. Russia: **FE** (PR).

Eubazus (Aliolus) terminalis Belokobylskij, 1998. Russia: **FE** (PR, SA).

Eubazus (Allodorus) robustus (Ratzeburg, 1844) [*Brachistes*] (*Brachistes firmus* Ratzeburg, 1844; *B. noctuae* Ratzeburg, 1844; *Sigalphus tenthrinum* Hartig, 1847; *Calyptus strigator* Thomson, 1892). Endoparasitoid of coleopteran larvae from the family Curculionidae and perhaps also *Acantholyda hieroglyphica* Christ (Hymenoptera: Pamphiliidae). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia.

Eubazus (Allodorus) semirugosus (Nees, 1816) [*Sigalphus*] (*Bracon tuberculator* Zetterstedt, 1838; *Eubadizon rufipes* Herrich-Schäffer, 1838; *Sigalphus curculionum* Hartig, 1847; *Brachistes atricornis* Ratzeburg, 1848; *Calyptus mucronatus* Thomson, 1892; *C. truncatus* Thomson, 1892; *C. arete* Fahringer, 1944). Endoparasitoid of coleopteran larvae from the families Anobiidae, Buprestidae, Cerambycidae and Curculionidae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (NS), **ES** (ZB), **FE** (PR, SA, KA). – Europe

(WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Mongolia, China.

Eubazus (Brachistes) aevenki Belokobylskij, 1994. Russia: **FE** (MG).

Eubazus (Brachistes) aliochinoi Belokobylskij, 1998. Russia: **FE** (KU).

Eubazus (Brachistes) augustinus (Reinhard, 1867) [*Calypsus*]. Endoparasitoid of coleopteran larvae from the families Curculionidae and Cerambycidae. Russia: **EP** (C), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Japan (Kyu).

Eubazus (Brachistes) cingulatus (Szépligeti, 1896) [*Calypsus*] (*Calyptus rufiventris* Abdinbekova, 1969; *Eubazus opacus* auct.). Russia: **EP** (NC), **FE** (PR). – Europe (SE, EE), Georgia, Armenia, Azerbaijan.

Eubazus (Brachistes) claviventris (Reinhard, 1867) [*Calypsus*]. Endoparasitoid of *Pityogenes bidentatus* Herbst (Curculionidae: Scolytinae). Russia: **EP** (C, NC). – Europe (WE, SE, EE).

Eubazus (Brachistes) clypealis Tobias, 1986. Russia: **EP** (NC).

Eubazus (Brachistes) eos Belokobylskij, 1994. Russia: **FE** (PR).

Eubazus (Brachistes) fasciatus (Nees, 1816) [*Sigalphus*] (*Brachistes fuscipalpis* Wesmael, 1835). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkmenistan, Kazakhstan, Japan.

Eubazus (Brachistes) flavifacies Belokobylskij, 1998. Russia: **FE** (SA).

Eubazus (Brachistes) fuscipes (Herrich-Schäffer, 1838) [*Eubadizon*] (*Eubazus talitzkii* Tobias, 1976; *E. mucri* Belokobylskij, 1994). Russia: **EP** (NC), **ES** (IR), **FE** (KH, PR). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkmenistan.

Eubazus (Brachistes) iterabilis Belokobylskij, 1998. Russia: **FE** (PR, SA).

Eubazus (Brachistes) margaritovi Belokobylskij, 1994. Russia: **FE** (PR).

Eubazus (Brachistes) nigricoxis (Wesmael, 1835) [*Brachistes*]. Russia: **EP** (C, CR), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Kazakhstan.

Eubazus (Brachistes) olegi Belokobylskij, 1994. Russia: **FE** (PR, MG).

Eubazus (Brachistes) ruficoxis (Wesmael, 1835) [*Brachistes*] (*Brachistes politus* Ratzeburg, 1852; *Calyptus byctisci* Watanabe, 1933). Endoparasitoid of coleopteran larvae from the families Curculionidae and Rhynchitidae. Russia: **EP** (NW), **ES** (ZB), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Mongolia, Japan (Hok).

Eubazus (Brachistes) shufanicus Belokobylskij, 1998. Russia: **FE** (PR, KU).

Eubazus (Brachistes) sibiricus Belokobylskij, 1998. Russia: **ES** (ZB).

Eubazus (Brachistes) simplex Belokobylskij, 1998. Russia: **FE** (PR).

Eubazus (Brachistes) sochiensis Tobias, 1976. Russia: **EP** (NC). – Europe (SE, EE).

- Eubazus (Brachistes) subvagus** Tobias, 1986. Russia: **EP** (NC). – Europe (EE), Korean Peninsula.
- Eubazus (Brachistes) taiga** Belokobylskij, 1998. Russia: **FE** (PR).
- Eubazus (Brachistes) tauricus** Tobias, 1986. Russia: **EP** (CR). – Europe (EE).
- Eubazus (Brachistes) tibialis** (Haliday, 1835) [Helcon] (*Brachistes uncigenis* Wesmael, 1835). Endoparasitoid of *Byctiscus betulae* L. and *B. populi* L. (Rhynchitidae). Russia: **EP** (NW, C, E), **WS** (TM), **ES** (KR, YA, ZB), **FE** (KA, MG, CH). – Europe (WE, NE, SE, EE), Georgia, Armenia, Mongolia.
- Eubazus (Brachistes) vagus** (Reinhard, 1867) [Calyptus] (*Calyptus caudatus* Niezabitowski, 1910). Russia: **EP** (NC). – Europe (WE, EE), Armenia.
- Eubazus (Brachistes) vladimiri** Belokobylskij, 1994. Russia: **FE** (PR, SA, KU).
- Eubazus (Calyptus) macrocephalus** (Nees, 1813) (*Eubadizon synchitae* Hedqvist, 1956; *E. ratzeburgi* Fischer, 1962; *Eubazus xiphydriae* Tobias, 1986). Endoparasitoid of *Xiphydria camelus* L. (Xiphydriidae). Russia: **EP** (C). – Europe (WE, SE, EE).
- Eubazus (Eubazus) antennalis** Belokobylskij, 1994. Russia: **FE** (PR).
- Eubazus (Eubazus) cserskii** Belokobylskij, 1998. Russia: **FE** (PR).
- Eubazus (Eubazus) curtis** Belokobylskij, 1998. Russia: **FE** (PR).
- Eubazus (Eubazus) flavipes** (Haliday, 1835) [Helcon] (*Eubadizon laevis* Herrich-Schäffer, 1838). Endoparasitoid of *Exocentrus punctipennis* Muls. (Cerambycidae). Russia: **EP** (NW, C, NC), **FE** (PR, KU). – Europe (WE, SE, EE), Armenia, Korean Peninsula.
- Eubazus (Eubazus) involutus** Belokobylskij, 1998. Russia: **FE** (KU).
- Eubazus (Eubazus) junctus** Belokobylskij, 1998. Russia: **FE** (PR).
- Eubazus (Eubazus) kedrovyi** Belokobylskij, 1998. Russia: **FE** (PR).
- Eubazus (Eubazus) longicaudis** (Ratzeburg, 1844) [Brachistes] (*Eubazus denticulatus* van Achterberg, 1979). Endoparasitoid of coleopteran larvae from the families Buprestidae, Curculionidae (Scolytinae) and Rhynchitidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Eubazus (Eubazus) maacki** Belokobylskij, 1998. Russia: **FE** (PR).
- Eubazus (Eubazus) micropilosus** Belokobylskij, 1998. Russia: **FE** (PR).
- Eubazus (Eubazus) micus** Belokobylskij, 1998. Russia: **FE** (PR).
- Eubazus (Eubazus) pallipes** Nees, 1812 (*Eubadizon coxalis* Nees, 1834; *Helcon semistriatus* Haliday, 1835; *Eubadizon americanus* Cresson, 1872). Endoparasitoid of coleopteran larvae from the families Cerambycidae, Chrysomelidae, Curculionidae and Lyctidae. Russia: **EP** (E, CR), **UR**, **FE** (PR). – Europe (WE, SE, EE), Azerbaijan, USA.
- Eubazus (Eubazus) pygmaeus** Belokobylskij, 1998. Russia: **FE** (PR).
- Eubazus (Eubazus) spasskii** Belokobylskij, 1998. Russia: **FE** (PR).
- FOERSTERIA** Szépligeti, 1896. Type species: *Foersteria flavipes* Szépligeti, 1896 (= *Helcon puber* Haliday, 1835). Small genus recorded mainly in the Palaearctic region (4 species), but a single questionable species was described from South Africa. Number of species: World – 5, Palaearctic – 4, Russia – 1.
- Foersteria puber** (Haliday, 1835) [Helcon] (*Calyptus opacus* Reinhard, 1867; *Foersteria flavipes* Szépligeti, 1896; *F. talitzkii* Tobias, 1961). Endoparasitoid of coleopteran larvae from the families Anobiidae, Curculionidae and Rhynchitidae. Russia: **EP** (NW, C, NC), **UR**, **WS** (TM, NS), **ES** (BR, YA, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan.
- POLYDEGMON** Foerster, 1863. Type species: *Polydegmon sinuatus* Foerster, 1863. Small Palaearctic genus, more abundant in semi-arid and arid territories. Number of species: World, Palaearctic and Russia – 3.
- Polydegmon foveolatus** (Herrich-Schäffer, 1838) [Sigalphus] (*Polydegmon marshalli* Szépligeti, 1896). Russia: **EP** (S), **UR**. – Europe (WE, SE, EE), Turkey, Uzbekistan, Kazakhstan.
- Polydegmon intermedius** Szépligeti, 1896. Russia: **EP** (NC, CR), **WS** (AL). – Europe (EE), Kazakhstan.
- Polydegmon sinuatus** Foerster, 1863 (*Pambolus pillichii* Kiss, 1915). Russia: **EP** (C, S, NC, CR), **UR**, **WS** (NS). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Uzbekistan, Kazakhstan.
- SCHIZOPRYMNUS** Foerster, 1863. Type species: *Sigalphus obscurus* Nees, 1816. Large genus, widely distributed in almost all zoogeographic regions. The genus consists of two subgenera: *Schizoprymnus* s. str. (including the most part of known species) and *Ibarakius* Belokobylskij et Maeto, 2007 (with three species from Japan). Number of species: World – 125, Palaearctic – 63, Russia – 33.
- Schizoprymnus ambiguus** (Nees, 1816) [Sigalphus]. Endoparasitoid of *Ceutorhynchus maculaalba* Hbst. (Curculionidae). Russia: **EP** (NW, C), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Tajikistan, Kazakhstan.
- Schizoprymnus angustatus** (Herrich-Schäffer, 1838) [Sigalphus]. Russia: **EP** (NC), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia.
- Schizoprymnus azerbaijdzhanicus** (Abdinbekova, 1967) [Triaspis]. Russia: **ES** (ZB), **FE** (KH, PR). – Europe (SE, EE), Azerbaijan, Korean Peninsula.

- Schizoprymnus brevicornis** (Herrich-Schäffer, 1838) [Sigalphus]. Endoparasitoid of *Gymnetron* sp. (Curculionidae). Russia: **EP** (S). – Europe (WE, SE, EE), Turkey, Kazakhstan.
- Schizoprymnus burjaticus** Belokobyl'skij, 1998. Russia: **ES** (BR).
- Schizoprymnus cataphractus** (Šnoflák, 1953) [Triaspis]. Russia: **EP** (NC), **ES** (ZB). – Europe (EE), Turkmenistan, Kazakhstan.
- Schizoprymnus cavernus** Papp, 1989. Russia: **FE** (PR). – Korean Peninsula.
- Schizoprymnus compactus** Belokobyl'skij, 1994. Russia: **FE** (PR).
- Schizoprymnus crassiceps** (Thomson, 1892) [Sigalphus]. Russia: **EP** (S), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, Mongolia.
- Schizoprymnus dadianshanicus** Belokobyl'skij, 1998. Russia: **FE** (PR).
- Schizoprymnus dauricus** Telenga, 1941. Russia: **ES** (IR, ZB), **FE** (KH, PR). – Mongolia.
- Schizoprymnus edentulus** (Szépligeti, 1901) [Sigalphus] (*Triaspis emarginatus* Šnoflák, 1953). Russia: **WS** (OM). – Europe (SE, EE), Kazakhstan.
- Schizoprymnus excisus** (Šnoflák, 1953) [Triaspis] (*Schizoprymnus arcuatus* Tobias, 1976). Russia: **EP** (C). – Europe (SE, EE), Armenia, Iran, Kazakhstan, Mongolia.
- Schizoprymnus grodekovi** Belokobyl'skij, 1998. Russia: **FE** (KH).
- Schizoprymnus hilaris** (Herrich-Schäffer, 1838) [Sigalphus] (*Sigalphus antennalis* Thomson, 1892). Endoparasitoid of *Bruchidius varius* Oliv. (Chrysomelidae: Bruchinae). Russia: **EP** (C: Telenga, 1941). – Europe (WE, NE, SE, EE), Kazakhstan.
- Schizoprymnus nigripes** (Thomson, 1892) [Sigalphus]. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, Korean Peninsula.
- Schizoprymnus obscurus** (Nees, 1816) [Sigalphus]. Endoparasitoid of coleopteran larvae from the families Apioninae, Curculionidae and Mordellidae. Russia: **EP** (C, E), **WS** (TM, OM), **ES** (BR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Morocco, Tunisia, Georgia, Iran, Turkmenistan, Kazakhstan, Mongolia.
- Schizoprymnus oncogena** Belokobyl'skij, 1994. Russia: **FE** (PR).
- Schizoprymnus opacus** (Thomson, 1892) [Sigalphus]. Russia: **EP** (C, NC), **WS** (TM), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Kazakhstan, Mongolia, Korean Peninsula.
- Schizoprymnus pallidipennis** (Herrich-Schäffer, 1838) [Sigalphus] (*Sigalphus strigosa* Fahringer, 1935). Endoparasitoid of *Mordellistena parvula* Gyll. (Mordellidae). Russia: **EP** (C), **ES** (ZB), **FE** (KH, PR). – Europe (WE, SE, EE), Armenia, Iran, Tajikistan, Kazakhstan, Mongolia, China (SW).
- Schizoprymnus palpator** Tobias, 1976. Russia: **EP** (NC).
- Schizoprymnus peishula** Belokobyl'skij, 1998. Russia: **FE** (PR).
- Schizoprymnus protuberans** Belokobyl'skij, 1998. Russia: **FE** (PR).
- Schizoprymnus pullatus** (Dahlbom, 1833) [Chelonus] (*Sigalphus rufipes* Herrich-Schäffer, 1838; *S. globosus* Szépligeti, 1898; *Schizoprymnus bimaculatus* Telenga, 1941). Endoparasitoid of *Mordellistena bicoloripilosa* Ermisch and *M. weisei* Schilsky (Mordellidae). Russia: **EP** (NC), **ES** (ZB). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Iran, Kazakhstan.
- Schizoprymnus quadridens** Belokobyl'skij, 1998 (*Schizoprymnus quadridentatus* Belokobyl'skij, 1994, nom. praecox., nec Papp, 1971). Russia: **FE** (KH, PR).
- Schizoprymnus sculpturatus** (Šnoflák, 1970) [Triaspis] (? *S. rubens* Jakimavicius, 1973). Russia: **FE** (KH, PR, KU). – Europe (WE, EE).
- Schizoprymnus spinosus** Belokobyl'skij, 1994. Russia: **FE** (PR).
- Schizoprymnus telengai** Tobias, 1976. Endoparasitoid of *Titanomalia komaroffi* Faust. (Apionidae). Russia: **EP** (C), **ES** (ZB), **FE** (PR). – Europe (EE), Kazakhstan.
- Schizoprymnus terebralis** (Šnoflák, 1953) [Triaspis]. Endoparasitoid of *Mordellistena parvula* Gyll. (Mordellidae). Russia: **ES** (ZB), **FE** (PR). – Europe (SE, EE), Armenia, Azerbaijan, Iran, Kazakhstan, Mongolia.
- Schizoprymnus tshitaensis** Belokobyl'skij, 1998. Russia: **ES** (ZB).
- Schizoprymnus tsymbalorum** Belokobyl'skij, 1994. Russia: **FE** (PR).
- Schizoprymnus tuberosus** Telenga, 1941. Russia: **ES** (ZB), **FE** (KH, PR, KU). – Europe (EE), Kazakhstan.
- Schizoprymnus unguicularis** Belokobyl'skij, 1994. Russia: **FE** (SA).
- Schizoprymnus ussuricus** Belokobyl'skij, 1994. Russia: **ES** (ZB), **FE** (PR).
- TRIASPIS** Haliday, 1835 (*Dicyrtaspis* van Achterberg, 1980). Type species: *Sigalphus caudatus* Nees, 1816. Medium-sized genus, most part of species were described from the Holarctic. Number of species: World – more than 100, Palaearctic – about 40, Russia – 13.
- Triaspis caudata** (Nees, 1816) [Sigalphus] (*Sigalphus gracilis* Herrich-Schäffer, 1838; *S. australis* Szépligeti, 1901; *Triaspis arctica* Hellén, 1958). Endoparasitoid of coleopteran larvae from the families Anobiidae, Apioninae, Chrysomelidae, Curculionidae and Rhynchitidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Kazakhstan.
- Triaspis complanellae** (Hartig, 1847) [Sigalphus] (*Sigalphus flavipes* Ivanov, 1899). Endoparasitoid of *Gymnetron antirrhini* Payk. (Curculionidae). Russia: **FE** (PR). – Europe (WE, SE, EE), Tunisia, Kazakhstan, Mongolia, Korean Peninsula.

- Triaspis convexa** Belokobylskij, 1998. Russia: **ES** (ZB), **FE** (PR).
- Triaspis curculiovorus** Papp et Maeto, 1992. Endoparasitoid of *Curculio distinguendus* Roelofs and *C. sikkimensis* Heller (Curculionidae). Russia: **FE** (PR). – Japan (Hok).
- Triaspis devinensis** Šnoflák, 1953. Russia: **EP** (NC). – Europe (EE).
- Triaspis floricola** (Wesmael, 1835) [Sigalphus]. Endoparasitoid of coleopteran larvae from the families Apionidae and Curculionidae. Russia: **EP** (NC), **UR**, **ES** (ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Algeria, Israel, Iran.
- Triaspis glypturus** (Thomson, 1874) [Sigalphus] (*Triaspis cavifrons* Šnoflák, 1953). Endoparasitoid of *Magdalis barbicornis* Latr. and *Pissodes notatus* F. (Curculionidae). Russia: **EP** (E), **ES** (IR, ZB), **FE** (KH, PR, SA, KA). – Europe (WE, NE, EE).
- Remarks.** This species is sometimes included in the genus *Dicyrtaspis*.
- Triaspis krivolutskayae** Belokobylskij, 1994. Russia: **FE** (PR, SA).
- Triaspis lugubris** Šnoflák, 1953. Endoparasitoid of *Rynchaneus sanguinipes* Roelofs (Curculionidae). Russia: **UR**, **ES** (IR, ZB), **FE** (KH, PR, SA). – Europe (EE), Iran, Kazakhstan, Mongolia, Korean Peninsula.
- Triaspis obscurella** (Nees, 1816) [Sigalphus] (*Sigalphus aciculatus* Ratzeburg, 1848; *S. simulator* Szépligeti, 1901). Endoparasitoid of coleopteran larvae from the families Anobiidae, Apionidae, Buprestidae, Chrysomelidae and Curculionidae. Russia: **EP** (NW), **ES** (YA). – Europe (WE, SE, EE), Azerbaijan, Israel, Iran, Kazakhstan, Mongolia.
- Triaspis pallipes** (Nees, 1816) [Sigalphus] (*Helcon fulvipes* Haliday, 1835; *Brachistes fagi* Ratzeburg, 1852; *Sigalphus similis* Szépligeti, 1901). Endoparasitoid of coleopteran larvae from the families Chrysomelidae and Curculionidae. Russia: **EP** (NC), **UR**. – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, China (NW).
- Triaspis thoracica** (Curtis, 1860) [Sigalphus] (*Sigalphus gibberosus* Szépligeti, 1901; *S. rugosus* Szépligeti, 1901). Endoparasitoid of coleopteran larvae from the family Chrysomelidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Azerbaijan, Israel, S America.
- Triaspis vernalis** Belokobylskij, 1998. Russia: **FE** (KH, PR).

Subfamily BRACONINAE

K.G. SAMARTSEV

The subfamily comprises the largest number of known species among Braconidae and belongs to the cyclostome clade of the family. It is distributed worldwide being most diverse on the generic level in the Oriental region, but most species-rich in Afrotropics. Braconinae are ectoparasitoids of concealed larvae of holometabolous insects, a few species

are known to be endoparasitic or phytophagous (Yu et al., 2016; Chen, van Achterberg, 2019).

Number of taxa: World – 192 genera and 3099 species (3/18 fossil), Palaearctic – 59/704 (3/15 fossil), Russia – 15/232.

References. Becker, 1857; Marshall, 1897; Kokujev, 1898, 1913; Szépligeti, 1904; Hellén, 1927, 1957; Meyer, 1927a; Telenga, 1936; Watanabe, 1937, 1958; Tobias, 1957, 1961a, 1961b, 1971, 1976a; Guryanova, 1969; Tobias, Abdinbekova, 1973; Tobias, Jakimavicius, 1973; Tobias et al., 1986a; Yakovlev, Tobias, 1992; Papp, 2004; Nartshuk, 2009; Kostromina, 2010, 2013; Samartsev, 2013, 2016, 2018, 2019; Samartsev, Belokobylskij, 2013; Yu et al., 2016.

ACAMPYLONEURUS van Achterberg, 1992. **Type species:** *Campyloneurus aruensis* Shenefelt, 1978. Distributed in the Palaearctic, Oriental and Australasian regions. Number of species: World – 5, Palaearctic and Russia – 3.

Acampyloneurus abnormis (Belokobylskij, 2000) [Cyanopterus]. Russia: **FE** (PR).

Acampyloneurus bohayicus (Belokobylskij, 2000) [Cyanopterus]. Russia: **FE** (PR).

Acampyloneurus penini (Belokobylskij, 2000) [Cyanopterus]. Russia: **FE** (PR).

ATANYCOLUS Foerster, 1862 (*Coelobracon* Thomson, 1892; *Melanobracon* Ashmead, 1900; *Atanycolidea* Viereck, 1912). **Type species:** *Ichneumon denigrator* Linnaeus, 1758. Distributed worldwide except the Oceanic region. Number of species: World – 62, Palaearctic – 13, Russia – 9.

Atanycolus crenulatus Telenga, 1936. Russia: **FE** (AM, PR). – China (NC).

Atanycolus denigrator (Linnaeus, 1758) [Ichneumon] (*Ichneumon incertus* Sulzer, 1776; *Bracon heteropus* Thomson, 1892; *Atanycolus albiscutis* Telenga, 1936). Reported as a parasitoid of coleopterans from 11 genera of Buprestidae, Cerambycidae and Curculionidae. Russia: **EP** (N, NW, C, E, NC), **WS** (AL), **ES** (TU, KR, IR, YA), **FE** (AM, KH, PR, MG, CH). – Europe (WE, NE, SE, EE), Israel, Kazakhstan, Mongolia, China (NC), Korean Peninsula, Niger.

Atanycolus fulviceps (Kriechbaumer, 1898) [Coeloides]. Reported as a parasitoid of the coleopterans *Ovalisia mirifica* Muls. and *O. rutilans* F. (Buprestidae). Russia: **UR**, **FE** (without regions: Tobias, 1976a). – Europe (WE, EE), Turkey.

Atanycolus genalis (Thomson, 1892) [Bracon] (*Atanycolus mongolicus* Telenga, 1936). Russia: **EP** (NW, C, E, S), **UR**, **WS** (NS, AL), **ES** (TU, IR, YA, ZB), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Turkmenistan, Kazakhstan, Mongolia, China (NC), Japan (Hon, Kyu).

Atanycolus initiator (Fabricius, 1793) [Ichneumon] (*Atanycolus flaviceps* Ivanov, 1896). Reported as a parasitoid of coleopterans from 26 genera of Buprestidae, Cerambycidae and Curculionidae, hymenopterans from the genus

- Arge* (Argidae) and lepidopterans from the genera *Sesia* and *Synanthedon* (Sesiidae). Russia: **EP** (NC, CR), **UR**, **FE** (SA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Mongolia, China (NE, NC, CC), Japan (Hon, Shi).
- Atanycolus ivanowi** (Kokujev, 1898) [Vipio] (*Bracon sculpturatus* Thomson, 1892, nom. praeocc., nec Walker, 1871; *Atanycolus signatus* Szépligeti, 1901). Reported as a parasitoid of coleopterans from 10 genera of Buprestidae and Cerambycidae. Russia: **EP** (S, NC), **UR**, **ES** (YA), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, China (NW), Japan (Hok).
- Atanycolus lindemani** Tobias, 1980. Reported as a parasitoid of the coleopterans *Scolytus seulensis* Murayama and *Xyloterinus politus* Say (Curculionidae). Russia: **ES** (BR). – Mongolia, China (NE, NC, NW).
- Atanycolus neesii** (Marshall, 1897) [Coeloides]. Reported as a parasitoid of coleopterans from 15 genera of Buprestidae, Cerambycidae and Curculionidae and lepidopterans from the genera *Sesia* and *Synanthedon* (Sesiidae). Russia: **EP** (C, NC), **UR**. – Europe (WE, SE, EE), Turkey, Israel, Kazakhstan.
- Atanycolus nigriventris** Vojnovskaja-Krieger, 1935 (*Atanycolus orientalis* Vojnovskaja-Krieger, 1935; *A. picipes* Telenga, 1936). Reported as a parasitoid of the coleopteran *Agrilus planipennis* Fairm. (Buprestidae). Russia: **ES** (ZB), **FE** (PR, KA).
- BARYPROCTUS** Ashmead, 1900. Type species: *Bracon barypus* Marshall, 1885. Distributed in the Palaearctic region. Number of species: World and Palaearctic – 4, Russia – 2.
- Baryproctus barypus** (Marshall, 1885) [Bracon] (*Baryproctus hungaricus* Szépligeti, 1901; *B. caucasicus* Telenga, 1936; *B. apti* Györfi, 1953). Reported as a parasitoid of dipterans from the genera *Lipara* and *Platycephala* (Chloropidae). Russia: **EP** (S, NC), **WS** (AL), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Israel, Kazakhstan.
- Baryproctus ussuriensis** Telenga, 1936. Russia: **FE** (PR). – Mongolia.
- BRACON** Fabricius, 1804 (*Microbracon* Ashmead, 1890; *Habrobracon* Ashmead, 1895; *Amicoplidea* Ashmead, 1900; *Macrodyctium* Ashmead, 1900; *Tropidobracon* Ashmead, 1900; *Liobracon* Nason, 1905; *Lorenzoo* de Stefani-Perez, 1909; *Seliodus* Brèthes, 1909; *Kulczynskia* Niezabitowski, 1910; *Glabrobracon* Fahringer, 1927; *Lucobracon* Fahringer, 1927; *Orthobracon* Fahringer, 1927; *Striobracon* Fahringer, 1927; *Chivinia* Shestakov, 1932; *Asiabracon* Tobias, 1957; *Cyanopterobracon* Tobias, 1957; *Ophthalmobracon* Tobias, 1957; *Rostrobracon* Tobias, 1957; *Foveobracon* Tobias, 1961; *Pilibracon* Tobias, 1961; *Sculptobracon* Tobias, 1961; *Pigeria* van Achterberg, 1985; *Punctobracon* Papp, 1996; *Orientobracon* Tobias, 2000; *Osculobracon* Papp, 2008; *Palpiobracon* Papp, 2012). Type species: *Ichneumon minutator* Fabricius, 1798. The subgenera *Glabrobracon* and *Lucobracon* are considered the synonyms of *Bracon* s. str. because their current taxonomic concepts have become broadly blended and equally applicable to the large number of species. Cosmopolitan. Number of species: World – 929 (11 fossil), Palaearctic – 454 (10 fossil), Russia – 156.
- Bracon (Bracon) abbreviator** Nees, 1834 (*Bracon abscissor* Nees, 1834; *B. oostmaeli* Wesmael, 1838; *B. regularis* Wesmael, 1838; *B. eutrephe* Marshall, 1897; *B. rufigaster* Szépligeti, 1901). Reported as a parasitoid of coleopterans from the genus *Anthonomus* (Curculionidae), dipterans from the genus *Lipara* (Chloropidae), hymenopterans from the genera *Cephus* (Cepidae) and *Diplolepis* (Cynipidae) and lepidopterans from 9 genera of Coleophoridae, Elachistidae, Gracillariidae, Noctuidae and Tortricidae. Russia: **EP** (N, C, E, S, NC, CR), **ES** (IR). – Europe (WE, NE, SE, EE), Morocco, Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Jordan, Israel, Iran, Turkmenistan, Tajikistan, Kazakhstan, Japan (Hok).
- Bracon (Bracon) ahngeri** Telenga, 1936. Russia: **EP** (S). – Turkey, Iran, Korean Peninsula.
- Bracon (Bracon) albion** Papp, 1999. Russia: **EP** (E). – Europe (WE, NE).
- Bracon (Bracon) alutaceus** Szépligeti, 1901 (*Bracon pygmaeus* Niezabitowski, 1910; *B. pallidalatus* Tobias, 1957). Russia: **EP** (S). – Europe (WE, NE, SE, EE), Cyprus, Iran, Tajikistan, Kazakhstan.
- Bracon (Bracon) angustiventris** Tobias, 1957. Russia: **EP** (E). – Europe (EE), Armenia, Azerbaijan, Turkmenistan.
- Bracon (Bracon) asphondyliae** (Watanabe, 1940) [Campyloneurus] (*Ipobracon scurra* Fischer, 1980). Reported as a parasitoid of dipterans from the genera *Asphondylia*, *Daphnephila* and *Pseudasphondylia* (Cecidomyiidae). Russia: **FE** (KH, PR). – Japan (Hon, Kyu).
- Bracon (Bracon) baicalensis** Tobias, 2000. Russia: **ES** (IR).
- Bracon (Bracon) bifurcatus** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Bracon) bipartitus** Wesmael, 1838 (*Bracon variator chinensis* Fahringer, 1929; *B. rozneri* Papp, 1998). Russia: **EP** (C, E). – Europe (WE, NE, SE, EE), Algeria, Azerbaijan, Turkey, Cyprus, Syria, Israel, Iran, Turkmenistan, Mongolia.
- Bracon (Bracon) brevitemporis** Tobias, 1959. Russia: **EP** (E). – Kazakhstan.
- Bracon (Bracon) caudatus** Ratzeburg, 1848. Reported as a parasitoid of coleopterans from the genera *Curculio* and *Hylesinus* (Curculionidae), dipterans from the genus *Napomyza* (Agromyzidae), hymenopterans from the genera *Andricus* and *Biorhiza* (Cynipidae) and lepidopterans from the genus *Pammene* (Tortricidae). Russia: **FE** (KH, PR). – Europe (WE, SE, EE), Turkey.
- Bracon (Bracon) chorolicus** Tobias, 2000. Russia: **FE** (PR).

- Bracon (Bracon) chrysostigma** Greese, 1928. Reported as a parasitoid of the coleopteran *Lixus canescens* F. de W. (Curculionidae) and the dipteran *Acanthiophilus helianthi* Rossi (Tephritidae). Russia: **EP** (S). – Europe (WE, SE, EE), Turkey, Israel, Iran.
- Bracon (Bracon) claripennis** Thomson, 1892. Reported as a parasitoid of lepidopterans from the genera *Coleophora* (Coleophoridae) and *Cydia* (Tortricidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Cyprus.
- Bracon (Bracon) conjugellae** Bengtsson, 1924. Reported as a parasitoid of the lepidopteran *Argyresthia conjugella* Z. (Yponomeutidae). Russia: **EP** (E). – Europe (WE, NE, EE), Israel.
- Bracon (Bracon) crassiceps** Thomson, 1892. Reported as a parasitoid of the lepidopteran *Archips xylosteana* L. (Tortricidae). Russia: **EP** (N, NW, E). – Europe (WE, NE, SE).
- Bracon (Bracon) crassungula** Thomson, 1892. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Turkey.
- Bracon (Bracon) curticaudis** Szépligeti, 1901. Russia: **EP** (NC). – Europe (WE, NE, EE), Azerbaijan, Turkey, Kazakhstan.
- Bracon (Bracon) delusor** Spinola, 1808. Reported as a parasitoid of the lepidopteran *Cydia strobilella* L. (Tortricidae). Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan.
- Bracon (Bracon) densipilosus** Tobias, 1957. Russia: **EP** (E). – Tajikistan.
- Bracon (Bracon) dichromus** Wesmael, 1838 (*Bracon maculiger* Wesmael, 1838; *B. breviventrus* Szépligeti, 1901; *B. discretus* Szépligeti, 1901; *B. carpaticus* Niezabitowski, 1910; *B. velbingeri* Fahringer, 1951). Reported as a parasitoid of coleopterans from 5 genera of Buprestidae and Curculionidae, hymenopterans from the genus *Hoplocampa* (Tenthredinidae) and lepidopterans from the genera *Platyedra* (Gelechiidae), *Gortyna* (Noctuidae), *Myelois* (Pyralidae) and *Grapholita* (Tortricidae). Russia: **EP** (NW, S, CR). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Syria, Jordan, Israel, Iran, Turkmenistan, Uzbekistan, Kazakhstan.
- Bracon (Bracon) discoideus** Wesmael, 1838 (*Bracon opionus* Fahringer, 1928). Reported as a parasitoid of coleopterans from 8 genera of Cerambycidae, Curculionidae and Rhynchitidae, dipterans from the genus *Chlorops* (Chloropidae), hymenopterans from the genera *Biorhiza* (Cynipidae), *Euura* and *Pontania* (Tenthredinidae) and lepidopterans from the genera *Anticlea* (Geometridae), *Adoxophyes* and *Rhyacionia* (Tortricidae). Russia: **EP** (C, S, CR). – Europe (WE, NE, SE, EE), Egypt, Armenia, Turkey, Kyrgyzstan, Kazakhstan.
- Bracon (Bracon) dolichurus** Marshall, 1897 (*Bracon monticola* Kokujev, 1899; *B. csikii* Szépligeti, 1901). Russia: **FE** (PR, SA, KU). – Europe (WE, SE, EE), Turkey, Israel, Iran.
- Bracon (Bracon) ductor** Telenga, 1936 (*Bracon dissolutus* Papp, 1984). Russia: **ES** (ZB). – Europe (SE, EE), Israel, Mongolia.
- Bracon (Bracon) epitriptus** Marshall, 1885 (*Bracon pallidipes* Szépligeti, 1896; *B. melanogaster* Szépligeti, 1901). Reported as a parasitoid of coleopterans from the genera *Cryptorhynchus*, *Hylobius* and *Pissodes* (Curculionidae), dipterans from the genera *Agromyza* (Agromyzidae) and *Iteomyia* (Cecidomyiidae) and hymenopterans from the genus *Fenusa* (Tenthredinidae). Russia: **EP** (NW, C, NC), **ES** (IR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, China (NC), Korean Peninsula.
- Bracon (Bracon) erraticus** Wesmael, 1838 (*Bracon erythrostrictus* Marshall, 1885; *B. exarator* Marshall, 1885; *B. praetermissus* Marshall, 1885; *B. vectensis* Marshall, 1885; *B. foveola* Thomson, 1892; *B. aestivalis* Szépligeti, 1901; *B. confinis* Szépligeti, 1901; *B. congruus* Szépligeti, 1901; *B. similis* Szépligeti, 1901; *B. ventricosus* Szépligeti, 1901; *B. idrianus* Fahringer, 1934; *B. lagodechianus* Telenga, 1936; *B. planiceps* Telenga, 1936; *B. talitzkii* Telenga, 1936; *B. transcaspicus* Telenga, 1936; *B. hades* Papp, 1965; *B. bellicosus* Papp, 1971). Reported as a parasitoid of coleopterans from the genera *Gastrophysa* (Chrysomelidae), *Hylesinus*, *Orthotomicus* and *Pissodes* (Curculionidae), dipterans from the genera *Chaetostomella*, *Noeeta*, *Terellia* and *Urophora* (Tephritidae), hymenopterans from the genera *Cephus* (Cepidae), *Biorhiza* (Cynipidae), *Tetramesa* (Eurytomidae) and *Pontania* (Tenthredinidae) and lepidopterans from 6 genera of Gelechiidae, Nepticulidae, Sesiidae and Tortricidae. Russia: **EP** (N, NW, C, S, NC, CR), **UR**, **WS** (TK), **ES** (KR, IR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Syria, Israel, United Arab Emirates, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Bracon (Bracon) exhilarator** Nees, 1834 (*Bracon satanas* Wesmael, 1838; *B. tibialis* Zetterstedt, 1838; *B. striolatus* Thomson, 1892). Reported as a parasitoid of coleopterans from the genera *Apion* and *Omphalapion* (Apionidae), dipterans from the genera *Nanna* (Scathophagidae), *Plioreocepta* and *Urophora* (Tephritidae) and lepidopterans from the genus *Acleris* (Tortricidae). Russia: **EP** (N, NW, C, NC), **UR**, **ES** (IR, BR, YA), **FE** (KH, PR, SA, KU, KA, MG, CH). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Cyprus, Israel, Iran, Kazakhstan, Mongolia, China (NC), Korean Peninsula.
- Bracon (Bracon) flagellaris** Thomson, 1892 (*Bracon facialis* Thomson, 1892). Reported as a parasitoid of the coleopteran *Larinus onopordi* F. (Curculionidae). Russia: **EP** (without regions: Belokobylskij, Tobias, 2000), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey.
- Bracon (Bracon) flavipalpis** Thomson, 1892. Russia: **EP** (C). – Europe (NE, EE), Turkey, Iran.
- Bracon (Bracon) fulvipes** Nees, 1834 (*Bracon marshalli* Vayssiere, 1902; *B. parvus* Niezabitowski, 1910; *B. sylvanus* Greese, 1928). Reported as a parasitoid of coleopterans from 5 genera of Apionidae and Curculionidae,

- dipterans from the genera *Giraudiella* (Cecidomyiidae) and *Dasiopt* (Lonchaeidae), hymenopterans from the genera *Andricus*, *Biorhiza* (Cynipidae), *Tetramesa* (Eurytomidae) and *Pontania* (Tenthredinidae) and lepidopterans from the genera *Coleophora* (Coleophoridae) and *Paranthrene* (Sesiidae). Russia: **EP** (NW, C, E, S, NC), **WS** (AL), **ES** (BR, YA), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Georgia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Bracon (Bracon) fumatus** Szépligeti, 1901 (*Bracon brunneipennis* Szépligeti, 1901). Russia: **EP** (CR). – Europe (WE, SE, EE), Tunisia, Turkey, Cyprus, Israel, Kazakhstan.
- Bracon (Bracon) fumigidus** Szépligeti, 1901 (*Bracon lautus* Szépligeti, 1901; *B. semirugosus* Szépligeti, 1901). Reported as a parasitoid of the coleopteran *Plagionotus floralis* Pallas (Cerambycidae). Russia: **EP** (E, S, NC, CR), **UR**. – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Bracon (Bracon) fuscicoxis** Wesmael, 1838 (*Bracon levinatus* Niezabitowski, 1910). Reported as a parasitoid of the coleopteran *Prasocuris phellandrii* L. (Chrysomelidae). Russia: **EP** (C), **UR**, **ES** (IR). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula.
- Bracon (Bracon) grandiceps** Thomson, 1892 (*Bracon gallicus* Thomson, 1892). Reported as a parasitoid of the lepidopteran *Bembecia scopigera* Scop. (Sesiidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia.
- Bracon (Bracon) gusaricus** Telenga, 1933 (*Bracon depressus* Telenga, 1936; *B. pulcherrimus* Telenga, 1936). Russia: **EP** (NC), **FE** (PR). – Europe (WE, EE), Georgia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Uzbekistan.
- Bracon (Bracon) guttiger** Wesmael, 1838. Reported as a parasitoid of coleopterans from the genera *Gastrophysa*, *Hydrothassa*, *Phaedon* and *Phyllotreta* (Chrysomelidae) and lepidopterans from the genus *Coleophora* (Coleophoridae). Russia: **EP** (NW, C), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran, Mongolia.
- Bracon (Bracon) helleni** Telenga, 1936. Russia: **EP** (S), **ES** (BR, ZB), **FE** (PR, MG). – Europe (WE, EE), Turkey, Cyprus, Israel, Iran, Kazakhstan.
- Bracon (Bracon) hemiflavus** Szépligeti, 1901 (*Bracon turcmenus* Telenga, 1936). Reported as a parasitoid of the coleopterans *Larinus flavescens* Germ. and *Rhinocylus conicus* Fröl. (Curculionidae) and the lepidopteran *Gortyna xanthenes* Germ. (Noctuidae). Russia: **EP** (S, NC, CR). – Europe (WE, SE, EE), Azerbaijan, Turkey, Cyprus, Syria, Israel, Iran, Turkmenistan, Uzbekistan, Kazakhstan.
- Bracon (Bracon) hungaricus** (Szépligeti, 1896) [Pseudovipio] (*Bracon longiventris* Szépligeti, 1901; *Vipio xanthostigma* Kokujev, 1904). Reported as a parasitoid of the coleopteran *Clytus arietis* L. (Cerambycidae). Russia: **EP** (C, S, NC, CR). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkey, Kazakhstan, Mongolia.
- Bracon (Bracon) hylobii** Ratzeburg, 1848. Reported as a parasitoid of coleopterans from the genera *Hylobius*, *Pisodes* and *Polygraphus* (Curculionidae). Russia: **EP** (NW, C), **WS** (without regions: Tobias, 1986), **ES** (KR, YA, ZB), **FE** (PR, SA, CH). – Europe (WE, NE, SE, EE), Turkey.
- Bracon (Bracon) immutator** Nees, 1834 (*Bracon brevisculus* Wesmael, 1838; *B. efoveolatus* Thomson, 1892; *B. hemirugosus* Szépligeti, 1901; *B. efoveolatus romani* Fahringer, 1927; *B. maslovskii* Telenga, 1936). Reported as a parasitoid of coleopterans from 5 genera of Curculionidae, dipterans from the genus *Urophora* (Tephritidae), hymenopterans from the genera *Andricus*, *Biorhiza* (Cynipidae) and *Pontania* (Tenthredinidae) and lepidopterans from the genus *Pammene* (Tortricidae). Russia: **EP** (N, NW, C, E, S), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Turkey, Cyprus, Iran, Kazakhstan, Mongolia, Korean Peninsula.
- Bracon (Bracon) incitus** Papp, 1971 (*Bracon subinfernalis* Tobias, 1972). Russia: **ES** (ZB). – Mongolia.
- Bracon (Bracon) infernalis** Telenga, 1936. Russia: **EP** (NC). – Europe (SE), Armenia, Turkey, Cyprus, Kazakhstan, China (NE).
- Bracon (Bracon) intercessor** Nees, 1834 (*Bracon lativentris* Thomson, 1892; *B. fulvus* Szépligeti, 1896; *B. adjunctus* Szépligeti, 1901; *B. bisinuatus* Szépligeti, 1901; *B. dubiosus* Szépligeti, 1901; *B. duplicatus* Szépligeti, 1901; *B. elegans* Szépligeti, 1901; *B. fallaciosus* Szépligeti, 1901; *B. mixtus* Szépligeti, 1901; *B. mundus* Szépligeti, 1901; *B. nigropictus* Szépligeti, 1901; *B. nitidiusculus* Szépligeti, 1901; *B. rufiscapus* Szépligeti, 1901; *B. subtilis* Szépligeti, 1901; *B. suspectus* Szépligeti, 1901; *B. vigilax* Kokujev, 1912). Reported as a parasitoid of coleopterans from 9 genera of Apionidae, Cerambycidae, Curculionidae and Rhynchitidae, dipterans from the genus *Liriomyza* (Agromyzidae), hymenopterans from the genera *Tetramesa* (Eurytomidae) and *Pontania* (Tenthredinidae) and lepidopterans from 9 genera of 6 families. Russia: **EP** (C, E, S, NC, CR), **UR**, **ES** (IR, YA), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Canary Is, Morocco, Abkhazia, Azerbaijan, Turkey, Cyprus, Syria, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Bracon (Bracon) irkutensis** Telenga, 1936. Russia: **ES** (IR). – Turkey, Korean Peninsula.
- Bracon (Bracon) jakuticus** Tobias, 1961. Russia: **ES** (YA), **FE** (MG). – Turkey.
- Bracon (Bracon) jaroshevskiyi** Tobias, 1957. Russia: **EP** (S). – Europe (EE), Azerbaijan.
- Bracon (Bracon) jaroslavensis** Telenga, 1936 (*Bracon camelatus* Telenga, 1936). Russia: **EP** (N, C), **WS** (TK, AL), **FE** (PR, KA). – Europe (WE, SE, EE), Azerbaijan, Turkey.
- Bracon (Bracon) kasparyani** Samartsev, 2018. Russia: **FE** (AM, PR, SA, KU). – Japan (Hok).

- Bracon (Bracon) kotenkoi** Samartsev, 2018. Russia: **FE** (PR).
- Bracon (Bracon) kozak** Telenga, 1936. Russia: **EP** (S, NC), **UR**, **FE** (PR). – Europe (SE, EE), Azerbaijan, Turkey, Israel, Iran.
- Bracon (Bracon) kunashiricus** Tobias, 2000. Russia: **FE** (KU).
- Bracon (Bracon) larvicida** Wesmael, 1838 (*Bracon crassiusculus* Szépligeti, 1901). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia.
- Bracon (Bracon) laticeps** Telenga, 1936 (*Bracon moczari* Papp, 1969). Russia: **EP** (S, CR). – Europe (SE, EE), Turkey, Kazakhstan.
- Bracon (Bracon) leptus** Marshall, 1897 (*Bracon centaureae* Szépligeti, 1901; *B. rufipalpis* Szépligeti, 1901; *B. rufipredator* Szépligeti, 1901). Reported as a parasitoid of the lepidopteran *Metzneria lappella* L. (Gelechiidae). Russia: **EP** (C, E, S, NC, CR), **UR**, **ES** (KR, ZB), **FE** (PR, MG). – Europe (WE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NW).
- Bracon (Bracon) lividus** Telenga, 1936. Reported as a parasitoid of the hymenopteran *Pontania vesicator* Bremi-Wolf (Tenthredinidae). Russia: **EP** (S, NC). – Europe (WE, SE, EE), Armenia, Turkey, Israel, Iran.
- Bracon (Bracon) longicollis** Wesmael, 1838 (*Bracon fraudator* Marshall, 1885; *B. brevicauda* Thomson, 1892; *B. crassicauda* Thomson, 1892; *Baryproctus niger* Vojnovskaja-Krieger, 1929). Reported as a parasitoid of the dipteran *Chlorops pumilionis* Bjerk. (Chloropidae). Russia: **EP** (S, NC), **UR**, **WS** (without regions: Tobias, 1986), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Afghanistan, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia, China (CC, SW, SE), Korean Peninsula.
- Bracon (Bracon) longigenis** Tobias, 1957. Russia: **EP** (E, NC, CR). – Turkey, Israel.
- Bracon (Bracon) longithorax** Tobias, 1961. Russia: **ES** (KR, ZB). – Mongolia.
- Bracon (Bracon) longulus** Thomson, 1892 (*Bracon planninotus* Tobias, 1957). Reported as a parasitoid of the dipteran *Melanagromyza aenea* Mg. (Agromyzidae). Russia: **EP** (NW, E, S, NC). – Europe (WE, NE, SE, EE), Turkey, Cyprus, Israel, Iran, Kazakhstan.
- Bracon (Bracon) luteator** Spinola, 1808 (*Bracon nigripedator* Nees, 1834; *B. hypopygialis* Szépligeti, 1901; *B. intermedius* Szépligeti, 1901; *B. pilosulus* Szépligeti, 1901). Reported as a parasitoid of dipterans from the genera *Acanthiophilus* and *Urophora* (Tephritidae) and lepidopterans from the genus *Metzneria* (Gelechiidae). Russia: **EP** (C, E, S, NC, CR), **UR**, **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Azerbaijan, Turkey, Cyprus, Syria, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Bracon (Bracon) mariae** Dalla Torre, 1898 (*Bracon semiflavus* Thomson, 1892, nom. praeocc., nec Brullé, 1846; *B. pygidialis* Szépligeti, 1901). Reported as a parasitoid of the dipteran *Phasia rufiventris* Mcq. (Tachinidae). Russia: **EP** (NC, CR). – Europe (WE, NE, SE, EE), Tunisia, Armenia, Azerbaijan, Turkey, Israel, Iran, Kazakhstan.
- Bracon (Bracon) marshalli** Szépligeti, 1901. Reported as a parasitoid of lepidopterans from the genera *Phaulernis* (Epermeniidae) and *Homoeosoma* (Pyrilidae). Russia: **EP** (NW), **WS** (AL). – Europe (WE, NE, SE, EE), Azerbaijan, Cyprus, Israel, Iran, Tajikistan, Kazakhstan, Mongolia.
- Bracon (Bracon) mediator** Nees, 1834. Reported as a parasitoid of lepidopterans from 5 genera of Sesiidae. Russia: **EP** (C, NC). – Europe (WE, NE, EE).
- Bracon (Bracon) meyeri** Telenga, 1936 (*Bracon consternatus* Papp, 1971). Russia: **ES** (YA). – Europe (EE), Turkey, Iran, Uzbekistan, Kazakhstan, Mongolia.
- Bracon (Bracon) minutator** (Fabricius, 1798) [Ichneumon] (*Bracon thalassinus* Schmiedeknecht, 1897; *B. tener* Szépligeti, 1904; *B. rufigaster notatus* Telenga, 1936). Reported as a parasitoid of coleopterans from the genus *Anthonomus* (Curculionidae), dipterans from 6 genera of Chloropidae and Tephritidae, hymenopterans from the genus *Cephus* (Cephididae) and lepidopterans from 13 genera of 6 families. Russia: **EP** (without regions: Belokobylskij, Tobias, 2000), **UR**, **ES** (without regions: Tobias, 1986). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Armenia, Azerbaijan, Turkey, Cyprus, Jordan, Israel, Iran, Kazakhstan, Mongolia, Japan (Hok).
- Bracon (Bracon) nigratus** Wesmael, 1838 (*Bracon orbicularis* Niezabitowski, 1910). Reported as a parasitoid of dipterans from the genus *Chaetostomella* (Tephritidae) and lepidopterans from the genera *Coleophora* (Coleophoridae), *Grapholita* (Tortricidae) and *Zygaena* (Zygaenidae). Russia: **EP** (N, CR), **UR**, **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Iran.
- Bracon (Bracon) nigripilosus** Tobias, 1957. Russia: **EP** (S). – Turkey, Iran.
- Bracon (Bracon) nigriiventris** Wesmael, 1838 (*Bracon palpebrator* Ratzeburg, 1844). Reported as a parasitoid of coleopterans from 11 genera of Cerambycidae and Curculionidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia.
- Bracon (Bracon) nigropterus** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Bracon) nomas** Tobias, 1961. Russia: **EP** (without regions: Tobias, 1976a), **FE** (SA). – Kazakhstan.
- Bracon (Bracon) novus** Szépligeti, 1901. Russia: **EP** (E, S). – Europe (WE, SE, EE).
- Bracon (Bracon) obscurator** Nees, 1811. Reported as a parasitoid of coleopterans from 5 genera of Buprestidae and Curculionidae, dipterans from the genera *Cheilosia* (Syrphidae), *Phasia* (Tachinidae) and *Tephritis* (Tephritidae), hymenopterans from the genus *Hartigia* (Cephididae) and lepidopterans from 7 genera of Coleophoridae,

- Epermeniidae, Pyralidae, Tineidae and Tortricidae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (AL), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Tajikistan, Kazakhstan, Mongolia, China (NC), Korean Peninsula.
- Bracon (Bracon) obscuricornis** Szépligeti, 1896. Russia: **EP** (CR). – Europe (SE, EE), Tunisia, Turkey, Israel.
- Bracon (Bracon) ovoides** Telenga, 1936 (*Bracon shestakovi* Telenga, 1936). Russia: **EP** (E). – Turkmenistan, Uzbekistan, Kazakhstan.
- Bracon (Bracon) pallicarpus** Thomson, 1892. Russia: **EP** (N). – Europe (WE, NE, SE, EE), Kazakhstan.
- Bracon (Bracon) partizan** Tobias, 2000. Russia: **FE** (KH, PR).
- Bracon (Bracon) parvicornis** Thomson, 1892. Russia: **EP** (C, S). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, Mongolia.
- Bracon (Bracon) parvulus** Wesmael, 1838 (*Bracon fumipennis* Thomson, 1892; *B. fuscipennis* Thomson, 1892). Reported as a parasitoid of dipterans from 5 genera of Agromyzidae, Cecidomyiidae and Tephritidae. Russia: **EP** (N, NW, C, S), **WS** (KM, AL), **ES** (IR), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Abkhazia, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, China (NE, CC, SE).
- Bracon (Bracon) pectoralis** Wesmael, 1838 (*Bracon ochrosus* Szépligeti, 1896; *B. sulphurator* Szépligeti, 1896). Reported as a parasitoid of coleopterans from the genera *Larinus* (Curculionidae) and *Tatianaerhynchites* (Rhynchitidae), dipterans from the genus *Xyphosia* (Tephritidae), hymenopterans from the genus *Aphelonyx* (Cynipidae) and lepidopterans from the genera *Alucita* (Alucitidae), *Sitotroga* (Gelechiidae), *Etiella* (Pyralidae) and *Aethes* (Tortricidae). Russia: **EP** (C, S, NC, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Canary Is, Algeria, Tunisia, Egypt, Georgia, Azerbaijan, Turkey, Cyprus, Syria, Jordan, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan.
- Bracon (Bracon) peroculatus** Wesmael, 1838. Reported as a parasitoid of the lepidopteran *Cnephasia chrysanthæana* Dup. (Tortricidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE).
- Bracon (Bracon) persimilis** Telenga, 1936. Russia: **EP** (NC). – Mongolia.
- Bracon (Bracon) persimiloides** Papp, 1984 (*Bracon persimilis* Papp, 1971, nom. praeocc., nec Telenga, 1936). Russia: **ES** (ZB). – Mongolia.
- Bracon (Bracon) picticornis** Wesmael, 1838 (*Bracon gallearum* Ratzeburg, 1852; *B. laevigatus* Ratzeburg, 1852; *B. vitripennis* Ratzeburg, 1852; *B. versicolor* Szépligeti, 1901). Reported as a parasitoid of coleopterans from the genera *Plagionotus* (Cerambycidae) and *Archarius* (Curculionidae), dipterans from the genera *Melanogromyza* (Agromyzidae), *Rabdophaga* (Cecidomyiidae) and *Euphranta* (Tephritidae), hymenopterans from the genera *Euura*, *Nematus* and *Pontania* (Tenthredinidae) and lepidopterans from the genera *Adoxophyes*, *Cochylis*, *Hedya* and *Rhopobota* (Tortricidae). Russia: **EP** (C, S, NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Kazakhstan, Mongolia, China (SW, SE), Korean Peninsula.
- Bracon (Bracon) pineti** Thomson, 1892. Reported as a parasitoid of coleopterans from the genus *Ernobius* (Anobiidae) and lepidopterans from the genera *Thera* (Geometridae), *Cydia* and *Retinia* (Tortricidae). Russia: **EP** (N, C), **UR**, **ES** (IR, YA, ZB), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Kazakhstan.
- Bracon (Bracon) pliginskii** Telenga, 1936. Reported as a parasitoid of the coleopteran *Baris morio* Boh. (Curculionidae). Russia: **EP** (CR). – Europe (WE, SE, EE), Georgia, Armenia, Turkey, Israel.
- Bracon (Bracon) plugarui** Tobias, 1986. Reported as a parasitoid of the lepidopteran *Spilonota ocellana* Den. et Schiff. (Tortricidae). Russia: **EP** (without regions: Belokobylskij, Tobias, 2000), **FE** (KH, PR). – Europe (EE).
- Bracon (Bracon) popovi** Telenga, 1936 (*Bracon prodigosus* Papp, 1971). Russia: **EP** (C, S), **UR**. – Europe (SE, EE), Armenia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Turkmenistan, Kazakhstan, Mongolia.
- Bracon (Bracon) praecox** Wesmael, 1838 (*Bracon semiluteus* Walker, 1874). Reported as a parasitoid of coleopterans from the genera *Miarus* and *Pissodes* (Curculionidae), dipterans from the genus *Tephritis* (Tephritidae), hymenopterans from the genus *Hoplocampa* (Tenthredinidae) and lepidopterans from the genera *Coleophora* (Coleophoridae) and *Gravitar mata* (Tortricidae). Russia: **EP** (NW, C, S, NC, CR), **ES** (BR), **FE** (PR). – Europe (WE, NE, SE, EE), Algeria, Azerbaijan, Turkey, Cyprus, Iraq, Jordan, Israel, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia, China (NW), Japan.
- Bracon (Bracon) praestans** Tobias, 1957. Russia: **EP** (S). – Europe (SE, EE), Azerbaijan, Iran, Turkmenistan.
- Bracon (Bracon) pulcher** Bengtsson, 1924. Reported as a parasitoid of lepidopterans from the genera *Metzneria* (Gelechiidae) and *Argyresthia* (Yponomeutidae). Russia: **EP** (E, S). – Europe (WE, NE, EE), Israel.
- Bracon (Bracon) punctifer** Thomson, 1892 (*Bracon kaszabi* Papp, 1967). Russia: **EP** (without regions: Belokobylskij, Tobias, 2000), **ES** (ZB). – Europe (WE, NE, EE), Turkey, Mongolia.
- Bracon (Bracon) quadrisulcatus** Tobias, 2000. Russia: **ES** (BR).
- Bracon (Bracon) querceus** Tobias, 1986. Russia: **EP** (C). – Turkey.
- Bracon (Bracon) radiatus** Tobias, 1957. Russia: **FE** (PR). – Turkey, Tajikistan.
- Bracon (Bracon) saltator** Telenga, 1936. Russia: **FE** (KH, PR).
- Bracon (Bracon) santachezæ** Samartsev, 2018. Russia: **FE** (PR).

- Bracon (Bracon) sculptithorax** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Bracon) segregatus** Telenga, 1936. Russia: **ES** (KR).
- Bracon (Bracon) semitergalis** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Bracon) semitus** Kostromina, 2013. Russia: **UR**.
- Bracon (Bracon) shestakoviellus** Tobias, 1957. Russia: **EP** (E), **ES** (BR). – Kazakhstan.
- Bracon (Bracon) spasskensis** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Bracon) sphaerocephalus** Szépligeti, 1901 (*Bracon globiceps* Szépligeti, 1901). Reported as a parasitoid of the coleopterans *Cleonis pigra* Scop. and *Rhabdorrhynchus seriegranosus* Chev. (Curculionidae) and the lepidopteran *Eteobalea serratella* Tr. (Cosmopterigidae). Russia: **FE** (PR). – Europe (WE, SE, EE), Turkey, Iran, Mongolia.
- Bracon (Bracon) steppecola** Tobias, 2000. Russia: **ES** (ZB).
- Bracon (Bracon) subcylindricus** Wesmael, 1838 (*Bracon rugulosus* Szépligeti, 1901; *B. depressiusculus* Szépligeti, 1904; *B. kiritshenkoi* Telenga, 1936; *B. spurnensis* Hincks, 1951; *B. procerus* Papp, 1965). Russia: **EP** (S, NC), **UR**. – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kazakhstan.
- Bracon (Bracon) subfacialis** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Bracon) sublongicollis** Tobias, 2000. Russia: **ES** (KR).
- Bracon (Bracon) subrugosus** Szépligeti, 1901 (*Bracon sulcatulus* Szépligeti, 1896, suppressed synonym (Papp, 2008); *B. quinque maculatus* Szépligeti, 1901; *B. subglaber* Szépligeti, 1901; *B. trypetanus* Fahringer, 1927; *B. tauricus* Telenga, 1936). Reported as a parasitoid of coleopterans from the genera *Ceutorhynchus* and *Microplontus* (Curculionidae), dipterans from 6 genera of Tachinidae and Tephritidae and lepidopterans from 6 genera of Gelechiidae, Psychidae, Sesiidae and Tortricidae. Russia: **EP** (NW, C, E, NC, CR), **UR**, **ES** (without regions: Telenga, 1936), **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Turkey, Israel, Iran, Uzbekistan, Kazakhstan.
- Bracon (Bracon) suchorukovi** Telenga, 1936 (*Bracon dobrovolskii* Telenga, 1936). Russia: **EP** (S), **WS** (TK), **FE** (PR). – Europe (WE, NE, EE), Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia.
- Bracon (Bracon) tenuicornis** Wesmael, 1838. Reported as a parasitoid of the coleopteran *Phloeotribus scarabaeoides* Bernard (Curculionidae). Russia: **EP** (without regions: Belokobyl'skij, Tobias, 2000), **WS** (AL), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Kazakhstan.
- Bracon (Bracon) terebella** Wesmael, 1838. Reported as a parasitoid of coleopterans from the genera *Cionus* and *Miarus* (Curculionidae) and hymenopterans from the genera *Cephus* and *Trachelus* (Cepidae). Russia: **EP** (C, NC, CR), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Algeria, Armenia, Azerbaijan, Turkey, Cyprus, Syria, Israel, Korean Peninsula, USA.
- Bracon (Bracon) terebralis** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Bracon) tergalis** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Bracon) titubans** Wesmael, 1838 (*Bracon fuscipennis* Wesmael, 1838; *B. tarsator* Thomson, 1892; *B. terebrator* Szépligeti, 1901). Reported as a parasitoid of the coleopterans *Gastrophysa polygoni* L., *G. viridula* Deg. and *Plagioderia versicolora* Laich. (Chrysomelidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Afghanistan, Mongolia, Korean Peninsula.
- Bracon (Bracon) transbaicalicus** Telenga, 1936. Russia: **ES** (ZB). – Mongolia.
- Bracon (Bracon) triangularis** Nees, 1834. Reported as a parasitoid of lepidopterans from the genera *Paranthrene*, *Pennisetia* and *Synanthedon* (Sesiidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Bracon (Bracon) trucidator** Marshall, 1888 (*Bracon bilineatus* Thomson, 1892; *B. hilaris* Marshall, 1897; *B. panonicus* Szépligeti, 1904). Reported as a parasitoid of coleopterans from the genus *Microplontus* (Curculionidae), dipterans from the genera *Myopites* and *Urophora* (Tephritidae) and lepidopterans from the genera *Metzneria* (Gelechiidae) and *Homoeosoma* (Pylalidae). Russia: **EP** (C, E, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Tajikistan, Kazakhstan.
- Bracon (Bracon) tschitscherini** Kokujev, 1904. Reported as a parasitoid of the coleopteran *Larinus filiformis* Petri (Curculionidae). Russia: **EP** (E, S, NC). – Europe (SE, EE), Azerbaijan, Turkey, Cyprus, Israel, Iran, Turkmenistan, Tajikistan, Kyrgyzstan, Kazakhstan.
- Bracon (Bracon) tshutshur** Tobias, 2000. Russia: **ES** (YA).
- Bracon (Bracon) tundracola** Tobias, 2000. Russia: **FE** (KA).
- Bracon (Bracon) ussuricus** Tobias, 2000. Russia: **FE** (PR, SA). – Japan (Hon).
- Bracon (Bracon) variator** Nees, 1811 (*Bracon guttator* Panzer, 1804, nomen oblitum; *B. rimulator* Nees, 1834; *B. hemiflavus meridionalis* Telenga, 1936; *B. maculiger asiaticus* Telenga, 1949). Reported as a parasitoid of coleopterans from 18 genera of Anobiidae, Chrysomelidae and Curculionidae, dipterans from 7 genera of Anthomyiidae, Cecidomyiidae and Tephritidae, hymenopterans from the genera *Caliroa* and *Hoplocampa* (Tenthredinidae) and lepidopterans from 25 genera of 11 families. Russia: **EP** (NW, C, E, S, CR), **UR**, **WS** (TK), **ES** (BR, ZB), **FE** (AM, KH, PR, SA, KU, KA, CH). – Europe (WE, NE, SE, EE), Canary Is, Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Syria, Jordan, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Bracon (Bracon) variegator** Spinola, 1808 (*Bracon melanosome* Szépligeti, 1901; *B. micros* Szépligeti, 1901; *B. nanulus* Szépligeti, 1901). Reported as a parasitoid of coleopterans from the genus *Ernobius* (Anobiidae) and lepidopterans from 15 genera of 9 families. Russia: **EP** (C, S, NC, CR), **UR**, **ES** (KR), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia,

- Azerbaijan, Turkey, Cyprus, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NC, SE), Korean Peninsula, New Zealand.
- Bracon (Bracon) xanthocornis** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Cyanopterobracon) fallax** Szépligeti, 1901 (*Bracon falsus* Kokujev, 1913; *B. olgae* Telenga, 1936; *B. oculatus* Tobias, 1957). Russia: **EP** (S, CR), **UR**. – Europe (SE, EE), Morocco, Georgia, Turkey, Cyprus, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Bracon (Cyanopterobracon) illyricus** Marshall, 1888 (*Bracon uromelas* Costa, 1888; *B. xanthogaster* Kriechbaumer, 1890; *B. mauritanicus* Schmiedeknecht, 1897). Reported as a parasitoid of the coleopterans *Lachnaeus horridus* Rtt. and *Larinus turbinatus* Gyll. (Curculionidae) and the lepidopteran *Agonopterix ferulae* Z. (Depressariidae). Russia: **EP** (CR), **UR**, **WS** (AL). – Europe (WE, SE, EE), Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Uzbekistan.
- Bracon (Cyanopterobracon) sabulosus** Szépligeti, 1896 (*Iphiaulax turkestanum* Fahringer, 1934). Russia: **EP** (S, NC, CR). – Europe (SE, EE), Azerbaijan, Turkey, Cyprus, Jordan, Iran, Central Asia, Kazakhstan.
- Bracon (Foveobracon) megapterus** Wesmael, 1838 (*Bracon biimpressus* Telenga, 1936). Reported as a parasitoid of the coleopteran *Glaphyra umbellatarum* Schreber (Cerambycidae) and the lepidopterans *Achlya flavicornis* L. and *Polyplocia ridens* F. (Drepanidae). Russia: **EP** (N), **UR**, **WS** (AL). – Europe (WE, NE, SE, EE), Israel, Uzbekistan, Mongolia, China (SE).
- Bracon (Habrobracon) brevicornis** Wesmael, 1838. Reported as a parasitoid of lepidopterans from 37 genera of 13 families. Russia: **EP** (NC, CR). – Europe (WE, SE, EE), Canary Is, Morocco, Algeria, Egypt, Abkhazia, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Syria, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, China (NE, NC, CC, SW, WP, SE), Mexico, India, Sudan, Mauritius, South Africa, Lesotho.
- Bracon (Habrobracon) concolorans** Marshall, 1900 (*Bracon concolor* Thomson, 1892, nom. praeocc., nec Walker, 1871). Reported as a parasitoid of coleopterans from the genus *Ernobius* (Anobiidae) and lepidopterans from the genera *Tuta* (Gelechiidae), *Ephestia* (Pyralidae) and *Cydia* (Tortricidae). Russia: **EP** (NW). – Europe (NE, SE, EE), Tunisia, Turkey, Jordan, Israel, Iran, Turkmenistan.
- Bracon (Habrobracon) excisus** (Tobias, 1957) [Habrobracon]. Russia: **EP** (without regions: Tobias, 1976a). – Kazakhstan, Mongolia.
- Bracon (Habrobracon) hebetor** Say, 1836 (*Bracon dorsator* Say, 1836; *B. juglandis* Ashmead, 1889; *Habrobracon brunneus* Szépligeti, 1901; *H. vernalis* Szépligeti, 1901; *H. beneficentior* Viereck, 1911; *H. plotnicovi* Bogoljubov, 1914; *Bracon breviantennatus* de Stefani, 1919; *Microbracon serinopae* Cherian, 1929; *Habrobracon tortricidarum* Goidanich, 1934; *H. pectinophorae* Watanabe, 1935; *H. flavus* Telenga, 1936; *H. hebetor asiaticus* Telenga, 1936; *H. turkestanicus* Telenga, 1936; *H. lozinskii* Bogacev, 1939). Reported as a parasitoid of coleopterans from the genera *Caryedon* (Chrysomelidae), *Leucinodes* (Crambidae) and *Anthonomus* (Curculionidae), dipterans from the genus *Terellia* (Tephritidae), hymenopterans from the genus *Andricus* (Cynipidae) and lepidopterans from 65 genera of 15 families. Russia: **EP** (NW, C, E, S, NC). – Europe (WE, NE, SE, EE), Azores, Madeira Is, Canary Is, Morocco, Algeria, Tunisia, Egypt, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Iraq, Israel, Saudi Arabia, Iran, Afghanistan, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan (Hon), USA, Mexico, India, Sri Lanka, Bangladesh, SE Asia, Cape Verde Is, Senegal, Niger, Sudan, Nigeria, Mozambique, Botswana, South Africa, Cuba, Jamaica, Puerto Rico, S America, Australia, New Zealand.
- Bracon (Habrobracon) marshakovi** Tobias, 2000. Russia: **ES** (ZB), **FE** (MG).
- Bracon (Habrobracon) nigricans** (Szépligeti, 1901) [Habrobracon] (*Habrobracon mongolicus* Telenga, 1936). Reported as a parasitoid of lepidopterans from 5 genera of Crambidae, Gelechiidae, Pyralidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC), **UR**, **ES** (TU), **FE** (KH, PR, SA, CH). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NC, NW, WP, SE).
- Bracon (Habrobracon) nygmiae** (Telenga, 1936) [Habrobracon]. Reported as a parasitoid of lepidopterans from the genera *Euproctis* (Erebidae) and *Malacosoma* (Lasiocampidae). Russia: **EP** (S). – Europe (WE, EE), Armenia, Turkey.
- Bracon (Habrobracon) ponticus** Tobias, 1986. Russia: **EP** (NC, CR). – Europe (SE, EE), Turkey.
- Bracon (Habrobracon) radialis** (Telenga, 1936) [Habrobracon]. Reported as a parasitoid of the lepidopteran *Plutella xylostella* L. (Plutellidae). Russia: **EP** (NC). – Europe (WE, SE, EE), Tunisia, Turkey, Iran, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.
- Bracon (Habrobracon) stabilis** Wesmael, 1838. Reported as a parasitoid of coleopterans from 5 genera of Anobiidae, Curculionidae and Dermestidae, dipterans from the genera *Chaetostomella* and *Noeeta* (Tephritidae) and lepidopterans from 22 genera of 8 families. Russia: **EP** (NW, C, CR), **WS** (KM), **ES** (IR, BR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Tunisia, Armenia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Kazakhstan, China (NW, SE), Canada.
- Bracon (Habrobracon) telengai** (Mulyarskaya, 1955) [Habrobracon]. Reported as a parasitoid of coleopterans from the genera *Anthaxia*, *Sphenoptera* (Buprestidae), *Chaetoptelius* and *Scolytus* (Curculionidae) and lepidopterans from the genera *Pexicopia* (Gelechiidae),

- Gypsonoma*, *Pandemis* and *Spilonota* (Tortricidae). Russia: **EP** (S). – Europe (WE, EE), Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan.
- Bracon (Habrobracon) viktorovi** (Tobias, 1961) [Habrobracon]. Russia: **EP** (S). – Europe (SE, EE), Turkey, Cyprus, Korean Peninsula.
- Bracon (Ophthalmobracon) ophtalmicus** Telenga, 1933. Reported as a parasitoid of lepidopterans from the genera *Amblypalpis*, *Pexicopia* and *Schneidereria* (Gelechiidae). Russia: **EP** (S). – Armenia, Azerbaijan, Israel, Iran, Central Asia, Kazakhstan, Mongolia.
- Bracon (Orientobracon) leleji** Tobias, 2000. Russia: **FE** (SA, KU). – Japan (Hon, Kyu).
- Bracon (Osculobracon) bilgini** Beyarslan, 2002. Russia: **EP** (S). – Turkey, Iran.
- Bracon (Osculobracon) cingillus** Tobias, 2000. Russia: **FE** (PR). – Japan (Hok, Hon).
- Bracon (Osculobracon) cingulator** Szépligeti, 1901. Russia: **EP** (E, S, NC), **UR**. – Europe (WE, NE, SE, EE), Tunisia, Turkey, Turkmenistan, China (NC), Korean Peninsula.
- Bracon (Osculobracon) ciscaucasicus** Telenga, 1936. Russia: **EP** (S, NC, CR). – Europe (EE), Azerbaijan, Turkey, Iran, Kyrgyzstan, Kazakhstan, Mongolia.
- Bracon (Osculobracon) koreanus** Papp, 1998. Russia: **FE** (KU). – Korean Peninsula.
- Bracon (Osculobracon) osculator** Nees, 1811 (*Bracon bisignatus* Wesmael, 1838; *B. degenerator* Marshall, 1885; *B. coniferarum* Fahringer, 1928; *B. venustus* Telenga, 1936). Reported as a parasitoid of lepidopterans from 11 genera of 8 families. Russia: **EP** (N, C, S, NC, CR), **UR**, **WS** (KM), **ES** (IR, BR, ZB), **FE** (KH, PR, SA, KA, CH). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Iraq, Israel, Iran, Afghanistan, Uzbekistan, Kazakhstan, Mongolia, China (NE, NC, SE), Korean Peninsula.
- Bracon (Osculobracon) subcingillus** Tobias, 2000. Russia: **FE** (PR).
- Bracon (Palpiobracon) atrator** Nees, 1834 (*Bracon longicauda* Thomson, 1892). Reported as a parasitoid of coleopterans from the genera *Gymnetron*, *Miarus* and *Rhinusa* (Curculionidae), dipterans from the genera *Amauromyza* (Agromyzidae) and *Tephritis* (Tephritidae) and lepidopterans from the genus *Coleophora* (Coleophoridae). Russia: **EP** (NW, C, S, NC), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Kazakhstan, Mongolia.
- Bracon (Palpiobracon) delibator** Haliday, 1833 (*Bracon anthracinus* Nees, 1834). Reported as a parasitoid of coleopterans from the genera *Hylobius*, *Miarus* (Curculionidae) and *Olibrus* (Phalacridae), dipterans from the genus *Urophora* (Tephritidae) and lepidopterans from the genus *Cydia* (Tortricidae). Russia: **EP** (NW, C, S, NC, CR), **UR**, **ES** (KR, BR), **FE** (PR). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Armenia, Azerbaijan, Turkey, Cyprus, Syria, Israel, Iran, Turkmenistan, Kazakhstan, Mongolia, Korean Peninsula.
- Bracon (Palpiobracon) mongolicus** Telenga, 1936. Russia: **EP** (S, NC). – Europe (EE), Turkey, Tajikistan, Kazakhstan, Mongolia, China (NW).
- Bracon (Pigeria) piger** Wesmael, 1838 (*Bracon rotundatus* Szépligeti, 1901; *B. explorator* Szépligeti, 1904; *B. rotundulus* Szépligeti, 1904; *B. collaris* Telenga, 1936; *B. ornatus* Telenga, 1936; *B. breviseta* Hedwig, 1961). Reported as a parasitoid of coleopterans from the genera *Magdalis* and *Pissodes* (Curculionidae), hymenopterans from the genus *Hoplocampa* (Tenthredinidae) and lepidopterans from the genera *Heliothis* (Noctuidae), *Etiella* (Pyralidae), *Cnephasia* and *Cydia* (Tortricidae). Russia: **EP** (C, E, S, NC, CR), **UR**, **ES** (BR), **FE** (PR). – Europe (WE, SE, EE), Canary Is, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Cyprus, Lebanon, Israel, Iran, Turkmenistan, Kazakhstan, Mongolia, China (NW), USA.
- Bracon (Rostrobracon) urinator** (Fabricius, 1798) [Ichneumon] (*Ichneumon cuspidator* Rossi, 1792; *Bracon comptus* Marshall, 1897). Reported as a parasitoid of coleopterans from the genera *Larinus*, *Lixus* and *Rhinocyllus* (Curculionidae) and dipterans from the genera *Protearomyia* (Lonchaeidae) and *Tephritis* (Tephritidae). Russia: **EP** (NW, S, NC, CR), **UR**, **ES** (BR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Canary Is, Algeria, Tunisia, Egypt, Abkhazia, Georgia, Azerbaijan, Turkey, Cyprus, Syria, Israel, Saudi Arabia, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE, NC, CC), India.
- Bracon (Sculptobracon) yakui** Watanabe, 1937 (*Bracon burjaticus* Tobias, 1961). Reported as a parasitoid of the lepidopteran *Clostera anastomosis* L. (Notodontidae). Russia: **EP** (without regions: Belokobylskij, Tobias, 2000), **ES** (BR), **FE** (PR). – China (NC, CC), Korean Peninsula, Japan (Hok).
- COELOIDES** Wesmael, 1838 (*Syntomomelus* Kokujev, 1902; *Habrobraconidea* Viereck, 1912; *Coeloidina* Viereck, 1922; *Cerobracon* Viereck, 1926). Type species: *Coeloides scolyticida* Wesmael, 1838. Distributed in the Holarctic, Oriental and Neotropical regions. Number of species: World – 29, Palearctic – 16, Russia – 11.
- Coeloides (Coeloides) abdominalis** (Zetterstedt, 1838) [Bracon]. Reported as a parasitoid of coleopterans from 10 genera of Buprestidae, Cerambycidae and Curculionidae, dipterans from the genus *Lipara* (Chloropidae) and lepidopterans from the genus *Epinotia* (Tortricidae). Russia: **EP** (N, NW, C, E), **UR**, **WS** (without regions: Belokobylskij, Tobias, 2000), **ES** (IR), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Armenia, Turkey, China (NE, NC), Korean Peninsula, Japan (Hok).
- Coeloides (Coeloides) bostrichorum** Giraud, 1872. Reported as a parasitoid of coleopterans from 9 genera of Curculionidae. Russia: **EP** (E), **UR**, **WS** (without regions:

- Tobias, 1976a), **ES** (TU, YA), **FE** (KH, PR, SA, MG, CH). – Europe (WE, NE, SE, EE), Iran, Mongolia, China (NE, NC), Japan (Hok).
- Coeloides (Coeloides) filiformis** Ratzeburg, 1852. Reported as a parasitoid of coleopterans from the genera *Hylesinus*, *Phloeotribus* and *Pissodes* (Curculionidae). Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Egypt.
- Coeloides (Coeloides) forsteri** Haeselbarth, 1967. Reported as a parasitoid of coleopterans from the genera *Ips* and *Pissodes* (Curculionidae). Russia: **EP** (NC). – Europe (WE, NE, EE), Georgia, Turkey.
- Coeloides (Coeloides) japonicus** Watanabe, 1958. Reported as a parasitoid of the coleopteran *Hylesinus* sp. (Curculionidae). Russia: **FE** (PR). – Japan (Hok).
- Coeloides (Coeloides) melanotus** Wesmael, 1838. Reported as a parasitoid of coleopterans from 5 genera of Curculionidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Armenia.
- Coeloides (Coeloides) qinlingensis** Dang et Yang, 1989. Reported as a parasitoid of coleopterans from the genera *Dendroctonus*, *Ips* and *Tomicus* (Curculionidae). Russia: **FE** (PR). – China (NC, SW).
- Coeloides (Coeloides) scolyticida** Wesmael, 1838 (*Bracon initiatellus* Ratzeburg, 1848). Reported as a parasitoid of coleopterans from 7 genera of Buprestidae and Curculionidae. Russia: **EP** (NW, C), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Kazakhstan, Korean Peninsula, Japan (Hok), India.
- Coeloides (Coeloides) sordidator** (Ratzeburg, 1844) [Bracon] (*Coeloides scolyticida melanostigma* Strand, 1918; *C. stigmaticus* Hellén, 1927). Reported as a parasitoid of coleopterans from 9 genera of Buprestidae, Cerambycidae and Curculionidae and dipterans from the genus *Lipara* (Chloropidae). Russia: **EP** (N, NW, C, E, NC), **UR**, **WS** (without regions: Tobias, Jakimavicius, 1973), **ES** (BR, YA). – Europe (WE, NE, SE, EE), Turkey.
- Coeloides (Coeloides) unguicularis** Thomson, 1892. Reported as a parasitoid of coleopterans from the genera *Dryophilus* (Anobiidae), *Hylurgops*, *Ips* and *Scolytus* (Curculionidae). Russia: **EP** (NW, C), **UR**, **WS** (without regions: Tobias, 1976a), **ES** (BR, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, EE), China (NE, NC), Japan (Hok).
- Coeloides (Syntomomelus) rossicus** (Kokujev, 1902) [Syntomomelus]. Reported as a parasitoid of coleopterans from the genus *Agrilus* (Buprestidae) and hymenopterans from the genus *Xiphydria* (Xiphydriidae). Russia: **EP** (NW, C), **UR**, **WS** (TK), **ES** (BR), **FE** (AM, KH, PR, KA). – Europe (WE, NE, EE), Iran, Afghanistan, Kazakhstan.
- CRASPEDOLCUS** Enderlein, 1920. Type species: *Craspedolcus trisulcatus* Enderlein, 1920. Distributed in the Palearctic, Oriental and Australasian regions. Number of species: World – 12, Palearctic and Russia – 1.
- Craspedolcus kurentzovi** (Belokobylskij, 1986) [Ipobracon]. Russia: **FE** (PR). – Japan (Shi).
- CYANOPTERUS** Haliday, 1835 (*Bracambus* Thomson, 1892; *Ipobracon* Thomson, 1892; *Cyanopteridea* Viereck, 1911; *Atanycolimorpha* Viereck, 1913; *Coeloidimorpha* Viereck, 1913; *Hemiatanycolus* Fahringer, 1926; *Notaulobracon* Fahringer, 1929; *Paravipio* Papp, 1967). Type species: *Ichneumon flavator* Fabricius, 1793. Cosmopolitan. Number of species: World – 137 (1 fossil), Palearctic – 24 (1 fossil), Russia – 14.
- Cyanopterus (Cyanopterus) flavator** (Fabricius, 1793) [Ichneumon] (*Bracon flavulator* Ratzeburg, 1844; *B. longipalpis* Thomson, 1892; *Coeloides barcinonensis* Marshall, 1897). Reported as a parasitoid of coleopterans from 11 genera of Bostrichidae and Cerambycidae and dipterans from the genus *Sphenella* (Tephritidae). Russia: **EP** (N, S), **UR**, **WS** (without regions: Tobias, 1986), **ES** (YA, ZB), **FE** (AM, KH, PR, MG). – Europe (WE, NE, SE, EE), Canary Is, Morocco, Algeria, Tunisia, Cyprus, Syria, Israel, Kazakhstan, Korean Peninsula, Japan (Hok).
- Cyanopterus (Ipobracon) anuphrievi** (Tobias et Abdinbekova, 1973) [Ipobracon]. Russia: **ES** (ZB), **FE** (KH, PR). – Mongolia.
- Cyanopterus (Ipobracon) curvatus** (Telenga, 1936) [Ipobracon]. Russia: **EP** (E), **UR**, **ES** (IR), **FE** (PR). – Europe (EE).
- Cyanopterus (Ipobracon) extricator** (Nees, 1834) [Bracon] (*Bracon brevicauda* Thomson, 1892; *Ipobracon brachyurus* Telenga, 1936). Reported as a parasitoid of coleopterans from the genera *Pogonocherus*, *Ropalopus* (Cerambycidae), *Orthotomicus* and *Pissodes* (Curculionidae) and lepidopterans from the genus *Paranthrene* (Sesiidae). Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), Algeria, Georgia, Mongolia.
- Cyanopterus (Ipobracon) konowii** (Marshall, 1897) [Bracon]. Russia: **EP** (C), **ES** (BR), **FE** (without regions: Tobias, 1971). – Europe (WE, SE, EE).
- Cyanopterus (Ipobracon) kusarensis** (Abdinbekova, 1973) [Ipobracon]. Russia: **EP** (E, NC). – Azerbaijan.
- Cyanopterus (Ipobracon) nigrator** (Zetterstedt, 1838) [Bracon] (*Iphiaulax borealis* Hellén, 1927). Reported as a parasitoid of the coleopteran *Agrilus ater* L. (Buprestidae). Russia: **EP** (N, C, E), **UR**, **WS** (without regions: Belokobylskij, Tobias, 2000), **ES** (TU, KR, YA, ZB), **FE** (AM, KH, PR, KA, MG). – Europe (WE, NE, SE, EE), Kazakhstan.
- Cyanopterus (Ipobracon) obscuripennis** (Thomson, 1892) [Bracon]. Reported as a parasitoid of the coleopteran *Pyrrhidium sanguineum* L. (Cerambycidae). Russia: **ES** (YA). – Europe (WE, NE, SE, EE), Tunisia.
- Cyanopterus (Ipobracon) oriens** Belokobylskij, 2000. Russia: **FE** (PR).
- Cyanopterus (Ipobracon) praecinctus** (Shestakov, 1936) [Ipobracon]. Reported as a parasitoid of coleopterans from the genera *Phymatodes*, *Pogonocherus* (Cerambycidae) and *Xylosandrus* (Curculionidae). Russia: **WS** (TK, NS, KM), **FE** (KH, PR, KU). – Korean Peninsula.

- Cyanopterus (Ipobracon) rector** (Thunberg, 1822) [Ichneumon] (*Bracon melanurus* Thomson, 1892). Reported as a parasitoid of coleopterans from the genera *Rhamnusium* (Cerambycidae), *Pissodes* and *Scolytus* (Curculionidae) and lepidopterans from the genus *Cydia* (Tortricidae). Russia: **EP** (N, E, NC), **UR**. – Europe (WE, NE, SE, EE), Tunisia, Georgia, Turkey.
- Cyanopterus (Ipobracon) tricolor** (Ivanov, 1896) [Iphiaulax]. Russia: **EP** (E), **WS** (without regions: Tobias, 1986), **FE** (KH, PR). – Europe (EE).
- Cyanopterus (Ipobracon) tymbali** Belokobylskij, 2000. Russia: **FE** (KH, PR).
- Cyanopterus (Paravipio) jakuticus** (Tobias, 1973) [Ipobracon]. Russia: **ES** (YA). – Korean Peninsula.
- DOGGERELLA** Quicke, Mahmood et Papp, 2011 (*Lelejobracon* Samartsev, 2016). Type species: *Doggerella turneri* Mahmood, Quicke et Papp, 2011. Distributed in the Palaearctic and Afrotropical regions. Number of species: World – 14, Palaearctic and Russia – 1.
- Doggerella (Lelejobracon) chasanica** (Tobias, 2000) [Bracon] (*Bracon bitumor* Papp, 2018; *B. planitibiae* Yang, Cao et Gould, 2019). Parasitoid of the coleopteran *Anoplophora glabripennis* Motsch. (Cerambycidae). Russia: **FE** (AM, PR). – China (NC), Korean Peninsula.
- GELASINIBRACON** Quicke, 1989 (*Pappobracon* Papp, 1998). Type species: *Gelasinibracon sedlaceki* Quicke, 1989. Distributed in the Palaearctic, Oriental and Australasian regions. Number of species: World – 3, Palaearctic and Russia – 1.
- Gelasinibracon (Pappobracon) nodulosus** (Papp, 1998) [Bracon]. Russia: **FE** (PR). – China (CC), Korean Peninsula, Japan (Kyu).
- GLYPTOMORPHA** Holmgren, 1868 (*Teraturus* Kokujev, 1898; *Crassinervia* Fahringer, 1928; *Zanporia* Sarhan et Quicke, 1989). Type species: *Glyptomorpha ferruginea* Holmgren, 1868. Distributed in the Palaearctic, Oriental, Afrotropical and Neotropical regions. Number of species: World – 38, Palaearctic – 21, Russia – 4.
- Glyptomorpha (Glyptomorpha) discolor** (Thunberg, 1822) [Ichneumon] (*Vipio rossicus* Kokujev, 1898). Russia: **EP** (NW, C, S, NC, CR), **UR**. – Europe (WE, EE), Morocco, Georgia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Kazakhstan.
- Glyptomorpha (Glyptomorpha) dispar** Tobias, 1986. Russia: **EP** (S). – Europe (SE, EE), Turkey.
- Glyptomorpha (Glyptomorpha) pectoralis** (Brullé, 1832) [Vipio] (*Vipio tuberculosa* Brullé, 1846; *V. algiricus* Lucas, 1849; *V. caucasicus* Kokujev, 1898; *Iphiaulax smenus* Cameron, 1904; *I. smenus* Cameron, 1905; *Vipio nursei* Cameron, 1906; *V. unicolor* Cameron, 1906; *Glyptomorpha elongata* Shestakov, 1926; *Vipio chinensis* Cushman, 1931; *Glyptomorpha elongata rufipes* Telenga, 1936). Reported as a parasitoid of coleopterans from the genera *Chrysobothris*, *Sphenoptera* (Buprestidae) and *Plagiatus* (Cerambycidae). Russia: **EP** (C, S, NC, CR), **UR**, **ES** (IR, BR, ZB). – Europe (WE, SE, EE), Morocco, Algeria, Tunisia, Libya, Egypt, Georgia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE), India, SE Asia, Mozambique, South Africa.
- Glyptomorpha (Teraturus) roborowskii** (Kokujev, 1907) [Vipio]. Russia: **EP** (S). – Uzbekistan, Mongolia, China (NW).
- IPHIAULAX** Foerster, 1862 (*Aniphiaulax* Kokujev, 1899; *Iphiaulacidea* Fahringer, 1926; *Euglyptobracon* Telenga, 1936). Type species: *Ichneumon impostor* Scopoli, 1763. Cosmopolitan. Number of species: World – 319 (2 fossil), Palaearctic – 31, Russia – 6.
- Iphiaulax (Euglyptobracon) bicolor** (Telenga, 1936) [Euglyptobracon]. Russia: **EP** (NC). – Turkey.
- Iphiaulax (Euglyptobracon) impeditor** (Kokujev, 1898) [Vipio]. Russia: **EP** (S), **WS** (without regions: Tobias, 1976a), **ES** (KR). – Europe (NE, EE), Georgia, Azerbaijan, Turkey, Israel, Iran, Uzbekistan, Kazakhstan, China (NE, NC).
- Iphiaulax (Euglyptobracon) tauricus** Shestakov, 1927 (*Bracon incisus* Marshall, 1897, nom. praeocc., nec Brullé, 1846). Russia: **EP** (E, S, NC, CR), **UR**. – Europe (SE), Armenia, Azerbaijan, Turkey, Israel, Kazakhstan.
- Iphiaulax (Euglyptobracon) umbraculator** (Nees, 1834) [Bracon] (*Vipio anceps* Kokujev, 1898). Russia: **EP** (S, NC), **UR**. – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Cyprus, Israel, Uzbekistan, Kazakhstan.
- Iphiaulax (Iphiaulax) impostor** (Scopoli, 1763) [Ichneumon] (*Ichneumon coccineus* Geoffroy, 1785; *Cynips ignotus* Christ, 1791; *Ichneumon incertus* Christ, 1791; *Iphiaulax carissimus* Shestakov, 1927; *I. infuscatus* Shestakov, 1927; *I. parvulus* Shestakov, 1927; *I. parvulus sibiricus* Shestakov, 1927; *I. senex* Shestakov, 1927; *I. pulchellus* Telenga, 1936). Reported as a parasitoid of coleopterans from 14 genera of Buprestidae and Cerambycidae and lepidopterans from the genera *Xyleutes* and *Zeuzera* (Cossidae). Russia: **EP** (N, C, S, NC, CR), **UR**, **WS** (TK), **ES** (TU, BR, YA, ZB), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), Morocco, Algeria, Tunisia, Abkhazia, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Tajikistan, Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW), Korean Peninsula, Japan (Hok, Hon, Shi), Sudan.
- Iphiaulax (Iphiaulax) mactator** (Klug, 1817) [Bracon] (*Iphiaulax commiferus* Shestakov, 1927). Reported as a parasitoid of the coleopteran *Acanthocinus aedilis* L. (Cerambycidae). Russia: **EP** (S, NC, CR), **ES** (BR, ZB), **FE** (AM, KH, PR). – Europe (WE, SE, EE), Azerbaijan, Turkey, Syria, Israel, Iran, Kazakhstan, Mongolia, China (NE, NC).

- PSEUDOVIPIO** Szépligeti, 1896 (*Glabriolum* Shestakov, 1932; *Remorpha* Shestakov, 1932; *Pseudoglyptomorpha* Tobias, 1957). Type species: *Bracon inceptor* Nees, 1834. Distributed in the Palaearctic and Afrotropical regions. Number of species: World – 20, Palaearctic – 18, Russia – 7.
- Pseudovipio castrator** (Fabricius, 1798) [Ichneumon]. Reported as a parasitoid of coleopterans from the genera *Chrysobothris* (Buprestidae), *Plagionotus* (Cerambycidae) and *Lixus* (Curculionidae) and lepidopterans from the genus *Gortyna* (Noctuidae). Russia: **EP** (S, NC, CR), **UR**. – Europe (WE, SE, EE), Algeria, Egypt, Georgia, Azerbaijan, Turkey, Cyprus, Syria, Israel, Iran, Uzbekistan, Kazakhstan, Mongolia, Sudan.
- Pseudovipio corsicus** (Marshall, 1897) [Bracon]. Russia: **EP** (S). – Europe (WE, SE).
- Pseudovipio guttiventris** (Thomson, 1892) [Bracon] (*Agathis variegata* Boheman, 1853, nom. praeocc., nec Brullé, 1846; *Pseudovipio biroi* Szépligeti, 1896). Reported as a parasitoid of coleopterans from the genera *Oberea*, *Xylotrechus* (Cerambycidae) and *Philopodon* (Curculionidae). Russia: **EP** (N, NW, C). – Europe (WE, NE, EE), Turkey, Kazakhstan.
- Pseudovipio inceptor** (Nees, 1834) [Bracon]. Reported as a parasitoid of the lepidopteran *Ostrinia nubilalis* Hbn. (Crambidae). Russia: **EP** (S, CR), **UR**. – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Uzbekistan, Kazakhstan, Mongolia.
- Pseudovipio kirgisorum** (Shestakov, 1932) [Iphiaulax]. Russia: **EP** (without regions: Tobias, 1976a). – Israel, Kazakhstan.
- Pseudovipio minutus** (Telenga, 1936) [Glyptomorpha]. Russia: **EP** (E, S, NC). – Europe (EE), Turkey, Kazakhstan.
- Pseudovipio tataricus** (Kokujev, 1898) [Vipio] (*Glyptomorpha pusilla* Shestakov, 1932). Reported as a parasitoid of the coleopteran *Lixus incanescens* Boh. (Curculionidae) and the lepidopteran *Amblypalpis tamaricella* Danilevski (Gelechiidae). Russia: **EP** (S). – Europe (EE), Armenia, Azerbaijan, Turkey, Cyprus, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NW).
- UNCOBRACON** Papp, 1996. Type species: *Bracon apoderi* Watanabe, 1933. Distributed in the Palaearctic region. Number of species: World, Palaearctic and Russia – 4.
- Uncobracon apoderi** (Watanabe, 1933) [Bracon] (*Bracon dahuricus* Telenga, 1936; *B. dahuricus* Shestakov, 1940). Reported as a parasitoid of the coleopterans *Apoderus balteatus* Roelofs, *Paroplapoderus pardalis* Snellen and *Phymatopoderus latipennis* Jekel (Attelabidae). Russia: **FE** (KH, PR). – Korean Peninsula, Japan (Hon, Kyu).
- Uncobracon belokobylskii** Samartsev, 2018. Russia: **FE** (PR).
- Uncobracon pappi** (Tobias, 2000) [Bracon]. Russia: **FE** (PR). – China (NC), Korean Peninsula.
- Uncobracon tricoloratus** (Tobias, 2000) [Bracon]. Russia: **FE** (PR).
- VIPIO** Latreille, 1804 (*Isomecus* Kriechbaumer, 1895; *Zavipio* Viereck, 1914). Type species: *Agathis longicauda* Boheman, 1853. Distributed worldwide except the Oceanic region. Number of species: World – 87, Palaearctic – 34, Russia – 12.
- Vipio angaricus** Telenga, 1936. Russia: **ES** (KR, BR, ZB). – Mongolia.
- Vipio appellator** (Nees, 1834) [Bracon] (*Vipio phoenix* Marshall, 1888; *V. appellator mendax* Kokujev, 1898; *V. pseudappellator* Kokujev, 1898). Reported as a parasitoid of coleopterans from the genera *Chrysobothris* (Buprestidae) and *Bothynoderes* (Curculionidae). Russia: **EP** (NW, S, NC, CR), **WS** (OM), **ES** (BR, ZB), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NC, NW).
- Vipio humerator** (Costa, 1885) [Bracon] (*Bracon rimulosus* Thomson, 1892; *Isomecus schlettereri* Kriechbaumer, 1895; *Vipio frivaldszkyi* Szépligeti, 1896; *V. marshalli* Schmiedeknecht, 1897). Russia: **EP** (NC, CR). – Europe (WE, SE, EE), Algeria, Georgia, Azerbaijan, Turkey, Israel, Iran.
- Vipio illusor** (Klug, 1817) [Bracon] (*Vipio maculator* Brullé, 1832; *Bracon contractor* Nees, 1834). Russia: **EP** (CR), **ES** (ZB). – Europe (WE, SE, EE), Tunisia, Azerbaijan, Turkey, Israel, Iran, Kazakhstan.
- Vipio insectator** Kokujev, 1898. Russia: **EP** (C, E), **UR**. – Europe (WE, EE), Turkey, Kazakhstan.
- Vipio intermedius** Szépligeti, 1896. Russia: **EP** (E, S, NC, CR), **UR**, **FE** (PR). – Europe (SE, EE), Morocco, Algeria, Egypt, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NC, NW).
- Vipio longicauda** (Boheman, 1853) [Agathis] (*Ichneumon nominator* Fabricius, 1793, nom. praeocc., nec Fabricius, 1787). Reported as a parasitoid of coleopterans from the genera *Acanthocinus*, *Molorchus* (Cerambycidae), *Hylecoetus* and *Lymexylon* (Lymexylidae). Russia: **EP** (C, S, CR), **UR**, **WS** (AL). – Europe (WE, NE, SE, EE), Algeria, Georgia, Azerbaijan, Turkey, Cyprus, Syria, Israel, Iran, Tajikistan, Kazakhstan, Mongolia.
- Vipio mongolicus** Telenga, 1936. Russia: **ES** (BR, ZB). – Mongolia.
- Vipio sareptanus** Kawall, 1865 (*Vipio schewyrewi* Kokujev, 1898). Russia: **EP** (NW, C, E, S), **UR**, **WS** (without regions: Belokobylskij, Tobias, 2000), **ES** (KR, BR, ZB), **FE** (AM, KH, PR). – Europe (NE, EE), Iran, Kazakhstan, Mongolia, China (NC, NW, WP), Korean Peninsula.
- Vipio simulator** Kokujev, 1898. Russia: **EP** (S, NC). – Europe (EE), Turkey, Kazakhstan.
- Vipio tentator** (Rossi, 1790) [Ichneumon] (*Ichneumon cuniculator* Rossi, 1792; *Bracon geniculator* Costa, 1885; *Vipio*

brevicaudis Szépligeti, 1896; *V. curticaudis* Szépligeti, 1896). Reported as a parasitoid of the coleopteran *Agrilus cyanescens* Ratz. (Buprestidae). Russia: **EP** (S, NC, CR), **UR**. – Europe (WE, SE, EE), Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Syria, Israel, Iran, Tajikistan, Kazakhstan.

Vipio terrefactor (Villers, 1789) [Ichneumon] (*Vipio improvisus* Kokujev, 1898; *V. interpellator* Kokujev, 1898; *V. neesii* Kokujev, 1898). Reported as a parasitoid of the coleopteran *Cyphocleonus achates* Fahaeus (Curculionidae). Russia: **EP** (NW, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kazakhstan.

VIPIOMORPHA Tobias, 1962. Type species: *Vipiomorpha ypsilon* Tobias, 1962. Distributed in the Palaearctic and Afrotropical regions. Number of species: World – 3, Palaearctic – 2, Russia – 1.

Vipiomorpha ypsilon Tobias, 1962. Russia: **FE** (PR). – Korean Peninsula.

Subfamily CARDIOCHILINAE

S.A. BELOKOBYLSKIY

The members of this subfamily are koinobiont endoparasitoids of Lepidoptera caterpillars. In the world fauna, 16 genera mainly from the tropical and subtropical territories are known.

Number of taxa: World – 16 genera and 215 species, Palaearctic – 8/48, Russia – 4/7.

References. Telenga, 1955; Tobias, Alexeev, 1977; Tobias et al., 1986a; Belokobylskij, 1987a, 2005a, 2007a; Belokobylskij et al., 1998, 2012b; Dangerfield et al., 1999; Belokobylskij, Ku, 2001; Chen et al., 2004; Yu et al., 2016.

AUSTEROCARDIOCHILES Dangerfield, Austin et Whitfield, 1999. Type species: *Cardiochiles pollinator* Dangerfield et Austin, 1995. Small genus with a few species are known from the Australasian, Afrotropical and Eastern Palaearctic regions. Number of species: World – 15, Palaearctic – 6, Russia – 2.

Austerocardiachiles rugosus (Telenga, 1955) [Cardiochiles]. Russia: **FE** (PR).

Austerocardiachiles turga (Belokobylskij, 1996) [Cardiochiles]. Russia: **FE** (PR).

BOHAYELLA Belokobylskij, 1987. Type species: *Bohayella tobiasi* Belokobylskij, 1987. Endoparasitoids of caterpillars from the families Uraniidae and Geometridae. Number of species: World – 10, Palaearctic – 2, Russia – 1.

Bohayella tobiasi Belokobylskij, 1987. Russia: **FE** (AM, KH, PR).

CARDIOCHILES Nees, 1819. Type species: *Ichneumon saltator* Fabricius, 1781. One of the largest cardiochiline

genera; includes species from all zoogeographical regions. In the Palaearctic region, the most part of its species inhabit in the arid or semi-arid territories. Endoparasitoids of lepidopteran caterpillars from the families Pyralidae, Gelechiidae and Tortricidae. Number of species: World – 63, Palaearctic – 26, Russia – 3.

Cardiochiles fallax Kokujev, 1895 (*Cardiochiles crassicornis* Kokujev, 1895). Endoparasitoid of caterpillars from the family Pyralidae. Russia: **EP** (S, NC, CR). – Europe (EE), Georgia, Armenia, Azerbaijan, Turkey, Tajikistan, Kazakhstan.

Cardiochiles saltator (Fabricius, 1781) [Ichneumon] (*Cardiochiles brachialis* Rondani, 1877; *C. katkowi* Kokujev, 1895; *C. fumipennis* Szépligeti, 1901; *C. sibiricus* Telenga, 1955). Endoparasitoid of caterpillars from the family Pyralidae; also known records of the hosts from Diptera and Hymenoptera (Symphyta) are very doubtful. Russia: **EP** (C, E, S, NC, CR), **UR**, **WS** (AL), **ES** (KR, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Morocco, Turkey, Iran, Turkmenistan, Kazakhstan, Korean Peninsula, India.

Cardiochiles volgensis Tobias, 1986. Russia: **EP** (S, NC).

HARTEMITA Cameron, 1910. Type species: *Hartemita latipes* Cameron, 1910. Medium-sized East Palaearctic-Oriental genus. Number of species: World – 24, Palaearctic – 4, Russia – 1.

Hartemita spasskensis Belokobylskij, 2005. Russia: **FE** (PR).

Subfamily CENOCOELIINAE

S.A. BELOKOBYLSKIY

Endoparasitoids of the xylophagous beetle larvae. This subfamily consists of two tribes, Cenocoeliini with about 5 genera and the monotypic Ussurohelconini; both tribes are known in the Russian fauna. The status of *Lestricus* Reinhard, 1865 is not final and we treat it here as a subgenus of *Cenocoelius* Westwood.

Number of taxa: World – 6 genera and 91 species, Palaearctic – 2/10, Russia – 2/5.

References. Tobias, 1976a, 1979; Tobias et al., 1986a; Belokobylskij, 1989b; van Achterberg, 1994a; Belokobylskij et al., 1998; Yu et al., 2016.

Tribe CENOCOELIINI

CENOCOELIUS Westwood, 1840 (*Laccophrys* Foerster, 1863; *Lestricus* Reinhard, 1865; *Promachus* Cresson, 1887). Type species: *Cenocoelius flavifrons* Westwood, 1840 (= *Bracon analis* Nees, 1834). Endoparasitoids of the xylophagous and bark-boring beetles mainly from the family Cerambycidae and rarely also Buprestidae and Curculionidae (Scolytinae). Number of species: World – about 75, Palaearctic – 9, Russia – 6.

Cenocoelius (Cenocoelius) analis (Nees, 1834) [Bracon] (*Cenocoelius flavifrons* Westwood, 1840; *Opius cephalotes* Ratzeburg, 1848; *Laccophrys magdalini* Foerster, 1863; *Cenocoelius hungaricus* Zilahi-Kiss, 1929). Endoparasitoid of coleopteran larvae from the families Cerambycidae and Curculionidae. Russia: **EP** (NW, C, S, NC), **FE** (PR). – Europe (WE, NE, EE), Azerbaijan.

Cenocoelius (Cenocoelius) anuphrievi Belokobylskij, 1998. Parasitoid of *Brachyelytus singularis* Kraatz (Cerambycidae). Russia: **FE** (PR).

Cenocoelius (Cenocoelius) japonicus (Watanabe, 1951) [Capitoni]. Parasitoid of coleopteran larvae from the family Cerambycidae. Russia: **ES** (BR), **FE** (KH, PR). – Japan (Hok).

Cenocoelius (Cenocoelius) kunashiri Tobias, 1979. Russia: **FE** (KU).

Cenocoelius (Cenocoelius) taiga Belokobylskij, 1998. Russia: **FE** (KH, PR).

Cenocoelius (Lestricus) secalis (Linnaeus, 1758) [Ichneumon] (*Ichneumon agricolator* Linnaeus, 1767; *Alysia rubriceps* Ratzeburg, 1844; *Cenocoelius femorator* Tobias, 1973). Endoparasitoid of coleopteran larvae from the families Cerambycidae and Curculionidae. Russia: **EP** (NW, C, NC), **FE** (PR, MG). – Europe (WE, NE, SE, EE).

Tribe USSUROHELCONINI

USSUROHELCON Belokobylskij, 1989. Type species: *Ussurohelcon longigenis* Belokobylskij, 1989. Number of species: World (Oriental region) – 4, Palaearctic and Russia – 1.

Ussurohelcon longigenis Belokobylskij, 1989. Russia: **FE** (PR).

Subfamily CHARMONTINAE

S.A. BELOKOBYSKIJ

Endoparasitoids of the Lepidoptera caterpillars. Two recent genera are known in this subfamily: *Charmon* Haliday, 1833 from several zoogeographic regions and the Neotropical *Charmontia* van Achterberg, 1979. The Eocene extinct *Palaeocharmon* Belokobylskij, Nel, Waller et De Ploeg, 2010 was separated to the tribe Palaeocharmontini (Belokobylskij et al., 2010).

Number of taxa: World – 3 genera (1 fossil) and 10 species (1 fossil); Palaearctic – 1/6; Russia – 1/2.

References. Van Achterberg, 1979b; Tobias et al., 1986a; Belokobylskij et al., 1998, 2010; Yu et al., 2016.

CHARMON Haliday, 1833. Type species: *Charmon cruentatus* Haliday, 1833 (= *Ichneumon extensor* Linnaeus, 1758). Number of species: World – 10, Palaearctic – 6, Russia – 2.

Charmon extensor (Linnaeus, 1758) [Ichneumon] (*Charmon cruentatus* Haliday, 1833; *Eubadizon pectoralis* Nees, 1834; *E. pleuralis* Cresson, 1872; *E. gracilis* Provancher, 1880; *Cyclocormus luteus* Cameron, 1911; *Calyptus hungaricus* Kiss, 1927; *Eubadizon striatum* Shestakov, 1940; *E. brevicauda* Hellén, 1958). Sometimes (Yu et al., 2016) *Ch. cruentatus* Haliday, 1833 is considered as a valid species. Endoparasitoid of caterpillars from the families Gelechiidae, Noctuidae, Nolidae, Oecophoridae and Tortricidae. Russia: **EP** (NW, C, NC, CR), **UR**, **ES** (BR, ZB), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, Mongolia, China (NE, NC, CC, SE), Korean Peninsula, Japan, N America, Mexico, India, Ivory Coast, Congo, South Africa.

Charmon kozyrevskii Belokobylskij, 1998. Russia: **FE** (KA).

Subfamily CHELONINAE

S.A. BELOKOBYSKIJ

This is large and cosmopolitan subfamily of Braconidae includes four tribes and 19 genera (two fossil ones). Members of this subfamily are egg-larval koinobiont endoparasitoids of the mining microlepidopteran caterpillars. The tribe Adeiini is treated here as a separate subfamily.

Number of taxa: World – 16 genera and more than 1500 species, Palaearctic – 5/761, Russia – 5/344.

References. Kokujev, 1900, 1903; Telenga, 1941, 1953; Tobias, 1970, 1972, 1976a, 1984, 1986, 1989, 1990, 1992, 1994, 1995, 1997a, 1997b, 1999, 2001a, 2001b, 2002b, 2003c, 2005, 2010, 2011a, 2011b; Papp, 1971; Huddleston, 1984; Belokobylskij, 1986b, 2019d; Tobias et al., 1986a; van Achterberg, 1990b; Zettel, 1990; Ku et al., 1998; Belokobylskij, Tobias, 2000; Chen, Qinge, 2003; Belokobylskij et al., 2012b; Yu et al., 2016.

Tribe CHELONINI

ASCOGASTER Wesmael, 1835 (*Cascogaster* Baker, 1926; *Leptodrepana* Shaw, 1983). Type species: *Ascogaster instabilis* Wesmael, 1835 (= *Chelonus abdinator* Dahlbom, 1833). Number of species: World – more than 100, Palaearctic – 52, Russia – 42.

Ascogaster abdinator (Dahlbom, 1833) [Chelonus] (*Ascogaster instabilis* Wesmael, 1835; *A. fulviventris* Curtis, 1837; *Chelonus femoralis* Herrich-Schäffer, 1838; *Ch. rufiventris* Herrich-Schäffer, 1838; *Ascogaster pallida* Ruthe, 1855). Endoparasitoid of microlepidopterans from the families Crambidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, NC), **WS** (TK). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey.

Ascogaster acutiventris Tobias, 1986. Russia: **FE** (PR).

Ascogaster albitarsus Reinhard, 1867 (*Chelonus similis* Herrich-Schäffer, 1838; *Ascogaster leptopus* Thomson,

- 1874). Russia: **FE** (PR). – Europe (WE, NE, EE), China, Korean Peninsula, Japan.
- Ascogaster annularis** (Nees, 1816) [Sigalphus]. Endoparasitoid of lepidopterans from the families Coleophoridae, Cosmopterigidae, Gelechiidae, Oecophoridae, Plutellidae, Psychidae, Tortricidae and Yponomeutidae. Russia: **EP** (NC), **UR**, **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Kazakhstan, Mongolia, Korean Peninsula.
- Ascogaster arisanica** Sonan, 1932. Russia: **FE** (PR, SA, KU). – China (NE, CC, SW, SE), Korean Peninsula, Japan.
- Ascogaster armata** Wesmael, 1835 (*Chelonus pulchellus* Curtis, 1829; *Ascogaster esenbeckii* Curtis, 1837; *Chelonus luteicornis* Herrich-Schäffer, 1838). Endoparasitoid of *Coleophora violacea* Ström (Coleophoridae). Russia: **EP** (NW, C), **UR**. – Europe (WE, SE, EE).
- Ascogaster belokobylskiji** Tobias, 2000. Russia: **FE** (PR).
- Ascogaster bicarinata** (Herrich-Schäffer, 1838) [Chelonus] (*Ascogaster mlokossowitschi* Kokujev, 1895; *A. rufiventris* Telenga, 1941). Russia: **EP** (C), **CR**. – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Turkmenistan.
- Ascogaster bidentula** Wesmael, 1835 (*Sigalphus scabriusculus* Zetterstedt, 1838; *Chelonus multiarticulatus* Ratzeburg, 1852; *Ascogaster gibbiscuta* Thomson, 1874; *A. fuscipennis* Thomson, 1892; *A. atamiensis* Ashmead, 1906). Endoparasitoid of microlepidopterans from the families Geometridae and Tortricidae. Russia: **EP** (N, NW), **UR**, **WS** (AL), **ES** (BR, ZB), **FE** (KH, PR, SA, KU, MG). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, China (NE, NC, CC), Korean Peninsula, Japan.
- Ascogaster bimarior** Tobias, 1986. Russia: **EP** (NC). – Georgia, Azerbaijan.
- Ascogaster brevicornis** Wesmael, 1835 (*Chelonus monilicornis* Herrich-Schäffer, 1838). Russia: **WS** (TM). – Europe (WE, EE).
- Ascogaster canifrons** Wesmael, 1835 (*Ascogaster graniger* Thomson, 1892). Endoparasitoid of microlepidopterans from the genera *Cydia*, *Eupoecilia*, *Endothenia*, *Gypsonoma* and *Rhopobota* (Tortricidae) and *Eupithecia pyreneata* Mabile (Geometridae). Russia: **EP** (NW, C), **UR**, **ES** (YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia.
- Ascogaster consobrina** Curtis, 1837. Endoparasitoid of *Arcia caja* L. (Arctiidae) and *Teleiodes vulgella* Den. et Schiff. (Gelechiidae). Russia: **FE** (KH, PR, SA, KU). – Europe (WE, NE, EE), China (CC, SE), Korean Peninsula, Japan.
- Ascogaster crassicornis** Tobias, 2000. Russia: **FE** (PR).
- Ascogaster cuneiventris** Tobias, 1986. Russia: **FE** (PR).
- Ascogaster dentiventris** Telenga, 1941. Russia: **EP** (S). – Kazakhstan.
- Ascogaster dispar** Fahringer, 1934 (*Ascogaster spinifer* Tobias, 1964; *A. kozlovi* Tobias, 1972). Endoparasitoid of *Cydia delineana* Walk. and *Endothenia gentianaeana* Hbn. (Tortricidae). Russia: **EP** (NC, CR). – Europe (WE, EE), Armenia, Turkey, Kazakhstan, Mongolia.
- Ascogaster disparilis** Tobias, 1986. Russia: **EP** (NC). – Europe (EE), Turkey.
- Ascogaster excavata** Telenga, 1941 (*Ascogaster kasachstanicus* Tobias, 1964). Russia: **EP** (C). – Europe (WE), Kazakhstan.
- Ascogaster excisa** (Herrich-Schäffer, 1838) [Chelonus] (*Ascogaster longiventris* Tobias, 1964). Russia: **EP** (CR). – Europe (WE, SE, EE), Azerbaijan, Turkey, Uzbekistan, Kazakhstan.
- Ascogaster flavomaculata** Tobias, 1986 (*Ascogaster nilena* Papp, 1989). Russia: **FE** (PR). – Korean Peninsula.
- Ascogaster formosensis** Sonan, 1932 (*Ascogaster longicornis* Huddleston, 1984). Endoparasitoid of *Conogethes punctiferalis* Guen. (Crambidae). Russia: **FE** (PR). – China (NE, SW, SE), Korean Peninsula, Japan, India, Nepal.
- Ascogaster grahami** Huddleston, 1984. Endoparasitoid of *Borkhausenella einsleri* Amsel (Oecophoridae), *Infurcitinea argentimaculella* Stt. (Tineidae) and *Sorhagenia lophyrella* Douglas (Cosmopterigidae). Russia: **UR**, **ES** (ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey, Israel, Kazakhstan, China (SE), Korean Peninsula.
- Ascogaster hei** Tang et Marsh, 1994. Russia: **FE** (KH, PR). – China (NE, CC), Korean Peninsula.
- Ascogaster klugii** (Nees, 1816) [Sigalphus] (*Ascogaster ruficeps* Wesmael, 1835). Endoparasitoid of *Denisia stipella* L. and *Tubuliferola subochreella* Dbld. (Oecophoridae). Russia: **EP** (C), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.
- Ascogaster kotenkoi** Tobias, 2000. Russia: **FE** (KU).
- Ascogaster kunashirica** Tobias, 2000. Russia: **FE** (KU).
- Ascogaster lissopyga** Tobias, 2000. Russia: **FE** (SA, KU).
- Ascogaster magadanica** Tobias, 2000. Russia: **FE** (MG).
- Ascogaster magnidentis** Tobias, 1986. Endoparasitoid of *Cydia milleniana* Adamcz. (Tortricidae). Russia: **EP** (C). – Europe (SE, EE).
- Ascogaster perkinsi** Huddleston, 1984. Russia: **FE** (KH, PR, SA). – China (CC, SE), Korean Peninsula, Japan.
- Ascogaster quadridentata** Wesmael, 1835 (*Ascogaster pallidicornis* Curtis, 1837; *Chelonus impressus* Herrich-Schäffer, 1838; *Ch. quadridens* Herrich-Schäffer, 1838; *Ascogaster cynipum* Thomson, 1892; *A. nigricornis* Thomson, 1892; *A. egregius* Kokujev, 1895; *Chelonus nigrator* Szépligeti, 1896; *Ch. carpocapsae* Viereck, 1909; *Ascogaster epinotiae* Watanabe, 1937). Endoparasitoid of lepidopterans from the families Blastodacnidae, Gelechiidae, Limacodidae, Pyralidae, Tortricidae and Yponomeutidae, including pests *Archips rosana* L., *Cydia pomonella* L. and *Grapholita molesta* Busck (Tortricidae), *Recurvaria nanella* Den. et Schiff. (Gelechiidae) and *Yponomeuta padella* L. (Yponomeutidae). Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **WS** (TM, AL), **ES** (BR), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Morocco,

- Egypt, Georgia, Armenia, Azerbaijan, Turkey, Iran, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, N America, Peru, New Zealand.
- Ascogaster reticulata** Watanabe, 1967. Endoparasitoid of microlepidopterans from the genera *Acleris*, *Adoxophyes*, *Archips*, *Choristoneura*, *Hoshinoa*, *Rhopobota* (Tortricidae) and *Carposina niponensis* Walsingham (Carpodidae). Russia: **FE** (PR). – Europe (WE, EE), China, Korean Peninsula, Japan.
- Ascogaster rufidens** Wesmael, 1835 (*Chelonus rufipes* Herrich-Schäffer, 1838; *Ch. laevigator* Ratzeburg, 1852). Endoparasitoid of lepidopterans from the families Tortricidae, Yponomeutidae, Arctiidae, Lymantriidae and Noctuidae, including pests *Archips rosana* L., *Cydia pomonella* L. and *Tortrix viridana* L. (Tortricidae), *Yponomeuta padella* L. (Yponomeutidae), *Arctia caja* L. (Arctiidae), *Lymantria dispar* L. and *Malacosoma neustria* L. (Lymantriidae). Russia: **EP** (NW, C, CR), **ES** (ZB), **FE** (KH, PR, SA). – Europe (WE, NE, EE), China (NE).
- Ascogaster rufipes** (Latreille, 1809) [Sigalphus] (*Sigalphus elegans* Nees, 1816; *Chelonus fasciatus* Dahlbom, 1833; *Ch. pallipes* Herrich-Schäffer, 1838; *Ch. rubripes* Lucas, 1849; *Ch. rugosulus* Goureau, 1861; *Ascogaster ratzeburgii* Marshall, 1885; *A. nigribasis* Fahringer, 1934; *A. soror* Telenga, 1941). Endoparasitoid of lepidopterans from the families Coleophoridae, Elachistidae, Erebidae, Nolidae, Tortricidae and Yponomeutidae, including pests *Archips oporana* L., *A. rosana* L. and *Cydia pomonella* L. (Tortricidae) and *Yponomeuta padella* L. (Yponomeutidae). Russia: **EP** (NW, C, S, NC), **ES** (YA), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Algeria, Azerbaijan, Turkey, Uzbekistan, Kyrgyzstan, Mongolia, China (SE), Korean Peninsula, Japan.
- Ascogaster rugulosa** Tang et Marsh, 1994. Russia: **ES** (IR). – China (CC, SE), Korean Peninsula.
- Remarks.** Tobias (2000) recorded this species from Khabarovsk Territory of Russia, but in the collection of ZIN the material for this species is present only from Irkutsk Province.
- Ascogaster scabricula** (Dahlbom, 1833) [Chelonus] (*Ascogaster clypealis* Thomson, 1892). Endoparasitoid of *Cydia zebeana* Ratz. (Tortricidae). Russia: **EP** (C), **UR**. – Europe (WE, NE, SE, EE), China (NE).
- Ascogaster similis** (Nees, 1816) [Sigalphus] (*Chelonus monilicornis* Herrich-Schäffer, 1838). Endoparasitoid of *Cydia pomonella* L., *C. splendana* Hbn. and *Spilonota ocellana* Den. et Schiff. (Tortricidae), *Teleiodes saltuum* Z. (Gelechiidae) and *Yponomeuta padella* L. (Yponomeutidae). Russia: **EP** (C, CR). – Europe (WE, SE, EE).
- Ascogaster telengai** Tobias, 2000. Russia: **FE** (PR).
- Ascogaster temporalis** Tobias, 1986. Russia: **UR**. – Europe (SE).
- Ascogaster varipes** Wesmael, 1835 (*Chelonus atriceps* Ratzeburg, 1844; *Ascogaster tersus* Reinhard, 1867; *A. cavifrons* Thomson, 1874; *A. sternalis* Thomson, 1874; *A. jaroslawnensis* Kokujev, 1895; *Chelonus catulus* Marshall, 1897). Endoparasitoid of microlepidopterans from the genera *Coleophora* (Coleophoridae), *Cydia*, *Endothenia*, *Epipotia* and *Grapholita* (Tortricidae) and *Gelechia* (Gelechiidae). Russia: **EP** (NW, C, NC), **UR**, **WS** (TK), **ES** (BR), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Kazakhstan, Mongolia, China (SE), Korean Peninsula.
- Ascogaster vitobiasi** Belokobyl'skij, 2019 (*Ascogaster brevisventris* Tobias, 2000, nom. praeocc., nec Granger, 1949). Russia: **FE** (PR).
- CHELONUS** Panzer, 1806 (*Anomala* von Block, 1799; *Davisania* La Munyon, 1877; *Arichelonus* Viereck, 1913; *Cubochelonus* Baker, 1926; *Megachelonus* Baker, 1926). Type species: *Ichneumon oculator* Fabricius, 1775. Number of species: World – about 200, Palaearctic – more than 100, Russia – 61.
- Chelonus angustiventris** Tobias, 1974. Russia: **ES** (ZB). – Mongolia.
- Chelonus annularius** Tobias, 2000. Russia: **FE** (PR).
- Chelonus annulatus annulatus** (Nees, 1816) [Sigalphus]. Endoparasitoid of microlepidopterans from the families Coleophoridae, Elachistidae, Gelechiidae, Oecophoridae, Psychidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **WS** (TM, TK), **ES** (TU, IR, YA, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Iran, Kyrgyzstan, Kazakhstan, Mongolia, China (NW).
- Chelonus annulatus asiicola** Tobias, 2000. Russia: **FE** (SA, KU, MG). – China (NW).
- Chelonus annulicornis** Tobias, 1986. Russia: **FE** (PR).
- Chelonus annuliflagellaris** Tobias, 2000. Russia: **FE** (PR).
- Chelonus annulipes** Wesmael, 1835 (*Chelonus falcatus* Szépligeti, 1896). Endoparasitoid of lepidopterans from the families Crambidae, Erebidae, Noctuidae, Pyralidae and Tortricidae. Russia: **EP** (NW, C, S, NC), **UR**, **WS** (TM), **ES** (YA, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, China (NE, NW), N America (introduced).
- Chelonus antennalis** Thomson, 1874. Russia: **EP** (C: Telenga, 1941). – Europe (WE, NE, EE), China (NE).
- Chelonus asiaticus** Telenga, 1941. Russia: **EP** (NW, NC, CR), **WS** (AL), **ES** (ZB), **FE** (PR). – Europe (SE, EE), Armenia, Turkey, Iran, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.
- Chelonus basifemoralis** Tobias, 2000. Russia: **FE** (PR).
- Chelonus basimaculatus** Tobias, 2000. Russia: **FE** (PR).
- Chelonus bidens** Tobias, 1972. Russia: **EP** (C). – Europe (EE), Turkey, Iran, Kazakhstan.
- Chelonus bimaculatus** Szépligeti, 1896 (*Chelonus sculpturatus* Szépligeti, 1896; *Ch. minor* Fahringer, 1934). Endoparasitoid of *Gypsonoma dealbana* Fröl. (Tortricidae).

- Russia: **EP** (C, NC: Telenga, 1941). – Europe (WE, SE, EE), Uzbekistan, Kazakhstan, Mongolia, China (NC).
- Chelonus bipicturatus** Tobias, 2000. Russia: **ES** (ZB), **FE** (PR).
- Chelonus bonelli** (Nees, 1835) [Sigalphus]. Russia: **EP** (C). – Europe (WE, SE, EE), Azerbaijan, Turkmenistan, Kyrgyzstan, China (SE).
- Chelonus borisi** Tobias, 2011. Russia: **EP** (NW).
- Chelonus brachyurus** Thomson, 1874. Russia: **EP** (NC), **WS** (AL), **ES** (KR). – Europe (NE, SE, EE), Kazakhstan, Mongolia.
- Chelonus canescens** Wesmael, 1835. Endoparasitoid of *Cnephias pasquana* Hbn. (Tortricidae). Russia: **EP** (NW), **FE** (SA, KU). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, Mongolia.
- Chelonus capsia** Tobias, 1972. Russia: **EP** (E). – Europe (EE), Mongolia.
- Chelonus caradrinae** Kokujev, 1914. Endoparasitoid of *Monima gracilis* F., *Mythimna separata* Walk., *Sarcophila illoba* Butler and *Spodoptera exigua* Hbn. (Noctuidae). Russia: **EP** (NW, C, S, NC, CR), **ES** (ZB), **FE** (AM, KH, PR). – Europe (WE, SE, EE), Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.
- Chelonus carbonator** Marshall, 1885. Endoparasitoid of *Grapholita janthinana* Dup. (Tortricidae) and *Spodoptera litura* F. (Noctuidae). Russia: **EP** (C), **WS** (TM, AL), **ES** (KR, ZB), **FE** (PR, SA, MG). – Europe (WE, NE, SE, EE), Caucasus, Iran, Tajikistan, Kazakhstan, Mongolia, China (SW), India.
- Chelonus cardui** Tobias, 2011. Russia: **EP** (C). – Europe (SE).
- Chelonus cedropadicus** Tobias, 2000. Russia: **FE** (PR).
- Chelonus chrysostigma** Tobias, 1972. Russia: **ES** (TU). – Mongolia.
- Chelonus circumscriptor** Tobias, 2000. Russia: **FE** (PR).
- Chelonus cisdauricus** Tobias, 1986. Russia: **ES** (IR). – Europe (SE).
- Chelonus contrarius** Tobias, 1964. Russia: **EP** (NW, C), **UR**, **FE** (PR, KA, MG). – Europe (SE, EE), Turkmenistan, Kazakhstan, Mongolia, China (NC).
- Chelonus corvulus** Marshall, 1885. Endoparasitoid of lepidopterans from the families Coleophoridae, Erebidae, Gelechiidae, Noctuidae, Sesiidae and Tortricidae. Russia: **EP** (NW, C, E, NC, CR), **UR**, **WS** (TM), **ES** (KR, IR, BR, YA, ZB), **FE** (PR, SA, MG). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Israel, Uzbekistan, Kazakhstan, Mongolia, China (CC).
- Chelonus cylindrus** (Klug, 1885) [Sigalphus] (*Chelonus variabilis* Herrich-Schäffer, 1838; *Ch. speculator* Marshall, 1885; *Ch. ebeninus* Fahringer, 1934). Russia: **EP** (NC), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Mongolia, China (NC, NW, SW).
- Chelonus dauricus** Telenga, 1941. Russia: **EP** (NW, C), **WS** (AL), **ES** (IR, YA), **FE** (PR, MG). – Europe (SE, EE), Turkey, Kyrgyzstan, Mongolia.
- Chelonus decorus** Marshall, 1885. Endoparasitoid of *Yponomeuta malinella* Z. (Yponomeutidae). Russia: **EP** (? NC: Telenga, 1941). – Europe (WE, EE), China (NC).
- Chelonus flavens** Tobias, 2000. Russia: **FE** (PR).
- Chelonus fumarius** Tobias, 2000. Endoparasitoid of *Spodoptera litura* F. (Noctuidae). Russia: **FE** (PR). – Korean Peninsula.
- Chelonus inanitus** (Linnaeus, 1767) [Cynips] (*Ichneumon binarius* Geoffroy, 1785; *I. atomos* Rossi, 1790). Endoparasitoid of lepidopterans from the families Crambidae, Noctuidae, Phycitidae and Tortricidae. Russia: **EP** (NW, C, E, NC, CR), **UR**, **WS** (TM), **ES** (KR, IR, YA, ZB), **FE** (AM, KH, PR, SA, MG). – Europe (WE, NE, SE, EE), Egypt, Armenia, Turkey, Israel, Iran, Kazakhstan, Mongolia, China (NW), Korean Peninsula, USA (introduced).
- Chelonus jacobsoni** Tobias, 1986. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Chelonus jacuticus** Tobias, 2000. Russia: **ES** (YA).
- Chelonus kokoujevi** Tobias, 2011. Russia: **EP** (C), **UR**.
- Chelonus macrocerus macrocerus** Thomson, 1834 (? *Sigalphus cylindrus* Klug, 1816). Russia: **EP** (C, NC, CR), **UR**, **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, China (NW).
- Chelonus macrocerus nigrifemur** Papp, 1971. Russia: **FE** (PR, KU). – Mongolia.
- Chelonus microchelonoides** Tobias, 2000. Russia: **FE** (PR).
- Chelonus munakatae** Matsumura, 1912 (*Chelonus chilonis* Cushman, 1929). Endoparasitoid of lepidopterans from the families Crambidae and Pyraustidae. Russia: **FE** (KH, PR). – China, Korean Peninsula, Japan, Vietnam.
- Chelonus obscuratus** Herrich-Schäffer, 1838 (*Chelonus intermedius* Thomson, 1874). Endoparasitoid of *Rhyacionia buoliana* Den. et Schiff. (Tortricidae) and *Spodoptera exigua* Hbn. (Noctuidae). Russia: **EP** (N, C). – Europe (WE, NE, SE, EE), Tunisia, Egypt, Turkey, Kazakhstan, Mongolia, China (NW).
- Chelonus oculator** (Fabricius, 1775) [Ichneumon] (*Anomala integra* von Block, 1799; *Sigalphus mutabilis* Nees, 1816; *S. oculatus* Nees, 1816). Endoparasitoid of lepidopterans from the families Coleophoridae, Crambidae, Noctuidae, Phycitidae, Pyralidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC, CR), **ES** (IR). – Europe (WE, NE, SE, EE), Egypt, Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NW).
- Chelonus posjeticus** Tobias, 2000. Russia: **FE** (PR).
- Chelonus praepusillus** Tobias, 2000. Russia: **FE** (KH, PR).
- Chelonus processiventris** Tobias, 1964. Russia: **EP** (S). – Turkey, Kazakhstan.
- Chelonus propodealoides** Tobias, 2000. Russia: **FE** (PR).
- Chelonus pseudoasiaticus** Tobias, 2000. Russia: **ES** (ZB).
- Chelonus retrorsus** Tobias, 2000. Russia: **FE** (PR).
- Chelonus retroversus** Tobias, 2000. Russia: **EP** (S), **ES** (TU), **FE** (PR).

- Chelonus riphaeicus** Tobias, 1986. Russia: **UR**. – Europe (NE).
- Chelonus scabrator** (Fabricius, 1793) [Ichneumon] (*Sigalphus scaber* Nees, 1816; *Chelonus buccatus* Thomson, 1874). Endoparasitoid of *Loxostege sticticalis* L. (Crambidae), *Oligia strigilis* L. (Noctuidae) and *Rhopobota stagnana* Den. et Schiff. (Tortricidae). Russia: **EP** (NW, E, S, NC), **ES** (KR, IR, YA), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran, Kazakhstan, Mongolia.
- Chelonus seticornis** Thomson, 1892. Russia: **EP** (? C: Telenga, 1941), **ES** (? IR: Telenga, 1941). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, China (NC).
- Chelonus smirnovi** Telenga, 1953. Endoparasitoid of *Etiella zinckenella* Tr. (Phycitidae). Russia: **EP** (E, S), **ES** (TU, KR, BR, ZB). – Turkey, Iran, Turkmenistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Chelonus sochii** Tobias, 1986. Russia: **EP** (NC).
- Chelonus submuticus** Wesmael, 1835 (*Chelonus luteipes* Thomson, 1874; *Ch. subannulatus* Abdinbekova, 1971). Endoparasitoid of *Homoeosoma nebulella* Den. et Schiff. (Pyralidae) and *Spodoptera littoralis* Boisd. (Noctuidae). Russia: **EP** (S, CR), **UR**. – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Israel, Uzbekistan, Kazakhstan, Mongolia.
- Chelonus subseticornis** Tobias, 1971. Endoparasitoid of *Agrotis segetum* Den. et Schiff. (Noctuidae). Russia: **EP** (NW, C), **UR**, **WS** (AL), **ES** (IR, YA), **FE** (PR). – Europe (SE, EE), Azerbaijan, Kazakhstan, Mongolia, China (NW).
- Chelonus tuvinus** Tobias, 2000. Russia: **ES** (TU).
- Chelonus ubsunuricus** Tobias, 2011. Russia: **ES** (TU).
- Chelonus vitimi** Tobias, 2000. Russia: **ES** (BR), **FE** (MG).
- Chelonus wesmaelli** Curtis, 1837 (*Chelonus zimini* Tobias, 1972). Russia: **UR**. – Europe (WE, EE).
- MICROCHELONUS** Szépligeti, 1908 (*Chelonella* Szépligeti, 1908; *Neochelonella* Hincks, 1943). Type species: *Microchelonus hungaricus* Szépligeti, 1896 (= *Chelonus erosus* Herrich-Schäffer, 1838). The largest Cheloninae genus, it is widely distributed in humid and xerothermic zones of the Palaearctic region. The genus consists of five subgenera: *Carinichelonus* Tobias, 2000, *Microchelonus* s. str., *Parachelonus* Tobias, 1995, *Rasnichelonus* Tobias, 2011 and *Stylochelonus* Hellén, 1958. The members of this genus are egg-larval endoparasitoids of mining microlepidopterans from numerous families. *Microchelonus temulentus* Tobias, 2010 was originally recorded from Russian Altai, but according to the label it was collected in the Kazakhstan part of the Altai Mountains. Number of species: World – about 500, Palaearctic – about 400, Russia – 211.
- Microchelonus (Carinichelonus) carinatikovi** Shenefelt, 1973 (*Chelonella carinata* Shestakov, 1940; *Microchelonus cavifrons* Tobias, 2000). Russia: **FE** (PR).
- Microchelonus (Microchelonus) abditus** (Tobias, 1961) [Chelonus]. Endoparasitoid of *Carposina sasakii* Mats. (Carposinidae) and *Spilonota prognathana* Snellen (Tortricidae). Russia: **FE** (PR).
- Microchelonus (Microchelonus) abstrusus** Tobias, 1989. Russia: **FE** (PR).
- Microchelonus (Microchelonus) acutulus** Tobias, 1997. Russia: **ES** (TU). – Uzbekistan, Kyrgyzstan, Kazakhstan, China (NW).
- Microchelonus (Microchelonus) adjunctus** Tobias, 1989. Russia: **FE** (PR).
- Microchelonus (Microchelonus) agathis** Papp, 1971. Russia: **ES** (TU, ZB). – Tajikistan, Mongolia.
- Microchelonus (Microchelonus) albor** Tobias, 1994. Russia: **FE** (PR).
- Microchelonus (Microchelonus) alter** Tobias, 2000. Endoparasitoid of *Ypsolopha* sp. (Ypsilophidae). Russia: **ES** (BR).
- Microchelonus (Microchelonus) alticinctus** Tobias, 1989. Russia: **FE** (PR, SA).
- Microchelonus (Microchelonus) altilis** Tobias, 1989. Russia: **FE** (PR, KU).
- Microchelonus (Microchelonus) alveatus** Tobias, 1989. Russia: **FE** (PR).
- Microchelonus (Microchelonus) amandus** Tobias, 1989. Russia: **FE** (PR).
- Microchelonus (Microchelonus) amurensis** Tobias, 1984. Russia: **FE** (KH, PR).
- Microchelonus (Microchelonus) angustatus** Tobias, 1989. Russia: **FE** (PR).
- Microchelonus (Microchelonus) angustiventris** Tobias, 1986. Russia: **FE** (PR). – Mongolia.
- Microchelonus (Microchelonus) angustulus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) anivicus** Tobias, 2000. Russia: **FE** (SA).
- Microchelonus (Microchelonus) anxius** Tobias, 1992. Russia: **UR**, **ES** (ZB).
- Microchelonus (Microchelonus) apistae** Tobias, 1989. Endoparasitoid of *Coleophora adelpha* Flkv. (Coleophoridae). Russia: **ES** (TU, BR, ZB). – Mongolia.
- Microchelonus (Microchelonus) arnoldii** (Tobias, 1964) [Neochelonella]. Russia: **EP** (E). – Europe (EE), Turkey, Kazakhstan.
- Microchelonus (Microchelonus) artoventris** Tobias, 1997 (*Microchelonus stenogaster* Tobias, 1997). Russia: **FE** (MG).
- Microchelonus (Microchelonus) assimilis** Tobias, 1990. Russia: **FE** (PR). – Mongolia.
- Microchelonus (Microchelonus) atripes** (Thomson, 1874) [Chelonus] (*Microchelonus kamtshaticus* Tobias, 1986; *M. cunctator* Papp, 1989). Endoparasitoid of *Coleophora* sp. and *C. alticolella* Z. (Coleophoridae). Russia: **EP** (NW), **FE** (SA, KA). – Europe (WE, NE, SE, EE), Turkey, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Microchelonus (Microchelonus) basalis** (Curtis, 1837) [Chelonus]. Russia: **EP** (C), **ES** (TU), **FE** (PR). – Europe (WE, NE, SE, EE), Israel, Iran, Kazakhstan.

- Microchelonus (Microchelonus) baskunchakensis** Tobias, 2005. Russia: **EP** (S). – Kazakhstan.
- Microchelonus (Microchelonus) belokobylskiji** Tobias, 1984. Russia: **FE** (PR).
- Microchelonus (Microchelonus) bicoloripes** Tobias, 1990. Russia: **FE** (PR).
- Microchelonus (Microchelonus) bidentulus** Tobias et Lukas, 1997 (*Chelonus lukasi* van Achterberg, 2004). Russia: **FE** (KH, PR, SA, KU). – Europe (WE, EE).
- Microchelonus (Microchelonus) bifidus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) bifurcatus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) bigener** Tobias, 1995. Russia: **FE** (KH).
- Microchelonus (Microchelonus) bigus** Tobias, 1995. Russia: **FE** (MG).
- Microchelonus (Microchelonus) biliosus** Tobias, 1995. Russia: **FE** (MG).
- Microchelonus (Microchelonus) binus** Tobias, 1995. Russia: **FE** (PR, KA, MG).
- Microchelonus (Microchelonus) bituminalis** Tobias, 1995. Russia: **ES** (TU), **FE** (KH, PR).
- Microchelonus (Microchelonus) bitumineus** Tobias, 1995. Russia: **FE** (PR).
- Microchelonus (Microchelonus) brevicella** Tobias, 1995. Russia: **FE** (KU).
- Microchelonus (Microchelonus) brevigenis** (Tobias, 1964) [Neochelonella]. Russia: **EP** (E). – Europe (EE), Kyrgyzstan, Kazakhstan, Mongolia.
- Microchelonus (Microchelonus) brevimetacarpus** Tobias, 1995. Russia: **FE** (MG).
- Microchelonus (Microchelonus) brevioculatus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) breviradialis** Tobias, 1989. Russia: **ES** (ZB). – Mongolia.
- Microchelonus (Microchelonus) brevis** (Tobias, 1976) [Chelonus]. Russia: **EP** (NC). – Europe (EE).
- Microchelonus (Microchelonus) burjaticus** Tobias, 2000. Russia: **ES** (BR).
- Microchelonus (Microchelonus) calcaratus** Tobias, 1989. Russia: **ES** (IR). – Mongolia.
- Microchelonus (Microchelonus) capsulifer** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) carinigaster** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) chalchingoli** Tobias, 1989. Russia: **ES** (ZB). – Tajikistan, Mongolia.
- Microchelonus (Microchelonus) chasanicus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) cinctipes** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) circumfissuralis** Tobias, 2003. Russia: **EP** (S).
- Microchelonus (Microchelonus) circumfossa** Tobias, 2002. Russia: **FE** (PR).
- Microchelonus (Microchelonus) cisapicalis** Tobias, 1989. Russia: **ES** (KR, ZB), **FE** (PR). – Mongolia.
- Microchelonus (Microchelonus) continens** Tobias, 1989. Russia: **ES** (TU, ZB). – Mongolia.
- Microchelonus (Microchelonus) contractus** (Nees, 1816) [Sigalphus] (*Chelonus depressus* Thomson, 1874; *Ch. compressiscapus* Szépligeti, 1898). Endoparasitoid of microlepidopterans from the genera *Anthophila* (Choreutidae), *Argyresthia* (Argyrestidae), *Coleophora* (Coleophoridae), *Coptotriche* (Tischeriidae), *Cydia* and *Rhyacionia* (Tortricidae), *Mirificarma* and *Phthorimaea* (Gelechiidae), *Plutella* (Plutellidae), *Prochoreutis* (Choreutidae) and *Vulcasniella* (Cosmopterigidae). Russia: **EP** (NW, C, E, CR), **UR**, **WS** (NS, AL), **ES** (TU, IR, BR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula.
- Microchelonus (Microchelonus) creteus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) curtimetacarpus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) devius** (Tobias, 1964) [Neochelonella]. Russia: **EP** (S). – Europe (SE), Turkey, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Microchelonus (Microchelonus) discolorius** Tobias, 1989. Endoparasitoid of *Ypsolopha* sp. (Plutellidae). Russia: **ES** (BR), **FE** (PR).
- Microchelonus (Microchelonus) dolosus** Tobias, 1989. Russia: **WS** (AL). – Mongolia.
- Microchelonus (Microchelonus) eaous** Tobias, 2000. Russia: **FE** (KH, PR).
- Microchelonus (Microchelonus) elegantulus** Tobias, 1986 (*Microchelonus hiator* Tobias, 1990). Russia: **FE** (PR). – China (NE, CC, SW, SE), Japan.
- Microchelonus (Microchelonus) ergeniensis** Tobias, 2002. Russia: **EP** (S), **UR**.
- Microchelonus (Microchelonus) erosus** (Herrich-Schäffer, 1838) [Chelonus] (*Chelonus hungaricus* Szépligeti, 1896; *Ch. analipennis* Fahringer, 1934; *Microchelonus frivaldszkyi* Shenefelt, 1973). Russia: **EP** (NW, C, NC), ? **ES** (ZB: Telenga, 1941). – Europe (WE, NE, SE, EE), Algeria, Georgia, Azerbaijan, Turkey, Kazakhstan, Mongolia.
- Remarks.** A part of country records of this species are cited after Telenga (1941), but need to be additionally verified.
- Microchelonus (Microchelonus) errabundus** Tobias, 1989. Russia: **ES** (TU). – Mongolia.
- Microchelonus (Microchelonus) erratus** Tobias, 1999 (*Microchelonus erraticus* Tobias, 1994, nom. praeocc., nec Tobias, 1989). Russia: **FE** (KH, KU).

- Microchelonus (Microchelonus) erythrogaster** (Lucas, 1849) [Chelonus]. Russia: **UR**. – Europe (SE), Algeria, Tunisia.
- Microchelonus (Microchelonus) eurous** Tobias, 1989. Russia: **ES** (ZB). – Mongolia.
- Microchelonus (Microchelonus) excisus** Tobias, 1990. Russia: **FE** (PR).
- Microchelonus (Microchelonus) exilis** (Marshall, 1885) [Chelonus] (*Chelonus excavatus* Tobias, 1972). Endoparasitoid of microlepidopterans from the families Cosmopterigidae, Elachistidae and Pyralidae. Russia: **EP** (NW, C, E), **UR**, **WS** (AL), **ES** (TU, IR, ZB). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Microchelonus (Microchelonus) fenestratus** (Nees, 1816) [Sigalphus] (*Chelonus dispar* Marshall, 1885). Endoparasitoid of *Dichrorampha alpinana* Tr., *D. petiverella* L., *Epiblema foenella* L. and *Rhyacionia buoliana* Den. et Schiff. (Tortricidae). Russia: **EP** (C), **UR**, **ES** (KR), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Microchelonus (Microchelonus) fischeri** Tobias, 1994. Russia: **EP** (N, CR). – Europe (WE, NE, SE, EE), Turkey.
- Microchelonus (Microchelonus) flagellaris** Tobias, 1989. Russia: **FE** (PR).
- Microchelonus (Microchelonus) flavicoxis** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) flavipalpis** (Szépligeti, 1896) [Chelonus]. Endoparasitoid of *Parametriotes theae* Kuzn. (Elachistidae) and *Sparganothis pilleriana* Den. et Schiff. (Tortricidae). Russia: **EP** (S, NC), **UR**, **ES** (ZB), **FE** (KH, PR, SA, KU). – Europe (WE, EE), Georgia, Turkey, Mongolia.
- Microchelonus (Microchelonus) flavonaevulus** (Abdinbekova, 1971) [Chelonus]. Russia: **EP** (C, E, S, NC). – Europe (SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kazakhstan.
- Microchelonus (Microchelonus) formosovi** Tobias, 2001. Russia: **WS** (NS).
- Microchelonus (Microchelonus) fornicatus** Tobias, 2000. Russia: **FE** (PR, SA).
- Microchelonus (Microchelonus) fraternus** Tobias, 1990. Russia: **ES** (ZB), **FE** (PR). – Mongolia.
- Microchelonus (Microchelonus) fumipennis** Tobias, 1986. Russia: **FE** (PR). – Europe (EE), Mongolia.
- Microchelonus (Microchelonus) furtivus** Tobias, 1986. Russia: **EP** (NC).
- Microchelonus (Microchelonus) genalis** Tobias, 1989. Russia: **ES** (TU). – Europe (SE), Turkey, Mongolia.
- Microchelonus (Microchelonus) gratus** Tobias, 1989. Russia: **ES** (ZB). – Mongolia.
- Microchelonus (Microchelonus) hemiagathis** Tobias, 1992. Russia: **ES** (ZB).
- Microchelonus (Microchelonus) herbigradus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) ibericus** Tobias, 2001. Russia: **ES** (TU). – Europe (SE, EE).
- Microchelonus (Microchelonus) incisus** Tobias, 1986. Russia: **UR**. – Europe (WE, EE), Mongolia.
- Microchelonus (Microchelonus) indericus** Tobias, 2003. Russia: **ES** (TU), **FE** (PR). – Kazakhstan.
- Microchelonus (Microchelonus) insulanus** Tobias, 2000. Russia: **FE** (KU). – Japan (Kyu).
- Microchelonus (Microchelonus) irremeabilis** Tobias, 1994. Russia: **FE** (PR).
- Microchelonus (Microchelonus) irreprehensus** Tobias, 1994. Russia: **FE** (PR, KU).
- Microchelonus (Microchelonus) irrisor** Tobias, 1994. Russia: **FE** (PR, KA). – Europe (SE), Turkey.
- Microchelonus (Microchelonus) irritator** Tobias, 1994. Russia: **FE** (MG).
- Microchelonus (Microchelonus) irritus** Tobias, 1994. Russia: **FE** (KH, PR). – Europe (WE, NE).
- Microchelonus (Microchelonus) irrugator** Tobias, 1994. Russia: **FE** (PR).
- Microchelonus (Microchelonus) irruptus** Tobias, 1994. Russia: **EP** (C), **UR**, **FE** (PR).
- Microchelonus (Microchelonus) jonaitisi** Tobias, 2000. Russia: **FE** (PR, SA, MG).
- Microchelonus (Microchelonus) kalmykorum** Tobias, 2005. Russia: **EP** (S), **UR**.
- Microchelonus (Microchelonus) karadagensis** Tobias, 2001. Russia: **EP** (CR). – Turkey.
- Microchelonus (Microchelonus) kiritshenkoi** (Tobias, 1976) [Chelonus]. Russia: **EP** (NC). – Europe (SE), Azerbaijan.
- Microchelonus (Microchelonus) kazenasi** Tobias, 2001. Russia: **ES** (TU). – Turkmenistan.
- Microchelonus (Microchelonus) kirvus** Tobias, 1997. Russia: **EP** (NW).
- Microchelonus (Microchelonus) kopetdagicus** (Tobias, 1966) [Neochelonella] (*Neochelonella caucasica* Abdinbekova, 1967). Russia: **EP** (NC, CR). – Europe (WE, SE, EE), Azerbaijan, Turkey, Israel, Kyrgyzstan, Kazakhstan.
- Microchelonus (Microchelonus) kostylevi** Tobias, 2003. Russia: **EP** (CR). – Europe (WE, EE).
- Microchelonus (Microchelonus) kozlovi** (Tobias, 1961) [Chelonella]. Russia: **ES** (BR). – Mongolia.
- Microchelonus (Microchelonus) krivokhatskyi** Tobias, 2005. Russia: **EP** (E).
- Microchelonus (Microchelonus) labipalpis** Tobias, 1994. Russia: **EP** (NW). – Europe (NE), Kazakhstan.
- Microchelonus (Microchelonus) lamellosus** Tobias, 2002. Russia: **FE** (PR).
- Microchelonus (Microchelonus) latifunus** Tobias, 1986. Russia: **FE** (KH, PR).
- Microchelonus (Microchelonus) latrunculus** (Marshall, 1885) [Chelonus] (*Microchelonus rufipedorator* Tobias, 1990). Russia: **EP** (C), **WS** (AL), **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Tajikistan.

- Microchelonus (Microchelonus) leleji** Tobias, 2000. Russia: **FE** (KU).
- Microchelonus (Microchelonus) leucomaculus** Tobias, 1986. Russia: **ES** (ZB). – Europe (EE), Mongolia.
- Microchelonus (Microchelonus) lissoscutellaris** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) lissosoma** Tobias, 2000. Russia: **FE** (SA).
- Microchelonus (Microchelonus) lodosus** Tobias, 2000. Russia: **FE** (MG).
- Microchelonus (Microchelonus) longipes** Tobias, 1984. Russia: **FE** (KU).
- Microchelonus (Microchelonus) longirimosus** Tobias, 1995. Russia: **ES** (TU). – Kyrgyzstan.
- Microchelonus (Microchelonus) longiusculus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) longiventris** (Tobias, 1964) [Neochelonella]. Endoparasitoid of *Multicoloria conspicuella* Z. (Coleophoridae). Russia: **EP** (NW, C: Tobias et al., 1986a), **ES** (ZB). – Europe (WE, EE), Azerbaijan, Turkey, Kazakhstan.
- Microchelonus (Microchelonus) lunaris** Tobias, 1992. Russia: **ES** (ZB).
- Microchelonus (Microchelonus) luteipalpis** Tobias, 1994. Russia: **FE** (PR).
- Microchelonus (Microchelonus) lutoga** Tobias, 2000. Russia: **FE** (SA).
- Microchelonus (Microchelonus) luzhetzkji** (Tobias, 1966) [Neochelonella]. Endoparasitoid of *Yponomeuta malinella* Z., *Y. padella* L. (Yponomeutidae), *Zagulajevia tadjikiella* Dan. and *Cepurga hemirobiella* Scop. (Coleophoridae). Russia: **EP** (S: Tobias, 2010). – Europe (EE), Armenia, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Microchelonus (Microchelonus) marshakovi** Tobias, 1986. Russia: **ES** (ZB), **FE** (PR, MG). – Mongolia.
- Microchelonus (Microchelonus) mellipes** Tobias, 1990. Russia: **FE** (PR).
- Microchelonus (Microchelonus) microcella** Tobias, 2005. Russia: **EP** (S).
- Microchelonus (Microchelonus) microphtalmus** (Wesmael, 1838) [Chelonus] (*Microchelonus dilatus* Papp, 1971). Endoparasitoid of *Coleophora hemerobiella* Scop. (Coleophoridae). Russia: **EP** (NW, C, E, NC, CR), **UR**, **ES** (TU, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Tunisia, Turkey, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula.
- Microchelonus (Microchelonus) mishi** Tobias, 1994. Russia: **ES** (ZB). – Mongolia.
- Microchelonus (Microchelonus) mongolicus** (Telenga, 1941) [Chelonella] (*Microchelonus planicornis* Tobias, 1989). Russia: **ES** (TU, ZB). – Mongolia.
- Microchelonus (Microchelonus) moskovitus** Tobias, 1997. Russia: **EP** (C).
- Microchelonus (Microchelonus) nartshukae** Tobias, 1989. Russia: **ES** (TU). – Mongolia.
- Microchelonus (Microchelonus) nigricans** Tobias, 1997. Russia: **EP** (CR).
- Microchelonus (Microchelonus) nigrimembris** Tobias, 1992. Russia: **ES** (IR, ZB), **FE** (KH, PR, SA).
- Microchelonus (Microchelonus) nigrinervis** Tobias, 1990. Russia: **FE** (KA).
- Microchelonus (Microchelonus) nigripes** Tobias, 1996. Russia: **FE** (KA). – Europe (WE, NE), Mongolia.
- Microchelonus (Microchelonus) olgacola** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) ononicus** Tobias, 2000. Russia: **ES** (ZB).
- Microchelonus (Microchelonus) opacus** Tobias, 1989. Russia: **ES** (TU, ZB). – Mongolia.
- Microchelonus (Microchelonus) orenburgensis** Tobias, 1997. Russia: **EP** (CR), **UR**.
- Microchelonus (Microchelonus) orotukanensis** Tobias, 2000. Russia: **FE** (MG).
- Microchelonus (Microchelonus) palpator** Tobias, 1986. Russia: **FE** (PR).
- Microchelonus (Microchelonus) paralunaris** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) parverticalis** Tobias, 2000. Russia: **FE** (PR, SA).
- Microchelonus (Microchelonus) pectinophorae** (Cushman, 1931) [Chelonus] (*Chelonella nitobei* Sonan, 1932). Endoparasitoid of microlepidopterans from the families Gelechiidae, Nolidae and Tortricidae. Russia: **FE** (KH, PR, KU). – Mongolia, China (NE, NC, SW, CC, SW, SE), Korean Peninsula, Japan, N America (introduced).
- Microchelonus (Microchelonus) pilicornis** (Thomson, 1874) [Chelonus] (*Microchelonus sculptilis* Tobias, 1986). Russia: **EP** (E, S). – Europe (NE, SE, EE), Kazakhstan.
- Microchelonus (Microchelonus) pini** Tobias, 2002. Russia: **EP** (C, S), **UR**. – Europe (WE, SE, EE).
- Microchelonus (Microchelonus) plenus** Papp, 1989. Russia: **FE** (SA). – Korean Peninsula.
- Microchelonus (Microchelonus) punctifossa** Tobias, 2002. Russia: **EP** (S). – Turkey.
- Microchelonus (Microchelonus) punctiscutellaris** Tobias, 2000. Russia: **FE** (KH, PR).
- Microchelonus (Microchelonus) retusus** (Nees, 1816) [Sigalphus] (*Chelonus emarginatus* Herrich-Schäffer, 1838; *Ch. subemarginatus* Herrich-Schäffer, 1838; *Ch. caudatus* Thomson, 1874). Endoparasitoid of *Alucita hexadactyla* L. (Alucitidae). Russia: **EP** (without regions: Tobias, 2010), **ES** (KS, BR, ZB). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Turkmenistan, Mongolia.
- Microchelonus (Microchelonus) ripaeus** Tobias, 1986. Russia: **EP** (N, NW), **UR**. – Europe (WE, SE, EE), Turkey.
- Microchelonus (Microchelonus) risorius** (Reinhard, 1867) [Chelonus] (*Chelonus fissus* Szépligeti, 1900; *Neochelonella fissuralis* Tobias, 1964; *Microchelonus magnifissus* Tobias, 1986). Doubtful records as parasitoid of *Biorhiza pallida* Oliv. and *B. terminalis* F. (Cynipidae). Russia: **EP** (C, E), **ES**

- (TU, YA, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Armenia, Turkey, Kyrgyzstan, Kazakhstan, Mongolia.
- Microchelonus (Microchelonus) rostratus** (Tobias, 1966) [Neochelonella]. Russia: **EP** (S, NC). – Europe (SE, EE), Armenia, Azerbaijan, Turkey, Turkmenistan.
- Microchelonus (Microchelonus) rotundifossa** Tobias, 2000. Russia: **FE** (PR). – Japan (Kyu).
- Microchelonus (Microchelonus) rugosinotum** Tobias, 2000. Russia: **FE** (MG).
- Microchelonus (Microchelonus) ruptor** Tobias, 2000. Russia: **FE** (SA).
- Microchelonus (Microchelonus) scabrosus** (Szépligeti, 1896) [Chelonus]. Russia: **EP** (E, CR), **ES** (IR). – Europe (WE, SE, EE), Algeria, Turkey, Uzbekistan, Kyrgyzstan, Mongolia.
- Microchelonus (Microchelonus) semenovi** Tobias, 1986. Russia: **EP** (C), **UR**, **FE** (PR).
- Microchelonus (Microchelonus) semilunaris** Tobias, 2000. Russia: **FE** (KH).
- Microchelonus (Microchelonus) sinevi** Tobias, 2000. Parasitoid of *Batrachedra albicapitella* Sinev (Batrachedridae). Russia: **FE** (PR).
- Microchelonus (Microchelonus) sochiensis** Tobias, 1997. Russia: **EP** (NC), **ES** (TU).
- Microchelonus (Microchelonus) sochiorum** Tobias, 2005. Russia: **EP** (NC).
- Microchelonus (Microchelonus) sordipalpis** Tobias, 1994. Russia: **FE** (PR).
- Microchelonus (Microchelonus) spasskensis** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) stenogaster** Tobias, 1995. Russia: **ES** (BR). – Europe (EE), Kazakhstan.
- Microchelonus (Microchelonus) subabditus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) subabstrusus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) subamandus** Tobias, 2000. Russia: **FE** (PR). – Japan (Kyu).
- Microchelonus (Microchelonus) subangustatus** Tobias, 1994. Russia: **ES** (ZB), **FE** (PR).
- Microchelonus (Microchelonus) subarcuatilis** Tobias, 1986. Russia: **EP** (S). – Europe (EE), Armenia, Turkey, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Microchelonus (Microchelonus) subcapsulifer** Tobias, 2000. Russia: **FE** (KU).
- Microchelonus (Microchelonus) subcontractus** (Abdinbekova, 1971) [Chelonus]. Endoparasitoid of *Elachista* sp. (Elachistidae), *Phthorimaea operculella* Z. (Gelechiidae) and *Vulcaniella extremella* Wocke (Cosmopterigidae). Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **ES** (TU), **FE** (KH, PR, KU, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Microchelonus (Microchelonus) subelegantulus** Tobias, 1994. Russia: **FE** (PR).
- Microchelonus (Microchelonus) subfenestratus** Tobias, 1984. Russia: **ES** (TU), **FE** (PR).
- Microchelonus (Microchelonus) subflagellaris** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) subgenalis** Tobias, 1991. Russia: **ES** (TU). – Tajikistan.
- Microchelonus (Microchelonus) submarginalis** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) subrimulosus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) subventosus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) subversatilis** Tobias, 2005. Russia: **UR**, **ES** (TU).
- Microchelonus (Microchelonus) subverticalis** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) sulcatus** (Jurine, 1807) [Chelonus] (*Chelonus rimulosus* Thomson, 1874; *Ch. curvisulcatus* Szépligeti, 1896; *Ch. rimatus* Szépligeti, 1896). Endoparasitoid of microlepidopterans from the subfamilies Carposinidae, Coleophoridae, Crambidae, Gelechiidae, Noctuidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, S, NC, CR), **ES** (IR), **FE** (PR, MG). – Europe (WE, NE, SE, EE), Algeria, Armenia, Azerbaijan, Turkey, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Microchelonus (Microchelonus) tauricola** Tobias, 2001. Russia: **EP** (CR). – Europe (EE).
- Microchelonus (Microchelonus) tauricus** Tobias, 1990. Russia: **EP** (S, CR), **ES** (TU). – Europe (EE), Kazakhstan.
- Microchelonus (Microchelonus) temporalis** Tobias, 1986 (*Microchelonus irrepertus* Tobias, 1994). Russia: **EP** (C), **UR**, **FE** (KH, PR, SA, KU). – Europe (WE, NE, EE), Turkey, Kyrgyzstan.
- Microchelonus (Microchelonus) tingitanus** Tobias, 2002. Russia: **EP** (S).
- Microchelonus (Microchelonus) tolii** Tobias, 2000. Russia: **FE** (KU).
- Microchelonus (Microchelonus) transbaicalicus** Tobias, 1992. Russia: **ES** (ZB).
- Microchelonus (Microchelonus) transversus** Tobias, 1989. Russia: **ES** (ZB). – Mongolia.
- Microchelonus (Microchelonus) tricoloratus** Tobias, 1989. Russia: **FE** (PR).
- Microchelonus (Microchelonus) tsagannuri** Tobias, 2005. Russia: **EP** (S).
- Microchelonus (Microchelonus) turgidus** Tobias, 1994. Russia: **ES** (ZB). – Mongolia.
- Microchelonus (Microchelonus) uniformis** Tobias, 1994. Russia: **ES** (ZB).
- Microchelonus (Microchelonus) varus** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) verticalis** Tobias, 1995. Russia: **FE** (MG).
- Microchelonus (Microchelonus) vescus** (Kokujev, 1899) [Chelonus] (*Chelonus minutus* Szépligeti, 1898). Russia:

- EP** (S), **FE** (SA). – Europe (WE, EE), Armenia, Azerbaijan, Turkey, Kazakhstan.
- Microchelonus (Microchelonus) victorovi** Tobias, 1999. Russia: **EP** (S). – Europe (WE).
- Microchelonus (Microchelonus) vitasi** Tobias, 2000. Russia: **FE** (SA).
- Microchelonus (Microchelonus) volgensis** Tobias, 1986. Russia: **EP** (E, S). – Kazakhstan, China (NW).
- Microchelonus (Microchelonus) vulcaniellae** Tobias, 1990. Endoparasitoid of *Vulcaniella extremella* Wocke (Cosmopterigidae). Russia: **EP** (CR). – Europe (EE), Kazakhstan.
- Microchelonus (Microchelonus) xenia** Tobias, 2000. Russia: **FE** (PR).
- Microchelonus (Microchelonus) zeravshanicus** Tobias, 2003. Russia: **ES** (TU). – Tajikistan.
- Microchelonus (Parachelonus) gravenhorstii** (Nees, 1816) [Sigalphus] (*Chelonus maculator* Dahlbom, 1833; *Ch. eurytheca* Wesmael, 1838; *Ch. adjaricus* Tobias, 1976; *Ch. tricolor* Tobias, 1976). Russia: **EP** (NW, C, E, NC, CR), **UR**, **ES** (ZB), **FE** (KH, PR). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula.
- Microchelonus (Parachelonus) magnipunctus** Tobias, 1984. Russia: **FE** (KH).
- Microchelonus (Parachelonus) ovalis** Tobias, 1984. Russia: **FE** (KH).
- Microchelonus (Parachelonus) pellucens** (Nees, 1816) [Sigalphus] (*Chelonus nitens* Reinhard, 1867; *Ch. alboannulatus* Szépligeti, 1896; *Ch. pulchricornis* Szépligeti, 1898; *Ch. varimaculatus* Tobias, 1996). Endoparasitoid of lepidopterans from the genera *Bembecia* and *Chamaesphesia* (Sesiidae). Russia: **EP** (NW, C, S, NC, CR), **UR**, **ES** (TU, ZB). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Microchelonus (Parachelonus) starki** (Telenga, 1953) [Chelonus]. Endoparasitoid of lepidopterans from the genera *Synanthedon* and *Paranthrene* (Sesiidae) and also *Cydia pomonella* L. (Tortricidae). Russia: **EP** (C, S), **WS** (AL), **ES** (ZB), **FE** (PR, MG). – Europe (SE, EE), Kazakhstan, Mongolia.
- Microchelonus (Parachelonus) xanthofossa** Tobias, 2000. Russia: **FE** (PR, SA). – Japan (Kyu).
- Microchelonus (Rasnichelonus) elongatus**, Papp, 1971 (*Microchelonus rasnitsyni* Tobias, 1992). Russia: **ES** (IR, ZB). – Mongolia.
- Microchelonus (Stylochelonus) clausus** Tobias, 1996. Russia: **FE** (KA). – Mongolia.
- Microchelonus (Stylochelonus) karadagi** Tobias, 1995. Russia: **EP** (CR). – Europe (EE).
- Microchelonus (Stylochelonus) lissofossa** Tobias, 2000. Russia: **FE** (PR, KU, MG).
- Microchelonus (Stylochelonus) magadani** Tobias, 1994. Russia: **FE** (MG).
- Microchelonus (Stylochelonus) pedator** (Dahlbom, 1833) [Chelonus] (*Chelonus secutor* Marshall, 1885). Endoparasitoid of *Aphelia paleana* Hbn. (Tortricidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Microchelonus (Stylochelonus) pusillus** (Szépligeti, 1908) [Chelonus] (*Microchelonus tuberculiventris* Tobias, 1986). Endoparasitoid of *Elachista* sp. (Elachistidae). Russia: **EP** (NW, C, E, S, NC), **UR**, **ES** (TU), **FE** (PR, KU). – Europe (NE, SE, EE), Georgia, Azerbaijan, Mongolia.
- Microchelonus (Stylochelonus) septemdecimplex** Tobias, 1986. Russia: **FE** (KA).
- Microchelonus (Stylochelonus) subpedator** Tobias, 1995. Russia: **ES** (ZB), **FE** (KU). – Europe (WE, EE).

Tribe PHANEROTOMINI

- PHANEROTOMA** Wesmael, 1838 (*Phanerogaster* Wesmael, 1838; *Sulydus* Buysson, 1897; *Ichneutipterus* Vachal, 1907; *Neophanerotoma* Szépligeti, 1908; *Tritoma* Szépligeti, 1908; *Bracotritoma* Csiki, 1909; *Szépligetia* Schulz, 1911; *Neoacampis* Szépligeti, 1914; *Tritomios* Strand, 1921; *Phanerotomina* Shestakov, 1930; *Unica* Šnoflák, 1951). Type species: *Chelonus dentatus* Panzer, 1805. Almost worldwide distributed genus, in the Palearctic region more abundant in its southern parts. Number of species: World – more than 200, Palearctic – 67, Russia – 25.
- Phanerotoma (Bracotritoma) atra** Šnoflák, 1951. Russia: **EP** (NW, S, NC), **FE** (KH, PR, SA, KA). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Korean Peninsula.
- Phanerotoma (Bracotritoma) bilinea** Lyle, 1924 (*Phanerotoma gregori* Šnoflák, 1951). Endoparasitoid of *Argyrotaenia ljugiana* Thunb. (Tortricidae) and *Prays citri* Mill. (Praydidae). Russia: **EP** (CR), **FE** (PR). – Europe (WE, SE, EE), Azerbaijan, Korean Peninsula, Japan.
- Phanerotoma (Bracotritoma) curvinervis** Tobias, 2000. Russia: **FE** (PR).
- Phanerotoma (Bracotritoma) gijswijti** van Achterberg, 1990. Russia: **EP** (C). – Europe (SE, EE).
- Phanerotoma (Bracotritoma) gracilis** Tobias, 1970. Russia: **FE** (KH).
- Phanerotoma (Bracotritoma) kamtshatica** Tobias, 2000. Russia: **FE** (KA).
- Phanerotoma (Bracotritoma) moravica** Šnoflák, 1951. Russia: **EP** (? C: Tobias et al., 1986a). – Europe (SE, EE).
- Phanerotoma (Bracotritoma) parastigmalis** Tobias, 2000. Russia: **FE** (PR).
- Phanerotoma (Bracotritoma) pedra** Papp, 1989. Russia: **FE** (PR). – Korean Peninsula.
- Phanerotoma (Bracotritoma) tritoma** (Marshall, 1898) [Chelonus] (*Phanerotoma antennalis* Šnoflák, 1951). Endoparasitoid of lepidopterans from the families Coleophoridae, Gelechiidae, Lymantriidae and Tortricidae. Russia:

- EP** (NW, C), **UR**, **WS** (NS), **FE** (PR, SA, KU). – Europe (WE, SE, EE), Korean Peninsula, Japan.
- Phanerotoma (Phanerotoma) zinovjevi** Tobias, 2000. Russia: **FE** (MG).
- Phanerotoma (Phanerotoma) acuminata** Szépligeti, 1908. Endoparasitoid of *Hypsopygia costalis* F. (Pyralidae). Russia: **EP** (C, NC, CR), **FE** (PR). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Mongolia, Korean Peninsula, N America.
- Phanerotoma (Phanerotoma) dentata** (Panzer, 1805) [Chelonus] (*Sigalphus dentator* Nees, 1816; *Phanerotoma rugiferum* Wesmael, 1838; *Ph. rendilea* Fahringer, 1934; *Ph. minor* Šnoflák, 1951). Endoparasitoid of lepidopterans from the families Gelechiidae, Lymantriidae, Peleopodidae, Praydidae, Pyralidae, Sesiidae and Tortricidae. Russia: **EP** (NW, C, S, CR), **UR**, **WS** (NS, AL), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Algeria, Egypt, Georgia, Armenia, Azerbaijan, Turkey, Uzbekistan, Kazakhstan, Korean Peninsula, USA (introduced).
- Phanerotoma (Phanerotoma) diversa** (Walker, 1874) [Chelonus] (*Phanerotoma ussuriensis* Telenga, 1941; *Ph. picta* Šnoflák, 1951). Endoparasitoid of *Acrobasis cymindella* Rag. (Phycitidae), *Conobathra fraukella* Roesler (Pyralidae) and *Zeiraphera isertana* F. (Tortricidae). Russia: **EP** (C, E), **ES** (KR, ZB), **FE** (AM, KH, PR). – Europe (WE, SE, EE), Mongolia, Korean Peninsula, Japan, N America.
- Phanerotoma (Phanerotoma) fracta** Kokujev, 1903 (*Phanerotoma rjabovi* Vojnovskaja-Krieger, 1929; *Ph. media* Shestakov, 1930; *Ph. planifrons* auct., part.). Endoparasitoid of lepidopterans from the families Gelechiidae and Pyralidae. Russia: **EP** (C, E, S, NC), **UR**, **ES** (IR, ZB), **FE** (PR, KU). – Europe (WE, SE, EE), Armenia, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula.
- Phanerotoma (Phanerotoma) katkowi** Kokujev, 1900 (*Phanerotoma sareptana* Kohl, 1906). Russia: **EP** (C, E, S), **UR**, **WS** (OM). – Europe (SE, EE), Israel, Kazakhstan, Mongolia.
- Phanerotoma (Phanerotoma) kotenkoi** Tobias, 2000. Russia: **ES** (ZB).
- Phanerotoma (Phanerotoma) obscura** Šnoflák, 1951. Endoparasitoid of *Assara terebrella* Zinck., *Dioryctria abietella* Den. et Schiff., *Ephesia terebellum* Z. (Pyralidae) and *Cydia strobilella* L. (Tortricidae). Russia: **EP** (N, NW, S), **ES** (IR), **FE** (KH). – Europe (WE, EE).
- Phanerotoma (Phanerotoma) offensa** Papp, 1989. Endoparasitoid of *Conogethes punctiferalis* Gn. (Crambidae). Russia: **FE** (PR). – Korean Peninsula.
- Phanerotoma (Phanerotoma) planifrons** (Nees, 1816) [Sigalphus] (*Phanerotoma blanda* Fahringer, 1934; *Ph. bicolor* Šnoflák, 1958; *Ph. asini* Llopis-Mingues, 1968; *Ph. snoflaki* Shenefelt, 1973). Endoparasitoid of lepidopterans from the families Crambidae, Lasiocampidae, Pyralidae and Tortricidae. ? Russia: **EP** (NW, NC, E), **ES** (KR, IR), **FE** (AM) (see Remarks). – Europe (WE, SE, EE), Morocco, Tunisia, Algeria, Georgia, Azerbaijan, Turkey, Uzbekistan, Afghanistan, Mongolia, China (CC, NE, SE), Korean Peninsula, Japan, USA.
- Remarks.** All records of this species in the Russian fauna belong to the old period of genus study (Kokujev, 1900; Telenga, 1941; Tobias, 1971). There are no new records of this species after revision of the genus by van Achterberg (1990) as well as any determined material in the ZIN Braconidae collection. As a result, the presence of *Ph. planifrons* in the fauna of Russia is questionable.
- Phanerotoma (Phanerotoma) producta** Watanabe, 1937. Russia: **FE** (PR). – Korean Peninsula, Japan.
- Phanerotoma (Phanerotoma) rufescens** (Latreille, 1809) [Sigalphus] (*Phanerotoma rugifera* Wesmael, 1838; *Ph. platypyga* Šnoflák, 1951; *Ph. planifrons* auct., part.). Russia: **FE** (PR, KU). – Europe (WE, EE).
- Phanerotoma (Phanerotoma) sculptifrons** Tobias, 1970. Russia: **FE** (PR, KU).
- Phanerotoma (Phanerotoma) semenovi** Kokujev, 1900. Russia: **EP** (NC). – Europe (SE, EE), Turkmenistan, Kazakhstan, Mongolia.
- Phanerotoma (Phanerotoma) soror** van Achterberg, 1990 (*Phanerotoma planifrons* auct., part.). Russia: **UR**, **FE** (PR). – Europe (WE, SE).
- PHANEROTOMELLA** Szépligeti, 1900 (*Plesiosphaeropyx* Cameron, 1912). Type species: *Phanerotomella longipes* Szépligeti, 1900. All species of this genus were only recorded in the Old World and Australia. Number of species: World – 90, Palaearctic – 11, Russia – 5.
- Phanerotomella bisulcata** (Herrich-Schäffer, 1838) [Chelonus] (*Phanerotomella nigra* Szépligeti, 1900; *Ph. flavipes* Šnoflák, 1951). Russia: **EP** (NC). – Europe (WE, SE, EE), ? Korean Peninsula.
- Phanerotomella mariae** Belokobylskij, 1986. Russia: **FE** (PR). – China (SW, SE), Korean Peninsula.
- Phanerotomella orientalis** Tobias, 1986. Russia: **FE** (PR). – Korean Peninsula.
- Phanerotomella tobiasi** Belokobylskij, 1986. Russia: **FE** (PR). – China (CC, SW, SE), Japan.
- Phanerotomella variareolata** Belokobylskij, 1986. Russia: **FE** (PR, KU). – China (SW, SE).

Subfamily DIRRHOPINAE

S.A. BELOKOBYLSKIJ

Small monotypic subfamily whose members are parasitoids of the Microlepidoptera. Distributed in the Holarctic and Australasian regions.

Number of taxa: World – 1 genus and 5 species, Palaearctic – 1/4, Russia – 1/3.

References. Belokobylskij, 1989c; Belokobylskij et al., 1998; Yu et al., 2016.

DIRRHOPHE Foerster, 1851. Type species: *Dirrhophe rufa* Foerster, 1851. Small genus. Nearctic *D. americana* Muesebeck, 1936 was reared from caterpillars of the family Nepticulidae. Number of species: World – 5, Palaearctic – 4, Russia – 3.

Dirrhophe eoa Belokobylskij, 1989. Russia: **FE** (PR).

Dirrhophe minor Belokobylskij, 1989. Russia: **FE** (PR). – Vietnam, Australia.

Dirrhophe rufa Foerster, 1851. Russia: **EP** (E), **FE** (PR). – Europe (WE, EE), Korean Peninsula, Japan.

Subfamily DORYCTINAE

S.A. BELOKOBYSKIJ

This is a large and very polymorphic subfamily, whose members are very abundant in the subtropics and tropics (especially in the Neotropical region). The generic classification suggested by Belokobylskij (1992, 1993c) has been considerably re-organized subsequently based on molecular data (Zaldívar-Riverón et al., 2008a), but has not yet been finalized or agreed upon.

Most members of Doryctinae are idiobiont ectoparasitoids of the larvae of xylophagous and bark-boring (rarely stem-boring or seed-feeding) Coleoptera. However, the members of several taxa attack the larvae of Lepidoptera (including xylophagous ones), Hymenoptera (Symphyta) and Isoptera. Members of a few Neotropical and Oriental doryctine genera are phytophagous (Shenefelt, Marsh, 1976; Belokobylskij, Maetô, 2009; Yu et al., 2016).

Number of taxa: World – 196 genera and more than 2000 species, Palaearctic – 35/290, Russia – 28/110.

References. Nixon, 1943c; Fischer, 1960, 1981; Shenefelt, Marsh, 1976; Chao, 1977, 1978; Tobias et al., 1986a; Belokobylskij, 1989d, 1990a, 1992b, 1993b, 1993c, 2003, 2009a, 2016; Papp, 1991, 2016; Quicke et al., 1992; Belokobylskij et al., 1998, 2012a, 2012b, 2013b, 2013c; van Achterberg, 2003, 2014; Belokobylskij, Chen, 2004; Zaldívar-Riverón et al., 2008a; Belokobylskij, Maetô, 2009; Belokobylskij, Samartsev, 2011; Samartsev, Belokobylskij, 2013; Tang et al., 2013, 2015; Gebiola et al., 2015; Yu et al., 2016; Zaldívar-Riverón et al., 2018; Jasso-Martínez et al., 2019.

Tribe DORYCTINI

CAENOPHANES Foerster, 1863 (*Synodus* Ratzeburg, 1848; *Astigmatandrus* Belokobylskij, 1983; *Ratzynodus* Papp, 1984). Type species: *Bracon incompletus* Ratzeburg, 1844. Small and almost worldwide distributed genus; ectoparasitoids of the coleopteran larvae mainly from the families Cerambycidae and Buprestidae. The genus includes two subgenera, *Caenophanes* s. str. and Australasian *Pacificophanes* Belokobylskij, 2010. Number of species: World – 17, Palaearctic – 6, Russia – 1.

Caenophanes (Caenophanes) incompletus (Ratzeburg, 1844) [Bracon]. Endoparasitoid of *Pogonocherus fasciculatus* Deg. (Cerambycidae). Russia: **EP** (E), **WS** (NS). – Europe (WE, SE, EE).

Remarks. All other geographical records of this species (Yu et al., 2016) as well as its host information may be erroneous and should be carefully verified (Belokobylskij et al., 2011).

DENDROSOTER Wesmael, 1838 (*Eurybolus* Ratzeburg, 1848; *Caenopachys* Foerster, 1863). Type species: *Bracon protuberans* Nees, 1834. Relatively small genus with almost worldwide distribution. However, the most part of tropical species (according to molecular and morphological data) belong to other, yet undescribed genera. *Caenopachys* Foerster, 1863 previously had been considered as a subgenus of *Dendrosoter*, but the molecular study (Gebiola et al., 2015) showed that its type species is nested distinctly inside the real members of *Dendrosoter*. Endoparasitoids of coleopteran larvae basically from the family Curculionidae (Scolytinae). Number of species: World – 21, Palaearctic – 4, Russia – 3.

Dendrosoter hartigii (Ratzeburg, 1848) [Bracon] (*Dendrosoter flaviventris* Foerster, 1878; *D. caenopachoides* Ruschka, 1925). Endoparasitoid of coleopterans from the genera *Blastophagus*, *Carphoborus*, *Crypturgus*, *Hylastes*, *Ips*, *Orthotomicus*, *Pityogenes*, *Pityophthorus*, *Polygraphus* and *Scolytus* (Curculionidae: Scolytinae). Russia: **EP** (NW, C, E, CR), **WS** (TK, NS). – Europe (WE, NE, SE, EE), Morocco, Algeria, Tunisia, Georgia, Armenia, Turkey, Israel, South Africa (introduced).

Dendrosoter middendorffii (Ratzeburg, 1848) [Bracon]. Endoparasitoid of coleopterans from the genera *Blastophagus*, *Carphoborus*, *Crypturgus*, *Dendroctonus*, *Hylastes*, *Hylurgops*, *Ips*, *Orthotomicus*, *Pityogenes*, *Pityophthorus*, *Polygraphus*, *Scolytus*, etc. (Curculionidae: Scolytinae), *Magdalis* and *Pissodes* (Curculionidae). Russia: **EP** (N, NW, C, E, CR), **UR**, **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Israel, Iran, Japan (Hok), India.

Dendrosoter protuberans (Nees, 1834) [Bracon] (*Dendrosoter insignis* Foerster, 1878). Endoparasitoid of numerous coleopteran genera from the family Curculionidae (Scolytinae) and some Cerambycidae. Russia: **EP** (C, E, S, NC). – Europe (WE, NE, SE, EE), Tunisia, Egypt, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Kyrgyzstan, Kazakhstan, USA.

DENDROSOTINUS Telenga, 1941 (*Gildoria* Hedqvist, 1974). Type species: *Dendrosoter ferrugineus* Marshall, 1888. Small genus distributed in the Palaearctic, Oriental and Afrotropical regions. The genus includes two subgenera, *Dendrosotinus* s. str. and *Gildoria* Hedqvist, 1974. Number of species: World – 17, Palaearctic – 11, Russia – 2.

- Dendrosotinus (Dendrosotinus) ferrugineus** (Marshall, 1888) [Dendrosoter]. Endoparasitoid of coleopterans from the genera *Chaetoptelius* and *Phloeotribus* (Curculionidae: Scolytinae), *Scobicia* and *Sinoxylon* (Bostriichidae). Russia: **EP** (NC). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Israel.
- Dendrosotinus (Gildoria) similis** Bouček, 1955 Endoparasitoid of coleopterans from the genera *Cryphalus* and *Pityophthorus* (Curculionidae: Scolytinae). Russia: **EP** (NC). – Europe (WE, EE), Georgia, Israel.
- DORYCTES** Haliday, 1836 (*Ischiogonus* Wesmael, 1838; *Neodoryctes* Szépligeti, 1914; *Udamolcus* Enderlein, 1920; *Pristodoryctes* Kieffer, 1921; *Plyctes* Fischer, 1981). Type species: *Bracon obliteratus* Nees, 1834. Large genus with almost worldwide distribution. The genus includes three subgenera, *Doryctes* s. str., *Neodoryctes* Szépligeti, 1914 and *Plyctes* Fischer, 1981, but according to a molecular study (Zaldívar-Riverón et al., 2008a) the two latter names should be considered as separate genera. However, this decision requires further morphological evaluation. Ectoparasitoids of coleopteran larvae mainly from the families Anobiidae, Buprestidae and Cerambycidae; has also been reared from hymenopteran larvae of the family Xiphydriidae. Number of species: World – 88, Palaearctic – 26, Russia – 13.
- Doryctes (Doryctes) fulviceps** Reinhard, 1865 (*Doryctes grandis* Szépligeti, 1896). Russia: **EP** (C, S), **FE** (PR, SA, KU). – Europe (WE, EE), Korean Peninsula, Japan.
- Doryctes (Doryctes) gyljak** Shestakov, 1940 (*Doryctes gyljak* Telenga, 1941; *D. strigosus* Chen et Shi, 2004). Russia: **FE** (KH, PR, SA). – Kazakhstan, China (NE, NC, CC), Korean Peninsula.
- Doryctes (Doryctes) leucogaster** (Nees, 1834) [Bracon] (*Ischiogonus erythrogaster* Wesmael, 1838; *Doryctes liogaster* Marshall, 1899; *D. leucogaster caucasicus* Kokujev, 1900; *D. leucogaster disputabilis* Kokujev, 1900; *D. marothiensis* Szépligeti, 1902; *D. pulchripes* Szépligeti, 1905; *D. leucogaster turkestanicus* Telenga, 1941). Ectoparasitoid of coleopteran larvae from numerous genera of the families Anobiidae, Bostrichidae, Buprestidae and Cerambycidae. Russia: **EP** (C, E, S, NC, CR), **UR**, **ES** (IR). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Uzbekistan, Kazakhstan, ? China (CC, SE).
- Doryctes (Doryctes) molorchi** Fischer, 1971. Ectoparasitoid of *Molorchus umbellatarum* Schreber (Cerambycidae). Russia: **EP** (NC). – Europe (WE), Georgia, Turkey.
- Doryctes (Doryctes) obliteratus** (Nees, 1834) [Bracon] (*Bracon striatellus* Nees, 1834; *Rogas tabidus* Haliday, 1836; *Bracon disparator* Ratzeburg, 1844; *Doryctes rex* Marshall, 1897; *D. strigatus* Kokujev, 1900; *D. striatellus ambigua* Kokujev, 1900; *D. striatellus notatus* Kokujev, 1900; *D. petrovskii* Kokujev, 1902; *D. striatelloides* Strand, 1918; *D. mutillator* auct.). Ectoparasitoid of coleopteran larvae of the families Anobiidae, Buprestidae, Curculionidae and Cerambycidae and *Xiphydria prolongata* Geoffr. (Hymenoptera: Xiphydriidae). Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (TK, NS), **ES** (TU, KR, IR, YA, ZB), **FE** (AM, KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Tajikistan, Kazakhstan, Mongolia, China (NE, SW), Japan (Hok).
- Remarks.** This is a very variable species and perhaps it consists of several sibling taxa. We accept here the preliminary synonymy of *D. obliteratus* (Nees, 1834) and *D. striatellus* (Nees, 1834) according to Papp (2016).
- Doryctes (Doryctes) petiolatus** Shestakov, 1940 (*Doryctes petiolatus* Telenga, 1941). Ectoparasitoid of *Massicus raddei* Blesig (Cerambycidae). Russia: **ES** (KR, BR), **FE** (KH, PR, SA, KU). – Kazakhstan, China (NE, NC, CC), Korean Peninsula.
- Doryctes (Doryctes) planiceps** Reinhard, 1865. Ectoparasitoid of *Saperda populnea* L. (Cerambycidae). Russia: **EP** (NW). – Europe (WE, SE, EE).
- Remarks.** Most probably this is only the morphological form of *D. obliteratus* (Nees) with more strongly dorso-ventrally depressed body depended on the size of the host tunnel.
- Doryctes (Doryctes) pomarius** Reinhard, 1865. Ectoparasitoid of coleopteran larvae from the families Anobiidae, Curculionidae and Cerambycidae. Russia: **EP** (NW). – Europe (WE, SE, EE).
- Doryctes (Doryctes) rossicus** Telenga, 1941. Ectoparasitoid of *Xiphydria camelus* L. (Xiphydriidae). Russia: **EP** (N, C), **ES** (YA), **FE** (KH, PR, MG). – Europe (EE), Kazakhstan.
- Doryctes (Doryctes) undulatus undulatus** (Ratzeburg, 1852) [Bracon] (*Doryctes brachyurus* Marshall, 1888). Ectoparasitoid of coleopteran larvae from the families Buprestidae, Curculionidae and Cerambycidae. Russia: **EP** (NW, C, E, NC), **UR**, **ES** (ZB), **FE** (KH, PR, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, China (NE, NC), Korean Peninsula, Japan (Hok, Hon, Shi).
- Doryctes (Doryctes) undulatus ussuriensis** (Belokobylskij, 1994) (*Doryctes mutillator ussuriensis* Belokobylskij, 1994). Russia: **FE** (PR).
- Doryctes (Neodoryctes) slavianka** Belokobylskij, 1996. Russia: **FE** (PR). – Korean Peninsula.
- Doryctes (Plyctes) punctatus** Belokobylskij, 1984. Russia: **FE** (PR). – Korean Peninsula, Japan (Hon).
- EODENDRUS** Belokobylskij, 1998. Type species: *Dendrosotinus eous* Belokobylskij, 1988. Small genus recorded mainly in the subtropics and tropics of the Old World. Number of species: World – 9, Palaearctic and Russia – 1.
- Eodendrus eous** (Belokobylskij, 1988) [Dendrosotinus]. Russia: **FE** (PR). – Japan (Hon).
- GUAYGATA** Marsh, 1993. Type species: *Guaygata howdeni* Marsh, 1993. Small genus distributed in the East

Palearctic, Oriental and Neotropical regions. Number of species: World – 4, Palearctic – 2, Russia – 1.

Guaygata mariae (Belokobylskij, 1993) [*Neurocrassus*]. Russia: **FE** (PR). – China (CC, SE), Japan (Hon), Vietnam.

HYPODORYCTES Kokujev, 1900 (*Mixtec* Marsh, 1993). Type species: *Hypodoryctes sibiricus* Kokujev, 1900. Small genus distributed in the Eastern Palearctic, Oriental and Neotropical regions; ectoparasitoids of coleopteran larvae from the family Buprestidae. Number of species: World – 10, Palearctic – 7, Russia – 5.

Hypodoryctes bilobus (Shestakov, 1940) [*Doryctes*] (*Doryctodes bilobus* Telenga, 1941). Russia: **ES** (ZB), **FE** (AM, KH, PR, SA, KU). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Shi).

Hypodoryctes cantata Belokobylskij et Chen, 2004. Russia: **FE** (PR). – Korean Peninsula, Japan.

Hypodoryctes fuga Belokobylskij et Chen, 2004 (*Ontsira retina* Chen et Shi, 2004). Russia: **FE** (AM, KH, PR). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), Vietnam.

Hypodoryctes sibiricus Kokujev, 1900 (*Mixtec whartoni* Marsh, 1993). Russia: **EP** (NW, S, NC), **UR**, **WS** (KM, AL), **ES** (KR, ZB), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, China (CC, SE), Korean Peninsula, Japan, N America, Myanmar, Vietnam.

Hypodoryctes torridus Papp, 1987. Ectoparasitoid of *Lamprodia virgata* Motsch. (Buprestidae). Russia: **FE** (AM, KH, PR). – China (NC, CC, SE), Korean Peninsula, Japan, Vietnam.

NEUROCRASSUS Šnoflák, 1945. Type species: *Neurocrassus tesari* Šnoflák, 1945. Relatively small genus distributed in the Palearctic and Oriental regions, ectoparasitoids of coleopteran larvae from the family Cerambycidae. Number of species: World – 19, Palearctic – 14, Russia – 5.

Neurocrassus fabimaculatus Belokobylskij, 1993. Russia: **FE** (PR).

Neurocrassus hakonensis (Ashmead, 1906) [*Ischiogonus*]. Russia: **FE** (PR, KU). – China (CC, SW, SE), Japan.

Neurocrassus palliata (Cameron, 1881) [*Monolexis*] (*Doryctes picticeps* Kieffer, 1921; *D. nixonii* Watanabe, 1952; *Ontsira anoplophorae* Kusigemati et Hashimoto, 1993). Ectoparasitoid of coleopteran larvae of the families Cerambycidae and Curculionidae. Russia: **FE** (PR). – China (NC, CC, SW, SE), Korean Peninsula, Japan, India, Nepal, Vietnam, Philippines, Malaysia, Indonesia, Seychelles, Hawaii.

Neurocrassus rarus (Belokobylskij, 1982) [*Ontsira*]. Russia: **FE** (PR). – Europe (EE), Abkhazia, Japan (Hon), Vietnam.

Neurocrassus tentorialis Belokobylskij, 1993. Russia: **FE** (PR). – Japan (Hon), Vietnam.

ONTSIRA Cameron, 1900 (*Wachsmannia* Szépligeti, 1900; *Doryctodes* Hellén, 1927). Type species: *Ontsira*

reticulata Cameron, 1900. This is a medium-sized genus rather widely distributed in the World fauna, except for the Neotropical and Afrotropical regions. The Afrotropical *O. transversalis* (Szépligeti, 1914) actually belongs to the genus *Neurocrassus* in its modern sense (Belokobylskij, 2015). This genus was also recorded in the Australasian region, but the only known valid species, *Ontsira antica* (Wollaston, 1858), was most probably introduced to New Zealand from Europe (Belokobylskij et al., 2004), while the generic position of *Ontsira* sp. (Zaldívar-Riverón et al., 2008) still needs to be verified. The members of *Ontsira* are ectoparasitoids of coleopteran larvae mainly from the families Anobiidae, Buprestidae, Cerambycidae and Curculionidae. Recently van Achterberg (2014) divided *Ontsira* in two separate genera, *Ontsira* and *Doryctodes* Hellén, 1927 (see also Yu et al., 2016), on the base of the molecular phylogenetic analysis published by Zaldívar-Riverón et al. (2008). Only three species were available for this molecular study: *O. imperator* (Haliday, 1836), *O. hakonensis* (Ashmead, 1906) and an undescribed Australian *Ontsira* sp. (Zaldívar-Riverón et al., 2008a). The following study (Belokobylskij, Maetô, 2009) clearly showed that *O. hakonensis* belongs to the genus *Neurocrassus* Šnoflák, while the real generic position of the Australian specimen according to molecular data is not yet clear in spite of its distinct morphological similarity with *Ontsira*. As a result, only a single species really belonging to *Ontsira*, *O. imperator*, was currently genetically investigated. Thereby, this molecular study does not allow the removal of *Doryctodes* from the synonymy of *Ontsira*, and *Doryctodes* was again synonymized with *Ontsira* (Belokobylskij, 2016). Number of species: World – 34, Palearctic – 13, Russia – 8.

Ontsira antica (Wollaston, 1858) [*Clinocentrus*] (*Doryctes gallica* Reinhard, 1865; *Bracon truncorum* Goureau, 1866; *Doryctes incertus* Ashmead, 1889; *D. gourlayi* Parrott, 1955; *Oncophanes caudalis* Hellén, 1957). Ectoparasitoid of Anobiidae, Buprestidae, Cerambycidae, Curculionidae and Eucnemidae. Russia: **EP** (NW, C, NC, CR), **UR**, **WS** (NS), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, China (NE), USA, New Zealand.

Ontsira eugeniae Belokobylskij, 1982 (*Ontsira ussurica* Belokobylskij, 1982). Russia: **FE** (PR).

Ontsira flavicoxa Tobias, 1986. Ectoparasitoid of *Megopis scabricornis* Scop. (Cerambycidae). Russia: **EP** (NC).

Ontsira ignea (Ratzeburg, 1865) [*Bracon*]. Ectoparasitoid of Bostrichidae, Buprestidae and Cerambycidae. Russia: **EP** (NC), **WS** (AL), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Israel, Iran, China (NC, SE), Korean Peninsula, Japan.

Ontsira imperator (Haliday, 1836) [*Rogas*] (*Ischiogonus zonatus* Wesmael, 1838; *Bracon praecisus* Ratzeburg,

1852; *Syngaster cingulatus* Provancher, 1880; *Doryctes igneus dubia* Kokujev, 1900; *Doryctodes iranica* Telenga, 1941; *Coeloides filiformis niger* Hedwig, 1957). Ectoparasitoid of Bostrichidae, Buprestidae, Cerambycidae and Curculionidae. Russia: **EP** (NW, C, E, NC), **ES** (TU, IR, BR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Israel, Iran, Kyrgyzstan, Kazakhstan, China (NE, SE), Korean Peninsula, Japan (Hok, Hon, Shi, Ryu), N America.

Ontsira kasparyani Belokobylskij, 1982. Russia: **FE** (KH, PR). – Korean Peninsula.

Ontsira longicaudis (Giraud, 1857) [Ischiogonus] (*Doryctes ustulatus* Fahringer, 1930). Ectoparasitoid of Cerambycidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan, Iran.

Ontsira robusta Belokobylskij, Tang et Chen, 2013. Russia: **FE** (PR). – China (NE), Korean Peninsula.

Ontsira spathiiformis (Ratzeburg, 1848) [Bracon] (*Wachsmannia maculipennis* Szépligeti, 1900). Ectoparasitoid of *Anobium pertinax* L. and *A. punctatum* Deg. (Anobiidae). Russia: **EP** (NC). – Europe (WE, SE, EE).

RHOPTROCENTRUS Marshall, 1897. Type species: *Rhoptrocentrus piceus* Marshall, 1897. Small genus distributed in several zoogeographical regions. Ectoparasitoids mainly of coleopteran larvae from the families Bostrichidae, Curculionidae (Scolytinae) and Cerambycidae. Number of species: World – 4, Palearctic – 3, Russia – 1.

Rhoptrocentrus piceus Marshall, 1897 (*Rhoptrocentrus syrmiensis* Szépligeti, 1906; *Doryctes reinhardi* Fahringer, 1951; *Doryctomorpha chlorophori* Watanabe, 1951; *Rhoptrocentrus quercusi* Yang et Cao, 2015). Ectoparasitoid of beetle larvae from the families Bostrichidae, Curculionidae (Scolytinae) and Cerambycidae, rarely – moths of the families Tortricidae and Coleophoridae and sawflies of the family Xiphydriidae. Russia: **EP** (C, S, NC, CR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, China, Japan, USA, Mexico, Vietnam, Argentina.

Remarks. Recently described from China (Liaoning Province) *Rh. quercusi* Yang et Cao, 2015 reared from the larva *Massicus raddei* (Blessig et Solsky, 1872) (Cerambycidae) (Cao et al., 2015) is actually the junior synonym of *Rhoptrocentrus piceus* Marshall, 1897 (Belokobylskij, 2019d). All listed differences between *Rh. quercusi* and *Rh. piceus* (Cao et al., 2015) are nested inside of the range of *Rh. piceus* morphological variability.

SPATHIOMORPHA Tobias, 1976. Type species: *Spathiomorpha varinervis* Tobias, 1976. Small genus with yet unknown hosts; its members are distributed in the Palearctic, Oriental and Australasian regions. Number of species: World – 6, Palearctic – 4, Russia – 2.

Spathiomorpha longipalpis Belokobylskij, 1985 (*Spathiomorpha furnata* Papp, 1987). Russia: **FE** (PR). – Korean Peninsula.

Spathiomorpha varinervis Tobias, 1976. Russia: **EP** (NC, CR). – Europe (SE), Abkhazia, Georgia, Azerbaijan, Turkey.

Tribe ECPHYLINI

ECPHYLUS Foerster, 1863 (*Terenusa* Fitch, 1885; *Paraecphylus* Ashmead, 1900; *Sactopus* Ashmead, 1900). Type species: *Bracon silesiacus* Ratzeburg, 1848. Medium-sized and worldwide distributed genus with most species described from the New World. Ectoparasitoids of coleopteran larvae mainly from the family Curculionidae (Scolytinae). Number of species: World – 52, Palearctic and Russia – 1.

Ecphylus silesiacus (Ratzeburg, 1848) [Bracon] (*Bracon eccoptogastri* Ratzeburg, 1848; *B. hylesini* Ratzeburg, 1848; *B. minutissimus* Ratzeburg, 1848; *Ecphylus chaetoptelii* Gautier et Russo, 1925; *E. beltrani* Docavo Alberti, 1960; *E. carinatus* Hedqvist, 1967; *E. pinicola* Hedqvist, 1967). Ectoparasitoid of Curculionidae (Scolytidae), but rarely also Bostrichidae. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (TK, NS), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Kazakhstan.

SYCOSOTER Picard et Lichtenstein, 1917. Type species: *Sycosoter lavagnei* Picard et Lichtenstein, 1917 (= *Ecphylus caudatus* Ruschka, 1916). Small genus distributed in the Palearctic, Oriental and Australasian regions. Ectoparasitoids of coleopteran larvae mainly from the family Curculionidae (Scolytinae). The species of this genus were previously included in the subgenus *Sactopus* Ashmead, 1900 of the genus *Ecphylus*, but implementation of the molecular study (Gebiola et al., 2015) showed that these species (except the type species of *Sactopus*, the Nearctic *S. schwarzii* Ashmead, 1900) actually belong to the genus *Sycosoter*. Number of species: World – 8, Palearctic – 5, Russia – 3.

Sycosoter arephini (Belokobylskij, 1993) [Ecphylus]. Russia: **FE** (PR).

Sycosoter caudatus (Ruschka, 1916) [Ecphylus] (*Sycosoter lavagnei* Picard et Lichtenstein, 1917). Ectoparasitoid of coleopteran genera *Chaetoptelius*, *Cryphalus*, *Hypoborus*, *Liparthrum*, *Phloeotribus* and *Pityokteines* (Curculionidae: Scolytidae) and *Sinoxylon* (Bostrichidae). Russia: **EP** (? C). – Europe (WE, SE, EE), Morocco, Algeria, Tunisia, Israel.

Sycosoter hattori (Kono et Watanabe, 1935) [Ecphylus] (*Ecphylus caudatus* auct.). Ectoparasitoid of *Cryphalus fulvus* Nijima and *C. piceus* Eggers (Curculionidae: Scolytinae). Russia: **FE** (PR). – China (SE), Korean Peninsula, Japan (Hok, Hon, Kyu).

Tribe HECABOLINI

HECABOLUS Curtis, 1834 (*Anisopelma* Wesmael, 1838).

Type species: *Hecabolus sulcatus* Curtis, 1934. Small genus with most part of the species being described from the Neotropical region. Number of species: World – 11, Palaearctic and Russia – 1.

Hecabolus sulcatus Curtis, 1834 (*Anisopelma belgicum* Wesmael, 1838). Endoparasitoid of coleopteran larvae from the families Anobiidae, Buprestidae, Cerambycidae, Curculionidae (Scolytinae), Lyctidae and Ptinidae. Russia: **EP** (NW, C, NC), **UR**. – Europe (WE, NE, SE, EE), Morocco, Abkhazia, Georgia, Azerbaijan, Israel, Iran.

LELUTHIA Cameron, 1887 (*Doryctosoma* Picard, 1938; *Russellia* Muesebeck, 1950; *Russellella* Muesebeck et Walkley, 1951; *Euhecabolodes* Tobias, 1962; *Panama* Marsh, 1993). Type species: *Leluthia mexicana* Cameron, 1887. Medium-sized genus distributed in the Holarctic, Australasian and Neotropical regions. Number of species: World – 18, Palaearctic – 9, Russia – 2.

Leluthia (Euhecabolodes) transcaucasica (Tobias, 1976) [*Euhecabolodes*] (*Euhecabolodes ulmi* Tobias, 1980). Ectoparasitoid of *Agrilus auricollis* Ksw. (Buprestidae), *Phloeosinus bicolor* Brullé and *Scolytus* sp. (Curculionidae: Scolytinae). Russia: **EP** (C), **ES** (BR), **FE** (PR). – Europe (EE), Georgia, Turkey, Iran, Kazakhstan, Mongolia.

Leluthia (Leluthia) disrupta (Belokobylskij, 1994) [*Pareucorystes*]. Russia: **EP** (NC), **FE** (PR). – Georgia.

MONOLEXIS Foerster, 1863. Type species: *Monolexis fuscicornis* Foerster, 1863. Small genus with four known species, but the status of three of them should be additionally verified. The type species of genus is morphologically variable (depending on its body size) and has almost cosmopolitan distribution. Number of species: World – 4, Palaearctic – 2, Russia – 1.

Monolexis fuscicornis Foerster, 1863 (*Anisopelma lycti* Cresson, 1880; *A. minima* Cresson, 1880; *A. utilis* Cresson, 1880; *Hecabolus doderoi* Mantero, 1910; *Monolexis lavagnei* Picard, 1913; *M. atis* Nixon, 1943; *M. sorus* Nixon, 1943). Endoparasitoid of coleopteran larvae from the families Bostrichidae, Buprestidae, Cerambycidae, Cucujidae, Curculionidae (Scolytinae) and Lyctidae. Russia: **EP** (? NC, ? CR). – Europe (WE, SE, EE), Tunisia, Abkhazia, Georgia, Armenia, Azerbaijan, Israel, Turkmenistan, Japan (Hon, Shi, Kyu), N America, Malaysia, S America, Australia.

PARALLORHOGAS Marsh, 1993. Type species: *Allorhogas pyralophagus* Marsh, 1984. Relatively small genus, known mainly from the tropics of the Old World. Ectoparasitoids of the larvae of lepidopteran families Crambidae, Pyralidae and Tortricidae and coleopteran

family Cerambycidae. Number of species: World – 12, Palaearctic and Russia – 1.

Parallorhogas hasanicus (Belokobylskij, 1985) [*Allorhogas*]. Russia: **FE** (PR).

PAREUCORYSTES Tobias, 1961. Type species: *Pareucorystes varinervis* Tobias, 1961. Monotypic Palaearctic genus.

Pareucorystes varinervis Tobias, 1961 (*Hecabolus depressus* Fischer, 1966; *Leluthia chinensis* Li et van Achterberg, 2015). Ectoparasitoid of *Agrilus* sp. (Buprestidae) and *Tetrops praeusta* L. (Cerambycidae). Russia: **EP** (NC), **FE** (PR). – Europe (WE, SE, EE), Azerbaijan, Kazakhstan, China (NC).

POLYSTENUS Foerster, 1863 (*Corystes* Reinhard, 1865; *Eucorystes* Marshall, 1888; *Eucorystoides* Ashmead, 1900). Type species: *Polystenus rugosus* Foerster, 1863. Small genus distributed in the Palaearctic and Eastern Oriental regions. Number of species: World – 7 (1 fossil), Palaearctic – 2, Russia – 1.

Polystenus rugosus Foerster, 1863 (*Corystes aciculatus* Reinhard, 1865). Ectoparasitoid of coleopteran larva from the families Bostrichidae, Buprestidae, Cerambycidae and Curculionidae (Scolytinae). Russia: **EP** (C, S, NC), **FE** (KH, PR). – Europe (WE, SE, EE), Turkey, Iran, Tajikistan, Kazakhstan, China (CC, SE), Korean Peninsula, Japan (Hon).

Tribe HETEROSPILINI

HETEROSPILUS Haliday, 1836 (*Telebolus* Marshall, 1888; *Kareba* Cameron, 1905; *Anocatostigma* Enderlein, 1920; *Harpagolaccus* Enderlein, 1920; *Lituaniania* Jakimavicius, 1968; *Eoheterospilus* Belokobylskij et Maeto, 2009). Type species: *Rogas quaestor* Haliday, 1836. Large and polymorphic genus with worldwide distribution, but most abundant in the Neotropical region (more than 300 already described species). Ectoparasitoids of coleopteran larvae from the families Anobiidae, Buprestidae, Cerambycidae, Chrysomelidae, Curculionidae, etc., lepidopterans from the families Gelechiidae, Prodoxidae and Pyralidae and hymenopterans from the families Crabronidae and Cephidae. The genus includes two subgenera, *Heterospilus* s. str. and *Eoheterospilus* Belokobylskij et Maeto, 2009. Number of species: World – 418, Palaearctic – 32, Russia – 17.

Heterospilus (Eoheterospilus) fischeri Belokobylskij, 1983. Russia: **FE** (PR). – Japan (Hon).

Heterospilus (Eoheterospilus) rubrocinctus (Ashmead, 1905) [*Hecabolus*] (*Heterospilus oculatus* Belokobylskij, 1988). Ectoparasitoid of *Choragus scheppardi* Kirby (Anthribidae). Russia: **EP** (NC), **FE** (PR). – China (CC), Japan (Hon, Ryu), Vietnam, Philippines.

- Heterospilus (Heterospilus) ater** Fischer, 1960. Ectoparasitoid of *Scolytus intricatus* Ratz., *Xylocleptes bispinus* Duft. (Curculionidae: Scolytinae), *Ceresium sinicum* White (Cerambycidae). Russia: **FE** (PR). – Europe (WE, SE, EE), China (NE, NC, CC, SE), Korean Peninsula, Japan (Hok, Hon, Kyu).
- Heterospilus (Heterospilus) austriacus** (Szépligeti, 1906) [Atoreuteus] (*Heterospilus incompletus* auct.). Ectoparasitoid of coleopteran larvae from the families Curculionidae and Cerambycidae. Russia: **EP** (NC), **UR**, **ES** (BR), **FE** (KH, PR, KU, KA). – Europe (WE, EE), Armenia, Azerbaijan, Kazakhstan, China (SE), Korean Peninsula.
- Heterospilus (Heterospilus) cephi** Rohwer, 1925 (*Heterospilus testaceus* Telenga, 1941; *H. basifurcatus* Fischer, 1960; *H. rubicundus* Fischer, 1960). Ectoparasitoid of *Cephus pygmaeus* L. and *Trachelus tabidus* F. (Cephiidae). Russia: **EP** (C, S, NC, CR), **ES** (BR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, SE, EE), Tunisia, Georgia, Armenia, Turkey, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE, NC, CC, SE), Korean Peninsula, Japan (Hon), USA.
- Heterospilus (Heterospilus) corsicus** (Marshall, 1888) [Telebolus] (*Caenophanes cingulatus* Szépligeti, 1900). Russia: **EP** (NC, CR), ? **FE** (PR). – Europe (WE, SE, EE), Kazakhstan, Korean Peninsula.
- Heterospilus (Heterospilus) divisus** (Wollaston, 1858). Russia: **EP** (CR). – Madeira Is, Israel.
- Heterospilus (Heterospilus) extasus** Papp, 1987. Russia: **FE** (PR). – China (NE, NC, CC, SE), Korean Peninsula.
- Heterospilus (Heterospilus) indigenus** Belokobyl'skij, 1983. Russia: **FE** (KH, PR). – Europe (EE).
- Heterospilus (Heterospilus) kerzhneri** Belokobyl'skij et Maeto, 2009 (*Heterospilus rubicola*: Belokobyl'skij, 1998). Russia: **FE** (PR). – China (CC), Korean Peninsula, Japan (Hon, Kyu, Ryu).
- Heterospilus (Heterospilus) leptosoma** Fischer, 1960. Russia: **EP** (C, E, NC), **ES** (YA, ZB), **FE** (PR). – Europe (WE, SE, EE), Georgia, Turkey, Iran, Kazakhstan, Mongolia, China (NE, CC, SW, SE), Korean Peninsula, Japan (Hon).
- Heterospilus (Heterospilus) orientalis** Belokobyl'skij, 1993. Russia: **FE** (KH, PR). – Korean Peninsula.
- Heterospilus (Heterospilus) rubicola** Fischer, 1968 (*Heterospilus tobiassi* Belokobyl'skij, 1983). Russia: **EP** (NC). – Europe (WE, SE, EE), Georgia, Turkey, Uzbekistan, Kazakhstan.
- Heterospilus (Heterospilus) separatus** Fischer, 1960 (*Heterospilus anulifer* Papp, 1992; *Heterospilus gracilis* Shi et Chen, 2004). Russia: **EP** (NC), **UR**, **ES** (BR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, EE), Azerbaijan, Kazakhstan, Mongolia, China (NE, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu).
- Heterospilus (Heterospilus) sicanus** (Marshall, 1888) [Dendrosoter]. Ectoparasitoid of *Cryphalus piceae* Ratz. (Curculionidae: Scolytinae). Russia: **EP** (NC). – Europe (WE, SE, EE).

- Heterospilus (Heterospilus) tauricus** Telenga, 1941 (*Heterospilus graeffei* Fischer, 1960). Ectoparasitoid of *Mordellistena pentas* Muls. (Mordellidae). Russia: **EP** (S, NC, CR), **UR**, **ES** (BR, ZB), **FE** (KH, PR, KA). – Europe (WE, SE, EE), Abkhazia, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Tajikistan, Uzbekistan, Kazakhstan, China (NE, CC), Korean Peninsula, Japan (Hok, Hon).
- Heterospilus (Heterospilus) zaykovi** van Achterberg, 1992 (*Heterospilus longicaudatus* Zaykov, 1980). Russia: **FE** (KH, PR, KA). – Europe (EE), Korean Peninsula.

Tribe HOLCOBRACONINI

- ZOMBRUS** Marshall, 1897 (*Trimorus* Kriechbaumer, 1894; *Trichiobracon* Marshall, 1897; *Neotrimorus* Dalla Torre, 1898; *Acanthobracon* Szépligeti, 1902; *Trichodoryctes* Szépligeti, 1906). Type species: *Zombrus anisopus* Marshall, 1897. Relatively large genus widely distributed in the subtropics and tropics of the Old World, with a few species penetrated to the South Palaearctic. Ectoparasitoids of coleopteran larvae from the family Cerambycidae. Number of species: World – 45, Palaearctic – 3, Russia – 1.
- Zombrus bicolor** (Enderlein, 1912) [Neotrimorus] (*Zombrus sjoestedti* Fahringer, 1929). Ectoparasitoid of coleopteran genera *Allotraeus*, *Chlorophorus*, *Dere*, *Hesperophanes*, *Massicus* and *Xylotrechus* (Cerambycidae). Russia: **EP** (S, NC), **FE** (KH, PR). – Europe (SE), Kyrgyzstan, Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, Japan (Hon, Kyu).

Tribe RHACONOTINI

- IPODORYCTES** Granger, 1949. Type species: *Ipodoryctes anticestriatus* Granger, 1949. Medium-sized genus mainly distributed in the Oriental and Australasian regions and partly penetrating to the Eastern Palaearctic. The Palaearctic species with sixth visible metasomal tergites recently were included in the genus *Ipodoryctes* on the base of molecular-phylogenetic study of the tribe Rhaconotini (Jasso-Martínez et al., 2019). Number of species: World – 38, Palaearctic – 5, Russia – 3.
- Ipodoryctes formosanus** (Watanabe, 1934) [Rhaconotus] (*Rhaconotus carolinensis* Watanabe, 1945). Russia: **FE** (PR). – China (NE, CC, SW, SE), Korean Peninsula, Japan, Vietnam, Malaysia, Indonesia, Caroline Is, Australia.
- Ipodoryctes signipennis** (Walker, 1860) [Spathius] (*Dendrosotinus flavistigmus* Belokobyl'skij, 1983). Ectoparasitoid of *Chilo auricilius* Dudgeon and *Scirpophaga incertulas* Walk. (Crambidae). Russia: **FE** (PR). – China (SE), Japan, India, Sri Lanka, Vietnam, Indonesia.
- Ipodoryctes vagrans** (Bridwell, 1920) [Hormiopterus]. Ectoparasitoid of *Plagithmysus chenopodii* Perkins and

P. euphorbiae Bridwell (Cerambycidae). Russia: **FE** (PR). – China (SE), Korean Peninsula, Vietnam, Hawaii.

RHACONOTINUS Hedqvist, 1965. Type species: *Rhaconotinus caboverdensis* Hedqvist, 1965. Relatively small genus long time considered as synonym of *Rhaconotus* Ruthe. The Palaearctic species of *Rhaconotus* with six visible metasomal tergites and apical area on the second metasomal tergite delineated by furrows have been included in the genus *Rhaconotinus*, which was recently restored on the base of molecular-phylogenetic study of the tribe Rhaconotini (Jasso-Martínez et al., 2019). Number of species: World – about 30, Palaearctic and Russia – 2.

Rhaconotinus iterabilis (Belokobylskij et Chen, 2004) [*Rhaconotus*]. Russia: **FE** (PR). – China (NC, SW), Japan (Hon).

Rhaconotinus nadezhdae (Tobias et Belokobylskij, 1981) [*Ipodoryctes*]. Russia: **FE** (PR). – China (SW, SE), Korean Peninsula, Japan (Hok, Kyu, Ryu).

RHACONOTUS Ruthe, 1854. Type species: *Rhaconotus aciculatus* Ruthe, 1854. This relatively large and polymorphic genus is abundant in the subtropics and tropics of the Old World. The implementation of the molecular-phylogenetic study of the tribe Rhaconotini (Jasso-Martínez et al., 2019) clearly showed that this genus in its previous sense had united several taxa of the generic level. The genus *Rhaconotus* s. str. includes only species with five visible, coarsely sclerotized and densely sculptured metasomal tergites. The genus includes two subgenera, Afrotropical *Pararhacon* Belokobylskij, 2004 and worldwide *Rhaconotus* s. str. Number of species: World – about 100, Palaearctic – 17, Russia – 5.

Rhaconotus (Rhaconotus) aciculatus Ruthe, 1854 (*Rhaconotus cerdai* Docavo Alberti, 1960; *Rh. major* Tobias, 1964). Ectoparasitoid of coleopteran larvae from the families Buprestidae and Curculionidae. Russia: **EP** (C, E, S, NC), **WS** (AL), **ES** (ZB), **FE** (PR). – Europe (WE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NE, CC, SE), Korean Peninsula.

Rhaconotus (Rhaconotus) elegans (Foerster, 1863) [*Hedysomus*]. Russia: **EP** (C, S). – Europe (WE, EE), Georgia, Turkey, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan.

Rhaconotus (Rhaconotus) longulus Belokobylskij, 1994. Russia: **EP** (NC, CR).

Rhaconotus (Rhaconotus) pictipennis (Reinhard, 1885) [*Hormiopterus*]. Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan, Turkey, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, ? Korean Peninsula.

Rhaconotus (Rhaconotus) scaber Kokujev, 1900. Russia: **EP** (S). – Europe (WE, SE, EE), Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.

RHACONTSIRA Belokobylskij, 1998. Type species: *Ontsira heterospiloides* Belokobylskij, 1988. Small genus, distributed in the Eastern Palaearctic, Oriental and Australasian regions. Number of species: World – 7, Palaearctic – 3, Russia – 1.

Rhacontsira heterospiloides (Belokobylskij, 1988) [*Ontsira*]. Russia: **FE** (PR). – Japan (Hon).

Tribe SPATHIINI

SPATHIUS Nees, 1819. Type species: *Cryptus clavatus* Panzer, 1809 (= *Ichneumon exarator* Linnaeus, 1758). The largest and worldwide distributed genus. Ectoparasitoids of xylophagous and bark-boring larvae of mainly Coleoptera, but rarely also Lepidoptera and Hymenoptera. According to recent molecular-phylogenetic studies of the tribe Spathiini (Zaldívar-Riverón et al., 2008a, 2018), the former subgenus *Antespathius* Belokobylskij, 1995 is considered as a valid genus in the tribe Rhaconotini, but the former subgenus *Stenophasmus* Smith, 1858 was finally synonymised with *Spathius* (Yu et al., 2016). Number of species: World – about 420, Palaearctic – 74, Russia – 30.

Spathius baiun Belokobylskij, 1998. Russia: **FE** (PR, KU).

Spathius brevicaudis Ratzeburg, 1844. Ectoparasitoid of coleopteran larvae from the families Bostrichidae, Buprestidae, Cerambycidae and Curculionidae. Russia: **EP** (C, NC), **UR**, **WS** (NS), **ES** (IR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Iran, Kazakhstan, Mongolia, Korean Peninsula.

Spathius cavus Belokobylskij, 1998. Russia: **FE** (PR). – China (NC, CC, SW), Korean Peninsula, Japan.

Spathius clavifemur Belokobylskij, 1998. Russia: **FE** (KH, PR).

Spathius dentatus Telenga, 1941. Endoparasitoid of *Buprestis novemmaculata* L. (Buprestidae). Russia: **EP** (C), **UR**. – Europe (EE).

Spathius depressithorax Belokobylskij, 1998. Russia: **FE** (KH, PR, KU). – China (NC, CC), Japan (Hok, Hon, Shi).

Spathius exarator (Linnaeus, 1758) [*Ichneumon*] (*Ichneumon formicatus* Linnaeus, 1767; *I. mutillarius* Fabricius, 1775; *I. mystacatus* Schrank, 1781; *I. affinis* Fabricius, 1793; *I. immaturus* Gravenhorst, 1807; *Cryptus clavatus* Panzer, 1809; *Ichneumon affinator* Thunberg, 1822; *I. attenuator* Thunberg, 1822; *I. formicator* Thunberg, 1822; *I. mutillator* Thunberg, 1822; *Spathius exannulatus* Ratzeburg, 1848; *S. ferrugatus* Goureau, 1866; *S. strandi* Fahringer, 1930; *S. tanycoleosus* Shi et Chen, 2004). Ectoparasitoid of coleopteran larvae from the families Anobiidae, Buprestidae, Cerambycidae and Curculionidae, hymenopterans *Xiphydria camelus* L., *X. prolongata* Geoffr. (Xiphydriidae) and *Xyela julii* Breb. (Xyelidae). Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (TM, TK, NS), **ES** (TU, KR, IR, YA, ZB). – Europe (WE, NE, SE, EE), Abkhazia, Georgia, Armenia,

- Azerbaijan, Turkey, Iran, Turkmenistan, Kazakhstan, Mongolia, China (NE, CC, SW, SE), Korean Peninsula, Japan, New Zealand.
- Spathius fasciatus** Walker, 1874. Russia: **FE** (PR, KU). – China (SE), Korean Peninsula, Japan (Hok, Hon, Kyu).
- Spathius galinae** Belokobylskij et Strazanac, 2012. Ectoparasitoid of *Agrilus planipennis* Fairm. (Buprestidae). Russia: **FE** (PR). – China (NC), Korean Peninsula.
- Spathius generosus** Wilkinson, 1931 (*Spathius jilinensis* Chao, 1977; *S. nungdaensis* Chao, 1977; *S. brevicaudis* auct.). Ectoparasitoid of coleopteran larvae from the families Cerambycidae and Curculionidae (Scolytinae). Russia: **WS** (NS), **FE** (AM, KH, PR, SA, KU). – China (NE, NC, CC, SE), Korean Peninsula, Japan (Hok, Hon, Shi), India.
- Spathius intercontinentalis** Belokobylskij et Samartsev, 2014. Russia: **WS** (AL), **ES** (IR, BR), **FE** (AM, KH, MG). – Europe (SE).
- Spathius kunashiri** Belokobylskij, 1998. Russia: **FE** (KU). – China (NC, CC, SW, SE), Japan (Hok, Hon, Shi, Kyu).
- Spathius lehri** Belokobylskij, 1998. Russia: **FE** (PR).
- Spathius leshii** Belokobylskij, 1998 (*Spathius lesovik* Belokobylskij, 1998). Russia: **FE** (PR, KU). – China (SE), Korean Peninsula, Japan (Hok, Hon, Kyu).
- Spathius maderi** Fahringer, 1930 (*Spathius hirtus* Hedqvist, 1976). Russia: **EP** (NC). – Europe (SE), Iran.
- Spathius oriens** Belokobylskij, 1998 (*Spathius changbai-shanensis* Chen et Shi, 2004). Russia: **ES** (BR), **FE** (AM, KH, PR, SA, KU). – China (NE), Japan (Hon).
- Spathius pedestris** Wesmael, 1838 (*Spathius apterus* Wolaston, 1858). Ectoparasitoid of coleopteran larvae from the families Anobiidae and Curculionidae. Russia: **EP** (C, NC, CR). – Europe (WE, SE, EE), Tunisia, Georgia, Israel, New Zealand.
- Spathius phymatodis** Fischer, 1966 (*Spathius applanatus* Chen et Shi, 2004). Ectoparasitoid of *Agrilus roberti* Chev., *A. viridis* L. (Buprestidae) and *Phymatodes fasciatus* Vill. (Cerambycidae). Russia: **EP** (NC), **UR**, **ES** (BR, ZB), **FE** (AM, PR). – Europe (WE, SE, EE), Mongolia, China (NE, CC, SW, SE), Korean Peninsula, Japan (Hon).
- Spathius planus** Belokobylskij, 1998. Ectoparasitoid of *Scolytus japonicus* Chapuis (Curculionidae: Scolytinae). Russia: **FE** (PR, KU). – China (NC, CC), Japan (Hon).
- Spathius polonicus** Niezabitowski, 1910 (*Spathius melano-phila* Fischer, 1966; *S. radjabii* Fischer, 1970). Ectoparasitoid of coleopteran larvae from the families Buprestidae and Curculionidae (Scolytidae), including *Agrilus planipennis* Fairmaire. Russia: **EP** (C, S, NC), **WS** (KM). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Uzbekistan.
- Spathius pseudaspersus** Belokobylskij, 2009 (*Spathius aspersus*: Belokobylskij, 1989). Russia: **FE** (PR). – China (CC), Japan (Hon, Ryu).
- Spathius reticulatus** Chao et Chen, 1965. Russia: **FE** (PR). – China (NE, CC, SW, SE), Korean Peninsula, Japan.
- Spathius robustus** Belokobylskij, 1998. Russia: **FE** (KH, PR).
- Spathius rubidus** (Rossi, 1794) [Ichneumon] (*Spathius rugosus* Ratzeburg, 1848; *S. sculpturatus* Hellén, 1927; *S. aphengens* Matthews, 1970; *S. depressus* Hedqvist, 1976). Ectoparasitoid of coleopteran larvae from the families Anobiidae, Bostrichidae, Buprestidae, Cerambycidae and Curculionidae, hymenopterans from the genus *Xiphydria* (Xiphydriidae). Russia: **EP** (NW, C, E, NC, CR), **UR**, **WS** (NS), **ES** (TU, IR, BR, YA, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Morocco, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, China (NE, CC), Korean Peninsula, Japan (Hok), N America.
- Spathius sculptipleurum** Belokobylskij et Samartsev, 2014. Russia: **EP** (NW, E), **UR**. – Europe (WE, SE).
- Spathius spasskensis** Belokobylskij, 1998. Russia: **FE** (PR).
- Spathius sutshanicus** Belokobylskij, 1998. Russia: **FE** (PR).
- Spathius udaegae** Belokobylskij, 1994 (*Spathius ochus*: Belokobylskij, 1989). Russia: **FE** (PR). – Japan (Hok, Hon, Kyu).
- Spathius umbratus** (Fabricius, 1798) [Ichneumon] (*Ichneumon umbrator* Thunberg, 1822; *Spathius erythrocephalus* Wesmael, 1838; *S. curvicaudis* Ratzeburg, 1844; *S. radzayanus* Ratzeburg, 1848). Ectoparasitoid of coleopteran larvae from the families Anobiidae, Bostrichidae, Buprestidae, Cerambycidae and Curculionidae, hymenopterans from the genus *Xiphydria* (Xiphydriidae) and lepidopterans *Aegeria conopiformis* Esp. and *A. vespiformis* L. (Sesiidae). Russia: **EP** (C, E, NC, CR), **UR**, **WS** (NS), **ES** (BR, ZB), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Azerbaijan, Turkey, Israel, Iran, Kazakhstan, Mongolia, China (NC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu).
- Spathius ussuriensis** Tobias, 1961. Russia: **WS** (NS), **FE** (PR, KU).

Subfamily EUPHORINAE

S.A. BELOKOBYLSKIJ

The subfamily Euphorinae comprises one of the most biologically peculiar groups of braconid parasitoids exhibiting a broad morphological and host diversity (Tobias, 1965, 1966; Shaw, 1985, 1988, 2004a; Belokobylskij, 1996a, 1996b; Belokobylskij et al., 1998; Chen, van Achterberg, 1997; Stigenberg et al., 2015). The foundation of the modern supergeneric classification of this braconid group using morphological and biological data was proposed by V.I. Tobias (1965, 1966), which was later critically discussed and updated by S. Shaw (1985). Recently, the first comprehensive molecular-phylogenetic analysis of this subfamily was provided by J. Stigenberg et al. (2015), who recognized fourteen tribes in the subfamily.

Members of the subfamily (in which Meteorini, sometimes treated as a separate subfamily Meteorinae, is included) parasitize the most diverse groups of hosts among all Braconidae, belonging to the orders Lepidoptera (for Meteorini

only), Coleoptera, Hemiptera, Hymenoptera, Neuroptera, Psocoptera and Orthoptera, as well as several host stages (larvae, nymphs and adults) (Tobias, 1965, 1966; Shaw, 1988, 2004a; Stigenberg et al., 2015).

Number of taxa: World – 59 genera and about 1270 species, Palaearctic – 35/about 500, Russia – 29/281.

R e f e r e n c e s. Watanabe, 1937; Chao, 1964; Tobias, 1965, 1966; Huddleston, 1976, 1980; van Achterberg, 1977, 1979b, 1985c, 1992a, 1994b; Belokobylskij, 1981, 1987b, 1992c, 1992d, 1993d, 1995b, 1996a, 1996b, 1996c, 2000a, 2000b, 2000c, 2000d, 2000e, 2019c, 2019d; Haeselbarth, Loan, 1983; Shaw, 1985; Maeto, 1986a, 1986b, 1988a, 1988b, 1989a, 1989b, 1990; Tobias et al., 1986a; van Achterberg, Argaman, 1993; Haeselbarth, 1996, 1998, 1999, 2008; Chen, van Achterberg, 1997; Belokobylskij, Tobias, 2000; van Achterberg, Haeselbarth, 2003; Stigenberg et al., 2015.

Tribe CENTISTINI

ALLURUS Foerster, 1863. *Type species*: *Ancylus muricatus* Haliday, 1833. Small Holarctic-Oriental genus; known as endoparasitoids of the coleopteran adults of *Sitona* spp. (Curculionidae). Number of species: World – 3, Palaearctic and Russia – 2.

Allurus lituratus (Haliday, 1835) [Leiophron]. Russia: **EP** (NW, NC), **UR**, **WS** (AL), **ES** (KR, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, China (SE), Canada.

Allurus muricatus (Haliday, 1833) [Ancylos] (*Leiophron armatus* Wesmael, 1835; *L. nigra* Lyle, 1926). Russia: **EP** (NW), **WS** (NS). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Kazakhstan.

ASIACENTISTES Belokobylskij, 1995. *Type species*: *Centistes alekseevi* Belokobylskij, 1992. Small Eastern Palaearctic genus with unknown biology. Number of species: World and Palaearctic – 2, Russia – 1.

Asiacentistes alekseevi (Belokobylskij, 1992) [Centistes]. Russia: **WS** (AL), **FE** (PR). – China (CC), Korean Peninsula, Japan (Hon).

CENTISTES Haliday, 1835 (*Ancylus* Haliday, 1833; *Ancylus* Haldeman, 1842; *Ancylocentrus* Foerster, 1863; *Syrphizus* Foerster, 1863; *Euphoridea* Ashmead, 1900; *Liosigalphus* Ashmead, 1900; *Chaetocentistes* Belokobylskij, 2000). *Type species*: *Ancylus cuspidatus* Haliday, 1833. Peculiar, polymorphic and rather large genus which members are the endoparasitoids of Coleoptera adults. Consists of five subgenera, but sometimes (Belokobylskij, Tobias, 2000) *Syrphizus* had been considered as separate genus. Number of species: World – almost 70, Palaearctic – 47, Russia – 35.

Centistes (Ancylocentrus) antennalis (Watanabe, 1937) [Leiophron]. Russia: **FE** (PR). – Japan (Shi).

Centistes (Ancylocentrus) ater (Nees, 1834) [Leiophron] (*Leiophron excrucians* Haliday, 1835; *Allurus lativalvis* Jakimavicius, 1972). Endoparasitoid of *Sitona scissifrons* Say (Curculionidae). Russia: **EP** (NW), **WS** (TM), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, China (NE), Canada.

Centistes (Ancylocentrus) collaris (Thomson, 1895) [Leiophron]. Russia: **EP** (NW, NC), **ES** (YA), **FE** (PR, SA). – Turkey, Korean Peninsula.

Centistes (Ancylocentrus) convexitemporalis Belokobylskij, 1992. Russia: **FE** (PR). – China (NE).

Centistes (Ancylocentrus) edentatus (Haliday, 1835) [Leiophron]. Russia: **EP** (NW, C, NC), **WS** (KM), **ES** (KR), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Morocco, Azerbaijan, Kazakhstan.

Centistes (Ancylocentrus) kaplanovi Belokobylskij, 1995. Russia: **FE** (PR, SA).

Centistes (Ancylocentrus) kurilensis Belokobylskij, 2000. Russia: **FE** (KU).

Centistes (Ancylocentrus) manchzhuricus Belokobylskij, 1992. Russia: **FE** (PR).

Centistes (Ancylocentrus) medythiae Maeto et Nagai, 1985. Endoparasitoid of *Paraluperodes suturalis nigro-bilineatus* Motsch. (Chrysomelidae). Russia: **ES** (IR), **FE** (AM, KH, PR). – China (NE, CC, SW), Japan (Kyu).

Centistes (Ancylocentrus) microvalvis Belokobylskij, 1992. Russia: **FE** (PR).

Centistes (Ancylocentrus) mucri Belokobylskij, 2000. Russia: **FE** (PR).

Centistes (Ancylocentrus) muravievi Belokobylskij, 1996. Russia: **ES** (ZB), **FE** (KH).

Centistes (Ancylocentrus) nasutus (Wesmael, 1838) [Brachistes] (*Leiophron saxo* Reinhard, 1862). Endoparasitoid of *Amara apricaria* Payk. (Carabidae) and *Galerucella viburni* Payk. (Chrysomelidae). Russia: **EP** (E), **ES** (IR, YA, ZB), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, China.

Centistes (Ancylocentrus) parentalis Belokobylskij, 2000. Russia: **FE** (PR).

Centistes (Ancylocentrus) paupella (Shenefelt, 1969) [Ancylocentrus] (*Leiophron pallipes* Wesmael, 1835; *Centistes semiglabratus* Chen et van Achterberg, 1997). Russia: **EP** (NC), **ES** (ZB), **FE** (KH, PR, KA). – Europe (WE, EE), China (NE).

Centistes (Ancylocentrus) planivalvis Belokobylskij, 1992. Russia: **FE** (PR).

Centistes (Ancylocentrus) pteropygidium Belokobylskij, 1992. Russia: **FE** (PR).

Centistes (Ancylocentrus) rufithorax Telenga, 1950. Endoparasitoid of *Galerucella tenella* L. (Chrysomelidae). Russia: **EP** (NW, C, CR). – Europe (WE, NE, EE).

Centistes (Ancylocentrus) scutellaris Belokobylskij, 1992. Russia: **FE** (PR). – Korean Peninsula.

Centistes (Ancylocentrus) semiruficus Belokobylskij, 1992. Russia: **FE** (PR). – China (SE).

- Centistes (Ancylocentrus) spasskensis** Belokobylskij, 1992. Russia: **FE** (PR).
- Centistes (Ancylocentrus) subsulcatus** (Thomson, 1895) [Leiophron]. Endoparasitoid of *Propylaea quatuordecimpunctata* L. (Coccinellidae). Russia: **ES** (IR). – Europe (WE, NE, SE, EE), Azerbaijan.
- Centistes (Ancylocentrus) sylvicola** Belokobylskij, 1992. Russia: **FE** (PR).
- Centistes (Ancylocentrus) venyukovi** Belokobylskij, 1993. Russia: **FE** (PR).
- Centistes (Centistes) cuspidatus** (Haliday, 1833) [Ancy-lus] (*Bracon lucidator* Nees, 1834). Endoparasitoid of *Tachyporus* sp. (Staphylinidae). Russia: **EP** (NW, C, NC, CR), **FE** (PR, SA, KU, CH). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kyrgyzstan, Kazakhstan, Korean Peninsula.
- Centistes (Centistes) dmitrii** Belokobylskij, 1996. Russia: **FE** (KU). – Korean Peninsula.
- Centistes (Centistes) fuscipes** (Nees, 1834) [Bracon] (*Leiophron fuscipes* Wesmael, 1835). Russia: **EP** (NW, C, NC), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran.
- Centistes (Centistes) pumilio** Belokobylskij, 2000. Russia: **FE** (PR). – Korean Peninsula.
- Centistes (Centistes) shufanus** Belokobylskij, 2000. Russia: **FE** (PR).
- Centistes (Centistes) tsherskii** Belokobylskij, 1995. Russia: **FE** (PR). – Korean Peninsula.
- Centistes (Chetocentistes) chaetopygidium** Belokobylskij, 1992 (*Centistes spinulosus* Papp, 1994). Russia: **FE** (PR). – China (CC), Korean Peninsula.
- Centistes (Syrrhizus) delusorius** Foerster, 1863. Endoparasitoid of *Anthonomus pomorum* L. and *Rynchaenus testaceus* Müll. (Curculionidae). Russia: **EP** (NW, C), **FE** (KH, PR, KU). – Europe (WE, NE, EE).
- Centistes (Syrrhizus) ludius** Belokobylskij, 1992. Russia: **FE** (PR). – China (NE), Korean Peninsula.
- Centistes (Syrrhizus) minutus** Chen et van Achterberg, 1997. Russia: **FE** (KU). – China (CC).
- Centistes (Syrrhizus) odarka** Belokobylskij, 1996. Russia: **FE** (PR).

Tribe COSMOPHORINI

- COSMOPHORUS** Ratzeburg, 1848. Type species: *Cosmophorus klugi* Ratzeburg, 1848. Worldwide distributed medium-sized genus with three subgenera, *Eucosmophorus* Belokobylskij, 2000, *Cosmophorus* s. str. and *Regiphorus* van Achterberg, 2000. Endoparasitoids of bark-beetle adults (Curculionidae: Scolytinae). Number of species: World – 39, Palaeartic – 7, Russia – 3.
- Cosmophorus (Cosmophorus) cembrae** Ruschka, 1925. Endoparasitoid of adults from the genera *Cryphalus*, *Pityogenes*, *Pityokteines*, *Pityophthorus* and *Polygraphus* (Curculionidae: Scolytinae). Russia: **EP** (N, NW, E), **ES**

(KR), **FE** (PR, KU). – Europe (WE, NE, EE), Korean Peninsula, Japan.

- Cosmophorus (Cosmophorus) klugi** Ratzeburg, 1848 (*Cosmophorus lapponicus* Hedqvist, 1955). Endoparasitoid of adults from the genera *Dryocoetes*, *Hylurgops*, *Ips*, *Pityogenes*, *Pityokteines*, *Polygraphus*, etc. (Curculionidae: Scolytinae). Russia: **EP** (N, NW, C, CR), **WS** (TM), **FE** (PR). – Europe (WE, NE, SE, EE), China (SW), Japan.
- Cosmophorus (Regiphorus) regius** Niezabitowski, 1910. Endoparasitoid of adults from the genera *Dryocoetes*, *Hylastes*, *Ips*, *Polygraphus*, *Trypodendron*, etc. (Curculionidae: Scolytinae) and *Pityophagus* (Nitidulidae). Russia: **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Mongolia, China (NC), Japan.

- ROPALOPHORUS** Curtis, 1837. Type species: *Microctonus clavicornis* Wesmael, 1835. Small and mainly Holarctic genus; parasitoids of bark-beetle adults (Curculionidae: Scolytinae). Number of species: World – 4, Palaeartic – 3, Russia – 1.

- Ropalophorus clavicornis** (Wesmael, 1835) [Microctonus] (*Ropalophorus wisconsinensis* Shenefelt, 1960). Endoparasitoid of *Hylesinus fraxini* Pz., *Ips amitinus* Eichh., *I. typographus* L. and *Orthotomicus suturalis* Gyll. (Curculionidae: Scolytinae). Russia: **EP** (N, NW, C, E), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Japan, USA.

Tribe DINOCAMPINI

- DINOCAMPUS** Foerster, 1863. Type species: *Bracon terminatus* Nees, 1811. Monotypic and almost cosmopolitan genus. Endoparasitoids of adults or (rarely) last stage larvae of beetles from the family Coccinellidae.

- Dinocampus coccinellae** (Schrank, 1802) [Ichneumon] (*Bracon terminatus* Nees, 1811; *Euphorus sculptus* Cresson, 1872; *Centistes americana* Riley, 1888). Russia: **EP** (NW, C, E, NC), **WS** (TM, AL), **ES** (TU, ZB), **FE** (PR, SA, MG). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Syria, Iran, Turkmenistan, Uzbekistan, Kazakhstan, China (NE, NC, NW, CC, SE), Korean Peninsula, Japan, N and S America, India, Vietnam, South Africa, Fiji, Australia, New Zealand.

- ECCLITURA** Kokujev, 1902. Type species: *Ecclitura primoris* Kokujev, 1902. Monotypic Palaeartic genus with unknown hosts.

- Ecclitura primoris** Kokujev, 1902 (*Blacus pallens* Hedwig, 1957). Russia: **EP** (NC). – Europe (SE), Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan.

Tribe EUPHORINI

- LEIOPHRON** Nees, 1819. Type species: *Leiophron apicalis* Curtis, 1833 (= *Leiophron apicalis* Haliday, 1833). One of the largest and almost worldwide distributed

- euphorine genera, includes four subgenera, *Euphoria* Gahan, 1913, *Euphoriella* Ashmead, 1900, *Euphorus* Nees, 1834 and *Leiophron* s. str. Sometimes *Peristenus* Foerster, 1863 had been treated as a subgenus of this genus (Tobias et al., 1986a; Belokobylskij, Tobias, 2000), but recent molecular-phylogenetic study (Stigenberg et al., 2015) supports its generic status. Endoparasitoids of the nymphs and adults of the bugs (mainly from the family Miridae) and dust lice (Psocoptera). Number of species: World – about 120, Palaearctic – 48, Russia – 32.
- Leiophron (Euphoriana) chrysostigma** Tobias, 1986. Russia: **FE** (PR). – Europe (EE).
- Leiophron (Euphoriana) dispar** Belokobylskij, 1993. Russia: **FE** (PR, KU).
- Leiophron (Euphoriana) flaviceps** Belokobylskij, 1993. Russia: **FE** (PR).
- Leiophron (Euphoriana) frater** Tobias, 1986. Russia: **EP** (NW, C). – Kazakhstan, Mongolia.
- Leiophron (Euphoriana) heterocordyli** Richards, 1967. Endoparasitoid of *Asciodema obsoletum* Fieber, *Heterocordylus tibialis* Hahn and *Orthotylus adenocarpi* Pertis (Miridae). Russia: **ES** (TU), **FE** (PR). – Europe (WE), Iran, Mongolia.
- Leiophron (Euphoriana) kurentzovi** Belokobylskij, 1993. Russia: **FE** (PR).
- Leiophron (Euphoriella) deficiens** (Ruthe, 1856) [Microctonus] (*Euphorus arenicola* Thomson, 1892; *E. fulvipes* Thomson, 1892; *Euphoriana sibiricus* Tobias, 1962). Endoparasitoid of nymphs of *Campylomma diversicornis* Reut., *Creontiades pallidus* Rambur and *Polymerus cognatus* Fieber (Miridae). Russia: **EP** (NC), **ES** (YA), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, Korean Peninsula.
- Leiophron (Euphorus) alkonost** Belokobylskij, 2000. Russia: **FE** (PR). – Korean Peninsula.
- Leiophron (Euphorus) arsenjevi** Belokobylskij, 1993. Russia: **FE** (KH, PR).
- Leiophron (Euphorus) basalis** (Curtis, 1833) (*Leiophron similis* Curtis, 1829, nomen nudum). Endoparasitoid of the nymphs of *Valenzuela flavidus* Steph. (Psocoptera); infestation of coleopteran genera *Longitarsus*, *Phyllotreta* and *Psylliodes* (Chrysomelidae) is doubtful. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Iran, Kazakhstan.
- Leiophron (Euphorus) clypealis** Tobias, 1986. Russia: **EP** (C), **FE** (PR, SA, KU). – Europe (EE), Korean Peninsula, Japan (Kyu).
- Leiophron (Euphorus) fulvipes** Curtis, 1833. Endoparasitoid of the nymphs of *Amphigerontia bifasciata* Latr., *Elipsocus hyalinus* Steph. and *E. westwoodi* McLach. (Psocoptera). Russia: **EP** (NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), Korean Peninsula.
- Leiophron (Euphorus) gyrinus** Belokobylskij, 2000. Russia: **FE** (PR).
- Leiophron (Euphorus) janus** Belokobylskij, 2000. Russia: **FE** (PR).
- Leiophron (Euphorus) kurilensis** Belokobylskij, 1993. Russia: **FE** (PR, KU). – Korean Peninsula.
- Leiophron (Euphorus) maacki** Belokobylskij, 1993. Russia: **FE** (PR). – Korean Peninsula.
- Leiophron (Euphorus) pallidistigma** Curtis, 1833 (*Euphorus pallicornis* Nees, 1834; *Leiophron intactus* Haliday, 1835; *Microctonus claviventris* Wesmael, 1835; *M. parvulus* Ruthe, 1856). Endoparasitoid of *Peripsocus phaeopterus* Steph. and *Caecilius flavidus* Steph. (Psocoptera). Russia: **EP** (C, NC, CR), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Kazakhstan, Korean Peninsula.
- Leiophron (Euphorus) petiolatus** Belokobylskij, 1993. Russia: **FE** (KU).
- Leiophron (Euphorus) pygmaeus** Belokobylskij, 2000. Russia: **FE** (PR).
- Leiophron (Euphorus) raddei** Belokobylskij, 1993. Russia: **FE** (PR, SA). – Korean Peninsula.
- Leiophron (Euphorus) reductus** Belokobylskij, 2000. Russia: **FE** (PR).
- Leiophron (Euphorus) sakhalinensis** Belokobylskij, 1993. Russia: **FE** (SA).
- Leiophron (Euphorus) yankovskii** Belokobylskij, 1993. Russia: **FE** (PR, KU).
- Leiophron (Leiophron) apicalis** Haliday, 1833 (*Leiophron apicalis* Curtis, 1833; *Euphorus ornatus* Marshall, 1887). Endoparasitoid of the bug nymphs from the genera *Orthotylus* and *Pachylops* (Miridae). Russia: **FE** (KH, PR, KU). – Europe (WE, NE, EE), Azerbaijan, Uzbekistan, Kazakhstan, Korean Peninsula.
- Leiophron (Leiophron) fascipennis** (Ruthe, 1856) [Microctonus] (*Leiophron aciculatus* Belokobylskij, 1993). Russia: **FE** (KH, PR). – Europe (WE, NE, EE), Iran, Korean Peninsula.
- Leiophron (Leiophron) ferruginea** Belokobylskij, 1993 (*Leiophron ferrugineus* auct. as lapsus calami). Russia: **FE** (KH, PR). – Korean Peninsula.
- Leiophron (Leiophron) hankaica** Belokobylskij, 1993. Russia: **FE** (PR). – Korean Peninsula.
- Leiophron (Leiophron) pardus** Belokobylskij, 2000. Russia: **FE** (PR).
- Leiophron (Leiophron) przhivalskii** Belokobylskij, 1993. Russia: **FE** (PR). – Korean Peninsula.
- Leiophron (Leiophron) reclinator** (Ruthe, 1856) [Microctonus]. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Kazakhstan.
- Leiophron (Leiophron) ruber** Tobias, 1986. Russia: **EP** (C).
- Leiophron (Leiophron) subapicalis** Belokobylskij, 2000. Russia: **FE** (PR).
- PERISTENUS** Foerster, 1863. Type species: *Microctonus barbiger* Wesmael, 1835 (= *Leiophron pallipes* Curtis, 1833). Relatively large and almost worldwide distributed genus, endoparasitoids of the bug nymphs and adults from the family Miridae. It was sometimes considered as subgenus of *Leiophron* (Tobias et al., 1986a;

- Belokobylskij, Tobias, 2000). Number of species: World – 96, Palaearctic – 47, Russia – 30.
- Peristenus accinctus** (Haliday, 1835) [Leiophron] (*Microctonus laeiventris* Ruthe, 1856; *Peristenus spretus* Chen et van Achterberg, 1997). Endoparasitoid of nymphs of *Lygocoris pabulinus* L. (Miridae). Russia: **FE** (PR). – Europe (WE, EE), Turkey, China (SE), Korean Peninsula.
- Peristenus antennator** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (PR).
- Peristenus cognatus** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (PR). – Korean Peninsula.
- Peristenus convexus** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (PR).
- Peristenus facialis** (Thomson, 1892) [Euphorus] (*Euphorus microcerus* Thomson, 1892). Endoparasitoid of nymphs of *Orthotylus marginalis* Reut. and *Psallus varians* H.-Sch. (Miridae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Mongolia, Korean Peninsula.
- Peristenus furvus** Chen et van Achterberg, 1997. Russia: **FE** (PR, KU). – China (CC).
- Peristenus fuscotibialis** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (PR). – Korean Peninsula.
- Peristenus gamayun** (Belokobylskij, 1995) [Leiophron]. Russia: **FE** (PR). – Korean Peninsula.
- Peristenus golovnini** (Belokobylskij, 1995) [Leiophron]. Russia: **FE** (PR, KU).
- Peristenus goral** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (PR).
- Peristenus grandiceps** (Thomson, 1892) [Euphorus]. Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran, Kazakhstan.
- Peristenus kazak** (Tobias, 1986) [Leiophron]. Russia: **EP** (C).
- Peristenus kokujevi** (Tobias, 1986) [Leiophron]. Russia: **EP** (C).
- Peristenus orthotyli** (Richards, 1967) [Leiophron]. Endoparasitoid of nymphs and adults of the genera *Asciodema* and *Orthotylus* species (Miridae). Russia: **EP** (C, NC, CR). – Europe (WE, SE, EE).
- Peristenus pacificus** (Belokobylskij, 1995) [Leiophron]. Russia: **FE** (PR, SA, KU, MG, CH). – Korean Peninsula, Japan (Hok).
- Peristenus pallipes** (Curtis, 1833) [Leiophron] (*Microctonus barbiger* Wesmael, 1835; *Perilitus pallipes* Herrich-Schäffer, 1838; *Microctonus punctatus* Provancher, 1883; *Euphorus tuberculifer* Marshall, 1887). Endoparasitoid of adult bugs from the genera *Adelphocoris*, *Capsus*, *Closterotomus*, *Labops*, *Leptopterna*, *Lygus*, *Notostira*, *Plagiognathus* and *Trigonotylus* (Miridae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TK, AL), **ES** (IR, YA, ZB), **FE** (AM, PR, KU, KA, MG, CH). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, China (NE, CC, SE), Korean Peninsula, N America, Mexico.
- Peristenus picipes** (Curtis, 1833) [Leiophron] (*Euphorus coactus* Marshall, 1887). Endoparasitoid of *Adelphocoris lineolatus* Goeze (Miridae). Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Uzbekistan, Kazakhstan, China (NC, NW).
- Peristenus posjeti** (Belokobylskij, 1995) [Leiophron]. Russia: **FE** (PR).
- Peristenus procerus** Chen et van Achterberg, 1997. Russia: **FE** (PR). – China (NE), Korean Peninsula.
- Peristenus relictus** (Ruthe, 1856) [Microctonus] (*Peristenus stygicus* Loan, 1973). Endoparasitoid of bug nymphs from the genera *Adelphocoris*, *Closterotomus*, *Lygus*, *Polymerus* and *Trigonotylus* (Miridae). Russia: **EP** (NC). – Europe (WE, SE, EE), Turkey, Iran, USA.
- Peristenus rubricollis** (Thomson, 1892) [Euphorus] (*Peristenus conradi* Marsh, 1992). Endoparasitoid of bug nymphs from the genera *Adelphocoris*, *Empoasca* and *Lygus* (Miridae). Russia: **EP** (NC, CR). – Europe (WE, NE, EE), Turkey, Iran, Kazakhstan, N America.
- Peristenus rugitergum** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (PR, KU).
- Peristenus rugosus** Chen et van Achterberg, 1997. Russia: **FE** (PR). – China (CC).
- Peristenus shikotanicus** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (KU).
- Peristenus subfacialis** (Belokobylskij, 2000) [Leiophron]. Russia: **EP** (NW), **ES** (BR), **FE** (PR, SA). – Korean Peninsula.
- Peristenus suifunensis** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (PR).
- Peristenus tolerabilis** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (PR).
- Peristenus tristis** (Belokobylskij, 2000) [Leiophron]. Russia: **FE** (KU). – Korean Peninsula.
- Peristenus trjapitzini** (Tobias, 1986) [Leiophron]. Russia: **EP** (NC). – Europe (EE).
- Peristenus xanthos** Chen et van Achterberg, 1997. Russia: **FE** (KH, PR). – China (NE).
- MAMA** Belokobylskij, 2000. Type species: *Mama mariae* Belokobylskij, 2000. Monotypic Palaearctic genus.
- Mama mariae** Belokobylskij, 2000. Russia: **FE** (KH, PR). – Japan (Hon).

Tribe HELORIMORPHINI

- ARIDELUS** Marshall, 1887. Type species: *Aridelus bucephalus* Marshall, 1887. Medium-sized genus with worldwide distribution. Endoparasitoids of the bug nymphs and adults. Number of species: World – 46, Palaearctic – 11, Russia – 7.
- Aridelus alternecolatus** He, 1980 (*Aridelus sinensis* Wang, 1981; *A. alveolatus* Belokobylskij, 1985). Russia: **ES** (BR, ZB), **FE** (PR). – China (NE, NC, SW, SE).
- Aridelus dubius** Belokobylskij, 1981. Russia: **FE** (PR).
- Aridelus egregius** (Schmiedeknecht, 1907) [Helorimorpha] (*Aridelus nigricans* Chao, 1974; *A. destitutus* Chou, 1987). Endoparasitoid of bugs from the genera *Eurygaster*

(Scutelleridae), *Aelia*, *Dolycoris*, *Eurydema*, *Holcostethus*, *Palomena* (Pentatomidae) and *Coptosoma* (Plataspididae). Russia: **EP** (NC), **WS** (AL), **FE** (PR). – Europe (WE, EE), Azerbaijan, Turkey, China (CC, SE), Korean Peninsula.

Aridelus elasmuchae Maeto et Kudo, 1992. Endoparasitoid of the nymphs of *Elasmucha putoni* Scott (Acanthosomatidae). Russia: **FE** (PR). – Japan (Hok, Hon).

Aridelus flavicans Chao, 1974 (*Aridelus guizhouensis* Luo, 1985). Russia: **FE** (PR). – China (SE), Korean Peninsula, Japan.

Aridelus rufotestaceus Tobias, 1986. Endoparasitoid of *Nezara viridula* L. (Pentatomidae). Russia: **EP** (NC), **FE** (AM, KH, PR). – Europe (SE), Abkhazia, China (NC), Korean Peninsula.

Aridelus ussuriensis Belokobyl'skij, 1981. Russia: **FE** (KH, PR). – China (CC), Korean Peninsula.

CHRYSOPOPTHORUS Goidanich, 1948. Type species: *Chrysopophthorus chrysopimuginis* Goidanich, 1948 (= *Helorimorpha hungaricus* Zilachi-Kiss, 1927). Small but almost worldwide distributed genus; endoparasitoids of the lacewing adults from the family Chrysopidae (Neuroptera). Number of species: World – 8, Palaearctic – 2, Russia – 1.

Chrysopophthorus hungaricus (Zilachi-Kiss, 1927) [*Helorimorpha*] (*Chrysopophthorus chrysopimuginis* Goidanich, 1948; *Ch. elegans* Tobias, 1961). Endoparasitoid of adults from the genera *Chrysopa*, *Chrysoperla* and *Mal-lada* (Chrysopidae). Russia: **EP** (S), **FE** (PR). – Europe (WE, SE, EE), Azerbaijan, Turkey, Iran, Korean Peninsula, Réunion I.

HOLDAWAYELLA Loan, 1967 (*Ussuraridelus* Tobias et Belokobyl'skij, 1981). Type species: *Holdawayella tingiphaga* Loan, 1967. Small Holarctic genus; endoparasitoids of bug nymphs and adults from the family Tingidae. Number of species: World – 3, Palaearctic and Russia – 1.

Holdawayella minuta (Tobias et Belokobyl'skij, 1981) [*Ussuraridelus*] (*Ussuraridelus niger* auct., *U. yaoae* Chen et van Achterberg, 1997). Russia: **FE** (PR). – China (SE), Japan.

WESMAELIA Foerster, 1863. Type species: *Wesmaelia pendula* Foerster, 1863 (= *Euphorus petiolatus* Wollaston, 1858). Small and almost worldwide distributed genus, endoparasitoids of nymphs and adults of bugs from the family Nabidae. Number of species: World – 6, Palaearctic and Russia – 2.

Wesmaelia lepos Belokobyl'skij, 1992. Russia: **FE** (PR). – China (SE), Korean Peninsula.

Wesmaelia petiolata (Wollaston, 1858) [*Euphorus*] (*Wesmaelia pendula* Foerster, 1863; *W. cremasta* Marshall, 1872; *W. americana* Myers, 1917; *W. asiatica* Shestakov, 1932). Endoparasitoid of adults of *Nabis* sp. (Nabidae). Russia: **EP**

(NC), **WS** (AL), **FE** (PR). – Europe (WE, SE, EE), Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Uzbekistan, China (NW, SE), N America, Mexico, Peru.

Tribe METEORINI

METEORUS Haliday, 1835 (*Saprotichus* Holmgren, 1868; *Pachythecus* Cameron, 1912). Type species: *Ichneumon pendulator* Latreille, 1799 (= *Ichneumon pendulus* Müller, 1776). One of the largest euphorine genus widely distributed in all zoogeographic regions. Endoparasitoids of the larvae of Lepidoptera and Coleoptera. Number of species: World – about 350, Palaearctic – about 100, Russia – 60.

Meteorus abdominator (Nees, 1811) [Bracon] (*Meteorus brunnipes* Ruthe, 1862; *M. bruneipes* Dalla Torre, 1898; *M. brevipesalis* Shenefelt, 1969). Endoparasitoid of lepidopterans from the families Geometridae and Noctuidae. Russia: **EP** (NW, C, NC), **WS** (TK, TK), **ES** (KR, IR, BR, ZB), **FE** (AM, KH, PR, KU, KA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Kazakhstan, Korean Peninsula.

Meteorus abscissus Thomson, 1895. Endoparasitoid of lepidopterans from the families Arctiidae, Geometridae, Noctuidae, Oecophoridae and Pyraustidae. Russia: **EP** (NC), **WS** (NS), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Kazakhstan, China (SE), Korean Peninsula.

Meteorus affinis (Wesmael, 1835) [Perilitus] (*Meteorus gracilis* Ruthe, 1862; *M. punctiventris* Ruthe, 1862; *M. ruthei* Schmiedeknecht, 1897; *M. voloscensis* Fischer, 1959). Endoparasitoid of lepidopterans from the families Crambidae, Gelechiidae, Oecophoridae, Psychidae, Tineidae and Tortricidae. Russia: **EP** (NC), **ES** (ZB). – Europe (WE, NE, SE, EE), Armenia, Turkey, Israel, Iran, China (SE), Korean Peninsula.

Meteorus alboannulatus Belokobyl'skij, 1987. Russia: **FE** (PR).

Meteorus anastasiae Belokobyl'skij, 2000. Russia: **FE** (KH, PR). – Korean Peninsula.

Meteorus angustatus Maeto, 1988. Russia: **FE** (PR). – China (SW), Korean Peninsula, Japan (Hon, Kyu).

Meteorus angustifacies Belokobyl'skij, 1987. Russia: **FE** (KH, PR).

Meteorus brevantennatus Tobias, 1986. Endoparasitoid of *Blastophagus minor* Hartig and *Ips acuminatus* Gyll. (Curculionidae: Scolytinae). Russia: **EP** (E), **FE** (PR, KA). – Georgia, Iran.

Meteorus brevicauda Thomson, 1895 (*Meteorus thuringiacus* Schmiedeknecht, 1897; *M. mongolicus* Fahringer, 1935). Endoparasitoid of coleopterans *Melandrya* sp., *Orchesia micans* Pz. (Melandryidae), *Zeugophora subspinos* F. (Megalopodidae) and lepidopteran *Tineola bisselliella* Hummel (Tineidae). Russia: **FE** (PR, KA). – Europe (WE, NE, SE, EE), China (NC, NW, SE).

Meteorus cespitator (Thunberg, 1824) [Ichneumon] (*Ze-le atrator* Curtis, 1832; *Perilitus simulator* Nees, 1834;

- P. microcerus* Wesmael, 1835; *Bracon humeralis* Zetterstedt, 1838; *B. rufipes* Zetterstedt, 1838; *Meteorus ambiguous* Ruthe, 1862). Endoparasitoid of lepidopterans from the families Gelechiidae, Momphidae, Notodontidae and Tineidae and coleopterans from the families Cerambycidae, Ciidae and Melandryidae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TK, NS, AL), **ES** (TU, IR), **FE** (KH, PR, KA, CH). – Europe (WE, NE, SE, EE), Algeria, Georgia, Azerbaijan, Turkey, China (NE, CC), Japan (Hok, Kyu), New Zealand.
- Meteorus cinctellus** (Spinola, 1808) [Bracon] (*Perilitus fuscipes* Wesmael, 1835). Endoparasitoid of lepidopterans from the families Crambidae, Erebididae, Geometridae, Noctuidae and Tortricidae. Russia: **EP** (C, NC), **UR**, **WS** (TM), **ES** (BR), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Turkey, Iran, China (NE, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon), New Zealand.
- Meteorus cis** (Bouché, 1834) [Bracon] (*Perilitus profligator* Haliday, 1835). Endoparasitoid of *Cis boleti* Scop. (Ciidae) and *Epuraea distincta* Grimmer (Nitidulidae). Russia: **FE** (PR, KU, KA). – Europe (WE, NE, SE), Iran, China (NE, SE), Korean Peninsula, Japan (Hon, Kyu).
- Meteorus colon** (Haliday, 1835) [Perilitus] (*Perilitus fragilis* Wesmael, 1835; *P. fasciatus* Ratzeburg, 1844; *Meteorus alternatus* Ruthe, 1862; *M. continuus* Ruthe, 1862; *M. luridus* Ruthe, 1862; *M. pallidus* Ruthe, 1862; *M. trivittatus* Ruthe, 1862). Endoparasitoid of lepidopterans from the families Erebididae, Geometridae, Lymantriidae, Noctuidae, Nolidae, Notodontidae, Pyralidae and Tortricidae. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (KR), **FE** (AM, KH, PR, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, China (NE, NC, SW, SE), Japan (Hon, Kyu).
- Meteorus consimilis** (Nees, 1834) [Perilitus] (*Perilitus brevipes* Wesmael, 1835; *Meteorus albicornis* Ruthe, 1862; *M. flagellatus* Alexeev, 1971). Endoparasitoid of *Scolytus multistriatus* Marsh. (Curculionidae: Scolytinae). Russia: **EP** (NW, NC), **WS** (NS, AL). – Europe (WE, NE, SE, EE), Turkey, Iran, Turkmenistan.
- Meteorus corax** Marshall, 1898 (*Meteorus pospelovi* Telenga, 1950; *M. monochami* Fischer, 1957). Endoparasitoid of coleopterans mainly from the family Cerambycidae. Russia: **EP** (N, NC), **WS** (TM, NS, AL), **ES** (KR, IR), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE), Korean Peninsula, Japan.
- Meteorus eadyi** Huddleston, 1980. Russia: **EP** (NW). – Europe (WE, EE), Armenia, Turkey, Mongolia, Korean Peninsula.
- Meteorus filator** (Haliday, 1835) [Perilitus] (*Perilitus laticeps* Wesmael, 1835; *Meteorus hodisensis* Fischer, 1970). Russia: **EP** (NW, C, NC), **WS** (TK), **ES** (BR, ZB), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Mongolia, Korean Peninsula.
- Meteorus flavicoxa** Maeto, 1986. Russia: **FE** (KH, SA, KU). – Korean Peninsula, Japan (Hok, Hon).
- Meteorus graciliventris** Muesebeck, 1956. Endoparasitoid of *Pectinophora gossypiella* Saund. (Gelechiidae). Russia: **FE** (PR, KA, MG). – China (SE), Korean Peninsula, Japan.
- Meteorus heliophilus** Fischer, 1970. Endoparasitoid of lepidopterans from the family Noctuidae. Russia: **EP** (E), **FE** (? KH). – Europe (WE, SE, EE), China (NE, NC), Japan (Hok).
- Meteorus hirsutipes** Huddleston, 1980. Russia: **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Kazakhstan, China (NE, SE), Japan.
- Meteorus ictericus** (Nees, 1811) [Bracon] (*Ichneumon minor* Thunberg, 1822; *Zelee ephippium* Curtis, 1832; *Perilitus xanthomelas* Wesmael, 1835; *P. rubriceps* Ratzeburg, 1844; *Meteorus confinis* Ruthe, 1862; *M. consors* Ruthe, 1862; *M. fallax* Ruthe, 1862; *M. liquis* Ruthe, 1862; *M. pleuralis* Ruthe, 1862; *M. crassiscrus* Thomson, 1895; *M. lophyrphagus* Fahringer, 1934; *M. dumbletoni* Muesebeck, 1939; *M. adoxophyesi* Minamikawa, 1954; *M. makinoharanus* Minamikawa, 1954). Endoparasitoid of lepidopterans from the families Gelechiidae, Gracillariidae, Geometridae, Lymantriidae, Noctuidae, Pyralidae, Tortricidae, Yponomeutidae, etc. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TK, KM), **ES** (IR, BR), **FE** (AM, KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Kazakhstan, China (NE, NC, CC, SE), Korean Peninsula, Japan, USA, Australia.
- Meteorus insulicola** Maeto, 1989. Russia: **FE** (PR). – Japan (Hok, Hon, Kyu).
- Meteorus ipidivorus** Tobias, 1986. Endoparasitoid of *Blattophagus minor* Hart. and *Ips acuminatus* Gyll. (Curculionidae: Scolytinae). Russia: **EP** (E), **WS** (NS), **FE** (PR). – Europe (EE).
- Meteorus jaculator** (Haliday, 1835) [Perilitus] (*Meteorus obscurellus* Ruthe, 1862; *M. tenuicornis* Thomson, 1895). Endoparasitoid of lepidopterans from the families Gelechiidae, Psychidae and Tineidae. Russia: **FE** (? KA: Fahringer, 1929). – Europe (WE, NE, SE, EE), Turkey.
- Meteorus jezoensis** Maeto, 1988. Russia: **FE** (KH, SA). – China (SW), Japan (Hok).
- Meteorus kotenkoi** Belokobylskij, 1987 (*Meteorus albifasciatus* Maeto, 1989). Russia: **FE** (PR). – China (SE), Japan (Hok, Hon, Shi).
- Meteorus kunashiri** Belokobylskij, 1995. Russia: **FE** (KU).
- Meteorus kurokoi** Maeto, 1989. Russia: **FE** (PR). – China (SE), Japan (Kyu).
- Meteorus kyushuensis** Maeto, 1988. Endoparasitoid of *Neotriplax lewisi* Crotch (Erotylidae). Russia: **FE** (PR). – Europe (NE), Japan (Kyu).
- Meteorus limbatus** Maeto, 1988. Endoparasitoid of *Hypena proboscidalis* L. and *H. rostralis* L. (Noctuidae). Russia: **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, SE), China (CC, SW, SE), Korean Peninsula, Japan.
- Meteorus longicornis** (Ratzeburg, 1844) [Perilitus]. Endoparasitoid of *Lithosia quadra* L., *Lymantria dispar* L.

- (Erebidae) and *Phalera bucephala* L. (Notodontidae). Russia: **EP** (C). – Europe (WE, NE).
- Meteorus melanostictus** Capron, 1887 (*Meteorus niger* Lyle, 1913; *M. monachae* Tobias, 1986). Endoparasitoid of lepidopterans from the families Geometridae, Lymantriidae and Tortricidae. Russia: **WS** (TM), **FE** (PR, SA). – Europe (WE, EE), Georgia, Korean Peninsula, Japan (Hon).
- Meteorus micropilosus** Tobias, 1986. Russia: **EP** (NC).
- Meteorus micropterus** (Haliday, 1835) [Perilitus]. Endoparasitoid of *Hepialus humuli* L. and *Pharmacis fusconebulosa* Deg. (Hepialidae). Russia: **EP** (N), **FE** (KU). – Europe (WE, NE, EE), Turkey, Japan (Shi, Kyu).
- Meteorus nadezhdae** Lobodenko, 2000. Russia: **FE** (PR, KA). – Europe (EE).
- Meteorus narangae** Sonan, 1943. Endoparasitoid of *Naranga aenescens* Moore and *Pseudaletia separata* Walk. (Noctuidae). Russia: **FE** (KH, SA, KU). – China (NE, SW, SE), Japan, Vietnam.
- Meteorus nixonii** Huddleston, 1980. Russia: **FE** (PR). – Europe (WE), Japan (Kyu).
- Meteorus nodai** Maeto, 1988. Russia: **FE** (PR). – China (CC), Korean Peninsula, Japan (Kyu).
- Meteorus obfuscatus** (Nees, 1811) [Bracon] (*Zelex thoracicus* Curtis, 1832; *Perilitus formosus* Wesmael, 1835; *Alysia orchesia* Boie, 1841; *Meteorus fodori* Papp, 1973). Endoparasitoid of coleopterans from the families Cerambycidae, Curculionidae, Erotylidae, Melandryidae and Tenebrionidae. Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Japan.
- Meteorus obsoletus** (Wesmael, 1835) [Perilitus] (*Meteorus viridanae* Johansson, 1964). Endoparasitoid of lepidopterans mainly from the family Tortricidae. Russia: **EP** (NC), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Iran, Korean Peninsula, Japan.
- Meteorus oculatus** Ruthe, 1862 (*Meteorus pachypus* Schmiedeknecht, 1897). Endoparasitoid of *Taleporia tubulosa* Retz. (Lepidoptera: Psychidae) and *Xanthostigma xanthostigma* Schumm. (Neuroptera: Raphidioptera). Russia: **EP** (C), **UR**, **WS** (TM), **ES** (ZB), **FE** (MG). – Europe (WE, NE, EE), Turkey, Kyrgyzstan.
- Meteorus pendulus** (Müller, 1776) [Ichneumon] (*Ichneumon pendulator* Latreille, 1799; *I. gyrator* Thunberg, 1824; *Perilitus scutellator* Nees, 1834; *Bracon petiolor* Zetterstedt, 1838; *Perilitus communis* Cresson, 1872; *Meteorus parvulus* Thomson, 1895). Endoparasitoid of lepidopterans mainly from the families Arctiidae, Geometridae, Lasiocampidae, Lymantriidae, Noctuidae and Tortricidae. Russia: **EP** (NW, C, NC, CR), **UR**, **WS** (TK, AL), **ES** (IR, YA, ZB), **FE** (AM, KH, PR, SA, KU, MG). – Europe (WE, NE, SE, EE), Egypt, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NE, NC, CC, SW, SE), Korean Peninsula, Japan, N America.
- Meteorus pulchricornis** (Wesmael, 1835) [Perilitus] (*Meteorus striatus* Thomson, 1895; *M. thomsoni* Marshall, 1899; *M. japonicus* Ashmead, 1906; *M. nipponensis* Viebeck, 1912; *M. baicalensis* Telenga, 1950; *M. graeffei* Fischer, 1957; *M. macedonicus* Fischer, 1957; *M. tuberculifer* Fischer, 1957). Endoparasitoid of lepidopterans mainly from the families Arctiidae, Geometridae, Lasiocampidae, Lycaenidae, Lymantriidae, Noctuidae, Papilionidae, Pyralidae and Tortricidae. Russia: **EP** (C, NC, CR), **UR**, **WS** (NS), **ES** (IR), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Morocco, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Kazakhstan, Mongolia, China (NE, NC, CC, SW, SE), Korean Peninsula, Japan, India, Réunion I., Australia, New Zealand.
- Meteorus punctifrons** Thomson, 1895 (*Meteorus varinervis* Tobias, 1986). Endoparasitoid of coleopterans from the families Curculionidae (Scolytinae) and Tenebrionidae and perhaps *Hispanoraphidia* sp. (Neuroptera: Raphidioptera). Russia: **EP** (N). – Europe (WE, NE, EE).
- Meteorus radialis** Tobias, 1986. Russia: **EP** (N, C).
- Meteorus rex** Belokobylskij, 2000. Russia: **FE** (PR).
- Meteorus rossicus** Belokobylskij, 1995. Russia: **FE** (PR).
- Meteorus rubens** (Nees, 1811) [Bracon] (*Perilitus leviventris* Wesmael, 1835; *P. islandicus* Ruthe, 1859; *Meteorus medianus* Ruthe, 1862; *Perilitus dejanus* Rondani, 1877; *Meteorus scutatus* Costa, 1885; *M. heteroneurus* Thomson, 1895; *M. szechuanensis* Fahringer, 1935; *M. mesopotamicus* Fischer, 1957). Endoparasitoid of lepidopterans mainly from the families Gelechiidae, Lasiocampidae, Lymantriidae, Noctuidae, Pyralidae and Tortricidae. Russia: **EP** (N, NW, C, CR), **ES** (KR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA, MG, CH). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Egypt, Armenia, Azerbaijan, Turkey, Iraq, Israel, Iran, Turkmenistan, Kazakhstan, Mongolia, China (NE, NC, CC, SW, SE), Korean Peninsula, N America, Mexico, S America.
- Meteorus ruficeps** (Nees, 1834) [Perilitus] (*Perilitus pallipes* Wesmael, 1835; *Meteorus nigratarsis* Ruthe, 1862; *M. pallidipes* Marshall, 1887). Endoparasitoid of lepidopterans mainly from the families Arctiidae, Gelechiidae, Geometridae, Noctuidae, Tineidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW), **ES** (ZB), **FE** (KH, SA). – Europe (WE, NE, SE, EE), Armenia, Israel, China (NE, NC, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu).
- Meteorus rufus** (De Geer, 1778) [Ichneumon] (*Perilitus unicolor* Wesmael, 1835; *Saprotichus chinensis* Holmgren, 1868). Endoparasitoid of lepidopterans mainly from the families Crambidae, Erebidae, Geometridae, Noctuidae, Pieridae, Tortricidae and Zygaenidae. Russia: **EP** (NW), **WS** (TM), **ES** (YA), **FE** (KU). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, China, India.
- Meteorus salicorniae** Schmiedeknecht, 1897 (*Meteorus ocellatus* Watanabe, 1951). Endoparasitoid of *Achroia grisella* F., *Aphomia sociella* L. and *Galleria mellonella* L. (Galleriidae). Russia: **FE** (PR). – Europe (WE, SE, EE), Turkey, Korean Peninsula, Japan (Hon, Kyu).

- Meteorus subjaclator** Tobias, 1986. Russia: **EP** (NW), **WS** (AL).
- Meteorus sulcatus** Szépligeti, 1896 (*Meteorus insignis* Muesebeck, 1939; *M. molorchii* Fischer, 1966). Endoparasitoid of coleopterans from the families Buprestidae, Cerambycidae and Chrysomelidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, SE, EE), Korean Peninsula, Japan (Hon, Shi, Kyu).
- Meteorus sutshanicus** Belokobyl'skij, 2000. Russia: **FE** (PR).
- Meteorus tabidus** (Wesmael, 1835) [Perilitus] (*Meteorus dubius* Ruthe, 1862; *M. facialis* Ruthe, 1862; *M. pentheri* Fischer, 1970). Endoparasitoid of lepidopterans from the families Coleophoridae, Geometridae, Psychidae and Tortricidae and coleopterans from the family Cerambycidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Georgia, Turkey, Mongolia, Korean Peninsula.
- Meteorus takenoi** Maeto, 1989. Russia: **FE** (PR). – China (NE), Korean Peninsula, Japan (Kyu).
- Meteorus tenellus** Marshall, 1887 (*Meteorus boreus* Tobias, 1986). Endoparasitoid of *Acleris hastiana* L. (Tortricidae). Russia: **EP** (N), **WS** (TM), **ES** (YA). – Europe (WE, NE, EE).
- Meteorus versicolor** (Wesmael, 1835) [Perilitus] (*Perilitus bimaculatus* Wesmael, 1835; *P. unicolor* Hartig, 1838; *P. brevicornis* Ratzeburg, 1844; *P. rugator* Ratzeburg, 1852; *Meteorus decoloratus* Ruthe, 1862; *M. ikononovi* Fischer, 1959; *M. hartigi* Shenefelt, 1969). Endoparasitoid of lepidopterans mainly from the families Arctiidae, Gelechiidae, Geometridae, Lasiocampidae, Lymantriidae, Noctuidae and Tortricidae. Russia: **EP** (NW, C, E, NC), **UR**, **WS** (TM, TK, NS, AL), **ES** (IR, BR), **FE** (AM, KH, PR, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Palestine, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE, CC, SE), Korean Peninsula, Japan, N America, Mexico.
- Meteorus vexator** (Haliday, 1835) [Perilitus]. Endoparasitoid of *Biphyllus lunatus* F. (Biphyllidae). Russia: **EP** (NW, C, E, NC), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran.
- Meteorus zinaidae** Belokobyl'skij, 1987 (*Meteorus albizonalis* Maeto, 1988). Russia: **ES** (BR, ZB), **FE** (AM, KH, PR, SA). – China (CC, SE), Korean Peninsula, Japan (Hok, Hon).
- ZELE** Curtis, 1832 (*Protelus* Curtis, 1832; *Zemiotes* Foerster, 1863; *Meteorus* auct., part.). Type species: *Zelee testaceator* Curtis, 1832. Relatively small and worldwide distributed genus of the large euphorines. Number of species: World – 31, Palaearctic – 12, Russia – 8.
- Zelee admirabilis** Maeto, 1986. Russia: **FE** (PR, KU). – China (SE), Japan (Hok, Kyu).
- Zelee albiditarsus** Curtis, 1832 (*Zelee testaceator* Curtis, 1832; *Perilitus albitarsis* Nees, 1834; *P. dispar* Wesmael, 1835; *Meteorus calcitrator* Curtis, 1837; *Perilitus wesmaeli* Boie, 1850; *Zelee testaceatrix* Schulz, 1906). Endoparasitoid of lepidopterans mainly from the families Noctuidae and Tortricidae. Russia: **EP** (NW, C, E, NC), **UR**, **WS** (TK), **ES** (IR), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Israel, Iran, Kazakhstan, Mongolia, China (NE, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), N America, Mexico, India, Nepal.
- Zelee annulicrus** (Thomson, 1895) [Meteorus]. Russia: **EP** (C), **FE** (PR, KU). – Europe (WE, NE, EE).
- Zelee caligatus** (Haliday, 1835) [Perilitus] (*Meteorus neesii* Ruthe, 1862; *Dyscoletes alaskensis* Ashmead, 1902; *Meteorus sibiricus* Fahringer, 1929). Endoparasitoid of lepidopterans mainly from the family Geometridae. Russia: **EP** (NW, C), **WS** (TM), **ES** (IR), **FE** (SA, KA). – Europe (WE, NE, SE, EE), China (NE, CC, SW, SE), Japan (Hon), USA.
- Zelee chlorophthalmus** (Spinola, 1808) [Bracon] (*Bracon chrysophthalmus* Nees, 1811; *B. pallidus* Nees, 1811; *Ichneumon nudator* Thunberg, 1822; *Meteorus splendens* Costa, 1885; *M. nigricollis* Thomson, 1895). Endoparasitoid of lepidopterans mainly from the families Arctiidae, Crambidae, Erebidae, Geometridae, Lasiocampidae, Noctuidae, Pyralidae, Tortricidae and Zygaenidae. Russia: **EP** (C, NC), **ES** (IR, ZB), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Egypt, Caucasus, Israel, Iran, Kazakhstan, Mongolia, China (NE, NC, NW, CC), Korean Peninsula, Japan, India.
- Zelee deceptor** (Wesmael, 1835) [Perilitus] (*Perilitus pallitarsis* Cresson, 1872; *Meteorus rufulus* Thomson, 1895; *M. maximus* Muesebeck, 1923; *M. reticulatus* Muesebeck, 1923; *M. romani* Fahringer, 1929; *M. separandus* Fischer, 1957). Endoparasitoid of lepidopterans mainly from the families Crambidae, Geometridae, Noctuidae, Pyralidae and Tortricidae. Russia: **EP** (N, NW, C), **WS** (TM, NS), **ES** (IR, BR), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Turkey, Kazakhstan, China (NC, CC, SW, WP, SE), Korean Peninsula, Japan, N America, Mexico.
- Zelee niveitarsis** (Cresson, 1872) [Perilitus] (*Meteorus peronatus* Shestakov, 1940). Endoparasitoid of lepidopterans mainly from the families Geometridae and Pyralidae. Russia: **FE** (PR). – China (NC, CC, SE), Korean Peninsula, Japan, N America, Indonesia.
- Zelee ruricola** Maeto, 1986. Russia: **FE** (PR). – China (NE, SW), Korean Peninsula, Japan (Hok, Hon, Kyu).

Tribe MYIOCEPHALINI

- MYIOCEPHALUS** Marshall, 1898 (*Loxocephalus* Foerster, 1863; *Spilomma* Morley, 1909). Type species: *Microctonus boops* Wesmael, 1835. Small Holarctic genus which members perhaps parasitise Formicidae adults. Number of species: World and Palaearctic – 3, Russia – 2.
- Myiocephalus boops** (Wesmael, 1835) [Microctonus] (*Loxocephalus longipes* Foerster, 1863; *Gamosecus laticeps* Provancher, 1886; *Spilomma falconivibrans* Morley, 1909; *Aphidius hedini* Fahringer, 1929). Perhaps the

endoparasitoid of *Formica rufa* L. (Formicidae). Russia: **EP** (NC), **WS** (TM, AL), **ES** (IR, BR, YA), **FE** (KH, PR, KU, KA). – Europe (WE, NE, EE), Georgia, Iran, Mongolia, China (NE, SE), Korean Peninsula, Japan (Hok, Hon), N America.

Myiocephalus niger Fischer, 1957. Russia: **EP** (N), **ES** (KR), **FE** (KA). – Europe (WE, SE, EE), China (NC).

Tribe NEONEURINI

ELASMOSOMA Ruthe, 1858 (*Paramirax* Ashmead, 1895). Type species: *Elasmosoma berolinense* Ruthe, 1858. Small and mainly Holarctic genus; endoparasitoids of adult ants (Formicidae). Number of species: World – 13, Palaearctic – 7, Russia – 4.

Elasmosoma berolinense Ruthe, 1858. Endoparasitoid of ants from the genera *Camponotus*, *Formica*, *Lasius* and *Polyergus* (Formicidae). Russia: **EP** (NC), **WS** (TK), **ES** (KR, YA), **FE** (AM, PR, CH). – Europe (WE, NE, SE, EE), Turkey, Iran, Tajikistan, Kazakhstan, Mongolia.

Elasmosoma lindae Huddleston, 1976. Russia: **WS** (AL), **ES** (TU). – Mongolia.

Elasmosoma luxemburgense Wasmann, 1909 (*Elasmosoma ciliatum* Tobias, 1976). Endoparasitoid of *Formica rufibarbis* F. (Formicidae). Russia: **EP** (NC). – Europe (WE, SE, EE), Iran.

Elasmosoma pergandei Ashmead, 1895. Endoparasitoid of *Camponotus castaneus* Latr., *Formica integra* Nye and *F. subsericea* Say (Formicidae). Russia: **EP** (S). – Tajikistan, Mongolia, N America.

KOLLASMOSOMA van Achterberg et Argaman, 1993. Type species: *Elasmosoma platamonense* Huddleston, 1976. Small Palaearctic genus, endoparasitoids of adult ants of the genera *Cataglyphis* and *Formica* (Formicidae). Number of species: World and Palaearctic – 5, Russia – 1.

Kollasmosoma austrorossicum Belokobylskij, 2019. Russia: **EP** (S).

NEONEURUS Haliday, 1838 (*Ecclites* Foerster, 1863; *Sixia* Vollenhoven, 1867). Type species: *Neoneurus halidaii* Marshall, 1897 (= *Elasmosoma aucta* Thomson, 1895). Small Holarctic genus, endoparasitoids of adult ants of the genus *Formica* (Formicidae). Number of species: World – 13, Palaearctic – 6, Russia – 2.

Neoneurus auctus (Thomson, 1895) [*Elasmosoma*] (*Neoneurus halidaii* Marshall, 1897; *Euphorus bistigmaticus* Morley, 1909). Endoparasitoid of *Formica pratensis* Retz. and *F. rufa* L. (Formicidae). Russia: **EP** (N, NW, C, NC), **WS** (NS, AL), **ES** (KR, ZB), **FE** (PR, SA, KU). – Europe (WE, NE, EE), Turkey, Turkmenistan, Kazakhstan, Mongolia, Japan (Hon).

Neoneurus clypeatus (Foerster, 1863) [*Ecclites*] (*Elasmosoma viennensis* Giraud, 1871). Endoparasitoid of *Formica*

rufa L. (Formicidae). Russia: **EP** (C, NC, CR), **WS** (TM), **ES** (ZB), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Iran, Kazakhstan, Mongolia, Korean Peninsula.

Tribe PERILITINI

MICROCTONUS Wesmael, 1835. Type species: *Perilitus aethiops* Nees, 1834. Medium-sized genus with worldwide distribution. Sometimes considered only as subgenus of *Perilitus* Nees (Belokobylskij, Tobias, 2000; Haeselbarth, 2008). Endoparasitoids of coleopteran adults mainly from the families Chrysomelidae and Curculionidae. Number of species: World – 51, Palaearctic – about 30, Russia – 18.

Microctonus aethiops (Nees, 1834) [*Perilitus*] (*Microctonus spurius* Ruthe, 1856; *Euphorus brevispina* Thomson, 1892; *Microctonus aethiopoidea* Loan, 1975). Endoparasitoid of coleopteran adults from many genera of the family Curculionidae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (AL), **ES** (BR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG, CH). – Europe (WE, NE, SE, EE), Morocco, Armenia, Azerbaijan, Turkey, Israel, Iran, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (WP), Korean Peninsula, Japan, N America, S America, Australia, New Zealand.

Microctonus articulatus (Belokobylskij, 2000) [*Perilitus*]. Russia: **FE** (PR, SA).

Microctonus brevipetiolatus (Thomson, 1892) [*Perilitus*] (*Microctonus vittatae* Muesebeck, 1936; *M. zimmermanni* Loan et Wylie, 1984). Endoparasitoid of *Phyllotreta* species (Chrysomelidae). Russia: **EP** (NW). – Kazakhstan, Korean Peninsula, Japan, N America.

Microctonus cerealium (Haliday, 1835) [*Perilitus*] (*Perilitus secalis* Haliday, 1833; *P. rufipes* Herrich-Schäffer, 1839). Endoparasitoid of coleopteran adults from many genera of the families Chrysomelidae and Curculionidae. Russia: **EP** (E), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Tajikistan, Kazakhstan, Mongolia.

Microctonus cretaceus (Belokobylskij, 2000) [*Perilitus*]. Russia: **FE** (PR).

Microctonus flaviventris (Thomson, 1892) [*Perilitus*] (*Perilitus areolatus* Thomson, 1892). Endoparasitoid of *Phyllotreta* species (Chrysomelidae). Russia: **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE).

Microctonus haeselbarthi (Belokobylskij, 2000) [*Perilitus*]. Russia: **FE** (PR).

Microctonus harpali Watanabe, 1954 (*Microctonus brevicornis* Chen et van Achterberg, 1997). Endoparasitoid of *Pseudophonus capito* Mor. (Carabidae). Russia: **FE** (PR). – China (NE), Japan (Hok).

Microctonus hylobivorus (Belokobylskij, 2000) [*Perilitus*]. Endoparasitoid of *Hylobius sibiricus* Egorov (Chrysomelidae). Russia: **ES** (IR).

Microctonus maae (Chen et van Achterberg, 1997) [*Perilitus*]. Russia: **WS** (AL), **ES** (TU, ZB). – China (WP).

- Microctonus maritimus** (Belokobylskij, 2000) [Perilitus]. Russia: **FE** (PR).
- Microctonus melanopus** Ruthe, 1856. Endoparasitoid of *Ceutorhynchus* spp. and *Phytonomus meles* F. (Curculionidae). Russia: **EP** (NW, C, S), **UR**, **ES** (ZB), **FE** (PR, SA, KU, MG). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, N America.
- Microctonus modestus** (Belokobylskij, 2000) [Perilitus]. Russia: **FE** (PR, SA).
- Microctonus neptunus** Chen et van Achterberg, 1997. Russia: **FE** (PR). – China (CC), Korean Peninsula.
- Microctonus rasnitsyni** (Belokobylskij, 2000) [Perilitus]. Russia: **ES** (TU, ZB).
- Microctonus riphaeus** Tobias, 1986. Russia: **WS** (TM).
- Microctonus stelleri** Loan, 1972. Endoparasitoid of *Hypera nigrirostris* F., *H. postica* Gyll. and *H. variabilis* Hrbst. (Curculionidae). Russia: **EP** (NC), **ES** (YA), **FE** (MG, CH). – Europe (WE, NE, EE), Turkey, Israel, Iran, Mongolia, USA (introduced).
- Microctonus strophosomi** (Haeselbarth, 2008) [Perilitus]. Endoparasitoid of *Strophosoma melanogrammus* Forst. (Curculionidae). Russia: **UR**, **WS** (AL). – Europe (WE, SE, EE), Armenia, Kazakhstan.
- Microctonus sylvicola** (Belokobylskij, 2000) [Perilitus]. Russia: **FE** (PR).
- Microctonus taegeri** (Belokobylskij, 2000) [Perilitus]. Russia: **FE** (PR).
- Microctonus tuvaensis** (Belokobylskij, 2000) [Perilitus]. Russia: **ES** (TU).
- PERILITUS** Nees, 1819. Type species: *Bracon rutilus* Nees, 1811. One of the largest and almost worldwide distributed euphorine genera. Endoparasitoids of imagoes and rarely larvae of the beetles mainly from the families Chrysomelidae and Curculionidae. Number of species: World – about 130, Palaearctic – 70, Russia – 16.
- Perilitus aequorus** Chen et van Achterberg, 1997. Russia: **FE** (PR). – China (CC).
- Perilitus altaicus** Haeselbarth, 1999. Russia: **WS** (AL). – Kazakhstan.
- Perilitus areolaris** Gerdin et Hedqvist, 1985. Gregarious endoparasitoid of *Hylobius abietis* L. (Curculionidae). Russia: **EP** (NW). – Europe (WE, NE, EE).
- Perilitus chabarovi** Belokobylskij, 1995. Russia: **FE** (KH, PR).
- Perilitus cornelii** Haeselbarth, 1999. Russia: **FE** (PR). – Europe (WE, SE, EE).
- Perilitus coxator** Belokobylskij, 1995. Russia: **FE** (PR, SA, KU). – Korean Peninsula, Japan (Hok, Shi), Myanmar.
- Perilitus dauricus** Belokobylskij, 2000. Russia: **ES** (ZB).
- Perilitus debilis** Wollaston, 1858 (*Perilitus gracilipes* Thomson, 1892). Endoparasitoid of *Longitarsus flavicornis* Steph. (Chrysomelidae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE).
- Perilitus dubius** (Wesmael, 1838) [Microctonus] (*Perilitus rutilus* Herrich-Schäffer, 1838). Endoparasitoid of larva and adult of *Goniocetena olivacea* Forst. (Chrysomelidae). Russia: **EP** (E), **WS** (AL), **ES** (ZB). – Europe (WE, NE, SE, EE), Kazakhstan.
- Perilitus falciger** (Ruthe, 1856) [Microctonus]. Endoparasitoid of coleopteran adults of the families Chrysomelidae and Melandryidae. Russia: **EP** (NW), **ES** (TU, ZB), **FE** (PR, MG). – Europe (WE, NE, EE), Turkey, Israel, Iran, Uzbekistan, Kazakhstan, Mongolia.
- Perilitus flavifacies** Belokobylskij, 2000. Russia: **WS** (TM), **FE** (KH, PR). – Korean Peninsula.
- Perilitus foveolatus** Reinhard, 1862 (*Perilitus sicheli* Giard, 1895). Endoparasitoid of *Timarcha* species (Chrysomelidae). Russia: **FE** (PR). – Europe (WE, SE, EE), Turkey, Iran, Kazakhstan.
- Perilitus kokujevi** Tobias, 1986 (*Perilitus lateropus* Chen et van Achterberg, 1997; *P. liui* Chen et van Achterberg, 1997). Russia: **EP** (NW, C), **FE** (PR, SA). – Europe (NE), Turkey, China (CC, SW).
- Perilitus nigriscutum** Chen et van Achterberg, 1997. Russia: **FE** (PR). – China (CC, SW, SE).
- Perilitus pappi** Belokobylskij, 2000. Russia: **FE** (PR).
- Perilitus rutilus** (Nees, 1811) [Bracon] (*Perilitus luteus* Herrich-Schäffer, 1838; *P. ruralis* Herrich-Schäffer, 1838; *P. strenuus* Marshall, 1887; *Dinocampus pyri* Viereck, 1917; *Perilitus tuberculus* Zaykov, 1981). Endoparasitoid of coleopteran adults from the family Curculionidae. Russia: **EP** (NW, C, NC), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Turkey, Iran, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula, USA.
- RILIPERTUS** Haeselbarth, 1996. Type species: *Microctonus intricatus* Ruthe, 1859. Small Palaearctic genus. Number of species: World and Palaearctic – 6, Russia – 5.
- Rilipertus brevicauda** (Tobias, 1965) [Perilitus]. Russia: **WS** (AL), **FE** (PR, CH).
- Rilipertus dima** Belokobylskij, 2000. Russia: **WS** (TM).
- Rilipertus facialis** (Thomson, 1892) [Perilitus]. Endoparasitoid of *Ips typographus* L. (Curculionidae: Scolytidae). Russia: **EP** (N, C). – Europe (WE, NE, EE).
- Rilipertus gondattii** Belokobylskij, 2000. Russia: **FE** (PR).
- Rilipertus intricatus** (Ruthe, 1859) [Microctonus] (*Perilitus borealis* Thomson, 1892). Endoparasitoid of *Strophosoma capitatus* Deg. and *S. melanogrammus* Forst. (Curculionidae). Russia: **EP** (N), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Korean Peninsula.
- SPATHICOPIS** van Achterberg, 1977. Type species: *Spathicopis flavocephala* van Achterberg, 1977. Monotypic Holarctic genus; it was in the tribe Centiscini for a long time.
- Spathicopis flavocephala** van Achterberg, 1977. Russia: **EP** (NW, C), **WS** (AL), **FE** (PR, KU). – Europe (WE, EE), China (SE), USA.

Tribe PYGOSTOLINI

PYGOSTOLUS Haliday, 1833. Type species: *Ichneumon sticticus* Fabricius, 1798. Small genus, mainly distributed in the Holarctic. The status of *Pygostolus otiorhynchi* (Boudier, 1834) is discussed, because its differences from *Pygostolus falcatus* (Nees, 1834) base on the body colour and are not stable and distinctly vary especially in the eastern part of the areal. As a result, *Pygostolus otiorhynchi* is considered here as synonym of *P. falcatus*. Number of species: World – 8 (2 fossil), Palaearctic – 5, Russia – 2.

Pygostolus falcatus (Nees, 1834) [Leiophron] (*Bracon otiorhynchi* Boudier, 1834). Endoparasitoid of coleopteran adults from the families Chrysomelidae and Curculionidae. Russia: **EP** (NW, C), **UR**, **WS** (TK), **ES** (KR, BR, YA, ZB), **FE** (KH, PR, SA, KU, CH). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Kyrgyzstan, Kazakhstan, Mongolia, China (NC), N America (introduced).

Pygostolus multiarticulatus (Ratzeburg, 1852) [Blacus] (*Blacus falcatus* Wesmael, 1838; *Pygostolus septentrionalis* Watanabe, 1937). Endoparasitoid of coleopteran adults mainly from the family Curculionidae. Russia: **EP** (NW), **ES** (ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Japan (Hok).

Tribe SYNTRETINI

SYNTRETUS Foerster, 1863 (*Falcosyntretus* Tobias, 1965; *Exosyntretus* Belokobylskij, 1998; *Parasyntretus* Belokobylskij, 1998). Type species: *Microctonus vernalis* Wesmael, 1835 (= *Perilitus idalius* Haliday 1833). Medium-sized and worldwide distributed genus, endoparasitoids of bees (Apoidea) and Ichneumonidae adults. The genus includes four subgenera, *Exosyntretus* Belokobylskij, 1998, *Falcosyntretus* Tobias, 1965, *Parasyntretus* Belokobylskij, 1998 and *Syntretus* s. str. Number of species: World – 63, Palaearctic – 39, Russia – 26.

Syntretus (Exosyntretus) elabsus (Papp, 1992) [Falcosyntretus]. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok).

Syntretus (Exosyntretus) nevelskoi (Belokobylskij, 1996) [Exosyntretus]. Russia: **FE** (KH, PR).

Syntretus (Falcosyntretus) falcifer (Tobias, 1965) [Falcosyntretus]. Russia: **FE** (PR). – Kyrgyzstan, ? Japan.

Syntretus (Syntretus) abbreviator Belokobylskij, 2000. Russia: **FE** (PR).

Syntretus (Syntretus) amba Belokobylskij, 1993. Russia: **FE** (PR).

Syntretus (Syntretus) areolatus Belokobylskij, 2000. Russia: **FE** (PR).

Syntretus (Syntretus) bulbus Chen et van Achterberg, 1997. Russia: **FE** (PR). – China (SW, SE).

Syntretus (Syntretus) combinator Belokobylskij, 2000. Russia: **FE** (PR).

Syntretus (Syntretus) conterminus (Nees, 1834) [Perilitus]. Russia: **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE).

Syntretus (Syntretus) daghestanicus Tobias, 1976 (*Syntretus microphthalmus* Tobias, 1986). Russia: **EP** (NC), **FE** (PR, SA). – Europe (SE, EE), Turkey.

Syntretus (Syntretus) elegans (Ruthe, 1856) [Microctonus] (*Perilitus transsylvanicus* Kiss, 1927). Russia: **EP** (C, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Kazakhstan.

Syntretus (Syntretus) excavatus Belokobylskij, 2000. Russia: **FE** (PR).

Syntretus (Syntretus) grodekovi Belokobylskij, 2000. Russia: **FE** (PR).

Syntretus (Syntretus) hirtus Belokobylskij, 1996 (*Syntretus setosus* Chen et van Achterberg, 1997). Russia: **FE** (PR). – China (SW).

Syntretus (Syntretus) idalius (Haliday, 1833) [Perilitus] (*Microctonus vernalis* Wesmael, 1835; *M. cultus* Marshall, 1887). Russia: **EP** (NW, NC), **WS** (TM), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Iran, Kazakhstan, Mongolia.

Syntretus (Syntretus) klugii (Ruthe, 1856) [Microctonus]. Russia: **EP** (C). – Europe (WE, SE, EE), Tajikistan, Kazakhstan.

Syntretus (Syntretus) komarovi Belokobylskij, 1996. Russia: **FE** (PR).

Syntretus (Syntretus) makarovi Belokobylskij, 1996. Russia: **FE** (PR).

Syntretus (Syntretus) miscellus Belokobylskij, 1996. Russia: **FE** (KH, PR).

Syntretus (Syntretus) ocularis van Achterberg et Haelzelbarth, 2003. Russia: **EP** (CR). – Europe (WE, SE, EE), Turkey, Iran.

Syntretus (Syntretus) parvicornis (Reinhard, 1862) [Microctonus]. Russia: **EP** (NW), **WS** (TM), **ES** (ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, China (SE), Korean Peninsula.

Syntretus (Syntretus) planifacies Belokobylskij, 1993. Russia: **FE** (PR, KU).

Syntretus (Syntretus) sculptor Belokobylskij et Ku, 1998. Russia: **FE** (PR). – Korean Peninsula.

Syntretus (Syntretus) signatus Belokobylskij, 2000. Russia: **FE** (PR).

Syntretus (Syntretus) splendidus (Marshall, 1887) [Microctonus] (*Microctonus testaceus* Capron, 1887; *Syntretus niger* Tobias, 1976). Russia: **EP** (C, NC, CR), **ES** (KR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Kyrgyzstan, China (SE).

Syntretus (Syntretus) xanthocephalus (Marshall, 1887) [Microctonus] (*Syntretus lyctaea* Cole, 1959). Endoparasitoid of *Dirophanes invisor* Thunb. (Ichneumonidae). Russia: **EP** (NW), **UR**, **WS** (TM), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Iran, Tajikistan, China (SE), Korean Peninsula.

Tribe TOWNESILITINI

PROCLITHROPHORUS Tobias et Belokobylskij, 1981.

Type species: *Proclithrophorus mandibularis* Tobias et Belokobylskij, 1981. Small Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.

Proclithrophorus mandibularis Tobias et Belokobylskij, 1981. Russia: **FE** (PR). – China (NE).

STREBLOCERA Westwood, 1833 (*Eutanycerus* Foerster, 1963; *Lecythodella* Enderlein, 1912; *Cosmophoridia* Hedqvist, 1955; *Asiastreblocera* Belokobylskij, 1987). Type species: *Streblocera fulviceps* Westwood, 1833. One of the most peculiar euphorine genera characterised by strongly transformed basal segments of antenna in females, which are perhaps used for the fixation of the adults of chrysomelid beetles during infestation. The genus is mainly distributed in the Old World and consists of five subgenera. Number of species: World – 110, Palaearctic – 34, Russia – 14.

Streblocera (Asiastreblocera) dayuensis Wang, 1983. Russia: **FE** (PR). – China (NC, CC, SE), Korean Peninsula, Japan, Philippines.

Streblocera (Cosmophoridia) flaviceps (Marshall, 1898) [*Cosmophorus*]. Russia: **ES** (ZB), **FE** (PR). – Europe (WE, EE), China (CC), Korean Peninsula, Japan.

Streblocera (Eutanycerus) affinis Belokobylskij, 1987. Russia: **FE** (KH, PR). – Korean Peninsula.

Streblocera (Eutanycerus) dentiscapa Belokobylskij, 1987. Russia: **FE** (KH, PR, KU). – Korean Peninsula, Japan (Hon).

Streblocera (Eutanycerus) galinae Belokobylskij, 1987. Russia: **FE** (KH, PR, SA, KU). – Japan (Hok, Hon, Kyu).

Streblocera (Eutanycerus) macroscapa (Ruthe, 1856) [*Microctonus*] (*Eutanycerus halidayanus* Foerster, 1863). Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, EE), Turkey, Kazakhstan, Mongolia, Korean Peninsula.

Streblocera (Eutanycerus) major Belokobylskij, 1987. Russia: **FE** (PR). – Korean Peninsula.

Streblocera (Eutanycerus) okadai Watanabe, 1942 (*Streblocera orientalis* Chao, 1964; *S. zhongmouensis* Wang, 1982; *S. shaanxiensis* Wang, 1984; ? *S. flava* You et Xiong, 1988). Endoparasitoid of adult of *Medythia suturalis nigrobilineatus* Motsch. (Chrysomelidae). Russia: **FE** (AM, KH, PR). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan (Hok, Kyu), Vietnam.

Streblocera (Streblocera) carinata Belokobylskij, 1987. Russia: **FE** (PR).

Streblocera (Streblocera) fulviceps Westwood, 1833. Endoparasitoid of adult of *Chaetocnema cylindrica* Baly (Chrysomelidae). Russia: **FE** (PR). – Europe (WE), Turkey, China (NE).

Streblocera (Streblocera) longiscapha Westwood, 1882. Russia: **WS** (AL). – Europe (WE, EE), Kazakhstan.

Streblocera (Streblocera) monticola Belokobylskij, 2000. Russia: **FE** (PR).

Streblocera (Streblocera) spasskensis Belokobylskij, 2000. Russia: **FE** (PR).

Streblocera (Streblocera) ussurica Belokobylskij, 1987. Russia: **FE** (PR).

TOWNESILITUS Haeselbarth et Loan, 1983. Type species: *Microctonus bicolor* Wesmael, 1835. Small genus distributed in the Holarctic and Oriental regions. Endoparasitoids of Chrysomelidae adults. Number of species: World – 10, Palaearctic – 6, Russia – 3.

Townesilitus aemulus (Ruthe, 1856) [*Microctonus*] (*Microctonus punctifrons* Watanabe, 1955). Endoparasitoid of *Psylliodes punctifrons* Baly (Chrysomelidae). Russia: **FE** (PR, SA, KA, MG). – Europe (WE, SE, EE), Turkey, Japan (Hon).

Townesilitus bicolor (Wesmael, 1835) [*Microctonus*] (*Microctonus breviradialis* Tobias, 1976; ? *Townesilitus mellinus* Chen et van Achterberg, 1997). Endoparasitoid of coleopteran adults from the family Chrysomelidae. Russia: **EP** (NW, C, NC), **WS** (KM), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Tajikistan, Uzbekistan, Kazakhstan, Korean Peninsula.

Townesilitus deceptor (Wesmael, 1835) [*Microctonus*]. Endoparasitoid of adults of *Altica deserticola* Weise, *A. quercetorum* Foudr. and *Melasoma aeneum* L. (Chrysomelidae). Russia: **UR**, **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Turkey, China (CC), Korean Peninsula, Japan (Kyu, Ryu).

Subfamily EXOTHECINAE

S.A. BELOKOBYLSKIY

Medium-sized and very polymorphic ectoparasitoids of the caterpillars (often) and rarely of coleopteran, dipteran and hymenopteran (sawfly) larvae. Exothecinae s. l. is currently divided to several independent subfamilies (Lysiterminae, Pambolinae, Rhysipolinae, Hormiinae, Exothecinae) (Quicke, 2015; Yu et al., 2016), but we prefer to treat them here only as its tribes until receiving new solid support of the opposite opinion.

Number of taxa: World – 55 genera and about 470 species, Palaearctic – 19/135, Russia – 16/78.

References. Telenga, 1941; Tobias, 1971, 1976; Belokobylskij, 1981, 1984, 1986c, 1986d, 1990b, 1994a, 1996d, 2001, 2019d; Tobias, Belokobylskij, 1981; van Achterberg, 1983c, 1991, 1995; Tobias et al., 1986a; Wharton, 1993; Belokobylskij et al., 1998; van Achterberg, Shaw, 2008; Belokobylskij, Kula, 2012; Yu et al., 2016.

Tribe AVGINI

AVGA Nixon, 1940 (*Pseudobiosteres* Hedwig, 1961; *Popoviella* Tobias, 1962). Type species: *Avga choaspes* Nixon, 1940. Small genus known in the Palaearctic, Oriental and Australasian regions. In Taxapad (Yu et al.,

2016) *Pseudobiosteres* is treated as a valid genus. Number of species: World – 6, Palaearctic – 3, Russia – 3.

Avga caucasica Tobias, 1986. Russia: **EP** (NC). – ? Spain.

Avga opaca Hellén, 1957 (*Avga europeica* Tobias, 1971). Ectoparasitoid of *Pseudotelphusa paripunctella* Thunb. (Gelechiidae) and *Eupoecilia ambiguella* Hbn. (Tortricidae). Russia: **EP** (C). – Europe (WE, NE, EE), Korean Peninsula, Japan.

Avga singularis Belokobylskij, 1986. Russia: **ES** (YA, ZB), **FE** (PR). – Korean Peninsula, Japan (Hon).

PARAHORMIUS Nixon, 1940. Type species: *Parahormius jason* Nixon, 1940. Relatively large and world-wide distributed genus, most common in the subtropical and tropical regions. Number of species: World – 36, Palaearctic – 5, Russia – 3.

Parahormius axillaris Belokobylskij, 1990. Russia: **EP** (E).

Parahormius bikinus Belokobylskij, 1996. Russia: **FE** (KH). – Korean Peninsula.

Parahormius radialis Tobias, 1986. Russia: **EP** (NC). – Europe (EE).

PSEUDOHORMIUS Tobias et Alexeev, 1973. Type species: *Parahormius turkmenus* Tobias et Alexeev, 1973. Small genus known only from the fauna of the Old World. Number of species: World – 3, Palaearctic – 2, Russia – 1.

Pseudohormius turkmenus Tobias et Alexeev, 1973. Ectoparasitoid of *Bucculatrix crataegi* Z. (Bucculatricidae). Russia: **EP** (NC). – Turkey, Turkmenistan, Tajikistan.

Tribe EXOTHECINI

COLASTES Haliday, 1833 (*Phanomeris* Foerster, 1863; *Xenarcha* Foerster, 1863; *Shawiana* van Achterberg, 1983). Type species: *Colastes braconius* Haliday, 1833. Relatively large genus, the most abundant on species level in the Palaearctic and Oriental regions, a few taxa are also known in the Nearctic and Neotropics, but records in the latter region should be additionally verified. The genus includes six subgenera, *Colastes* s. str., *Discolastes* Belokobylskij, 2000, *Fungivenator* van Achterberg et Shaw, 2008, *Pseudophanomeris* Belokobylskij, 1984, *Shawiana* van Achterberg, 1983 and *Xenarcha* Foerster, 1863, but two latter names are often treated as separate genera (Yu et al., 2016). Number of species: World – 97, Palaearctic – 53, Russia – 40.

Colastes (Colastes) abdominalis Belokobylskij, 1986. Ectoparasitoid of sawfly *Pseudodineura fuscata* Klug (Tenthredinidae). Russia: **UR**.

Colastes (Colastes) affinis (Wesmael, 1838) [Exothecus] (*Exothecus flavitarsis* Thomson, 1892; *E. longicornis* Hellén, 1927). Ectoparasitoid of mining caterpillars from the families Cosmopterigidae, Gracillariidae, Heliozelidae, Lyonetiidae, Nepticulidae, Tephritidae and Tischeriidae,

dipteran larvae from the family Agromyzidae, coleopteran larvae from the family Curculionidae and sawflies larvae from the family Tenthredinidae. Russia: **EP** (N, NC, CR), **UR**, **ES** (ZB), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Mongolia, Korean Peninsula.

Colastes (Colastes) avatsha Belokobylskij, 1998. Russia: **FE** (KA).

Colastes (Colastes) braconius Haliday, 1833 (*Exothecus debilis* Wesmael, 1838; *Colastes gracilis* Papp, 1975). Ectoparasitoid of mining caterpillars from the families Coleophoridae, Cosmopterigidae, Gracillariidae, Heliozelidae, Lyonetiidae, Momphidae, Nepticulidae, Tischeriidae and Tortricidae, dipteran larvae from the family Agromyzidae, coleopteran larvae from the family Curculionidae and sawflies larvae from the family Tenthredinidae. Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **ES** (IR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, Korean Peninsula, Japan (Kyu).

Colastes (Colastes) dersu Belokobylskij, 1998. Russia: **FE** (KH, PR). – Korean Peninsula.

Colastes (Colastes) fragilis (Haliday, 1836) [Rogas] (*Colastes semeyticus* Jakimavicius, 1969). Russia: **ES** (YA). – Europe (WE, NE, EE).

Colastes (Colastes) incertus (Wesmael, 1838) [Exothecus]. Ectoparasitoid of *Eriocrania unimaculella* Zett. (Eriocraniidae). Russia: **EP** (N, NC), **WS** (TM), **ES** (IR, BR), **FE** (PR, SA, KU). – Europe (WE, NE, EE), Kazakhstan.

Colastes (Colastes) interdictus Belokobylskij, 1998. Russia: **FE** (PR). – Korean Peninsula, Japan (Kyu).

Colastes (Colastes) moldavicus Tobias, 1986. Russia: **EP** (CR). – Europe (WE, EE).

Colastes (Colastes) pilosiventris Belokobylskij, 1988. Russia: **FE** (SA). – China (SE), Japan (Hok).

Colastes (Colastes) pubicornis (Thomson, 1812) [Exothecus]. Ectoparasitoid of *Hylemya histicina* Rd. (Anthomyiidae). Russia: **EP** (N, NW, C), **ES** (BR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, EE), China (SE), Korean Peninsula, Japan (Hok, Hon, Kyu).

Colastes (Colastes) sylvicola Belokobylskij, 1998. Russia: **FE** (KU). – Japan (Kyu).

Colastes (Colastes) tobiasi Belokobylskij, 1998. Russia: **FE** (PR).

Colastes (Colastes) ussuricus Belokobylskij, 1996. Russia: **FE** (PR). – Japan (Kyu).

Colastes (Fungivenator) aciculatus Tobias, 1986. Russia: **EP** (NC). – Europe (EE), Turkey.

Colastes (Fungivenator) effectus (Papp, 1972) [Exothecus]. Russia: **EP** (E), **FE** (PR, SA). – China (NE), Korean Peninsula, Japan (Hok).

Colastes (Pseudophanomeris) insularis Belokobylskij, 1984. Russia: **FE** (PR, KU). – Japan (Hok, Hon).

Colastes (Pseudophanomeris) pilosus Belokobylskij, 1984. Russia: **EP** (NW), **FE** (PR). – Europe (EE), Korean Peninsula, Japan (Hon).

- Colastes (Pseudophanomeris) unicolor** Belokobylskij, 1984. Russia: **FE** (PR).
- Colastes (Shawiana) baikalicus** (Belokobylskij, 1998). Russia: **ES** (IR).
- Colastes (Shawiana) catenator** (Haliday, 1836) [Rogas]. Ectoparasitoid of sawfly larvae of the genera *Fenella*, *Fenusa*, *Heterarthrus*, *Messa*, *Metallus*, *Parna*, *Profenusa*, *Scolionera* (Tenthredinidae), *Eriocrania semipurplella* Steph. (Eriocraniidae) and *Phyllonorycter quercifoliella* Z. (Gracillariidae). Russia: **EP** (N, NW, E), **WS** (TM), **ES** (KR, IR, BR, YA, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Mongolia, Japan (Hok).
- Colastes (Shawiana) elongatus** Belokobylskij, 1998. Russia: **FE** (PR, SA).
- Colastes (Shawiana) foveolator** (Thomson, 1892) [Exothecus]. Ectoparasitoid of *Blasticotoma filiceti* Klug (Blasticotomidae), *Lithocolletis rajella* Frey, *Phyllonorycter alpina* Frey and *Ph. coryli* Nicelli (Gracillariidae). Russia: **WS** (TK), **ES** (IR), **FE** (KH, PR, SA, KU). – Europe (WE, NE), Japan (Hok).
- Colastes (Shawiana) laevis** (Thomson, 1892) [Exothecus]. Ectoparasitoid of sawfly larvae of the genera *Euura*, *Fenusa*, *Heterarthrus*, *Pontania*, *Scolionera* (Tenthredinidae). Russia: **EP** (N, NW, C, CR), **FE** (PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, Korean Peninsula.
- Colastes (Shawiana) lapponicus** (Thomson, 1892) [Exothecus]. Ectoparasitoid of sawfly larvae of numerous species of the genus *Pontania* (Tenthredinidae). Russia: **EP** (N), **WS** (TM), **ES** (YA), **FE** (SA, KU, KA, MG, CH). – Europe (WE, NE, EE).
- Colastes (Shawiana) laticarpus** (Thomson, 1892) [Exothecus] (*Exothecus flaviventris* Thomson, 1892). Russia: **ES** (KR, IR). – Europe (WE, NE), Georgia, Azerbaijan.
- Colastes (Shawiana) lissogaster** (Tobias, 1986). Ectoparasitoid of *Euura atra* Jur., *E. mucronata* Htg. and *Pontania bella* Zaddach (Tenthredinidae). Russia: **EP** (NW), **FE** (SA, KU, MG). – Europe (WE, NE), China (CC).
- Colastes (Shawiana) nuptus** Papp, 1983. Russia: **FE** (SA, KU). – Mongolia, Korean Peninsula.
- Colastes (Shawiana) orientalis** Belokobylskij, 1998. Russia: **ES** (BR, ZB), **FE** (KH, PR). – Korean Peninsula.
- Colastes (Shawiana) phyllotomae** (Muesebeck, 1932) [Phanomeris]. Ectoparasitoid of *Fenusa pumila* Leach, *F. pusilla* Lep. and *Heterarthrus nemoratus* Fll. (Tenthredinidae). Russia: **UR**, **ES** (ZB), **FE** (PR, SA, KU, KA). – Europe (WE), USA (introduced).
- Colastes (Shawiana) rupicola** Belokobylskij, 1998. Russia: **FE** (PR).
- Colastes (Shawiana) santacheza** Belokobylskij, 1998. Russia: **FE** (PR).
- Colastes (Xenarcha) abnormis** (Wesmael, 1838) [Exothecus] (*Exothecus glabricollis* Thomson, 1892). Ectoparasitoid of *Fenusa pumila* Leach, *F. pusilla* Lep. and *Messa nana* Klug (Tenthredinidae). Russia: **EP** (N, NW), **UR**, **WS** (TM), **ES** (IR, BR, YA, ZB), **FE** (KH, SA, KU, KA, MG). – Europe (WE, NE).
- Colastes (Xenarcha) adjunctus** Belokobylskij, 1998. Russia: **FE** (PR).
- Colastes (Xenarcha) bohayicus** Belokobylskij, 1998. Russia: **FE** (PR).
- Colastes (Xenarcha) brevipetiolatus** Tobias, 1986. Russia: **EP** (NC), **UR**, **ES** (IR, BR), **FE** (KH, CH). – Mongolia.
- Colastes (Xenarcha) ivani** Belokobylskij, 1986. Russia: **FE** (PR).
- Colastes (Xenarcha) kurilensis** Belokobylskij, 1996. Russia: **FE** (KU). – Japan (Hok, Hon).
- Colastes (Xenarcha) lustrator** (Haliday, 1836) [Rogas] (*Bracon dimidiatus* Nees, 1834; *Phanomeris thomsoni* Szépligeti, 1906; *Xenarcha lustratrix* Schulz, 1906). Ectoparasitoid of sawfly larvae of the genera *Fenella*, *Fenusa* and *Metallus* (Tenthredinidae). Russia: **EP** (NW, C, E, NC). – Europe (WE, NE, SE, EE), Georgia, Turkey.
- Colastes (Xenarcha) pacificus** Belokobylskij, 1998. Russia: **FE** (KU).
- COLASTINUS** Belokobylskij, 1984. Type species: *Colastinus crustatus* Belokobylskij, 1984. Small Eastern Palaearctic and Oriental genus. Number of species: World – 3, Palaearctic and Russia – 1.
- Colastinus crustatus** Belokobylskij, 1984. Russia: **FE** (PR).

Tribe HORMIINI

- HORMIUS** Nees, 1819 (*Chlidonia* Herrich-Schäffer, 1838; *Hormiellus* Enderlein, 1912; *Hormisca* Telenga, 1941; *Mediella* Hedqvist, 1963; *Anhormius* Belokobylskij, 1989). Type species: *Bracon moniliatus* Nees, 1811. Relatively large and worldwide distributed genus; ectoparasitoids of the larvae of Microlepidoptera. In Taxapad (Yu et al., 2016) *Hormisca* is treated as a valid genus. Number of species: World – 61, Palaearctic – 16, Russia – 7.
- Hormius extimus** Tobias, 1964. Russia: **EP** (S). – Europe (SE), Azerbaijan, Turkmenistan, Tajikistan, Mongolia.
- Hormius gelechia** Belokobylskij, 2001. Ectoparasitoid of *Gelechia senticetella* Staud. (Gelechiidae). Russia: **EP** (NC, CR). – Europe (EE).
- Hormius minialatus** Tobias, 1977. Russia: **ES** (ZB). – Europe (WE, NE), Mongolia.
- Hormius moniliatus** (Nees, 1811) [Bracon] (*Hormius piciventris* Wesmael, 1838; *H. brevipennis* Hellén, 1957; *Hormiopterus dusmeti* Docavo Alberti, 1960; *Hormius insularis* Hedqvist, 1965). Ectoparasitoid of microlepidopteran caterpillars from the families Coleophoridae, Crambidae, Depressariidae, Gelechiidae, Scythrididae and Tortricidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **WS** (AL), **ES** (TU, KR, IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KA, MG, CH). – Europe (WE, NE, SE, EE), Morocco,

Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NC, CC, SW, SE), Korean Peninsula, Japan (Hok), Vietnam.

Hormius orientalis Belokobylskij, 1980. Russia: **ES** (ZB), **FE** (KH, PR). – Korean Peninsula, Vietnam.

Hormius similis Szépligeti, 1896. Russia: **EP** (S), **ES** (ZB), **FE** (AM, KH, PR, SA, KU). – Europe (WE, SE, EE), Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, China (SE), Korean Peninsula, Japan (Hok, Hon).

Hormius staupolicus Belokobylskij, 2012. Russia: **EP** (NC).

Tribe LYSITERMINI

ACANTHORMIUS Ashmead, 1906. Type species: *Acanthormius japonicus* Ashmead, 1906. Relatively large genus distributed in tropics and subtropics of the Old World, ectoparasitoids of microlepidopteran caterpillars from the family Depressariidae. Number of species: World – 45, Palaearctic – 9, Russia – 2.

Acanthormius crustatus Belokobylskij, 1986. Russia: **FE** (PR).

Acanthormius rossicus Tobias et Belokobylskij, 1981. Russia: **FE** (PR).

LYSITERMUS Foerster, 1863 (*Trissarthrum* Ashmead, 1900; *Rogadinaspis* Bouček, 1956; *Paracedria* Hedqvist, 1957; *Prolysitermus* Tobias, 1971). Type species: *Lysitermus pallidus* Foerster, 1863. Small genus distributed in the Palaearctic, Afrotropical and Neotropical regions. Number of species: World – 8, Palaearctic – 4, Russia – 2.

Lysitermus longiventris (Tobias, 1976) [*Prolysitermus*]. Russia: **EP** (NC). – Europe (EE).

Lysitermus pallidus Foerster, 1863. Russia: **EP** (NC). – Europe (WE, NE, EE).

Tribe PAMBOLINI

CHREMYLUS Nees, 1833 (*Penecerus* Wesmäl, 1838; *Paramesocrina* Nagamori, 1925). Type species: *Chremylus elaphus* Haliday, 1833. Small and mainly Palaearctic genus which type species has cosmopolitan distribution as a parasitoid of the storage pests. Number of species: World and Palaearctic – 5 (1 fossil), Russia – 1.

Chremylus elaphus Haliday, 1933 (*Hormius rubiginosus* Nees, 1834; *Bracon transversus* Say, 1836; *Chremylus nigriceps* Ashmead, 1893; *Ch. terminalis* Ashmead, 1893; *Ch. japonicus* Ashmead, 1906; *Paramesocrina tineavora* Nagamori, 1925). Ectoparasitoid of coleopteran larvae from the families Anobiidae, Chrysomelidae (Bruchinae) and Curculionidae and caterpillars from the families Tineidae and Tortricidae. Russia: **EP** (NW, C, S, NC),

UR, **FE** (PR, KU). – Europe (WE, NE, SE, EE), Georgia, Japan, USA, Argentina, New Zealand.

DIMERIS Ruthe, 1854 (*Paraptesis* Magretti, 1884). Type species: *Dimeris mira* Ruthe, 1854. Monotypic Palaearctic genus with brachypterous female and full-winged male.

Dimeris mira Ruthe, 1854 (*Pambolus melanocephalus* Marshall, 1870; *Paraptesis flavipes* Magretti, 1884; *Dimeris aptera* Fitch, 1885; *D. inermis* Fitch, 1885). Ectoparasitoid of *Phaenops cyanea* F. (Buprestidae). Russia: **EP** (S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia.

PAMBOLUS Haliday, 1836 (*Araphis* Ruthe, 1854; *Folchinia* Kieffer, 1906). Type species: *Rogas biglumis* Haliday, 1836. Relatively small genus recorded in the Palaearctic, Afrotropical, Australasian and Neotropical regions. Female always brachy- or micropterous; male always without second radiomedial vein on completely developed fore wings. Number of species: World – about 15, Palaearctic – 6, Russia – 1.

Pambolus biglumis (Haliday, 1836) [*Rogas*] (*Arrhaphis dubius* Fitch, 1885). Ectoparasitoid of *Chrysomela minuta* L., *Cryptocephalus fulvus* Goese, *C. octomaculatus* Rossi, *C. quinquepunctatus* Har. (Chrysomelidae). Russia: **EP** (NW, C, S, NC), **UR**, **WS** (AL), **PR** (PR, MG). – Europe (WE, SE, EE), Kazakhstan, Mongolia.

PHAENODUS Foerster, 1863 (*Parapambolus* Dahl, 1912). Type species: *Phaenodus pallipes* Foerster, 1863. Medium-sized and almost worldwide distributed genus. Sometimes it is treated only as a subgenus of *Pambolus*. Female is usually full-winged; male has two radiomedial veins and on fore wing delineating two radiomedial cells. Number of species: World – 28, Palaearctic – 6, Russia – 3.

Phaenodus curvicaudis Belokobylskij, 1986. Russia: **FE** (PR).

Phaenodus pallipes Foerster, 1863 (*Araphis flavipes* Foerster, 1863; *Phaenodus pallidipes* Marshall, 1897; *Parapambolus rufigaster* Dahl, 1912; *Phaenodus chalveri* Docavo, 1960). Russia: **EP** (NW, NC, CR), **UR**, **ES** (ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, Tajikistan, Kazakhstan, Korean Peninsula, Japan.

Phaenodus rugulosus Hellén, 1927. Russia: **EP** (C). – Europe (WE, NE, EE), Kazakhstan, Mongolia.

Tribe RHYSIPOLINI

CEROPHANES Tobias, 1971. Type species: *Cerophanes kerzhneri* Tobias, 1971. Small Western Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.

Cerophanes kerzhneri Tobias, 1971. Russia: **UR**. – Europe (WE, EE), Armenia, Iran, Kazakhstan.

PACHYSTIGMUS Hellén, 1927 (*Noserus* Foerster, 1863). Type species: *Pachystigmus nitidulus* Hellén, 1927. Small genus recorded in the Palaearctic and Afrotropical regions. Number of species: World – 5, Palaearctic – 4, Russia – 3.

Pachystigmus facialis (Foerster, 1863) [*Noserus*] (*Oncophanes brevicauda* Tobias, 1964). Ectoparasitoid of *Bucculatrix ulmella* Z. (Bucculatricidae). Russia: **EP** (S, NC), **WS** (AL), **FE** (AM, KH, PR, MG). – Europe (WE, EE), Kazakhstan, Mongolia.

Pachystigmus occipitalis (Belokobylskij, 1986) [*Noserus*]. Russia: **FE** (PR). – Mongolia, Korean Peninsula.

Pachystigmus olgensis (Belokobylskij, 1994) [*Noserus*]. Russia: **FE** (PR).

PSEUDAVGA Tobias, 1964. Type species: *Pseudavga flavicoxa* Tobias, 1964. Monotypic Palaearctic genus; long time considered as a synonym of *Noserus* (= *Pachystigmus*) (Shaw, Sims, 2015).

Pseudavga flavicoxa Tobias, 1964 (*Rhysipolis rustus* Papp, 1991). Ectoparasitoid of *Leucoptera malifoliella* Costa (Lyonetiidae), *Bucculatrix thoracella* Thunb. and *B. ulmella* Z. (Bucculatricidae). Russia: **FE** (PR). – Europe (WE, SE, EE), Tajikistan, Kazakhstan.

RHYSIPOLIS Foerster, 1863. Type species: *Rogas mediator* Haliday, 1836. Medium-sized and widespread genus; ectoparasitoids of the microlepidopteran caterpillars mainly from the families Gelechiidae, Gracillariidae, Lyonetiidae and Momphidae. Number of species: World – 22, Palaearctic – 10, Russia – 8.

Rhysipolis bicarinator Belokobylskij, 1986. Russia: **FE** (KH, PR, SA, KU). – Korean Peninsula.

Rhysipolis decorator (Haliday, 1836) [*Rogas*] (*Exothecus ruficeps* Wesmael, 1838; *E. caudatus* Thomson, 1892; *Xenarcha ruficornis* Szépligeti, 1896). Ectoparasitoid of caterpillars from the families Choreutidae, Gelechiidae, Gracillariidae, Lyonetiidae and Momphidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Uzbekistan, Kazakhstan, Mongolia, N America.

Remarks. Record of this Western Palaearctic species in the Russian Far East (Primorskiy Territory) (Belokobylskij, 1981) was erroneous and Far Eastern material actually belongs to *Rh. enukidzei*.

Rhysipolis enukidzei Tobias, 1976 (*Rhysipolis alacer* Papp, 1987). Russia: **EP** (NC), **WS** (TM), **ES** (YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (EE), Georgia, Armenia, Azerbaijan, Turkey, Kazakhstan, Korean Peninsula, Japan (Hon).

Rhysipolis hariolator (Haliday, 1836) [*Rogas*] (*Exothecus barbatus* Wesmael, 1838). Ectoparasitoid of caterpillars from the genera *Parornix*, *Caloptilia*, *Phyllonorycter* (Gracillariidae) and *Cosmopterix* (Cosmopterigidae).

Russia: **EP** (N, NW, C, NC, CR), **UR**, **WS** (TM), **ES** (IR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Abkhazia, Georgia, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, Korean Peninsula, Japan (Hok).

Rhysipolis longicaudatus Belokobylskij, 1994 (*Rhysipolis mediator longicaudatus* Belokobylskij, 1994). Ectoparasitoid of *Taleporia* sp. (Psychidae) and *Bazaria turensis* Rag. (Pyralidae). Russia: **ES** (TU, BR, ZB), **FE** (KH, PR, SA, KU, MG). – Mongolia, China (NC, WP).

Rhysipolis mediator (Haliday, 1836) [*Rogas*] (*Exothecus intermedius* Wesmael, 1838; *E. obscuripes* Thomson, 1892; *E. varicoxa* Thomson, 1892; *Xenarcha major* Szépligeti, 1896; *X. similis* Szépligeti, 1896; *X. variabilis* Szépligeti, 1896; *Colastes bianchii* Telenga, 1941; *Rhysipolis gigas* Tobias, 1964; *Rh. mediator brevicaudatus* Belokobylskij, 1994). Ectoparasitoid of caterpillars from the families Gelechiidae, Gracillariidae, Elachistidae, Lyonetiidae, Momphidae, Pyralidae, Tineidae, Tischeriidae and Tortricidae, dipteran larvae from the families Anthomyiidae and Tephritidae and perhaps also coleopteran larvae from the family Curculionidae. Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (AL), **ES** (TU, IR, BR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG, CH). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, China (SE), Korean Peninsula, Japan (Hok), Vietnam.

Rhysipolis oculator Belokobylskij, 1986. Russia: **FE** (PR). – Korean Peninsula.

Rhysipolis temporalis Belokobylskij, 1986 (*Rhysipolis germanus* Papp, 1987). Russia: **FE** (KH, PR). – Korean Peninsula, Japan (Hon, Kyu).

Subfamily GNAMPTODONTINAE (GNAPTODONTINAE)

S.A. BELOKOBYSKIJ

Small and almost cosmopolitan subfamily of koinobiont endoparasitoids of caterpillars mainly from the family Nepitculidae (Lepidoptera). The subfamily includes two tribes: the Nearctic Exodontiellini (with single genus *Exodontiella* Wharton, 1977) and Gnamptodontini with four described genera, worldwide *Gnamptodon* Haliday, 1833, Palaearctic *Gnaptogaster* Tobias, 1976, Afrotropical *Neognamptodon* Belokobylskij, 1999 and mainly New World *Pseudognamptodon* Fischer, 1965.

Number of taxa: World – 5 genera and 90 species, Palaearctic – 2/22, Russia – 2/9.

References. Tobias, 1976c; van Achterberg, 1983d; Tobias et al., 1986a; Belokobylskij, 1987c, 2007b; Belokobylskij et al., 1998, 2012b, 2019d; Yu et al., 2016.

GNAMPTODON Haliday, 1833 (*Gnamptodon* auct.). Type species: *Bracon pumilio* Nees, 1834. The largest genus

of the subfamily with worldwide distribution; parasitoids of lepidopteran caterpillars mainly of the family Nepticulidae, but rarely also Gracillariidae. Number of species: World – 54, Palaearctic – 18, Russia – 7.

Gnamptodon abnormis (Belokobylskij, 1987) [Gnamptodon]. Russia: **FE** (PR).

Gnamptodon boreus (Tobias, 1986) [Gnamptodon]. Russia: **EP** (N), **WS** (TM).

Gnamptodon breviradialis (Fischer, 1959) [Gnamptodon]. Parasitoid of lepidopteran caterpillars from the genera *Acalypttris*, *Ectoedemia* and *Stigmella* (Nepticulidae). Russia: **EP** (NC, CR), **FE** (KH, PR). – Europe (WE, SE, EE), Iran.

Gnamptodon decoris (Foerster, 1862) [Mesotages] (*Gnamptodon klemensiewiczii* Niezabitowski, 1910; *G. bachmaieri* Fischer, 1957). Parasitoid of lepidopteran caterpillars from the genera *Bohemannia*, *Ectoedemia*, *Parafomoria*, *Stigmella* and *Trifurcula* (Nepticulidae). Russia: **EP** (C, NC), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula.

Gnamptodon georginae (van Achterberg, 1983) [Gnamptodon]. Endoparasitoid of lepidopteran caterpillars from the genus *Stigmella* (Nepticulidae). Russia: **EP** (C, CR), **FE** (PR, KA, MG). – Europe (WE, SE, EE), Algeria, Iran, Mongolia, China (NE), Korean Peninsula.

Gnamptodon pumilio (Nees, 1834) [Bracon] (*Diraphus pygmaeus* Wesmael, 1838). Endoparasitoid of lepidopteran caterpillars from the genera *Bohemannia*, *Ectoedemia*, *Parafomoria*, *Stigmella* and *Trifurcula* (Nepticulidae). Russia: **EP** (NW, C, E, CR), **WS** (TM), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Iran, Korean Peninsula.

Gnamptodon sichotaelinicus (Belokobylskij, 1987) [Gnamptodon]. Russia: **FE** (PR).

GNAPTOGASTER Tobias, 1976. Type species: *Gnamptogaster mongolica* Tobias, 1976. Small Palaearctic genus inhabiting the arid territories. Number of species: World and Palaearctic – 3, Russia – 2.

Gnamptogaster astrachanica Belokobylskij, 2007. Russia: **EP** (S).

Gnamptogaster levipleuris Tobias, 1986. Russia: **EP** (S). – Kazakhstan.

Subfamily HELCONINAE

S.A. BELOKOBYLSKIJ

Relatively small and phylogenetically basal subfamily of the non-cyclostome braconids, consists of six tribes, Brulleiini, Chelonohelconini (with a single fossil genus), Diospilini, Eadyini, Helconini and Dyscoletini; the latter tribe sometimes is included in the subfamily Blacinae (Yu et al., 2016), while the tribes Brulleiini, Diospilini and Eadyini

were recently moved in the subfamily Brachistinae on the basis of molecular data (Sharanowski et al., 2011). Most of helconine members are larval or egg-larval (Diospilini) endoparasitoids of beetles mainly from the family Cerambycidae; *Dyscoletes* species were reared from *Boreus* sp. (Mecoptera).

Number of taxa: World – 33 genera (and three fossil) and about 280 species, Palaearctic – 12/105, Russia – 10/55.

References. Watanabe, 1931, 1972; Telenga, 1950; Tobias, 1967b; van Achterberg, 1983e, 1987; Tobias et al., 1986a; Belokobylskij, 1989b, 1990c, 1993e, 2019d; Belokobylskij, Lobodenko, 1997; Belokobylskij et al., 1998; Yu et al., 2016.

Tribe BRULLEIINI

BRULLEIA Szépligeti, 1904. Type species: *Brulleia melanocephala* Szépligeti, 1904. Medium-sized genus of large specimens of the tribe Brulleiini, but according to last molecular-phylogenetic study (Sharanowski et al., 2011) this tribe (together with Diospilini) was included in the subfamily Brachistinae. Number of species: World – 18, Palaearctic – 4, Russia – 1.

Brulleia chankaica Belokobylskij, 1996. Russia: **FE** (PR).

Tribe DIOSPILINI

ASPICOLPUS Wesmael, 1838 (*Aspidocolpus* Agassiz, 1846). Type species: *Helcon carinator* Nees, 1812. Relatively small genus of the tribe Diospilini; parasitoids of the xylophagous beetles mainly from the family Cerambycidae. Number of species: World – 23 (including 6 fossil), Palaearctic – 10, Russia – 8.

Aspicolpus carinator (Nees, 1812) [Helcon] (*Diospilus maximus* Szépligeti, 1900). Endoparasitoid of beetles from the genera *Anthaxia* (Buprestidae), *Xylopertha* (Bostrichidae), *Callidium*, *Clytus*, *Exocentrus*, *Leipus*, *Obrium*, *Oplosia*, *Phymatodes*, *Plagionotus*, *Saperda* and *Xylotrechus* (Cerambycidae), *Scolytus* (Curculionidae: Scolytinae). Russia: **EP** (NW, E, NC), **ES** (YA), **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Iran, Uzbekistan.

Aspicolpus clipealis (Tobias, 1967) [Aspidocolpus]. Endoparasitoid of *Xylotrechus hircus* Gebl. (Cerambycidae). Russia: **FE** (AM, PR).

Aspicolpus eximius (Shestakov, 1940) [Aspidocolpus]. Russia: **FE** (PR, SA). – Japan (Hok).

Aspicolpus jozanus (Watanabe, 1931) [Helcon] (*Aspidocolpus nigripes* Tobias, 1967). Endoparasitoid of *Acanthocinus aedilis* L., *A. griseus* F., *Monochamus sutor* L. and *Tetropium castaneum* L. (Cerambycidae). Russia: **FE** (PR). – China (NC), Japan (Hok).

Aspicolpus odontonotum (Tobias, 1967) [Aspidocolpus]. Endoparasitoid of *Xylotrechus clarinus* Bates (Cerambycidae). Russia: **ES** (ZB), **FE** (KH, PR, SA, KU, KA). – Korean Peninsula.

- Aspicolpus sibiricus** (Fahringer, 1934) [Helcon] (*Helcon borealis sibirica* Fahringer, 1934). Endoparasitoid of *Chlorophorus herbsti* Brehm. (Cerambycidae). Russia: **FE** (KA). – Europe (WE, NE, EE), Iran.
- Aspicolpus udaegae** Belokobylskij, 1993. Russia: **FE** (PR).
- Aspicolpus vernalis** Belokobylskij, 1990. Russia: **FE** (KH, PR).
- ASPIGONUS** Wesmael, 1835 (*Aspidogonus* Agassiz, 1846). Type species: *Aspigonus diversicornis* Wesmael, 1835. Number of species: World – 4, Palaearctic – 3, Russia – 2.
- Aspigonus aino** (Watanabe, 1931) [Helcon]. Endoparasitoid of *Ivania coccinea* Lw. (Melandryidae). Russia: **FE** (KU). – Japan.
- Aspigonus diversicornis** Wesmael, 1835. Endoparasitoid of the genera *Anaglyptus*, *Callidium* and *Clytus* (Cerambycidae), *Hylecoetus* (Lymexylonidae), *Melandrya* (Melandryidae), *Mycetochara* (Alleculidae). Russia: **EP** (NC), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Georgia.
- BAEACIS** Foerster, 1878. Type species: *Aspigonus abietis* Ratzeburg, 1844. Small genus which has been synonymised with *Diospilus* Haliday (van Achterberg, 2014), but recently (Belokobylskij, Fujie, 2017) its status has been resurrected on the basis of new diagnostic characters. Number of species: World – 19, Palaearctic – 7, Russia – 2.
- Baeacis abietis** (Ratzeburg, 1844) [Aspigonus]. Endoparasitoid of the genera *Anobium* (Anobiidae), *Ernobius* and *Xestobium* (Ptinidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Baeacis semanoti** (Watanabe, 1954) [Aspidocolpus]. Endoparasitoid of *Callidium rufipennis* Motsch. (Cerambycidae). Russia: **FE** (KU). – Korean Peninsula, Japan (Hon, Shi).
- DIOSPILOTUS** Haliday, 1833. Type species: *Diospilus olivaceus* Haliday, 1833. Relatively large genus with species mainly described from the Palaearctic region. Number of species: World – about 55, Palaearctic – 32, Russia – 21.
- Diospilus capito** (Nees, 1834) [Bracon] (*Bracon filator* Nees, 1834; *Taphaeus fuscipes* Wesmael, 1835). Endoparasitoid of the genera *Anobium* (Anobiidae), *Psylliodes* (Chrysomelidae), *Ceutorhynchus*, *Gymnetron*, *Hypurus*, *Magdalis* (Curculionidae), *Meligethes* (Nitidulidae) and *Byctiscus* (Rhynchitidae). Russia: **EP** (N, NW, C, NC). – Europe (WE, NE, SE, EE), Morocco, Armenia, Azerbaijan, Turkey, Israel, Kazakhstan, Mongolia.
- Diospilus dilatatus** Thomson, 1895. Endoparasitoid of *Magdalis armigera* Geoffr. (Curculionidae). Russia: **FE** (KU). – Europe (WE, NE, EE).
- Diospilus dispar** (Nees, 1811) [Bracon] (*Bracon ephippium* Nees, 1834). Endoparasitoid of coleopterans mainly from the genus *Dorcatoma* (Ptinidae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Israel, Mongolia, Korean Peninsula.
- Diospilus eous** Belokobylskij, 1998. Russia: **FE** (PR).
- Diospilus fusciventris** Hellén, 1958 (*Diospilus longicauda* Tobias, 1986). Russia: **EP** (NW, C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, Korean Peninsula.
- Diospilus inflexus** Reinhard, 1862. Russia: **EP** (NC). – Europe (WE, EE), Turkey.
- Diospilus kokujevi** Tobias, 1986. Russia: **EP** (C). – Europe (WE, SE, EE).
- Diospilus konoii** Watanabe, 1938. Endoparasitoid of *Dorcatoma hattorii* Kono (Ptinidae). Russia: **FE** (PR, SA).
- Diospilus melanoscelus** (Nees, 1834) [Bracon]. Endoparasitoid of *Dorcatoma dresdensis* Hbst. and *D. chrysomelina* Sturm (Ptinidae). Russia: **EP** (C), **FE** (KA). – Europe (WE, NE, EE), Turkey, Korean Peninsula.
- Diospilus molorchicola** Fischer, 1966. Endoparasitoid of *Agrilus roscidus* Kiesw., *A. rossicus* Kiesw. (Buprestidae), *Molorchus umbellatarum* Schreber (Cerambycidae). Russia: **EP** (NC). – Europe (WE, EE), Georgia, Armenia.
- Remarks.** Specimens of this species were erroneously recorded from Primorskiy Territory (Belokobylskij, 1989b; Yu et al., 2016); they actually belong to *D. quickei* (Belokobylskij, Lobodenko, 1997).
- Diospilus morosus** Reinhard, 1862. Endoparasitoid of *Phyllotreta nemorum* L., *Psylliodes chrysocephala* L. (Chrysomelidae), *Ceutorhynchus assimilis* Payk. (Curculionidae) and *Dacne bipustulata* Thunb. (Erotylidae). Russia: **EP** (NW, C, E, S, CR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Diospilus nigricornis** (Wesmael, 1835) [Taphaeus] (*Taphaeus affinis* Wesmael, 1835; *Diospilus rufipes* Reinhard, 1862). Endoparasitoid of *Xestobium* (Anobiidae), *Pogonocherus* (Cerambycidae), *Archarius*, *Ceutorhynchus*, *Rhynchaenus* (Curculionidae) and *Byctiscus* (Rhynchitidae). Russia: **EP** (NW, C, NC), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Korean Peninsula.
- Diospilus nigripedalis** Belokobylskij, 1990. Russia: **FE** (SA, KU, KA).
- Diospilus olivaceus** Haliday, 1833 (*Diospilus ruficornis* Szépligeti, 1896; *Taphaeus conformis* Wesmael, 1935). Endoparasitoid of several species of *Ceutorhynchus* (Curculionidae), *Psylliodes* (Chrysomelidae), *Scolytus* (Curculionidae: Scolytinae) and *Meligethes* (Nitidulidae). Russia: **EP** (NW, C, E), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, China (NC), Korean Peninsula.
- Diospilus pacificus** Belokobylskij, 1990. Russia: **FE** (KU).
- Remarks.** Information about record of this species in Primorskiy Territory (Yu et al., 2016) is wrong and absent in Belokobylskij and Lobodenko (1997).
- Diospilus parentalis** Belokobylskij, 1997. Russia: **FE** (PR).
- Diospilus quickei** Belokobylskij, 1997 (*Diospilus molorchicola* auct.). Endoparasitoid of *Phymatodes infasciatus* Pic and *Ph. zemlinae* Plav. et Anufriev (Cerambycidae). Russia: **FE** (PR).
- Diospilus sichotaenicus** Belokobylskij, 1993. Russia: **FE** (PR, KU).

Diospilus subulatus Belokobylskij, 1998. Russia: **FE** (PR).
Diospilus ussuriensis Belokobylskij, 1990. Russia: **FE** (PR, SA, KU).

Diospilus ventralis Belokobylskij, 1997. Russia: **FE** (PR).

TAPHAEUS Wesmael, 1835. Type species: *Taphaeus irregularis* Wesmael, 1835 (= *Ichneumon hiator* Thunberg, 1824). Small genus. Number of species: World – 6, Palaearctic and Russia – 2.

Taphaeus hiator (Thunberg, 1824) [*Ichneumon*] (*Helcon speculator* Haliday, 1835; *Taphaeus irregularis* Wesmael, 1835; *Diospilus polydrusi* Gahan, 1916). Endoparasitoid of *Polydrusus impressifrons* Gyll. (Curculionidae). Russia: **EP** (NW, C, NC), **UR**, **WS** (TM, NS, AL), **ES** (KR, IR, BR, YA, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Iran, Kazakhstan, Mongolia, USA.

Taphaeus rufoccephalus (Telenga, 1950) [*Diospilus*]. Russia: **EP** (C), **WS** (KM, AL), **ES** (TU, KR, ZB), **FE** (PR). – Europe (WE), Turkey, Kazakhstan.

Tribe DYSCOLETINI

HELLENIUS Tobias, 1982. Type species: *Diospilus semiruber* Hellén, 1958. Small genus with two subgenera, *Hellenius* s. str. and *Eohellenius* Belokobylskij, 1998. Number of species: World and Palaearctic – 4, Russia – 2.

Hellenius (Eohellenius) borealis Belokobylskij, 1989. Russia: **FE** (SA, KA, CH).

Hellenius (Eohellenius) dadianshanicus Belokobylskij, 1998. Russia: **FE** (PR).

Tribe HELCONINI

HELCON Nees, 1812 (*Gymnoscelus* Foerster, 1863; *Coelostephanus* Kieffer, 1911). Type species: *Helcon tardator* Nees, 1812. Small genus of the large-sized parasitoids. Number of species: World – 22, Palaearctic – 9, Russia – 5.

Helcon angustator Nees, 1812 (*Ichneumon distensor* Thunberg, 1822; *I. redactor* Thunberg, 1824; *Helcon lignator* Lepeletier, 1825; *H. cylindricus* Wesmael, 1835). Endoparasitoid of beetles from the genera *Agrilus* (Buprestidae), *Callidium*, *Chrysobothris*, *Molorchus*, *Oberea*, *Phymatodes*, *Plagionotus*, *Pyrrhidium*, *Ropalopus*, *Saperda* and *Tetropium* (Cerambycidae). Russia: **EP** (N, NW, C, S, NC), **FE** (AM, PR, SA, MG). – Europe (WE, NE), Mongolia, Japan (Hok).

Helcon anuphrievi Tobias, 1967. Endoparasitoid of *Phymatodes maacki* Kr. and *Ph. mediofasciatus* Pic. (Cerambycidae). Russia: **FE** (PR).

Helcon nunciator (Fabricius, 1793) [*Ichneumon*] (*Helcon pedalis* Cresson, 1873; *H. femoralis* Thomson, 1892). Endoparasitoid of beetles from the genera *Asemum*, *Callidium*, *Neochlytus*, *Ropalopus* and *Xylotrechus* (Cerambycidae).

Russia: **FE** (KA: Roman, 1931). – Europe (WE, NE, SE, EE), N America.

Helcon sinuatus Tobias, 1967. Russia: **FE** (KH).

Helcon tardator Nees, 1812. Endoparasitoid of beetles from the genera *Anthaxia* (Buprestidae), *Callidium*, *Clytus*, *Leioderus*, *Leiopus*, *Monochamus*, *Oplosia*, *Phymatodes*, *Plagionotus*, *Pyrrhidium*, *Tetropium* and *Xylotrechus* (Cerambycidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Algeria, Azerbaijan, Korean Peninsula.

Helcon tricolor Watanabe, 1931. Russia: **FE** (KU). – Japan (Hok, Hon).

HELCONIDEA Viereck, 1914. Type species: *Helcon aequator* Nees, 1812 (= *Pimpla dentator* Fabricius, 1804). Medium-sized genus of rather large parasitoids of the family Cerambycidae. Part of species from this genus, *Helconidea planidorsum*, *H. nipponica*, *H. uchidai* and *H. sibirica*, were recently transferred to the genus *Wroughtonia* (Yan et al., 2017), but such action needs strong molecular argumentation. Number of species: World – 14, Palaearctic – 12, Russia – 9.

Helconidea dentator (Fabricius, 1804) [*Pimpla*] (*Helcon aequator* Nees, 1812; *Ichneumon tentator* Thunberg, 1822; *Helcon rugator* Ratzeburg, 1848; *H. armator* Marshall, 1898). Endoparasitoid of beetles from the genera *Acanthocinus*, *Asemum*, *Callidium*, *Cerambyx*, *Monochamus*, *Plagionotus* and *Tetropium* (Cerambycidae). Russia: **EP** (N, NW, C, E), **UR**, **WS** (NS, AL), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, China (NC), Japan (Hok).

Helconidea dentipes Tobias, 1967 (*Helconidea duplodentipes* Shenefelt, 1970, unnecessary new name: Yan et al., 2017). Endoparasitoid of *Tetropium castaneum* L. (Cerambycidae). Russia: **ES** (TU, YA), **FE** (AM, KH, PR, SA, MG). – Mongolia, China (NW, NE).

Helconidea extremiorientalis Belokobylskij et Tobias, 1989. Russia: **FE** (KH, PR).

Helconidea miroshnikovi (Tobias, 1986) [*Wroughtonia*]. Endoparasitoid of *Ropalopus clavipes* F. (Cerambycidae). Russia: **EP** (NC).

Helconidea nigra Tobias, 1967. Russia: **FE** (KH).

Helconidea nipponica (Watanabe, 1972) [*Wroughtonia*]. Russia: **FE** (KU). – Japan (Hon, Kyu).

Helconidea orientalis (Shestakov, 1940) [*Helcon*]. Endoparasitoid of *Monochamus* sp. (Cerambycidae). Russia: **WS** (KM), **FE** (KH, PR, KU). – Korean Peninsula.

Helconidea planidorsum (Watanabe, 1952) [*Helcon*]. Endoparasitoid of *Dere thoracica* White (Cerambycidae). Russia: **FE** (SA). – Japan (Hon).

Helconidea ruspator (Linnaeus, 1758) [*Ichneumon*] (*Helcon dentator* Nees, 1812). Endoparasitoid of beetles from the genera *Acanthocinus*, *Anastrangalia*, *Callidium*, *Leptura*, *Monochamus*, *Oedecnema*, *Strangalia* and *Xylotrechus* (Cerambycidae). Russia: **EP** (NW, C, NC), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, Korean Peninsula, Japan (Hok).

Helconidea sibirica Tobias, 1967. Russia: **ES** (IR), **FE** (PR). – China (NC), Korean Peninsula.

Helconidea uchidai (Watanabe, 1931) [Helcon]. Endoparasitoid of *Strangalia latipennis* Motsch. (Cerambycidae). Russia: **FE** (KU). – China (SE), Japan (Hok).

SPASSKIA Belokobylskij, 1989. Type species: *Spasskia sigalphoides* Belokobylskij, 1989. Small genus; recently (Yan et al., 2017) it was synonymized with *Wroughtonia*, but such synonymization must have more argumentation (including molecular ones). We keep validity of this genus in current catalogue. Number of species: World – 3, Palaearctic and Russia – 2.

Spasskia anastasiae Belokobylskij, 1998. Russia: **FE** (PR).

Spasskia sigalphoides Belokobylskij, 1989. Russia: **FE** (KH, PR). – Korean Peninsula.

WROUGHTONIA Cameron, 1899. Type species: *Helcon cornuta* Cameron, 1899. Medium-sized genus. Number of species: World – 19, Palaearctic – 2, Russia – 1.

Wroughtonia cornuta (Cameron, 1899) [Helcon]. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon).

Subfamily HISTEROMERINAE

S.A. BELOKOBYLSKIJ

A small subfamily containing only single genus with a few species known from the Holarctic, Oriental and Australasian regions. For a long time, the type genus of the subfamily, *Histeromerus* Wesm., had been considered as a member of the subfamily Doryctinae, either in the tribes Doryctini or Histeromerini (Shenefelt, Marsh, 1976; Yu et al., 2016). However, later some authors either placed it in the subfamily Braconinae (van Achterberg, 1976a; Quicke, 1987) or treated it as a member of the separate subfamily Histeromerinae (van Achterberg, 1984; Quicke, van Achterberg, 1990; Belokobylskij et al., 1998). According to current molecular phylogenetic studies (Zaldívar-Riverón et al., 2006; Sharanowski et al., 2011; Quicke, 2015), this genus was placed in the subfamily Rhyssalinae; however, this position needs further justification. Gregarious ectoparasitoids of concealed coleopteran larvae mainly from the families Buprestidae, Cerambycidae, Lucanidae and possibly Elateridae (Shaw, 1995; Yu et al., 2016).

Number of taxa: World – 1 genus and 4 species, Palaearctic – 1/2, Russia – 1/1.

References. Shenefelt, Marsh, 1976; van Achterberg, 1976a, 1984, 1992b; Quicke, 1987, 2015; Quicke, van Achterberg, 1990; Shaw, 1995; Belokobylskij et al., 1998, 2013a, 2019d; Zaldívar-Riverón et al., 2006; Sharanowski et al., 2011; Yu et al., 2016.

HISTEROMERUS Wesm., 1838 (*Mithotynia* Hedqvist, 1976). Type species: *Histeromerus mystacinus*

Wesm., 1838. Small genus recorded in the Holarctic, Oriental and Australasian regions. Number of species: World – 4, Palaearctic – 2, Russia – 1.

Histeromerus mystacinus Wesm., 1838 (*Mithotynia aptera* Hedqvist, 1976). Ectoparasitoid of coleopteran larvae from the families Buprestidae, Cerambycidae and Lucanidae. Russia: **EP** (C, NC), **UR**. – Europe (WE, NE, SE, EE), Georgia, Iran.

Subfamily HOMOLOBINAE

S.A. BELOKOBYLSKIJ

Homolobinae are the solitary endoparasitoids of the Macrolepidoptera caterpillars. The subfamily includes three genera, the monotypic Australasian *Westwoodiella* Szépliget, 1904, *Exasticolus* van Achterberg, 1979 (with three species from the New World) and *Homolobus* Foerster, 1862 (numerous species with worldwide distribution).

Number of taxa: World – 3 genera and 67 species, Palaearctic – 1/21, Russia – 1/10.

References. Van Achterberg, 1979b; Maetô, 1982a, 1982b; Belokobylskij et al., 1998, 2012b; Yu et al., 2016.

HOMOLOBUS Foerster, 1862. Type species: *Phylax discolor* Wesm., 1835. Largest genus of subfamily, includes five subgenera. Number of species: World – 67, Palaearctic – 21, Russia – 10.

Homolobus (Apatia) truncator (Say, 1829) [Bracon] (*Phylax calcarator* Wesm., 1835; *Ph. melleus* Cresson, 1872; *Zelex crassicalcaratus* Viereck, 1905; *Phylax fuscitarsis* Bengtsson, 1918; *Apatia simillima* Enderlein, 1920; *Zelex unicolor* Enderlein, 1920; *Homolobus chlorophthalmus* auct.). Endoparasitoid of numerous species from the families Geometridae and Noctuidae. Russia: **EP** (C, S, CR), **UR**, **WS** (AL), **ES** (YA, ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Tunisia, Egypt, Georgia, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China, Korean Peninsula, Japan (Hok, Hon, Kyu), N America, India, Philippines, South Africa, Latin America.

Homolobus (Chartolobus) infumator (Lyle, 1914) [Zelex] (*Phylacter wesmaeli* Bengtsson, 1918; *Zelex japonicus* Watanabe, 1932). Endoparasitoid of numerous species from the families Geometridae, Lasiocampidae and Oecophoridae. Russia: **EP** (C), **UR**, **ES** (KR, ZB), **FE** (AM, KH, PR, KU). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Kazakhstan, China, Korean Peninsula, Japan, N America, India, Nepal, SE Asia, Latin America.

Homolobus (Homolobus) dauricus Shestakov, 1940. Endoparasitoid of *Conobathra frauella* Roesl. (Pyralidae). Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Kyu).

Homolobus (Homolobus) discolor (Wesm., 1835) [Phylax] (*Rogas pectoralis* Herrich-Schäffer, 1838). Endoparasitoid

- of numerous species from the families Geometridae and Noctuidae. Russia: **EP** (N), **ES** (IR, ZB), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Korean Peninsula, Japan.
- Homolobus (Homolobus) rufoventralis** Maeto, 1982. Russia: **FE** (PR). – China (CC, SE), Japan (Hok, Hon, Kyu).
- Homolobus (Oulophus) annulatus** van Achterberg, 1979. Russia: **FE** (PR). – China (SE), Korean Peninsula, Japan (Hok), India.
- Homolobus (Oulophus) bohemani** (Bengtsson, 1918) [Phylacter]. Russia: **EP** (NW), **ES** (IR, ZB), **FE** (PR, SA, KU, KA). – Europe (WE, NE, EE), China (NE), Japan (Hon), India, Nepal.
- Homolobus (Oulophus) carbonator** (Shestakov, 1940) [Ze]. Russia: **FE** (PR). – China (NE, SE), Korean Peninsula, Myanmar.
- Homolobus (Oulophus) flagitator** (Curtis, 1837) [Ze]. (*Ze le g e m i n a t o r* Lyle, 1914). Endoparasitoid of caterpillar from the genera *Alcis*, *Campaea*, *Caripeta*, *Cladara*, *Dysstroma*, *Entephria*, *Eupithecia*, *Hydriomena*, *Nepytia* and *Scopula* (Geometridae). Russia: **FE** (PR, KU, KA, MG). – Europe (WE, NE, EE), China (NC, SE), Japan, N America.
- Homolobus (Phylacter) annulicornis** (Nees, 1834) [Rogas] (*Rogas simplex* Herrich-Schäffer, 1838; *H. testaceator* auct.). Endoparasitoid of numerous species from the family Noctuidae. Russia: **EP** (NW, C, NC), **WS** (TK), **ES** (KR, IR, BR, ZB), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, China (NE, NC, CC), Korean Peninsula, Japan (Hok, Hon, Kyu).

Subfamily ICHNEUTINAE

S.A. BELOKOBYSKIJ

A relatively small and peculiar braconid subfamily, koinobiont egg-larval endoparasitoids of different groups of sawflies (Hymenoptera: Argidae, Diprionidae and Tenthredinidae). Its generic composition is not stable; for instance Sharkey and Wharton (1994) and Yu et al. (2016) also included in this subfamily two genera of Lepidoptera parasitoids, *Oligoneurus* Szépligeti and *Paroligoneurus* Muesebeck, which here are treated as the members of the subfamily Miracinae.

Number of taxa: World – 9 genera and about 60 species, Palaearctic – 3/20, Russia – 3/13.

R e f e r e n c e s. Tobias et al., 1986a; Sharkey, Wharton, 1994; Belokobylskij, 1996e, 2019d; He et al., 1997b; Belokobylskij et al., 1998; Yu et al., 2016.

ICHNEUTES Nees, 1816. Type species: *Ichneutes reunitor* Nees, 1816. Largest ichneutine genus recorded only in the North Hemisphere (Holarctic). Number of species: World – 24, Palaearctic – 16, Russia – 10.

Ichneutes aborigen Belokobylskij, 1990. Russia: **FE** (KA, MG).

Ichneutes brevis Wesmael, 1835. Endoparasitoid of sawfly larvae from the genera *Euura*, *Fenusa*, *Nematus*, *Phyllocolpa* and *Pontania* (Tenthredinidae). Russia: **EP** (N, C, NC), **ES** (IR, YA, ZB), **FE** (PR, SA, KA, MG, CH). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, Korean Peninsula.

Ichneutes cultratus Belokobylskij, 1998. Endoparasitoid of *Pikonema* sp. (Tenthredinidae). Russia: **FE** (KU).

Ichneutes dezhevi Belokobylskij, 1998. Russia: **FE** (CH).

Ichneutes facialis Thomson, 1895. Russia: **EP** (C), **ES** (ZB). – Europe (NE), Korean Peninsula.

Ichneutes flaviventris Hellén, 1958. Russia: **EP** (C). – Europe (NE, EE).

Ichneutes kamtshadal Belokobylskij, 1998. Russia: **FE** (KA).

Ichneutes lapponicus Thomson, 1895. Endoparasitoid of sawfly larvae from the genera *Euura* and *Pontania* (Tenthredinidae). Russia: **ES** (YA). – Europe (WE, NE).

Ichneutes liosternus Roman, 1924. Russia: **EP** (N), **ES** (YA), **FE** (MG).

Ichneutes orientalis He et Chen, 1997. Russia: **ES** (BR, ZB), **FE** (AM, KH, PR, SA, KU, MG). – China (CC, SW), Korean Peninsula.

Ichneutes reunitor Nees, 1816 (*Microgaster costatus* Zetterstedt, 1838; *Ichneutes laeviventris* Hellén, 1958; *I. leptostigma* Hellén, 1958). Endoparasitoid of sawfly larvae from the genera *Croesus*, *Hemichroa*, *Nematus*, *Phyllocolpa*, *Pontania*, *Priophorus*, *Pristiphora* and *Trichiocampus* (Tenthredinidae), *Neodiprion* (Diprionidae). Russia: **EP** (N, NW, C, NC), **UR**, **ES** (IR, YA, ZB), **FE** (PR, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, Japan, USA.

PSEUDICHEUTES Belokobylskij, 1996. Type species: *Ichneutes levis* Wesmael, 1835. Small genus from the Palaearctic and Oriental regions. Number of species: World and Palaearctic – 3, Russia – 1.

Pseudichneutes levis (Wesmael, 1835) [Ichneutes]. Endoparasitoid of sawfly larvae from the genera *Fenusa*, *Metalus*, *Pontania* and *Scolioneura* (Tenthredinidae). Russia: **EP** (NC, CR), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.

PROTEROPS Wesmael, 1835 (*Ichneutidea* Ashmead, 1900; *Proteropoides* Viereck, 1909). Type species: *Proterops nigripennis* Wesmael, 1835. Small genus distributed in the Holarctic, Oriental and Neotropical regions. Endoparasitoids of sawflies mainly from the family Argidae. Number of species: World – 8, Palaearctic and Russia – 2.

Proterops decoloratus Shestakov, 1940 (*Proterops nigripennis decoloratus* Shestakov, 1940). Russia: **ES** (BR), **FE** (PR). – China (NC, CC, SW, SE), Korean Peninsula.

Proterops nigripennis Wesmael, 1835. Endoparasitoid of *Arge berberidis* Schrank, *A. enodis* L., *A. rustica* L.,

A. simillima Smith (Argidae) and *Athalia rosae* L. (Tenthredinidae). Russia: **EP** (N, NW, C), **UR**, **ES** (YA), **FE** (AM, KH, PR, MG). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, China (NE, WP), Korean Peninsula, Japan.

Subfamily MACROCENTRINAE

S.A. BELOKOBYSKIJ

Large or medium-sized koinobiont endoparasitoids of moth caterpillars, solitary or gregarious; gregarious parasitism is represented by polyembryony. Some of gregarious macrocentrines develop in the caterpillars of Noctuidae feeding on roots or inside stems, but most are the parasitoids of the larvae from the families Pyralidae and Tortricidae living in the young stems or convoluted leaves. The members of solitary macrocentrine species parasitise concealed moth larvae mainly from the families Sesiidae, Oecophoridae, Gelechiidae and Tortricidae.

Number of taxa: World – 8 genera and 237 species, Palaearctic – 5/71, Russia – 3/34.

R e f e r e n c e s. Tobias et al., 1986a; van Achterberg, Belokobylskij, 1987, 2019d; van Achterberg, 1993b; Belokobylskij, Tobias, 2000.

AUSTROZELE Roman, 1910 (*Paniscozele* Enderlein, 1920; *Palinzele* Brues, 1922; *Laevis* Sharma, 1982). Type species: *Perilitus longipes* Holmgren, 1868. Small genus distributed in the many zoogeographic regions (except Australasian). Number of species: World – 20, Palaearctic – 6, Russia – 1.

Austrozele nipponensis van Achterberg, 1993. Russia: **FE** (KH, PR). – China (SE), Japan (Hon, Kyu).

AULACOCENTRUM Brues, 1922. Type species: *Aulacocentrum pedicellatum* Brues, 1922. Small Oriental-Eastern Palaearctic genus with a single species recorded from Fiji. Number of species: World – 6, Palaearctic – 4, Russia – 2.

Aulacocentrum confusum He et van Achterberg, 1994. Endoparasitoid of caterpillars from the families Crambidae, Notodontidae and Pyralidae. Russia: **FE** (PR). – China (NE, CC, SW, SE).

Aulacocentrum philippinense (Ashmead, 1904) [Macrocentrus] (*Macrocentrus japonicus* Watanabe, 1932). Endoparasitoid of caterpillars from the families Crambidae and Pyralidae. Russia: **FE** (PR). – China, Korean Peninsula, Japan (Hon), India, Bangladesh, Vietnam, Philippines, Malaysia, Indonesia.

MACROCENTRUS Curtis, 1833 (*Amicroplus* Foerster, 1862). Type species: *Macrocentrus bicolor* Curtis, 1833. The largest genus of the subfamily recorded in almost all regions of the World. Number of species: World – 191, Palaearctic – 59, Russia – 31.

Macrocentrus alox van Achterberg et Belokobylskij, 1987. Russia: **FE** (PR).

Macrocentrus asiaticus Belokobylskij, 2000. Russia: **FE** (PR). – China (NC, SW, WP), Japan (Hon).

Macrocentrus bengtssoni (Fahringer, 1929) [Phylacter]. Russia: **FE** (KA).

Macrocentrus bicolor Curtis, 1833 (*Rogas limbator* Ratzeburg, 1848; *Macrocentrus gracilipes* Telenga, 1935). Endoparasitoid of caterpillars from the families Chimabachidae, Depressariidae, Gelechiidae, Gracillariidae, Lyonetiidae, Oecophoridae, Phycitidae, Tineidae and Tortricidae. Russia: **EP** (NW, C, NC, CR), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Iran, China (NE, CC), Korean Peninsula, Japan (Hok, Hon, Kyu).

Macrocentrus blandoides van Achterberg, 1993. Russia: **FE** (PR, SA, KU). – China (NE), Korean Peninsula.

Macrocentrus blandus Eady et Clark, 1964. Endoparasitoid of caterpillars from the families Noctuidae and Tortricidae, including pest *Agrotis segetum* Den. et Schiff. (Noctuidae). Russia: **EP** (NW, C), ? **FE** (SA: Watanabe, 1967). – Europe (WE, NE, SE, EE), Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula, Japan (Hok).

Remarks. Perhaps the record of *M. blandus* from Sakhalin by Watanabe (1967) actually refers to *M. blantoides* originally described from the Eastern Palaearctic.

Macrocentrus buolianae Eady et Clark, 1964. Endoparasitoid of *Exoteleia dodecella* L., *Gelechia senticetella* Staud. (Gelechiidae), *Archips oporana* L. and *Rhyacionia buoliana* Den. et Schiff. (Tortricidae). Russia: **EP** (C, NC). – Europe (WE, EE), Turkey, Korean Peninsula, Japan.

Macrocentrus chasanicus Belokobylskij, 2000. Russia: **FE** (PR). – Japan (Hok).

Macrocentrus cingulum Brischke, 1882 (*Macrocentrus grandii* Goidanich, 1937; *M. gifuensis* auct.). Endoparasitoid of caterpillars from the families Crambidae, Lymantriidae, Noctuidae, Notodontidae, Nymphalidae and Pyraustidae. Russia: **EP** (C, E, S, NC), **FE** (AM, PR, KU). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, China, Korean Peninsula, Japan (Hok, Hon), N America, India (introduced), South Africa (introduced).

Macrocentrus collaris (Spinola, 1808) [Bracon] (*Bracon ebeninus* Nees, 1834; *Eubadizon dubius* Wesmael, 1835; *Helcon picipes* Haliday, 1835; *Bracon dispar* Kollar, 1852; *B. kollari* Rondani, 1876; *Macrocentrus affinis* Hedwig, 1961; *M. affiniqades* Shenefelt, 1969). Endoparasitoid of caterpillars from the families Erebiidae, Geometridae, Noctuidae, Nymphalidae, Tortricidae and Yponomeutidae, including pests *Lymantria monacha* L. (Erebiidae), *Agrotis segetum* Den. et Schiff. and *Helicoverpa armigera* Hbn. (Noctuidae). Russia: **EP** (NW, C, E, NC, CR), **WS** (OM), **ES** (IR, BR, YA, ZB). – Europe (WE, NE, SE, EE), Morocco, Tunisia, Libya, Georgia, Armenia, Azerbaijan, Turkey, Israel, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China

- (NW), Korean Peninsula, India, Ethiopia, Argentina, New Zealand (introduced).
- Macrocentrus equalis** Lyle, 1914. Endoparasitoid of caterpillars from the families Noctuidae and Tortricidae, including pest *Agrotis segetum* Den. et Schiff. (Noctuidae). Russia: **EP** (NC), **ES** (ZB), **FE** (AM, PR). – Europe (WE, NE, EE), Mongolia, Korean Peninsula, Japan.
- Macrocentrus flavus** Vollenhoven, 1878 (*Macrocentrus turanicus* Telenga, 1950). Endoparasitoid of caterpillars from the families Gelechiidae, Pyralidae and Tortricidae. Russia: **EP** (C, E, CR). – Europe (WE, EE), Armenia, Azerbaijan, Turkmenistan, Tajikistan, Kazakhstan, Mongolia.
- Macrocentrus gibber** Eady et Clark, 1964. Endoparasitoid of *Retinia cristata* Wlsm. and *Rhyacionia duplana* Hbn. (Tortricidae). Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE), Korean Peninsula, Japan.
- Macrocentrus hungaricus** Marshall, 1893 (*Macrocentrus tsumekii* Watanabe, 1940; *M. macrocephalus* Telenga, 1950; *M. mongolicus* Papp, 1967; *M. bicoloripes* van Achterberg, 1982). Endoparasitoid of *Scardia boletella* F. (Tineidae). Russia: **EP** (E, CR), **WS** (AL), **ES** (KS, IR, BR, ZB). – Europe (WE, EE), Kazakhstan, Mongolia, China (NC).
- Macrocentrus infirmus** (Nees, 1834) [Rogas]. Endoparasitoid of caterpillars from the families Noctuidae and Tortricidae. Russia: **EP** (NW, C, E), **WS** (TM, AL), **ES** (BR, YA), **FE** (KH, KU, KA, MG). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, China (NC), Korean Peninsula.
- Macrocentrus infuscatus** van Achterberg, 1993. Russia: **FE** (KU). – Japan (Hok, Hon).
- Macrocentrus karafutus** Belokobylskij, 2000. Russia: **FE** (SA).
- Macrocentrus kurnakovi** Tobias, 1976. Endoparasitoid of *Archinemapogon yildizae* Koçak, *Morophaga choragella* Den. et Schiff. and *Morophagoides ussuriensis* Car. (Tineidae). Russia: **FE** (KH, KA). – Europe (WE, SE, EE), Abkhazia, Azerbaijan, Korean Peninsula, Japan (Hon).
- Macrocentrus linearis** (Nees, 1811) [Bracon] (*Ichneumon abdominalis* Fabricius, 1793; *I. abominator* Thunberg, 1822; *I. fissura* Thunberg, 1822; *Bracon pallidator* Zetterstedt, 1838; *Rogas tenuis* Ratzeburg, 1848; *Macrocentrus iridescens* French, 1880; *M. gifuensis* Ashmead, 1906; *M. amicroplodes* Viereck, 1912). Endoparasitoid of caterpillars of numerous species from the families Coleophoridae, Depressariidae, Drepanidae, Gelechiidae, Geometridae, Lasiocampidae, Lymantriidae, Noctuidae, Pyralidae, Tortricidae and Yponomeutidae, including pests *Tortrix viridana* L. (Tortricidae), *Loxostege sticticalis* L. and *Ostrinia nubilalis* Hbn. (Pyralidae). Russia: **EP** (N, NW, C, E, S, CR), **UR**, **ES** (BR, YA), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Tajikistan, Kazakhstan, China, Korean Peninsula, Japan (Hok, Hon), N America, Bangladesh, Ethiopia.
- Macrocentrus mandibularis** Watanabe, 1967. Endoparasitoid of *Archips fuscocupreana* Wlsm. (Tortricidae). Russia: **FE** (PR). – Japan (Hok, Hon).
- Macrocentrus marginator** (Nees, 1811) [Bracon] (*Rogas rugator* Ratzeburg, 1848). Endoparasitoid of caterpillars from numerous species of the families Depressariidae, Geometridae, Lycaenidae, Notodontidae, Sesiidae, Tortricidae and Ypsilophidae, including pests *Cydia pomonella* L. (Tortricidae) and *Sesia apiformis* Clerck (Sesiidae). Russia: **EP** (NW, C, E, NC, CR), **UR**, **WS** (TM), **ES** (KS, KR, IR, BR, YA), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Kazakhstan, Mongolia, China (NE, CC, SE), Korean Peninsula, Japan (Hok, Hon), N America.
- Macrocentrus mellicornis** van Achterberg et Belokobylskij, 1987. Russia: **FE** (PR).
- Macrocentrus nidulator** (Nees, 1834) [Rogas] (*Rogas longicaudis* Herrich-Schäffer, 1838; *Macrocentrus procerus* Costa, 1885; *M. curticaudis* Telenga, 1950). Endoparasitoid of caterpillars from the families Gelechiidae, Oecophoridae, Tortricidae and Yponomeutidae. Russia: **EP** (C, NC), **UR**, **WS** (TK, AL), **ES** (IR), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Kazakhstan, Mongolia, Japan (Hon).
- Macrocentrus nitidus** (Wesmael, 1835) [Rogas]. Endoparasitoid of caterpillars from the families Epermeniidae and Tortricidae. Russia: **EP** (N, NW, C, NC, CR), **WS** (TM, AL), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Mongolia, Japan (Hok, Hon).
- Macrocentrus oriens** van Achterberg et Belokobylskij, 1987. Russia: **FE** (MG).
- Macrocentrus pallipes** (Nees, 1811) [Bracon]. Endoparasitoid of caterpillars from the families Crambidae, Depressariidae, Gelechiidae, Nymphalidae and Tortricidae. Russia: **EP** (NW, E, NC), **WS** (TM), **FE** (KH, KA, MG). – Europe (WE, NE, SE, EE), China (NC), Korean Peninsula, Japan (Hok).
- Macrocentrus resinellae** (Linnaeus, 1758) [Ichneumon] (*Ichneumon resinator* Thunberg, 1822; *Rogas flavipes* Ratzeburg, 1844; *R. interstitialis* Ratzeburg, 1844; *R. obscurator* Ratzeburg, 1848; *Helcon intricator* Ratzeburg, 1852; *Macrocentrus punctifrons* Thomson, 1895; *M. sublaevis* Thomson, 1895). Endoparasitoid of caterpillars of numerous species from the families Gelechiidae, Lasiocampidae, Phycitidae and Tortricidae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TM), **ES** (KS, IR, BR, YA), **FE** (AM, KH). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Kazakhstan, China, Japan (Hok, Hon).
- Macrocentrus retusus** van Achterberg et Belokobylskij, 1987. Russia: **FE** (PR).
- Macrocentrus rhyacioniae** Watanabe, 1970. Endoparasitoid of *Rhyacionia duplana* Hbn., *Petrova cristata* Wlsm. and *Epinotia pinicola* V. Kuzn. (Tortricidae). Russia: **FE** (SA). – Korean Peninsula, Japan (Hon).
- Macrocentrus spilotus** van Achterberg et Belokobylskij, 1987 (*Macrocentrus cordanus* Papp, 1989). Russia: **FE** (PR). – Korean Peninsula.

Macrocentrus tatshinguanus Belokobylskij, 2000. Russia: **FE** (PR).

Macrocentrus thoracicus (Nees, 1811) [Bracon] (*Rogas longicornis* Wesm., 1835). Endoparasitoid of caterpillars of numerous species from the families Depressariidae, Gelechiidae, Oecophoridae, Pyralidae, Tortricidae and Yponomeutidae, including pests *Cydia pomonella* L., *Grapholita molesta* Busck., *Rhyacionia buoliana* Den. et Schiff. and *Tortrix viridana* L. (Tortricidae). Russia: **EP** (C, NC, CR), **UR**, **WS** (OM), **ES** (IR, YA, ZB), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Kazakhstan, China (NC, NE, CC), Korean Peninsula, Japan, USA.

Macrocentrus townesi van Achterberg et Haeselbarth, 1983. Russia: **EP** (C, NC), **FE** (PR, KU). – Europe (WE, SE, EE).

Subfamily METEORIDEINAE

S.A. BELOKOBYSKIJ

Endoparasitoids of the Lepidoptera caterpillars; the parasitoid forms the cocoon inside the host pupa. Two genera, *Meteoridea* Ashmead, 1900 and *Pronkia* van Achterberg, 1990, are known in this small subfamily.

Number of taxa: World – 2 genera and 17 species, Palearctic – 1/5, Russia – 1/1.

References. Shenefelt, Muesebeck, 1957; Belokobylskij, 1993a; Belokobylskij et al., 1998.

METEORIDEA Ashmead, 1900 (*Benama* Nixon, 1941). Type species: *Meteoridea longiventris* Ashmead, 1900. Small genus members of which were recorded in most zoogeographical regions. Parasitoids of the lepidopterans from the families Crambidae, Gelechiidae, Tortricidae, etc., also were recorded as hyperparasitoids of some Ichneumonidae and Braconidae. Number of species: World – 16, Palearctic – 5, Russia – 1.

Meteoridea kangauzi Belokobylskij, 1993. Russia: **FE** (PR).

Subfamily MICROGASTRINAE

A.G. KOTENKO

Microgastrinae is one of the largest and most famous subfamilies of the braconid wasps including about 10000 species (Mason, 1981; Whitfield, 1997; van Achterberg, 2002b). Among the braconid parasitoids of Lepidoptera in the Palearctic region, Microgastrinae have the widest host range (Kotenko, 2002). The classification and generic concept of Microgastrinae proposed by W.R.M. Mason (1981) are used here, which divided the subfamily on five tribes: Microgastrini, Apantelini, Forniciini, Cotesiini and Microplitini.

Number of taxa: World – 81 genera and about 3400 species, Palearctic – 20/about 900, Russia – 20/367.

References. Ivanov, 1898; Fahringer, 1934; Wilkinson, 1945; Telenga, 1955; Nixon, 1961, 1965, 1968, 1970, 1972, 1973, 1974, 1976; Tobias, 1964, 1971, 1977b; Papp, 1972, 1973, 1976a, 1976b, 1978, 1979, 1980, 1981a, 1982, 1983, 1984a, 1984b, 1986, 1987, 1988, 1990, 1993, 2012, 2014; Abdinbekova, 1975; Zaynchkauskas et al., 1979; Kotenko, 1981, 1987, 1992a, 1992b, 1994, 1999, 2002, 2007a, 2007b, 2012, 2013; Mason, 1981; Tobias, Kotenko, 1984; Tobias et al., 1986a, 1998; Lăcătușu, Filipescu, 1989; Walker et al., 1990; Shaw, Huddleston, 1991; Shaw, 1992, 2012; Maetô, 1996; Zerova et al., 1996; Whitfield, 1997, 2006; van Achterberg, 2002b; Xu, Han, 2007; Belokobylskij et al., 2012b; Fernández-Triana, Boudreault, 2018; Whitfield et al., 2018.

Tribe APANTELINI

APANTELES Foerster, 1863. Type species: *Microgaster obscurus* Nees, 1834. Large cosmopolitan genus; parasitise lepidopteran caterpillars of 17 families: Bucculatricidae, Choreutidae, Coleophoridae, Cosmopterygidae, Crambidae, Depressariidae, Epermeniidae, Gelechiidae, Geometridae, Gracillariidae, Lyonetiidae, Momphidae, Oecophoridae, Pyralidae, Tineidae, Tortricidae (most often) and Yponomeutidae. Number of species: World – about 1200, Palearctic – about 300, Russia – 23.

Apanteles aragatzi Tobias, 1976. Russia: **EP** (NC). – Europe (NE), Armenia, Turkey.

Apanteles atreus Nixon, 1973. Endoparasitoid of *Mompha propinquella* Stt., *M. sturnipennella* Tr. and *Psacaphora locupletella* Den. et Schiff. (Mompidae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Turkey, Iran.

Apanteles audens Kotenko, 1986. Russia: **EP** (NC). – Georgia.

Apanteles brunnistigma Abdinbekova, 1969 (*Apanteles sotades* Nixon, 1976). Endoparasitoid of caterpillars from the families Crambidae, Depressariidae, Epermeniidae, Oecophoridae and Tortricidae. Russia: **EP** (NW, C), **UR**, **WS** (TK), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Canary Is, Azerbaijan, Turkey, Iran, Korean Peninsula, Canada.

Apanteles carpatus (Say, 1836) [*Microgaster*] (*Protapanteles hawaiiensis* Ashmead, 1901; *Urogaster fuscicornis* Cameron, 1910; *Apanteles piceoventris* Muesebeck, 1921; *A. igae* Watanabe, 1932; *A. sarcitorius* Telenga, 1955; *A. ulcericus* Telenga, 1955). Endoparasitoid of caterpillars from the families Tineidae and Tortricidae. Russia: **EP** (S), **UR**, **WS** (TK), **ES** (ZB), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), Armenia, Turkey, Israel, Iran, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia, China (CC, SW), Japan, N America, Vietnam, Malaysia, Afrotropics, S America, Fiji, Australia, New Zealand.

Apanteles contactus Papp, 1977. Russia: **ES** (ZB). – Mongolia.

- Apanteles corvinus** Reinhard, 1880 (*Apanteles lucidus* Szépligeti, 1896; *A. rasteratus* Fahringer, 1936; *A. aptus* Papp, 1977). Endoparasitoid of caterpillars from the families Bucculatricidae, Coleophoridae, Lyonetiidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, S, NC, CR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Japan, Canada.
- Apanteles evanidus** Papp, 1975 (*Apanteles calpurnia* Nixon, 1976). Endoparasitoid of *Scythropia crataegella* L. (Yponomeutidae). Russia: **EP** (S). – Europe (NE, SE, EE).
- Apanteles firmus** Telenga, 1949. Endoparasitoid of *Acleris quercinana* Z. (Tortricidae). Russia: **EP** (C, S), **ES** (ZB), **FE** (PR). – Europe (WE, SE, EE), Armenia, Azerbaijan, Tajikistan, Kazakhstan, Mongolia, Korean Peninsula.
- Apanteles galleriae** Wilkinson, 1932. Endoparasitoid of *Achroia grisella* F. and *Galleria mellonella* L. (Pyralidae). Russia: **EP** (C, S, NC), **UR**, **WS** (AL), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran, Pakistan, China (CC, SW, SE), Japan, N America, India, Afrotropics, S America, New Zealand.
- Apanteles hemara** Nixon, 1965 (*Apanteles caboverdensis* Hedqvist, 1965; *A. proalastor* Hedqvist, 1965; *A. bulgaricus* Balevski et Tobias, 1980). Endoparasitoid of caterpillars from the families Choreutidae, Crambidae and Pyralidae. Russia: **FE** (PR). – Europe (WE, SE, EE), Canary Is, Turkey, Israel, Iran, Pakistan, China, India, SE Asia, Afrotropics, Australia.
- Apanteles horaeus** Kotenko, 1986. Russia: **EP** (S). – Europe (EE).
- Apanteles kubensis** Abdinbekova, 1969. Endoparasitoid of *Adoxophyes orana* F.R. (Tortricidae). Russia: **EP** (S, NC). – Europe (SE, EE), Azerbaijan, Turkey, Mongolia, Korean Peninsula.
- Apanteles lectus** Tobias, 1964. Russia: **EP** (C, S). – Europe (NE, SE), Kazakhstan, Mongolia.
- Apanteles lena** Nixon, 1976. Endoparasitoid of caterpillars from the families Cosmopterigidae, Pyralidae and Tortricidae. Russia: **EP** (C), **ES** (ZB), **FE** (PR, SA). – Europe (WE, SE, EE), Turkey, Korean Peninsula.
- Apanteles metacarpalis** (Thomson, 1895) [Microgaster]. Endoparasitoid of caterpillars from the families Coleophoridae, Gelechiidae and Gracillariidae. Russia: **EP** (C, S, NC, CR), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China, Korean Peninsula.
- Apanteles nephus** Papp, 1974. Russia: **EP** (C, CR), **FE** (PR). – Europe (EE), China.
- Apanteles obscurus** (Nees, 1834) [Microgaster] (*Microgaster arenarius* Haliday, 1834). Endoparasitoid of caterpillars from the families Crambidae, Epermeniidae, Geometridae and Tortricidae. Russia: **EP** (without regions), **UR**, **WS** (without regions), **ES** (KR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Central Asia, Kazakhstan, Mongolia.
- Apanteles peisonis** Fischer, 1965 (*Apanteles subfirmus* Abdinbekova, 1969). Endoparasitoid of *Carpochena salicorniae* Hein. et Wocke (Coleophoridae). Russia: **EP** (NC). – Europe (WE, EE), Azerbaijan.
- Apanteles prinoptus** Papp, 1984 (*Apanteles metaclypealis* Tobias et Kotenko, 1986). Russia: **EP** (S). – Europe (WE, EE).
- Apanteles scaber** Tobias, 1977. Russia: **FE** (PR).
- Apanteles sodalis** (Haliday, 1834) [Microgaster] (*Microgaster carbonarius* Ratzeburg, 1848; *M. ater* Ratzeburg, 1852; *M. lugens* Ratzeburg, 1852; *Apanteles lindbergi* Hedqvist, 1965). Endoparasitoid of caterpillars from the families Depressariidae, Geometridae and Tortricidae, including pests *Depressaria depressana* F. (Depressariidae), *Adoxophyes orana* F. R., *Archips rosana* L., *Grapholita funebrana* Tr., *Laspeyresia pomonella* L. and *Spilonota ocellana* F. (Tortricidae). Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **WS** (AL), **ES** (without regions), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Central Asia, Kazakhstan, China, Korean Peninsula, Japan, Canada (introduced).
- Apanteles xanthostigma** (Haliday, 1834) [Microgaster] (*Microgaster ochrostigma* Wesmael, 1837; *Apanteles xanthocarpus* Szépligeti, 1901). Endoparasitoid of caterpillars from the families Choreutidae, Gelechiidae, Geometridae, Gracillariidae, Pyralidae, Tortricidae and Yponomeutidae. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (without regions), **ES** (ZB), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), N Africa, Canary Is, Georgia, Armenia, Azerbaijan, Turkey, Jordan, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, Canada (introduced).
- DOLICHOGENIDEA** Viereck, 1911. Type species: *Dolichogenidea banksi* Viereck, 1911. Widely distributed cosmopolitan genus. Number of species: World – about 1000, Palaearctic – about 150, Russia – 69.
- Dolichogenidea agilla** (Nixon, 1972) [Apanteles] (*Apanteles piraticus* Papp, 1977). Endoparasitoid of *Dichrorampha plumbagana* Tr. (Tortricidae). Russia: **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Mongolia.
- Dolichogenidea albipennis** (Nees, 1834) [Microgaster]. Endoparasitoid of caterpillars from the families Gelechiidae, Sesiidae and Tortricidae, including pests *Synanthedon tipuliformis* Clerk (Sesiidae), *Archips rosanus* L. and *Tortrix viridana* L. (Tortricidae). Russia: **EP** (NW, C, E, S, NC, CR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Afghanistan, Turkmenistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Dolichogenidea anarsiae** (Faure et Alabouvette, 1924) [Apanteles]. Endoparasitoid of caterpillars from the families Gelechiidae and Tortricidae. Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkey, Kazakhstan, China, USA (introduced).

- Dolichogenidea annularis** (Haliday, 1834) [Microgaster]. Endoparasitoid of caterpillars from the families Gracillariidae and Tortricidae. Russia: **EP** (NW, C, S, NC), **ES** (ZB), **FE** (AM). – Europe (WE, NE, SE, EE), Georgia.
- Dolichogenidea appellator** (Telenga, 1949) [Apanteles] (*Apanteles salverdensis* Hedqvist, 1965; *A. litae* Nixon, 1972). Endoparasitoid of caterpillars from the families Crambidae, Gelechiidae, Plutellidae and Pyralidae, including pests *Phthorimaea operculella* Z. (Gelechiidae), *Plutella xylostella* L. (Plutellidae) and *Etiella zinckenella* Tr. (Pyralidae). Russia: **EP** (C, S, NC, CR), **FE** (PR). – Europe (WE, SE, EE), Egypt, Armenia, Azerbaijan, Turkey, Jordan, Israel, Saudi Arabia, Oman, Yemen, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE).
- Dolichogenidea artissima** (Papp, 1971) [Apanteles] (*Apanteles abilla* Nixon, 1972). Endoparasitoid of *Ascleriducta lithargyrinella* Z., *Casignetella paripennella* Z., *C. trochilella* Dup. and *Nemesia chalcogrammella* Z. (Coleophoridae). Russia: **FE** (PR). – Europe (WE, NE, EE), Mongolia.
- Dolichogenidea azovica** (Kotenko, 1986) [Apanteles]. Russia: **EP** (S, CR). – Europe (EE).
- Dolichogenidea benkevitchi** (Kotenko, 1986) [Apanteles]. Russia: **EP** (NC, CR). – Europe (EE).
- Dolichogenidea bersa** (Papp, 1976) [Apanteles]. Russia: **ES** (ZB). – Mongolia.
- Dolichogenidea borysthenica** Kotenko, 1986) [Apanteles]. Russia: **EP** (S). – Europe (EE).
- Dolichogenidea breviventris** (Ratzeburg, 1848) [Microgaster] (*Apanteles mesoxanthus* Ruschka, 1917; *A. nilae* Telenga, 1961). Endoparasitoid of caterpillars from the genus *Coleophora* (Coleophoridae). Russia: **EP** (NW, C, E, S, NC). – Europe (WE, NE, SE, EE), Egypt, Turkey, Korean Peninsula, Canada.
- Dolichogenidea candidata** (Haliday, 1834) [Microgaster] (*Microgaster coniferae* Haliday, 1834; *M. longicauda* Wesm., 1837; *M. terebrator* Ratzeburg, 1852). Endoparasitoid of caterpillars from the families Agonoxenidae, Bucculatricidae, Choreutidae, Depressariidae, Gelechiidae, Gracillariidae, Oecophoridae, Plutellidae, Pyralidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, E, NC, CR), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Cape Verde Is.
- Dolichogenidea cerialis** (Nixon, 1976) [Apanteles] (*Apanteles areolaris* Balevski et Tobias, 1980). Parasitoid of *Ascotis selenaria* Den. et Schiff. (Geometridae). Russia: **EP** (S). – Europe (WE, SE, EE), Israel, Kazakhstan.
- Dolichogenidea cheles** (Nixon, 1972) [Apanteles]. Endoparasitoid of *Caloptilia fribergensis* Fr., *C. rufipennella* Hbn. (Gracillariidae) and *Acleris holmiana* L. (Tortricidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey.
- Dolichogenidea cinerosa** (Papp, 1971) [Apanteles]. Russia: **FE** (PR). – Europe (WE, SE, EE), Mongolia.
- Dolichogenidea coleophorae** (Wilkinson, 1938) [Apanteles]. Endoparasitoid of *Haploptilia serratella* L. and *Zagulajevia tadzhikiella* Danil. (Coleophoridae). Russia: **EP** (C, S, NC), **FE** (KH). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Turkey, Turkmenistan, Tajikistan, Uzbekistan, Canada.
- Dolichogenidea credne** (Nixon, 1973) [Apanteles]. Endoparasitoid of *Argyresthia glabrata* Z. and *A. laevigatella* Heyd. (Yponomeutidae). Russia: **EP** (NW). – Europe (WE, EE).
- Dolichogenidea cytherea** (Nixon, 1972) [Apanteles]. Endoparasitoid of *Eurrhyncha hortulata* L. (Crambidae) and *Ypsolopha alpella* Den. et Schiff. (Ypsolophidae). Russia: **EP** (S, CR). – Europe (WE, SE, EE), Iran, Mongolia.
- Dolichogenidea decora** (Haliday, 1834) [Microgaster] (*Apanteles lineatus* Reinhard, 1880). Endoparasitoid of caterpillars from the families Gracillariidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, E, NC, CR), **ES** (IR), **FE** (KH). – Europe (WE, NE, SE, EE), Georgia, Iran, Turkmenistan, Kazakhstan, China.
- Dolichogenidea dilecta** (Haliday, 1834) [Microgaster] (*Microgaster femoralis* Bouché, 1834). Endoparasitoid of caterpillars from the families Gracillariidae, Tortricidae and Yponomeutidae, including pest *Tortrix viridana* L. (Tortricidae). Russia: **EP** (NW, C, S, NC, CR), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Armenia, Turkey, China, Korean Peninsula, Japan.
- Dolichogenidea drusilla** (Nixon, 1972) [Apanteles]. Russia: **EP** (C, CR), **FE** (PR). – Europe (WE, NE, EE), Georgia, Turkey, Mongolia.
- Dolichogenidea eleagnellae** (Tobias, 1976) [Apanteles]. Russia: **EP** (NC). – Armenia.
- Dolichogenidea emarginata** (Nees, 1834) [Microgaster] (*Microgaster scapularis* Bouché, 1834). Endoparasitoid of caterpillars from the families Depressariidae, Gelechiidae, Gracillariidae, Oecophoridae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (AL), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Israel, Iran, Kazakhstan.
- Dolichogenidea ensiformis** (Ratzeburg, 1844) [Microgaster]. Endoparasitoid of *Bedellia somnulentella* Z. (Lyoneidae), *Plutella xylostella* L. (Plutellidae) and *Epinotia pygmaeana* Hbn. (Tortricidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Tunisia, Mongolia.
- Dolichogenidea erdoesi** (Papp, 1973) [Apanteles] (*Apanteles negativus* Tobias, 1976). Russia: **EP** (NC). – Europe (EE).
- Dolichogenidea evonymellae** (Bouché, 1834) [Microgaster] (*Apanteles iarbas* Nixon, 1972). Endoparasitoid of caterpillars from the families Sesiidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, S, NC). – Europe (WE, SE, EE), Armenia, Azerbaijan.
- Dolichogenidea faucula** (Nixon, 1972) [Apanteles]. Endoparasitoid of *Lampronia fuscata* Tengström (Prodoxidae) and *Synanthedon tipuliformis* Cl. (Sesiidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, EE).

- Dolichogenidea furtim** (Papp, 1977) [Apanteles]. Russia: **EP** (S). – Europe (SE, EE), Azerbaijan.
- Dolichogenidea gagates** (Nees, 1834) [Microgaster]. Endoparasitoid of caterpillars from the families Geometridae, Pterophoridae and Tortricidae. Russia: **EP** (NW, C, S, NC). – Europe (WE, NE, SE, EE).
- Dolichogenidea golovushkini** (Kotenko, 1992) [Apanteles]. Russia: **ES** (ZB).
- Dolichogenidea gracilariiae** (Wilkinson, 1940) [Apanteles]. Endoparasitoid of caterpillars from the families Gracilariidae, Lyonetiidae and Plutellidae. Russia: **EP** (NW, C, S, NC, CR), **WS** (KM), **ES** (IR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Uzbekistan, Kazakhstan.
- Dolichogenidea grata** (Kotenko, 1986) [Apanteles]. Russia: **EP** (NC, CR). – Europe (EE).
- Dolichogenidea halidayi** (Marshall, 1872) [Apanteles]. Endoparasitoid of caterpillars from the families Coleophoridae, Gelechiidae, Gracilariidae and Tortricidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Armenia, Iran.
- Dolichogenidea helleni** (Nixon, 1972) [Apanteles]. Russia: **EP** (N, C). – Europe (WE, NE, EE).
- Dolichogenidea imperator** (Wilkinson, 1939) [Apanteles]. Endoparasitoid of caterpillars from the families Acrolepiidae, Depressariidae, Epermeniidae, Geometridae and Plutellidae. Russia: **EP** (NW, C, E, S, NC). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan.
- Dolichogenidea impura** (Nees, 1834) [Microgaster]. Endoparasitoid of caterpillars from the families Gracilariidae, Pterophoridae and Tortricidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia, China.
- Dolichogenidea infima** (Haliday, 1834) [Microgaster]. Endoparasitoid of caterpillars from the families Acrolepiidae, Coleophoridae, Epermeniidae and Tortricidae. Russia: **EP** (C, S, NC, CR), **ES** (ZB), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Uzbekistan, Kazakhstan, Mongolia.
- Dolichogenidea jaroshevskiyi** (Tobias, 1976) [Apanteles]. Endoparasitoid of *Gypsonoma minutana* Hbn. (Tortricidae). Russia: **EP** (S). – Europe (EE), Armenia.
- Dolichogenidea lactea** (Nees, 1834) [Microgaster] (*Apanteles tadzhicus* Telenga, 1949). Endoparasitoid of caterpillars from the family Pyralidae. Russia: **EP** (C, S, NC, CR), **UR**, **FE** (KA). – Europe (WE, NE, SE, EE), Tunisia, Armenia, Azerbaijan, Turkey, Israel, Iran, Tajikistan, Uzbekistan, Kazakhstan.
- Dolichogenidea lacteicolor** (Viereck, 1911) [Apanteles]. Endoparasitoid of caterpillars from the families Noctuidae, Notodontidae and Tortricidae. Russia: **EP** (C, S, NC, CR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Tajikistan, Uzbekistan, China, Japan, N America (introduced).
- Dolichogenidea lacteipennis** (Curtis, 1830) [Microgaster] (*Apanteles lissonotus* Tobias, 1964). Endoparasitoid of *Operophtera brumata* L. (Geometridae) and *Epiblema costipunctana* Haw. (Tortricidae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Afghanistan, Turkmenistan, Kazakhstan.
- Dolichogenidea laevigata** (Ratzeburg, 1848) [Microgaster] (*Microgaster hoplites* Ratzeburg, 1848). Endoparasitoid of caterpillars from the families Choreutidae, Gelechiidae and Tortricidae. Russia: **EP** (NW, C, S, NC, CR), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Uzbekistan, Kazakhstan, China, Korean Peninsula.
- Dolichogenidea laevigatoides** (Nixon, 1972) [Apanteles]. Endoparasitoid of *Dahlica inconspicua* Stt. and *Proustia betulina* Z. (Psychidae). Russia: **EP** (C, S). – Europe (WE, EE).
- Dolichogenidea lemariei** (Nixon, 1961) [Apanteles]. Endoparasitoid of *Cepurga hemerobiella* Scop. (Coleophoridae), *Exoteleia dodecella* L. (Gelechiidae) and *Rhyacionia buoliana* Den. et Schiff. (Tortricidae). Russia: **EP** (NW). – Europe (WE, EE).
- Dolichogenidea levifida** (Kotenko, 1992) [Apanteles]. Russia: **ES** (ZB).
- Dolichogenidea lineipes** (Wesmael, 1837) [Microgaster]. Parasitoid of lepidopteran from the families Gracilariidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW). – Europe (WE, NE, EE), Israel, Mongolia.
- Dolichogenidea longicalcar** (Thomson, 1895) [Microgaster]. Russia: **EP** (N, NW), **FE** (PR). – Europe (WE, NE, EE), Korean Peninsula.
- Dolichogenidea longipalpis** (Reinhard, 1880) [Apanteles] (*Apanteles tadzhicus* Telenga, 1949). Endoparasitoid of *Epichnopterix plumella* Den. et Schiff. (Psychidae) and *Thiodia citrana* Hbn. (Tortricidae). Russia: **EP** (S, NC). – Europe (WE, NE, EE), Armenia, Turkey, Iran, Tajikistan, China.
- Dolichogenidea luctifica** (Papp, 1971) [Apanteles] (*Apanteles anfritron* Nixon, 1972). Russia: **EP** (NW), **FE** (PR). – Europe (NE, SE, EE), Mongolia.
- Dolichogenidea midas** (Nixon, 1972) [Apanteles]. Russia: **UR**, **FE** (PR). – Europe (NE, EE), Mongolia.
- Dolichogenidea nixosiris** (Papp, 1976) [Apanteles] (*Apanteles osiris* Nixon, 1972, nom. praeocc., nec De Saeger, 1944). Russia: **EP** (N), **WS** (NS), **ES** (ZB), **FE** (PR). – Europe (NE, EE), Turkmenistan, Mongolia.
- Dolichogenidea pallidalata** (Tobias, 1964) [Apanteles]. Endoparasitoid of *Ananarsia eleagnella* Kuzn. and *A. lineatella* Z. (Gelechiidae). Russia: **EP** (S). – Europe (EE), Kazakhstan.
- Dolichogenidea petrovae** (Walley, 1937) [Apanteles] (*Apanteles dioryctriae* Wilkinson, 1938; *A. magnus* Telenga, 1955). Endoparasitoid of caterpillars from the families Pyralidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C), **ES** (YA). – Europe (WE, NE, SE, EE), Morocco, Turkey, Mongolia, N America.

- Dolichogenidea phaloniae** (Wilkinson, 1940) [Apanteles]. Endoparasitoid of *Aethes smeathmanniana* F. (Tortricidae). Russia: **EP** (NW, C, S, NC). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Israel.
- Dolichogenidea phaola** (Nixon, 1972) [Apanteles]. Russia: **FE** (PR). – Europe (WE, NE, EE), China.
- Dolichogenidea praetor** (Marshall, 1885) [Apanteles]. Endoparasitoid of *Eucosma aemulana* Schläg. (Tortricidae). Russia: **EP** (C, NC). – Europe (WE, NE, EE), Armenia.
- Dolichogenidea praetoria** (Tobias, 1976) [Apanteles]. Russia: **EP** (NC).
- Dolichogenidea princeps** (Wilkinson, 1941) [Apanteles]. Endoparasitoid of *Ecebalia obscenella* H.-Sch., *E. virgaureae* Stt. and *Postvinctulia lutipennella* Z. (Coleophoridae). Russia: **EP** (C, S), **FE** (PR). – Europe (WE, SE, EE), Tunisia, Azerbaijan, Turkey, Mongolia, Korean Peninsula.
- Dolichogenidea propinqua** (Papp, 1975) [Apanteles]. Russia: **EP** (S, NC). – Europe (WE, SE, EE).
- Dolichogenidea punctiger** (Wesmael, 1837) [Microgaster] (*Apanteles itea* Nixon, 1972). Endoparasitoid of *Caloptilia semifascia* Haw., *Phyllonorycter junoniella* Z. and *Ph. messaniella* Z. (Gracillariidae). Russia: **EP** (C, S, NC, CR). – Europe (WE, SE, EE).
- Dolichogenidea seriphia** (Nixon, 1972) [Apanteles]. Endoparasitoid of *Metzneria ehikeella* Gozm. (Gelechiidae) and *Parctopa ononidis* Z. (Gracillariidae). Russia: **EP** (S). – Europe (SE, EE), Tunisia, Turkey, Iran.
- Dolichogenidea sicaria** (Marshall, 1885) [Apanteles] (*Apanteles crudelis* Papp, 1971). Endoparasitoid of caterpillars from the families Depressariidae, Gelechiidae, Gracillariidae, Momphidae, Plutellidae, Pyralidae and Tortricidae. Russia: **EP** (NW, C, S, NC, CR), **WS** (OM), **ES** (ZB), **FE** (AM, KH, PR, KA). – Europe (WE, NE, SE, EE), Morocco, Georgia, Azerbaijan, Turkey, Iran, Kyrgyzstan, Kazakhstan, Mongolia, N America, New Zealand (introduced).
- Dolichogenidea simulata** (Papp, 1974) [Apanteles]. Russia: **FE** (PR). – Korean Peninsula.
- Dolichogenidea soikai** (Nixon, 1972) [Apanteles]. Russia: **EP** (S). – Europe (WE, NE, SE, EE), Tunisia, Turkey.
- Dolichogenidea sophiae** (Papp, 1972) [Apanteles]. Russia: **EP** (C, CR), **ES** (ZB). – Europe (EE), Georgia, Armenia, Turkey.
- Dolichogenidea ultima** (Kotenko, 1986) [Apanteles]. Russia: **EP** (S, CR). – Europe (EE).
- Dolichogenidea ultor** (Reinhard, 1880) [Apanteles] (*Microgaster lacteipennis* Ratzeburg, 1852, nom. praec., nec Curtis, 1830). Endoparasitoid of caterpillars from the families Lasiocampidae and Lymantriidae. Russia: **EP** (S, NC). – Europe (WE, SE, EE), Georgia, Azerbaijan.
- Dolichogenidea varifemur** (Abdinbekova, 1969) [Apanteles]. Russia: **EP** (NC). – Europe (NE), Azerbaijan.
- Dolichogenidea victoriata** (Kotenko, 1986) [Apanteles]. Russia: **EP** (S). – Europe (EE).
- ILLIDOPS** Mason, 1981. Type species: *Apanteles butalidis* Marshall, 1887. Widely distributed cosmopolitan genus. Endoparasitoids of lepidopteran caterpillars mainly from the families Psychidae, Pyralidae, Scythrididae and Tortricidae. Number of species: World – about 50, Palaearctic – about 30, Russia – 18.
- Illidops butalidis** (Marshall, 1889) [Apanteles]. Endoparasitoid of *Roeslerstammia erxlebella* F. (Roeslerstammiidae) and *Scythris picaepennis* Haw. (Scythrididae). Russia: **EP** (C, CR), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Turkey, Mongolia.
- Illidops buteonis** (Kotenko, 1986) [Apanteles]. Russia: **EP** (S). – Europe (EE).
- Illidops cloelia** (Nixon, 1965) [Apanteles]. Russia: **EP** (E, NC). – Europe (WE, SE, EE), Tajikistan, Korean Peninsula.
- Illidops electilis** (Tobias, 1964) [Apanteles]. Russia: **EP** (S). – Europe (SE, EE), Tunisia, Kazakhstan.
- Illidops kostjuki** (Kotenko, 1986) [Apanteles]. Endoparasitoid of *Aphelia stigmatana* Eversm. (Tortricidae). Russia: **WS** (AL).
- Illidops kostylevi** (Kotenko, 1986) [Apanteles]. Russia: **EP** (S). – Europe (EE).
- Illidops mutabilis** (Telenga, 1955) [Apanteles] (*Apanteles szaboi* Papp, 1972). Endoparasitoid of *Etiella zinckenella* Tr. (Pyralidae). Russia: **EP** (E, S, NC). – Europe (WE, SE, EE), Tunisia, Georgia, Turkey, Kazakhstan, Mongolia.
- Illidops naso** (Marshall, 1885) [Apanteles] (*Apanteles contortus* Tobias, 1964; *A. crantor* Nixon, 1965; *A. evander* Nixon, 1965; *A. coresia* Nixon, 1973). Russia: **EP** (C, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula.
- Illidops nigritegula** (Tobias et Kotenko, 1986) [Apanteles]. Russia: **EP** (S). – Kazakhstan.
- Illidops planiscapus** (Tobias, 1976) [Apanteles]. Russia: **EP** (NC).
- Illidops rostratus** (Tobias, 1976) [Apanteles]. Russia: **EP** (NC, CR). – Europe (EE), Armenia, Uzbekistan.
- Illidops sophrosine** (Nixon, 1976) [Apanteles]. Russia: **EP** (S), **ES** (ZB), **FE** (PR). – Europe (SE, EE).
- Illidops splendidus** (Papp, 1974) [Apanteles]. Russia: **EP** (C). – Europe (EE).
- Illidops subversor** (Tobias et Kotenko, 1986) [Apanteles]. Russia: **WS** (NS).
- Illidops suevus** (Reinhard, 1880) [Apanteles] (*Apanteles minutus* Szépligeti, 1896; *A. dion* Nixon, 1965; *A. sesostris* Nixon, 1976). Endoparasitoid of *Epichnopteryx* sp. (Psychidae). Russia: **EP** (S, NC), **ES** (IR). – Europe (WE, SE, EE), Armenia, Iran, Kazakhstan, Mongolia, Korean Peninsula.
- Illidops toreicus** Kotenko, 2007. Russia: **ES** (ZB).
- Illidops urgens** (Kotenko, 2004) [Apanteles]. Russia: **EP** (E). – Kazakhstan.

- Illidops urgo** (Nixon, 1965) [Apanteles]. Russia: **EP** (S, CR). – Europe (SE, EE), Armenia, Azerbaijan, Turkey, Mongolia.
- NAPAMUS** Papp, 1993. Type species: *Apanteles vipio* Reinhard, 1880. Number of species: World and Palaearctic – 2, Russia – 1.
- Napamus vipio** (Reinhard, 1880) [Apanteles]. Endoparasitoid of *Haplotinea insectella* F. (Tineidae) and *Scythris knochella* F. (Scythrididae). Russia: **EP** (C). – Europe (WE, SE, EE), Turkey, Israel.
- PHOLETESOR** Mason, 1981. Type species: *Apanteles ornigis* Weed, 1887. Widely distributed medium-sized genus. Number of species: World – about 40, Palaearctic – about 20, Russia – 17.
- Pholetesor arisba** (Nixon, 1973) [Apanteles]. Endoparasitoid of *Stephensia brunnichella* L. (Elachistidae), *Phyllonorycter blancardella* F. and *Ph. comparella* Dup. (Gracillariidae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Egypt, Israel, China, New Zealand.
- Pholetesor bicolor** (Nees, 1834) [Microgaster] (*Microgaster ardeaepenellae* Bouché, 1834; *Apanteles pedias* Nixon, 1973). Endoparasitoid of caterpillars from the family Gracillariidae. Russia: **EP** (C, S, NC, CR), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Canary Is, Tunisia, Georgia, Israel, Iran, Turkmenistan, Kyrgyzstan, Mongolia, China, Japan, New Zealand.
- Pholetesor circumlatus** Kutenko, 2007. Russia: **FE** (KU).
- Pholetesor circumscriptus** (Nees, 1834) [Microgaster] (*Microgaster blancardellae* Bouché, 1834; *M. umbellatarum* Haliday, 1834; *M. lividipes* Wesmael, 1837; *M. flavolimbatus* Ratzeburg, 1848; *Apanteles lautellus* Marshall, 1885). Endoparasitoid of caterpillars from the families Choreutidae, Coleophoridae, Elachistidae and Gracillariidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **WS** (KM), **ES** (IR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Israel, Iran, Kazakhstan, China, Korean Peninsula, Japan, N America, New Zealand.
- Pholetesor dmitriyi** Kutenko, 2007. Russia: **FE** (PR).
- Pholetesor elpis** (Nixon, 1973) [Apanteles] (*Apanteles girkanus* Tobias, 1976). Endoparasitoid of caterpillars from the families Coleophoridae, Elachistidae and Gracillariidae. Russia: **FE** (PR, SA, MG). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia, Korean Peninsula.
- Pholetesor exiguus** (Haliday, 1834) [Microgaster]. Endoparasitoid of *Phyllonorycter junoniella* Z. (Gracillariidae). Russia: **EP** (NW, C), **ES** (ZB), **FE** (SA). – Europe (WE, NE, SE, EE), Tunisia, Iran, Mongolia, Korean Peninsula.
- Pholetesor intercedens** (Tobias, 1977) [Apanteles]. Endoparasitoid of *Malacosoma neustrium* L. (Lasiocampidae). Russia: **FE** (PR).
- Pholetesor laetus** (Marshall, 1885) [Apanteles] (*Apanteles metallicus* Jakimavicius, 1972). Endoparasitoid of caterpillars from the families Elachistidae and Gracillariidae. Russia: **EP** (NW, C), **ES** (IR, ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), China, Japan (Hok).
- Pholetesor maritimus** (Wilkinson, 1941) [Apanteles]. Endoparasitoid of *Bucculatrix maritima* Stt. (Bucculatricidae). Russia: **EP** (NW, C). – Europe (WE, NE, EE), Kyrgyzstan, China.
- Pholetesor moldavicus** (Tobias, 1975) [Apanteles]. Endoparasitoid of *Bucculatrix ulmella* Z. and *B. thoracella* Thunb. (Bucculatricidae). Russia: **EP** (C). – Europe (WE, EE), Armenia, Korean Peninsula.
- Pholetesor nanus** (Reinhard, 1880) [Apanteles] (*Apanteles szoecsi* Papp, 1973). Endoparasitoid of caterpillars from the families Coleophoridae, Gracillariidae and Nepticulidae. Russia: **EP** (NW, C), **ES** (IR), **FE** (KA). – Europe (WE, NE, SE, EE), N America.
- Pholetesor phaetusa** (Nixon, 1973) [Apanteles]. Endoparasitoid of caterpillars from the families Choreutidae, Elachistidae and Gracillariidae. Russia: **EP** (C), **FE** (SA). – Europe (WE, EE), Mongolia, Korean Peninsula.
- Pholetesor terneicus** Kutenko, 2007. Russia: **FE** (PR).
- Pholetesor tobiasi** (Balevski, 1980) [Apanteles]. Russia: **EP** (S). – Europe (EE).
- Pholetesor viminetorum** (Wesmael, 1837) [Microgaster] (*Microgaster fuliginosus* Wesmael, 1837). Endoparasitoid of caterpillars from the families Coleophoridae, Elachistidae and Gracillariidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **WS** (without regions), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Iran, Kyrgyzstan, Kazakhstan, China, Japan, N America.
- Pholetesor zherikhini** Kutenko, 2007. Russia: **FE** (PR, SA).

Tribe COTESIINI

- COTESIA** Cameron, 1891. Type species: *Cotesia flavipes* Cameron, 1891. One of the largest microgastrine genera. Number of species: World – about 300, Palaearctic – about 130, Russia – 67.
- Cotesia abdinbekovae** Papp, 2009 (*Apanteles rufiventris* Abdinbekova, 1969, nom. praeocc., nec *Protapanteles rufiventris* Bingham, 1906). Endoparasitoid of *Apocheima cinerarius* Ersch. (Geometridae). Russia: **EP** (S). – Europe (SE), Azerbaijan, Turkmenistan.
- Cotesia abjecta** (Marshall, 1885) [Apanteles] (*Apanteles complanatus* Lyle, 1916). Endoparasitoid of caterpillars from the families Notodontidae and Sphingidae, including *Hyles euphorbiae* L. (Sphingidae) (first record). Russia: **EP** (N). – Europe (WE, NE, SE, EE), Israel, Iran, Mongolia.
- Cotesia acuminata** (Reinhard, 1880) [Apanteles] (*Apanteles cultrator* Marshall, 1885). Endoparasitoid of *Euphydryas aurinia* Rott., *E. maturna* L., *Melitaea athalia* Rott. and *M. phoebe* Den. et Schiff. (Nymphalidae). Russia: **EP** (S, NC), **ES** (BR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Israel, Tajikistan, Uzbekistan, China.
- Cotesia acutula** (Tobias, 1973) [Apanteles]. Russia: **EP** (NW). – Europe (NE, EE).

- Cotesia affinis** (Nees, 1834) [Microgaster] (*Microgaster euphorbiae* Bouché, 1834; *M. vinulae* Bouché, 1834; *Apanteles harpyiae* Niezabitowski, 1910; *A. okamotoi* Watanabe, 1932; *A. planus* Watanabe, 1932). Endoparasitoid of caterpillars from the families Noctuidae, Notodontidae and Sphingidae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Armenia, Kazakhstan, China, Korean Peninsula, Japan, Cape Verde Is.
- Cotesia analis** (Nees, 1834) [Microgaster] (*Microgaster praetextatus* Haliday, 1834; *Apanteles leucaniae* Wilkinson, 1937). Endoparasitoid of caterpillars from the families Noctuidae, Nymphalidae and Yponomeutidae. Russia: **EP** (C), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia.
- Cotesia ancilla** (Nixon, 1974) [Apanteles]. Endoparasitoid of caterpillars from the families Pieridae (*Colias*) and Zygaenidae. Russia: **UR**, **FE** (PR). – Europe (WE, SE, EE), Armenia, Turkey, Israel, Iran, Mongolia.
- Cotesia astrarches** (Marshall, 1889) [Apanteles] (*Microgaster arcticus* Thomson, 1895). Endoparasitoid of *Aricia agestis* Den. et Schiff. and *Glaucopteryx alexis* Poda (Lycaenidae), *Helicoverpa armigera* Hbn. and *Heliothis virescens* Hufn. (Noctuidae). Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Afghanistan, Kazakhstan.
- Cotesia aurura** (Telenga, 1955) [Apanteles]. Russia: **UR**. – Georgia.
- Cotesia bignellii** (Marshall, 1885) [Apanteles]. Endoparasitoid of *Euphydryas aurinia* Rott. and *E. maturna* L. (Nymphalidae). Russia: **EP** (S). – Europe (WE, NE, SE, EE), United Arab Emirates.
- Cotesia brevicornis** (Wesmael, 1837) [Microgaster] (*Apanteles cleoceridis* Marshall, 1889). Endoparasitoid of caterpillars from the families Geometridae and Noctuidae. Russia: **EP** (NW, C), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Korean Peninsula, N America.
- Cotesia cajae** (Bouché, 1834) [Microgaster] (*Microgaster difficilis* Nees, 1834; *M. perspicuus* Nees, 1834). Endoparasitoid of caterpillars from the family Arctiidae. Russia: **EP** (NW, C, E, S, NC), **WS** (AL), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Uzbekistan, China, Japan.
- Cotesia callimone** (Nixon, 1974) [Apanteles] (*Apanteles sceleratus* Tobias, 1986). Endoparasitoid of *Callimorpha dominula* L. (Arctiidae). Russia: **EP** (E). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia.
- Cotesia calodetta** (Nixon, 1974) [Apanteles]. Endoparasitoid of *Eriogaster arbusculae* Frey. and *E. lanestris* L. (Lasiocampidae). Russia: **WS** (AL). – Europe (NE), Turkey.
- Cotesia corylicola** (Tobias, 1986) [Apanteles]. Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan.
- Cotesia cuprea** (Lyle, 1925) [Apanteles]. Endoparasitoid of caterpillars from the family Lycaenidae. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Mongolia.
- Cotesia errator** (Nixon, 1974) [Apanteles]. Endoparasitoid of *Eupithecia virgaureata* Dbld. (Geometridae). Russia: **EP** (NW). – Europe (WE).
- Cotesia euryale** (Nixon, 1974) [Apanteles]. Endoparasitoid of *Aplocera efformata* Gn., *A. plagiata* L., *Biston betularia* L. (Geometridae) and *Catocala fraxini* L. (Noctuidae). Russia: **EP** (NW, C, S), **ES** (IR). – Europe (WE, SE, EE), Iran, Mongolia.
- Cotesia ferruginea** (Marshall, 1885) [Apanteles]. Endoparasitoid of *Chilo phragmitellus* Hbn. (Crambidae), *Phragmataecia castaneae* Hbn. (Cossidae) and *Lenisa geminipuncta* Haw. (Noctuidae). Russia: **EP** (NW, C, S), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula.
- Cotesia gastropachae** (Bouché, 1834) [Microgaster]. Endoparasitoid of caterpillars from the families Crambidae, Lasiocampidae and Noctuidae. Russia: **EP** (NW, C, E, S), **ES** (KR, BR, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Israel, Uzbekistan, Kazakhstan, Mongolia, China, Japan.
- Cotesia geryonis** (Marshall, 1885) [Apanteles]. Endoparasitoid of caterpillars from the family Zygaenidae. Russia: **EP** (S), **FE** (PR). – Europe (WE, SE, EE), Turkey, Iran, Mongolia, Korean Peninsula.
- Cotesia glabrata** (Telenga, 1955) [Apanteles]. Endoparasitoid of *Biston betularia* L. (Geometridae) and *Caracharodus alcaeae* Esp. (Hesperiidae). Russia: **EP** (NW, C, S, NC, CR). – Europe (WE, EE), Georgia, Turkey, Israel, Turkmenistan, Kazakhstan.
- Cotesia glomerata** (Linnaeus, 1758) [Ichneumon] (*Microgaster nigriventris* Nees, 1834; *M. reconditus* Nees, 1834; *M. stellatarum* Bouché, 1834; *M. crataegi* Ratzeburg, 1844; *M. oleracea* Taylor, 1860; *M. pieridis* Packard, 1881; *Glyptapanteles nawaii* Ashmead, 1906; *Apanteles aporiae* Matsumura, 1908; *A. heterotergis* Fahringer, 1936). Endoparasitoid of caterpillars from the family Pieridae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (AL), **ES** (IR, YA), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), Morocco, Georgia, Armenia, Azerbaijan, Turkey, Jordan, Israel, Iran, Pakistan, Central Asia, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, India, introduced in N and S America, Australia, New Zealand.
- Cotesia gonopterygis** (Marshall, 1898) [Apanteles]. Endoparasitoid of *Gonepteryx rhamni* L. (Pieridae). Russia: **EP** (? C, S). – Europe (WE, SE, EE), Turkey, Japan.
- Cotesia hyphantriae** (Riley, 1887) [Apanteles]. Endoparasitoid of caterpillars from the families Arctiidae, Hesperiidae, Lymantriidae and Noctuidae. Russia: **EP** (C, S, NC). – Europe (WE, SE, EE), Turkey, Iran, Korean Peninsula, Japan, N America.
- Cotesia inducta** (Papp, 1973) [Apanteles] (*Apanteles tenuivalvis* Tobias, 1986). Russia: **EP** (S, NC), **FE** (PR). – Europe (WE, SE, EE), Turkey, Israel, Uzbekistan, Korean Peninsula.

- Cotesia jucunda** (Marshall, 1885) [Apanteles] (*Apanteles nigrinervis* Thomson, 1895). Endoparasitoid of caterpillars from the families Geometridae and Pieridae. Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Mongolia.
- Cotesia judaica** (Papp, 1970) [Apanteles] (*Apanteles dzhanybeki* Tobias, 1986). Endoparasitoid of *Teia dubia* Tauscher (Lymantriidae). Russia: **EP** (S, CR). – Europe (SE, EE), Tunisia, Israel, Kazakhstan.
- Cotesia kariyai** (Watanabe, 1937) [Apanteles] (*Apanteles purgatus* Telenga, 1955). Endoparasitoid of *Agrotis segetum* Den. et Schiff., *Mythimna separata* Walk., *M. unipuncta* Haw. and *Naranga aenescens* Moore (Noctuidae). Russia: **FE** (PR). – China, Korean Peninsula, Japan, Vietnam.
- Cotesia kasparyani** (Tobias, 1977) [Apanteles]. Russia: **FE** (KH).
- Cotesia kazak** (Telenga, 1949) [Apanteles]. Endoparasitoid of caterpillars from the families Geometridae and Noctuidae, including pest *Helicoverpa armigera* Hbn. Russia: **EP** (S). – Europe (SE, EE), Morocco, Tunisia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, India, Australia, New Zealand.
- Cotesia kurdjumovi** (Telenga, 1955) [Apanteles] (*Apanteles laverna* Nixon, 1974). Endoparasitoid of *Pyrausta aurata* Scop. (Crambidae), *Operophtera brumata* L. (Geometridae) and *Pempelia obductella* Z. (Pyrilidae). Russia: **EP** (C, S). – Europe (WE, NE, SE, EE), Turkey, Israel, Mongolia.
- Cotesia limbata** (Marshall, 1885) [Apanteles] (*Apanteles kawadai* Watanabe, 1934). Endoparasitoid of caterpillars from the families Geometridae, Noctuidae and Notodontidae. Russia: **EP** (C, S, NC). – Europe (WE, SE, EE), Mongolia, Japan.
- Cotesia lineola** (Curtis, 1830) [Microgaster] (*Apanteles gabrielis* Gautier et Riel, 1919). Endoparasitoid of caterpillars from the families Crambidae and Pieridae, including pests *Aporia crataegi* L. and *Pieris rapae* L. (Pieridae). Russia: **EP** (NW, S). – Europe (WE, NE, SE, EE), Armenia, Turkey.
- Cotesia melanoscela** (Ratzeburg, 1844) [Microgaster] (*Microgaster solitarius* Ratzeburg, 1844; *Apanteles creatus* Balevski, 1980). Endoparasitoid of caterpillars from the family Lymantriidae. Russia: **EP** (NW, C, E, S, NC), **WS** (AL), **ES** (ZB), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Tajikistan, Kazakhstan, Mongolia, N America (introduced).
- Cotesia melitaearum** (Wilkinson, 1937) [Apanteles] (*Apanteles ukrainicus* Tobias, 1986). Endoparasitoid of caterpillars from the families Noctuidae and Nymphalidae. Russia: **EP** (C, S, NC), **UR**, **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Uzbekistan, Kazakhstan, China, Korean Peninsula.
- Cotesia mendicae** (Tobias, 1986) [Apanteles]. Endoparasitoid of *Diaphora mendica* Cl. (Arctiidae). Russia: **EP** (C). – Kazakhstan.
- Cotesia neustriiae** (Tobias, 1986) [Apanteles]. Endoparasitoid of *Malacosoma castrense* L. and *M. neustrium* L. (Lasiocampidae). Russia: **EP** (C, E, S), **UR**. – Europe (EE), Turkey, Kazakhstan.
- Cotesia nigrithibialis** (Tobias, 1986) [Apanteles]. Russia: **EP** (NC). – Europe (EE), Korean Peninsula.
- Cotesia notha** (Marshall, 1885) [Apanteles]. Endoparasitoid of caterpillars from the families Coleophoridae, Geometridae, Noctuidae and Satyridae. Russia: **EP** (NW). – Europe (WE, SE, EE), Turkey, Iran, Mongolia, Korean Peninsula.
- Cotesia ocnariae** (Ivanov, 1898) [Apanteles]. Endoparasitoid of *Lymantria dispar* L. (Lymantriidae). Russia: **EP** (S, CR). – Europe (WE, SE, EE).
- Cotesia ordinaria** (Ratzeburg, 1844) [Microgaster] (*Apanteles dendrolimi* Matsumura, 1926). Endoparasitoid of caterpillars from the genera *Dendrolimus* and *Macrothylacia* (Lasiocampidae). Russia: **EP** (C, S, CR), **WS** (TK), **ES** (TU, KR, IR), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Israel, Iran, China, Korean Peninsula, Japan.
- Cotesia orestes** (Nixon, 1974) [Apanteles]. Endoparasitoid of *Euthrix potatoria* L. (Lasiocampidae). Russia: **EP** (C). – Europe (WE, NE, EE), Turkey, Korean Peninsula.
- Cotesia perspicua** (Nees, 1834) [Apanteles] (*Apanteles ofella* Nixon, 1974). Endoparasitoid of *Euthrix potatoria* L. (Lasiocampidae), *Acronicta aceris* L., *A. rumicis* L. and *Simyra dentinosa* Fr. (Noctuidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran.
- Cotesia pieridis** (Bouché, 1834) [Microgaster]. Endoparasitoid of *Aporia crataegi* L., *Colias croceus* Fourc., *Gonepteryx rhamni* L. and *Pieris brassicae* L. (Pieridae). Russia: **EP** (C, S, NC), **FE** (PR, SA). – Europe (WE, NE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China.
- Cotesia pilicornis** (Thomson, 1895) [Microgaster]. Endoparasitoid of caterpillars from the families Geometridae, Pterophoridae and Tortricidae. Russia: **EP** (C, E, S, NC). – Europe (WE, NE, SE, EE), Turkey.
- Cotesia praepotens** (Haliday, 1834) [Microgaster] (*Microgaster placidus* Haliday, 1834; *M. sericeus* Nees, 1834; *M. brachycerus* Thomson, 1895; *Apanteles beshtaii* Tobias, 1986). Endoparasitoid of caterpillars from the families Geometridae, Noctuidae and Tortricidae. Russia: **EP** (C, E, S, NC, CR), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Cotesia prozorovi** (Telenga, 1955) [Apanteles]. Endoparasitoid of *Dendrolimus superans* Butler (Lasiocampidae). Russia: **ES** (IR).
- Cotesia rubecula** (Marshall, 1885) [Apanteles]. Endoparasitoid of *Pieris brassicae* L., *P. napi* L., *P. rapae* L. (Pieridae) and *Plutella xylostella* L. (Plutellidae). Russia: **EP**

- (NW, C, S, NC), **ES** (IR), **FE** (KH, PR, SA). – Europe (WE, SE, EE), Iran, China, N America, Australia.
- Cotesia rubripes** (Haliday, 1834) [Apanteles] (*Apanteles coryphe* Nixon, 1974). Endoparasitoid of caterpillars from the families Geometridae, Lasiocampidae, Noctuidae, Notodontidae and Sphingidae. Russia: **EP** (C, S, NC, CR), **WS** (TK), **ES** (KR), **FE** (PR). – Europe (WE, NE, SE, EE), Morocco, Turkey, Kazakhstan, Mongolia, Korean Peninsula, Japan.
- Cotesia ruficrus** (Haliday, 1834) [Microgaster] (*Apanteles antipoda* Ashmead, 1900; *A. manila* Ashmead, 1904; *A. narangae* Viereck, 1913). Endoparasitoid of caterpillars from the families Geometridae, Lasiocampidae, Noctuidae, Pieridae and Tortricidae. Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Kazakhstan, China, Korean Peninsula, Japan, USA (introduced), India, SE Asia, Afrotropics, Australia (introduced), New Zealand (introduced).
- Cotesia salebrosa** (Marshall, 1885) [Apanteles] (*Apanteles callunae* Nixon, 1974). Endoparasitoid of caterpillars from the family Geometridae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, Korean Peninsula.
- Cotesia saltator** (Thunberg, 1822) [Ichneumon]. Endoparasitoid of *Acrolepia autumnitella* Curt. (Acrolepiidae), *Yponomeuta malinella* Z. and *Y. padella* L. (Yponomeutidae). Russia: **EP** (NW, C, S, CR). – Europe (WE, NE, SE, EE), Armenia, Turkey, Lebanon, Israel, Iran, Mongolia.
- Cotesia scabricula** (Reinhard, 1880) [Apanteles]. Endoparasitoid of *Erannis defoliaria* Cl. (Geometridae), *Earias clorana* L. (Noctuidae) and *Apotomis capreana* Hbn. (Tortricidae). Russia: **EP** (S). – Europe (WE, EE), Armenia, Iran, Mongolia, China, Korean Peninsula.
- Cotesia sessilis** (Geoffroy, 1785) [Ichneumon] (*Microgaster juniperatae* Bouché, 1834; *Apanteles tetricus* Reinhard, 1880). Endoparasitoid of caterpillars from the families Geometridae, Gracillariidae, Noctuidae and Tortricidae. Russia: **EP** (NW, C, E, NC), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Cotesia setebis** (Nixon, 1974) [Apanteles] (*Apanteles khibinicus* Tobias, 1986). Endoparasitoid of caterpillars from the family Arctiidae. Russia: **EP** (N, E), **UR**. – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia.
- Cotesia specularis** (Szépligeti, 1896) [Apanteles] (*Apanteles balcanicus* Balevski, 1980). Endoparasitoid of *Glaucopsyche alexis* Poda, *Lampides boeticus* L. (Lycaenidae) and *Mythimna unipuncta* Haw. (Noctuidae). Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, SE, EE), Turkey, Jordan, Israel, Iran, Tajikistan, Uzbekistan, Kyrgyzstan.
- Cotesia spuria** (Wesmael, 1837) [Microgaster] (*Microgaster insidiens* Ratzeburg, 1844). Endoparasitoid of caterpillars from the families Geometridae, Lasiocampidae, Noctuidae and Notodontidae. Russia: **EP** (NW, C, E, S, NC), **WS** (NS), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Tajikistan, Uzbekistan, Kazakhstan, China (NE), Korean Peninsula, Japan.
- Cotesia subordinaria** (Tobias, 1976) [Apanteles]. Endoparasitoid of *Rivula sericealis* Scop. (Noctuidae). Russia: **EP** (NC). – Europe (WE), Georgia, Azerbaijan.
- Cotesia telengai** (Tobias, 1972) [Apanteles] (*Apanteles amabilis* Nixon, 1974). Endoparasitoid of caterpillars from the family Noctuidae. Russia: **EP** (NW, C, S, NC, CR). – Europe (WE, SE, EE), Morocco, Algeria, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, India, New Zealand.
- Cotesia tenebrosa** (Wesmael, 1837) [Microgaster] (*Apanteles genalis* Tobias, 1964). Endoparasitoid of *Lampides boeticus* L., *Polyommatus bellargus* Rott., *P. daphnis* Den. et Schiff. and *P. icarus* Rott. (Lycaenidae). Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Israel, Iran, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Cotesia tibialis** (Curtis, 1830) [Microgaster] (*Microgaster atrator* Curtis, 1830; *M. gracilis* Curtis, 1830; *M. congestus* Nees, 1834; *M. globatus* Bouché, 1834; *M. intricatus* Haliday, 1834; *M. gracilipes* Thomson, 1895; *Apanteles similis* Szépligeti, 1901; *A. simulans* Lyle, 1917; *A. claustratus* Gautier et Bonnamour, 1923). Endoparasitoid of caterpillars from the families Noctuidae and Satyridae. Russia: **EP**, **UR**, **WS** (NS), **ES** (KR, IR, BR, ZB), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China, Korean Peninsula, Japan.
- Cotesia vanessae** (Reinhard, 1880) [Apanteles]. Endoparasitoid of caterpillars from the families Lasiocampidae, Noctuidae and Nymphalidae. Russia: **EP** (NW, C, E, S, NC), **WS** (OM, TK), **ES** (IR, BR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Morocco, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Uzbekistan, Kazakhstan, China, Korean Peninsula, Japan, Canada, Ethiopia.
- Cotesia vestalis** (Haliday, 1834) [Microgaster] (*Apanteles plutellae* Kurdjumov, 1912). Endoparasitoid of caterpillars from the families Crambidae, Lasiocampidae, Noctuidae, Nymphalidae, Plutellidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC), **ES** (ZB), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Morocco, Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, USA, India, Sri Lanka, SE Asia, Afrotropics, New Zealand.
- Cotesia villana** (Reinhard, 1880) [Apanteles] (*Apanteles fasciata* Gautier et Dresnay, 1926; *A. rubroides* Papp, 1971). Endoparasitoid of caterpillars from the family Arctiidae. Russia: **EP** (S), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia.

- Cotesia viridanae** (Tobias, 1986) [Apanteles]. Endoparasitoid of *Tortrix viridana* L. (Tortricidae). Russia: **EP** (C).
- Cotesia zygaenarum** (Marshall, 1885) [Apanteles]. Endoparasitoid of *Zygaena* species (Zygaenidae). Russia: **EP** (NW, C, E, S, NC, CR), **WS** (OM), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Israel, Iran, Kazakhstan, Mongolia, China, Korean Peninsula, Japan.
- DEUTERIXYS** Mason, 1981. Type species: *Microgaster carbonarius* Wesm., 1837. Relatively small but widely distributed genus. Number of species: World – about 20, Palaearctic – 6, Russia – 5.
- Deuterixys carbonaria** (Wesmael, 1837) [Microgaster] (*Microgaster gracilis* Curtis, 1830; *Apanteles anomalus* Lyle, 1925). Endoparasitoid of *Bucculatrix cristatella* Z. and *B. nigricornella* Z. (Bucculatricidae). Russia: **EP** (NW, C, E), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula, Japan.
- Deuterixys condarensis** (Tobias, 1960) [Apanteles] (*Apanteles nixon* Papp, 1971). Endoparasitoid of *Leucoptera malifoliella* Costa (Lyonetiidae). Russia: **FE** (PR). – Tajikistan, Mongolia, Korean Peninsula, Japan.
- Deuterixys plugarui** (Tobias, 1975) [Apanteles]. Endoparasitoid of *Bucculatrix ulmella* Z. (Bucculatricidae). Russia: **EP** (S). – Europe (WE, SE, EE).
- Deuterixys rimulosa** (Niezabitowski, 1910) [Apanteles] (*Apanteles comes* Wilkinson, 1940). Endoparasitoid of *Bucculatrix artemisiella* H.-Sch. and *B. cristatella* Z. (Bucculatricidae). Russia: **EP** (C, S, NC). – Europe (WE, SE, EE), Azerbaijan, Iran, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.
- Deuterixys svetlanae** Kotenko, 2007. Russia: **FE** (PR).
- DIOLCOGASTER** Ashmead, 1900 (*Zadiolcogaster* Viereck, 1913). Type species: *Microgaster brevicaudus* Provancher, 1886. Medium-sized and widespread genus. Number of species: World – more than 80, Palaearctic – about 25, Russia – 15.
- Diolcogaster abdominalis** (Nees, 1834) [Microgaster]. Endoparasitoid of *Vanessa atalanta* L. (Nymphalidae), *Coenonympha oedippus* F. and *C. tullia* Müll. (Satyridae). Russia: **EP** (S), **ES** (BR, ZB), **FE** (PR). – Europe (WE, SE, EE), Georgia, Azerbaijan, Israel, Kazakhstan, Mongolia, Korean Peninsula.
- Diolcogaster alvearia** (Fabricius, 1798) [Ichneumon] (*Ichneumon alveator* Thunberg, 1822). Endoparasitoid of caterpillars from the family Geometridae. Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, China.
- Diolcogaster belokobylskiji** Kotenko, 2007. Russia: **FE** (PR).
- Diolcogaster claritibia** (Papp, 1959) [Microgaster] (*Protomicroplitis orontes* Nixon, 1965). Endoparasitoid of *Alcis jubata* Thunb. (Geometridae) and *Plutella xylostella* L. (Plutellidae). Russia: **EP** (NW, C, S), **ES** (ZB). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Turkmenistan, Kazakhstan.
- Diolcogaster connexa** (Nees, 1834) [Microgaster] (*Microgaster consularis* Haliday, 1834; *M. diluta* Ratzeburg, 1852). Endoparasitoid of *Phragmatobia fuliginosa* L. (Arctiidae), *Euproctis chrysorrhoea* L. and *E. similis* Fuessly (Lymantriidae). Russia: **EP** (NW, C, E), **ES** (TU), **FE** (PR). – Europe (WE, NE, SE, EE), Korean Peninsula.
- Diolcogaster flavipes** (Haliday, 1834) [Microgaster] (*Microgaster minutus* Reinhard, 1880). Endoparasitoid of *Alcis jubata* Thunb., *A. repandata* L. (Geometridae) and *Amphipyra pyramidea* L. (Noctuidae). Russia: **EP** (NW), **ES** (TU, ZB), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), Armenia.
- Diolcogaster galazia** Kotenko, 2007. Russia: **ES** (ZB).
- Diolcogaster gefidra** Kotenko, 2007. Russia: **FE** (PR).
- Diolcogaster hinzi** (Nixon, 1965) [Protomicroplitis]. Endoparasitoid of *Biston betularia* L., *Cabera exanthemata* Scop. and *C. pusaria* L. (Geometridae). Russia: **EP** (NW, E), **UR**, **FE** (SA, KA). – Europe (WE, NE, EE), Kazakhstan.
- Diolcogaster kasachstanica** (Tobias, 1964) [Hygroplitis]. Russia: **ES** (ZB). – Kazakhstan.
- Diolcogaster kasparyani** Kotenko, 2007. Russia: **FE** (KH).
- Diolcogaster mayae** (Shestakov, 1932) [Microgaster] (*Microgaster iranensis* Hedwig, 1957). Russia: **EP** (S, NC). – Europe (EE), Armenia, Azerbaijan, Turkey, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Diolcogaster minuta** (Reinhard, 1880) [Microgaster]. Endoparasitoid of *Alcis jubata* Thunb. (Geometridae) and *Brachylomia viminalis* F. (Noctuidae). Russia: **EP** (NW, C, E, S, NC), **ES** (TU, IR, ZB). – Europe (WE, NE, SE, EE), Armenia, Turkey, Turkmenistan.
- Diolcogaster scotica** (Marshall, 1885) [Microgaster]. Endoparasitoid of *Lacanobia oleracea* L., *L. suasa* Den. et Schiff. and *L. thalassina* Hufn. (Noctuidae). Russia: **EP** (N, NW, C, E), **ES** (IR, ZB). – Europe (WE, NE, EE), Mongolia, N America.
- Diolcogaster spreta** (Marshall, 1885). Endoparasitoid of *Acrobasis consociella* Hbn., *Conobathra repandana* F., *Pempelia palumbella* Den. et Schiff. and *Trachycera advenella* Zinck. (Pyrilidae). Russia: **EP** (S, NC, CR). – Europe (WE, SE, EE), Turkey, Iran, China.
- DISTATRIX** Mason, 1981. Type species: *Apanteles papilionis* Viereck, 1912. Small genus distributed mainly in the tropical zone. Number of species: World – about 20, Palaearctic – 4, Russia – 2.
- Distatrix formosa** (Wesmael, 1837) [Microgaster] (*Apanteles marshalli* Bignell, 1901). Endoparasitoid of caterpillars from the family Geometridae. Russia: **EP** (S, NC, CR), **WS** (KM), **FE** (PR). – Europe (WE, SE, EE), Armenia, Korean Peninsula, Japan.
- Distatrix sanca** (Nixon, 1965) [Apanteles]. Endoparasitoid of *Callophrys rubi* L. (Lycaenidae) and *Jordanita*

- subsolana* Staud. (Zygaenidae). Russia: **EP** (S, NC, CR). – Europe (WE, SE, EE), Azerbaijan.
- GLYPTAPANTELES** Ashmead, 1904. Type species: *Glyptapanteles manilae* Ashmead, 1904. Large and widespread genus. Number of species: World – more than 100, Palaearctic – about 50, Russia – 24.
- Glyptapanteles acasta** (Nixon, 1973) [Apanteles]. Endoparasitoid of caterpillars from the family Noctuidae. Russia: **EP** (NW, C, NC, CR), **WS** (AL), **ES** (ZB). – Europe (WE, SE, EE), Turkey.
- Glyptapanteles aliphera** (Nixon, 1973) [Apanteles] (*Apanteles sublateralis* Tobias, 1976). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Israel.
- Glyptapanteles arcuatus** (Telenga, 1955) [Apanteles]. Russia: **FE** (PR). – Europe (WE).
- Glyptapanteles callidus** (Haliday, 1834) [Microgaster] (*Apanteles urolus* Papp, 1983). Endoparasitoid of *Parasemia plantaginis* L. (Arctiidae), *Abraxas grossulariata* L. (Geometridae) and *Noctua orbona* Hufn. (Noctuidae). Russia: **EP** (C), **ES** (ZB), **FE** (AM, KH, SA, KU). – Europe (WE, NE, EE), Georgia, Armenia, Turkey, Israel.
- Glyptapanteles compressiventris** (Muesebeck, 1921) [Apanteles]. Endoparasitoid of caterpillars from the family Arctiidae. Russia: **EP** (N, NW, C, S), **UR**, **ES** (ZB), **FE** (PR, KU, KA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Kazakhstan, N America.
- Glyptapanteles fraternus** (Reinhard, 1880) [Apanteles]. Endoparasitoid of caterpillars from the families Geometridae and Noctuidae. Russia: **EP** (S, NC, CR), **ES** (TU, ZB). – Europe (WE, SE, EE), Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.
- Glyptapanteles fulvipes** (Haliday, 1834) [Microgaster]. Endoparasitoid of caterpillars from the families Geometridae, Noctuidae and Notodontidae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (without regions), **ES** (ZB), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Kazakhstan, Mongolia, Korean Peninsula, Japan, Greenland, N America, Afrotropics.
- Glyptapanteles inclusus** (Ratzeburg, 1844) [Microgaster] (*Microgaster curvulus* Thomson, 1895; *Apanteles rectinervis* Telenga, 1955). Endoparasitoid of *Euprocitis chrysorrhoea* L., *Eu. similis* Fuessly and *Lymantria monacha* L. (Lymantriidae). Russia: **EP** (C, E, S, NC), **ES** (TU, IR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, Afrotropics.
- Glyptapanteles lateralis** (Haliday, 1834) [Microgaster]. Endoparasitoid of caterpillars from the families Choreutidae, Elachistidae, Geometridae, Gracillariidae and Yponomeutidae. Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Kazakhstan.
- Glyptapanteles liparidis** (Bouché, 1834) [Microgaster] (*Microgaster nemorum* Hartig, 1838; *Glyptapanteles japonicus* Ashmead, 1906; *G. politus* Ashmead, 1906; *Apanteles posticae* Sonan, 1927; *A. awanomeigae* Watanabe, 1942). Endoparasitoid of caterpillars from the families Lasiocampidae and Lymantriidae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (TK, NS), **ES** (IR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), N Africa, Iran, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, N America (introduced), India.
- Glyptapanteles magnicoxis** (Jakimavicius, 1972) [Apanteles] (*Apanteles eugeni* Papp, 1972). Endoparasitoid of *Anthophila fabriciana* L. (Choreutidae). Russia: **EP** (NW, C, CR). – Europe (WE, NE, SE, EE), Turkey.
- Glyptapanteles mygdonia** (Nixon, 1973) [Apanteles]. Endoparasitoid of caterpillars from the families Choreutidae, Crambidae and Geometridae. Russia: **EP** (C, NC), **ES** (BR), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Korean Peninsula.
- Glyptapanteles nigerrimus** (Roman, 1923) [Apanteles]. Endoparasitoid of *Cyclophora punctaria* L., *C. quercimontaria* Bastelb. and *Erannis defoliaria* Cl. (Geometridae). Russia: **EP** (N). – Europe (SE, EE).
- Glyptapanteles obivius** Kotenko, 2007. Russia: **FE** (PR).
- Glyptapanteles octonarius** (Ratzeburg, 1852) [Microgaster] (*Apanteles stauropodis* Marshall, 1889; *A. lucifugus* Lyle, 1917). Endoparasitoid of caterpillars from the families Arctiidae, Noctuidae and Notodontidae. Russia: **EP** (C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.
- Glyptapanteles pallipes** (Reinhard, 1880) [Apanteles] (*Apanteles pallidipes* Marshall, 1885; *Microgaster longicornis* Provancher, 1886; *Apanteles radiatus* Ashmead, 1898; *A. reinhardi* Wilkinson, 1936). Endoparasitoid of caterpillars from the families Crambidae and Noctuidae. Russia: **EP** (N, NW, C, NC), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Mongolia, China, Korean Peninsula, Japan, Greenland, N America, India.
- Glyptapanteles pinicola** (Lyle, 1917) [Apanteles]. Endoparasitoid of *Eupithecia lariciata* Frey, *Thera obeliscata* Hbn. and *T. variata* Den. et Schiff. (Geometridae). Russia: **EP** (C, E). – Europe (WE, SE, EE).
- Glyptapanteles porthetriae** (Muesebeck, 1928) [Apanteles]. Endoparasitoid of *Lymantria dispar* L. (Lymantriidae), *Calophasia lunula* Hufn. and *Craniophora ligustri* Den. et Schiff. (Noctuidae). Russia: **EP** (C, S, NC, CR), **UR**, **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Morocco, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, China, Korean Peninsula, N America (introduced), India.
- Glyptapanteles querceus** (Tobias, 1986) [Apanteles]. Endoparasitoid of *Quercusia quercus* L. (Lycaenidae). Russia: **EP** (S, CR). – Europe (EE).
- Glyptapanteles ripus** (Papp, 1983) [Apanteles]. Endoparasitoid of *Clostera anastomosis* L. (Notodontidae) and

- Cucullia xeranthemi* Boisd. (Noctuidae). Russia: **EP** (C). – Europe (WE, SE, EE), Korean Peninsula.
- Glyptapanteles rubens** (Reinhard, 1880) [Apanteles]. Endoparasitoid of *Acronicta rumicis* L. (Noctuidae). Russia: **EP** (C). – Europe (WE, EE), Israel.
- Glyptapanteles sibiricus** (Papp, 1983) [Apanteles]. Russia: **WS/ES** ("Siberia": Papp, 1983). – Europe (WE, SE).
- Glyptapanteles thompsoni** (Lyle, 1927) [Apanteles]. Endoparasitoid of *Anacampsis timidella* Wocke (Gelechiidae) and *Ostrinia nubilalis* Hbn. (Crambidae). Russia: **EP** (NW, C), **FE** (PR, SA, KU). – Europe (WE, EE), Iran, China, Korean Peninsula, Japan, N America (introduced).
- Glyptapanteles vitripennis** (Curtis, 1830) [Microgaster] (*Microgaster fulcriger* Wesmael, 1837; *Apanteles impavidus* Gautier et Dresnay, 1927). Endoparasitoid of caterpillars from the families Geometridae, Lasiocampidae, Noctuidae, Plutellidae, Tortricidae and Yponomeutidae. Russia: **EP** (NW, C, NC), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, N America (introduced), India.
- NYERERIA** Mason, 1981. Type species: *Apanteles mlanje* Wilkinson, 1929. Number of species: World – 22, Palaearctic and Russia – 1.
- Nyereria forensic** (Tobias, 1977) [Apanteles]. Russia: **FE** (KH). – Korean Peninsula.
- PROTAPANTELES** Ashmead, 1898. Type species: *Protapanteles ephyrae* Ashmead, 1898. Widespread medium-sized genus. Number of species: World – about 50, Palaearctic – about 20, Russia – 11.
- Protapanteles anchisiades** (Nixon, 1973) [Apanteles]. Endoparasitoid of caterpillars from the family Geometridae. Russia: **EP** (N), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Turkey, Mongolia, Korean Peninsula.
- Protapanteles andromica** (Nixon, 1976) [Apanteles]. Endoparasitoid of caterpillars from the family Geometridae. Russia: **EP** (C, S). – Europe (WE, EE).
- Protapanteles endemus** (Nixon, 1965) [Apanteles]. Endoparasitoid of *Abraxas grossulariata* L. (Geometridae). Russia: **EP** (NW, S). – Europe (WE, EE), Kazakhstan.
- Protapanteles enephes** (Nixon, 1965) [Apanteles]. Endoparasitoid of caterpillars from the family Geometridae. Russia: **EP** (C, S), **FE** (AM, PR, SA). – Europe (WE, NE, EE), Turkmenistan, Korean Peninsula, Brazil.
- Protapanteles hirtariae** (Kotenko et Tobias, 1986) [Apanteles]. Endoparasitoid of *Lycia hirtaria* Cl. and *L. zonaria* Den. et Schiff. (Geometridae). Russia: **EP** (S), **WS** (AL). – Europe (WE).
- Protapanteles immunis** (Haliday, 1834) [Microgaster]. Endoparasitoid of caterpillars of numerous species from the families Geometridae and Noctuidae. Russia: **EP** (NW, C, E, S, NC), **WS** (TK, NS), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Tunisia, Armenia, Kazakhstan, Korean Peninsula, Greenland.
- Protapanteles incertus** (Ruthe, 1859) [Microgaster] (*Apanteles caberae* Marshall, 1885; *A. jugosus* Lyle, 1916; *A. mihalyii* Papp, 1973). Endoparasitoid of caterpillars of numerous species of the families Geometridae and Noctuidae. Russia: **EP** (NW, C, E, S, NC, CR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Mongolia.
- Protapanteles neparallelus** Kotenko, 2007. Russia: **ES** (ZB).
- Protapanteles popularis** (Haliday, 1834) [Microgaster]. Endoparasitoid of *Tyria jacobaeae* L. (Arctiidae), *Cerura vinula* L. (Notodontidae) and *Laothoe populi* L. (Sphingidae). Russia: **EP** (C, S). – Europe (WE, NE, SE, EE), Turkmenistan, Mongolia, China.
- Protapanteles triangulator** (Wesmael, 1837) [Microgaster]. Endoparasitoid of caterpillars from the families Geometridae, Gracillariidae, Lycaenidae, Noctuidae and Notodontidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Protapanteles yunnanensis** (You et Xiong, 1987) [Apanteles]. Russia: **FE** (PR). – China, Korean Peninsula.
- RASIVALVA** Mason, 1981. Type species: *Microplitis stigmaticus* Muesebeck, 1922. Relatively small genus. Number of species: World – about 15, Palaearctic – 6, Russia – 5.
- Rasivalva calceata** (Haliday, 1834) [Microgaster] (*Microgaster pubescens* Ratzeburg, 1844). Endoparasitoid of caterpillars from the family Geometridae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Rasivalva circumvecta** (Lyle, 1918) [Diolcogaster]. Endoparasitoid of *Archiearis parthenias* L., *Eupithecia tantillaria* Boisd. and *Trichopteryx carpinata* Borkh. (Geometridae). Russia: **EP** (C). – Europe (WE, NE, EE).
- Rasivalva karadagi** Tobias, 1986. Russia: **EP** (NC, CR). – Europe (EE).
- Rasivalva leleji** Kotenko, 2007. Russia: **FE** (SA, KU).
- Rasivalva marginata** (Nees, 1834) [Microgaster]. Endoparasitoid of *Colostyia pectinataria* Knoch, *Xanthorhoe biriviata* Borkh. (Geometridae) and *Lacanobia oleracea* L. (Noctuidae). Russia: **EP** (N, NW, C), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Philippines.

Tribe MICROGASTRINI

- CHOERAS** Mason, 1981. Type species: *Apanteles con-similis* Viereck, 1911. Medium-sized and widespread genus, which species parasitise lepidopteran caterpillars of 11 families: Choreutidae, Crambidae, Elachistidae, Gelechiidae, Gracillariidae, Noctuidae, Oecophoridae, Pterophoridae, Pyralidae, Tineidae and (most often) Tortricidae. Number of species: World – about 50, Palaearctic – almost 30, Russia – 18.
- Choeras almus** (Tobias et Kotenko, 1984) [Apanteles]. Russia: **ES** (ZB), **FE** (PR).

- Choeras arene** (Nixon, 1973) [Apanteles]. Endoparasitoid of *Adaina microdactyla* Hbn. (Pterophoridae). Russia: **EP** (S), **ES** (ZB), **FE** (SA, KU). – Europe (WE, SE, EE).
- Choeras avus** (Tobias et Kotenko, 1984) [Apanteles]. Russia: **UR**, **ES** (IR, ZB), **FE** (PR, MG).
- Choeras batrachedrae** (Kotenko, 1992) [Apanteles]. Endoparasitoid of *Batrachedra albicapitella* Sinev (Batrachodridae). Russia: **ES** (ZB), **FE** (PR).
- Choeras botydis** (Wilkinson, 1930) [Microgaster]. Russia: **FE** (KU). – Japan (Hon), Indonesia.
- Choeras ciscaucasicus** (Tobias, 1971) [Apanteles]. Russia: **EP** (NC), **FE** (PR). – Europe (NE, EE).
- Choeras dorsalis** (Spinola, 1808) [Microgaster] (*Microgaster cruceatus* Ratzeburg, 1844; *M. suffolciensis* Morley, 1902). Endoparasitoid of caterpillars from the families Crambidae, Gelechiidae, Oecophoridae, Pyralidae and Tortricidae. Russia: **EP** (C, S, NC, CR). – Europe (WE, NE, SE, EE), Canary Is, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Uzbekistan.
- Choeras gnarus** (Tobias et Kotenko, 1984) [Apanteles]. Russia: **EP** (C, NC, CR). – Europe (EE).
- Choeras parabolus** Kotenko, 2007. Russia: **FE** (PR).
- Choeras parasitellae** (Bouché, 1834) [Microgaster] (*Microgaster flavilabris* Ratzeburg, 1844; *M. rufilabris* Ratzeburg, 1844; *Apanteles lictorius* Reinhard, 1880; *A. polyptori* Gautier et Bonnamour, 1930). Endoparasitoid of caterpillars from the families Tineidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (TK), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Georgia, Turkey, Israel, Uzbekistan, Korean Peninsula.
- Choeras parasonium** Kotenko, 2007. Russia: **FE** (KA).
- Choeras ruficornis** (Nees, 1834) [Microgaster] (*Apanteles hedymeles* Nixon, 1973). Endoparasitoid of *Elachista gangabella* Z. (Elachistidae), *Gracillaria syringella* F. (Gracillariidae) and *Mythimna farrago* F. (Noctuidae). Russia: **EP** (NW, C, E, S, NC), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia.
- Choeras takeuchii** (Watanabe, 1937). Russia: **FE** (PR). – Japan (Hon, Shi, Kyu).
- Choeras tarasi** Kotenko, 2007. Russia: **FE** (KU).
- Choeras tedellae** (Nixon, 1961) [Apanteles] (*Apanteles epinotiae* Fischer, 1962; *A. epinotica* Fischer, 1966). Endoparasitoid of caterpillars from the family Tortricidae. Russia: **EP** (NW, C, E), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Israel, Iran, Korean Peninsula.
- Choeras tiro** (Reinhard, 1880) [Microgaster]. Endoparasitoid of *Cnephasia asseclana* Den. et Schiff., *C. chrysanthæana* Dup. and *C. pasiuana* Hbn. (Tortricidae). Russia: **EP** (NW, C, E), **FE** (SA, KU). – Europe (WE, SE, EE), Israel, Iran, N America.
- Choeras validus** (Thomson, 1895) [Microgaster]. Russia: **EP** (C), **FE** (SA, KU). – Europe (WE, NE, SE, EE).
- Choeras zerovae** Kotenko, 2007. Russia: **ES** (ZB), **FE** (PR).
- HYGROPLITIS** Thomson, 1895. Type species: *Microgaster russatus* Haliday, 1834. Small Holarctic genus. Number of species: World – 9, Palaearctic – 6, Russia – 4.
- Hygroplitis basarukini** Kotenko, 1993. Russia: **FE** (SA).
- Hygroplitis rugulosus** (Nees, 1834) [Microgaster]. Endoparasitoid of *Elophila nymphaeata* L. (Crambidae), *Acronicta rumicis* L. and *A. tridens* Den. et Schiff. (Noctuidae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Turkey.
- Hygroplitis ruinosus** Kotenko, 2007. Russia: **FE** (PR).
- Hygroplitis russatus** (Haliday, 1834) [Microgaster]. Endoparasitoid of caterpillars from the families Crambidae and Glyphipterigidae. Russia: **EP** (NW, C, S), **WS** (AL), **ES** (without regions), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China (NE, CC, SW, SE), Japan (Hok, Hon, Kyu).
- ICONELLA** Mason, 1981. Type species: *Apanteles etielae* Viereck, 1911. Almost cosmopolitan genus. Apparently, all its species are solitary parasitoids of Microlepidoptera, mostly borers (Mason, 1981). Number of species: World – more than 50, Palaearctic – about 30, Russia – 15.
- Iconella aeola** (Nixon, 1965) [Apanteles]. Endoparasitoid of *Ortholepis betulae* Goeze (Pyralidae). Russia: **EP** (C, S). – Europe (WE, EE), Armenia, Turkey.
- Iconella albinervis** (Tobias, 1964) [Apanteles]. Russia: **EP** (S, CR). – Europe (EE), Azerbaijan, Turkey, Kazakhstan.
- Iconella argante** (Nixon, 1976) [Apanteles]. Russia: **FE** (PR). – Europe (NE, EE), Kazakhstan.
- Iconella britannica** (Wilkinson, 1941) [Apanteles] (*Apanteles masmithi* Fernández-Triana, 2010). Endoparasitoid of *Ptocheuusa inopella* Z. (Gelechiidae) and *Enarmonia formosana* Scop. (Tortricidae). Russia: **EP** (S, CR), **FE** (PR). – Europe (WE, SE, EE), Armenia, Israel, Tajikistan, N America.
- Iconella erdoesi** (Papp, 1973) [Apanteles] (*Apanteles negatīvus* Tobias, 1976). Russia: **EP** (C). – Europe (EE), Azerbaijan.
- Iconella isus** (Nixon, 1965) [Apanteles]. Endoparasitoid of *Etiella zinckenella* Tr. (Pyralidae). Russia: **EP** (C, S). – Europe (SE, EE), Armenia, Israel, Iran, Uzbekistan, Kazakhstan.
- Iconella lacteoides** (Nixon, 1965) [Apanteles] (*Apanteles memorabilis* Alexeev, 1971). Endoparasitoid of *Acrobasis sodalella* Z., *Etiella zinckenella* Tr., *Homoeosoma nebulellum* Den. et Schiff. and *H. nimbellum* Dup. (Pyralidae). Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia.
- Iconella laspeyresiella** (Papp, 1972) [Apanteles]. Endoparasitoid of *Grapholita funebrana* Tr. (Tortricidae). Russia: **FE** (PR). – Europe (WE, EE), Azerbaijan, Turkey, Iran.
- Iconella memorata** Kotenko, 2007. Russia: **FE** (PR).

- Iconella merata** (Kotenko, 1981) [Apanteles]. Russia: **EP** (S). – Europe (EE).
- Iconella merula** (Reinhard, 1880) [Apanteles]. Endoparasitoid of *Arctia caja* L. and *Epicallia villica* L. (Arctiidae). Russia: **EP** (S, CR). – Europe (WE, NE, EE), Turkey, Israel.
- Iconella mera** (Kotenko, 1992) [Apanteles]. Russia: **ES** (ZB).
- Iconella myeloenta** (Wilkinson, 1937) [Apanteles]. Endoparasitoid of *Apomyelois ceratoniae* Z. (Pyralidae). Russia: **EP** (S, NC). – Europe (SE, EE), Tunisia, Turkey, Israel, Iran, Turkmenistan.
- Iconella rudolphae** (Kotenko, 1986) [Apanteles]. Russia: **EP** (S, CR). – Europe (EE), Kazakhstan.
- Iconella vindicia** (Nixon, 1965) [Apanteles]. Russia: **EP** (NC), **ES** (ZB), **FE** (PR). – Europe (SE, EE), Georgia, Turkey, Korean Peninsula.
- MICROGASTER** Latreille, 1804 (*Liganira* Walker, 1860; *Lissogaster* Bengtsson, 1926). Type species: *Ichneumon deprimator* Fabricius, 1798. Widely distributed cosmopolitan genus. Number of species: World – about 200, Palaearctic – about 70, Russia – 34.
- Microgaster alebion** Nixon, 1968. Endoparasitoid of *Platyptilia gonodactyla* Den. et Schiff. (Pterophoridae) and *Pleuroptya ruralis* Scop. (Crambidae). Russia: **EP** (N, NW, C, S, NC). – Europe (WE, NE, SE, EE), Turkey.
- Microgaster areolaris** Thomson, 1895. Endoparasitoid of *Pandemis heparana* Den. et Schiff. (Tortricidae). Russia: **EP** (NW, C, S, NC), **UR**, **ES**. – Europe (WE, NE, SE, EE), Armenia, Mongolia.
- Microgaster asramenes** Nixon, 1968. Endoparasitoid of *Eudemis porphyra* Hbn. (Tortricidae). Russia: **EP** (S, NC), **FE** (PR). – Europe (SE, EE), Georgia, Turkey, China (CC), Korean Peninsula.
- Microgaster auriculata** (Fabricius, 1804) [Ichneumon] (*Microgaster elegans* Herrich-Schäffer, 1838; *M. zonatus* Marshall, 1898). Russia: **EP** (S, NC). – Europe (WE, SE, EE).
- Microgaster australis** Thomson, 1895 (*Ichneumon deprimator* auct., *M. globata* sensu Telenga, 1941). Endoparasitoid of *Carcharodus alceae* Esp., *Muschampia tessellum* Hbn., *Pyrgus armoricus* Ober. and *P. serratulae* Ramb. (Hesperiidae). Russia: **EP** (NW, C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Iran, Turkmenistan, Kazakhstan, Mongolia.
- Microgaster campestris** Tobias, 1964. Russia: **EP** (S). – Europe (SE, EE), Azerbaijan, Uzbekistan, Kazakhstan, China (NC, NE).
- Microgaster caris** Nixon, 1968. Endoparasitoid of *Anacampsis populella* Cl. (Gelechiidae) and *Archips rosana* L. (Tortricidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, EE), China (NE).
- Microgaster crassicornis** Ruthe, 1860. Endoparasitoid of *Eupithecia denotata* Hbn. and *E. pimpinellata* Hbn. (Geometridae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE).
- Microgaster ductilis** Nixon, 1968. Endoparasitoid of *Endothenia nigricostana* Haw. (Tortricidae). Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, EE), Georgia, Mongolia, Korean Peninsula.
- Microgaster erro** Nixon, 1968. Russia: **EP** (N, E), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia.
- Microgaster famula** Nixon, 1968. Endoparasitoid of *Polychrysis moneta* F. (Noctuidae). Russia: **EP** (C). – Europe (WE, SE, EE), Turkey.
- Microgaster fischeri** Papp, 1960. Russia: **EP** (NC), **FE** (PR). – Europe (WE, EE), Turkey, Mongolia.
- Microgaster fulvicrus** Thomson, 1895. Endoparasitoid of *Agonopterix ocellana* F. (Depressariidae). Russia: **EP** (S, NC), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Uzbekistan, Korean Peninsula, Japan.
- Microgaster fusca** Papp, 1959 (*Microgaster phryne* Nixon, 1968). Russia: **EP** (C). – Europe (SE, EE).
- Microgaster globata** (Linnaeus, 1758) [Ichneumon] (*Ichneumon gossypinus* Retzius, 1783; *Microgaster anthomyiarum* Bouché, 1834; *M. rufipes* Nees, 1834; *M. amen-torum* Ratzeburg, 1844; *M. subincompleta* Ratzeburg, 1852; *M. laeviscuta* Thomson, 1895; *M. incurvata* Papp, 1976). Endoparasitoid of caterpillars from the families Crambidae, Gelechiidae, Noctuidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **ES** (IR), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Iran, Central Asia, Kazakhstan, Korean Peninsula, Japan.
- Microgaster hospes** Marshall, 1885 (*Microgaster comptanae* Viereck, 1911). Endoparasitoid of caterpillars from the families Gelechiidae, Noctuidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC, CR), **ES** (BR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Uzbekistan, Mongolia, N America.
- Microgaster hungarica** Szépligeti, 1896 (*Ichneumon deprimator* Fabricius, 1798; Telenga, 1941). Russia: **EP** (E, S), **ES** (KR). – Europe (WE, EE), Azerbaijan, Kyrgyzstan, Mongolia.
- Microgaster luctuosa** Haliday, 1834 (*Microgaster curvicrus* Thomson, 1895). Endoparasitoid of *Agonopterix pallorrella* Z. (Depressariidae), *Argyroplote arbutella* L. and *Cnephasia asseclana* Den. et Schiff. (Tortricidae). Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Turkey, Israel, Turkmenistan, Uzbekistan, Mongolia.
- Microgaster meridiana** Haliday, 1834 (*Microgaster grandis* Thomson, 1895). Endoparasitoid of *Dichomeris derasella* Den. et Schiff. (Gelechiidae), *Aphelia viburnana* Den. et Schiff., *Archips rosanus* L. and *Cnephasia chrysanthaeana* Dup. (Tortricidae). Russia: **EP** (N, NW, C), **UR**, **ES** (IR). – Europe (WE, NE, SE, EE), Canary Is, Turkey, Kazakhstan.
- Microgaster messoria** Haliday, 1834 (*M. tibialis* Nees, 1834; *M. ambigua* Ruthe, 1860; *M. maculata* Ruthe,

- 1860; *M. vulgaris* Ruthe, 1860; *M. pluto* Morley, 1936). Endoparasitoid of caterpillars from the families Crambidae, Gelechiidae, Geometridae, Gracillariidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkmenistan, Uzbekistan, China (NW), Japan, N America (introduced).
- Microgaster nigricans** Nees, 1834. Russia: **FE** (PR). – Europe (WE, NE, EE), Mongolia.
- Microgaster nitidula** Wesmael, 1837. Endoparasitoid of *Pseudosciaphila branderiana* L. (Tortricidae). Russia: **EP** (NW, C, NC). – Europe (WE, NE, EE).
- Microgaster nobilis** Reinhard, 1880. Endoparasitoid of *Charodius alceae* Esp. (Hesperiidae). Russia: **EP** (C, S, CR), **ES** (ZB). – Europe (WE, SE, EE), Canary Is, Armenia.
- Microgaster novicia** Marshall, 1885 (*Microgaster swamerdamiae* Muesebeck, 1922). Endoparasitoid of *Swamerdamia caesiella* Hbn. (Yponomeutidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Mongolia, China (CC, SE), N America.
- Microgaster parvistriga** Thomson, 1895. Endoparasitoid of caterpillars from the families Cosmopterigidae, Gelechiidae, Tortricidae and Yponomeutidae. Russia: **FE** (KH, PR). – Europe (WE, NE, EE), Armenia, Iran, Mongolia, Korean Peninsula.
- Microgaster polita** Marshall, 1885 (*Microgaster carinata* Bengtsson, 1926; *M. bengtssoni* Fahringer, 1937). Endoparasitoid of *Argyresthia conjugella* Z. (Yponomeutidae). Russia: **EP** (NW, C), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Armenia, Kazakhstan, Korean Peninsula.
- Microgaster postica** Nees, 1834 (*Microgaster marginella* Wesmael, 1837). Endoparasitoid of *Euproctis chrysorrhoea* L. and *E. similis* Fuessly (Lymantriidae). Russia: **EP** (NW, C, NC), **FE** (PR). – Europe (WE, EE).
- Microgaster procera** Ruthe, 1860 (*Microgaster intermedia* Ivanov, 1898). Endoparasitoid of *Eurrhyncha hortulata* L., *Loxostege sticticalis* L. (Crambidae), *Ancylis upupana* Tr. and *Argyroplote lediana* L. (Tortricidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Mongolia.
- Microgaster reticulata** Shestakov, 1940. Russia: **FE** (PR).
- Microgaster stictica** Ruthe, 1858 (*Microgaster confusus* Papp, 1971). Endoparasitoid of caterpillars from the families Gelechiidae and Tortricidae. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Mongolia, Korean Peninsula.
- Microgaster subcompleta** Nees, 1834 (*Microgaster annulipes* Curtis, 1830; *M. carinata* Packard, 1881). Endoparasitoid of caterpillars from the families Crambidae, Gelechiidae, Noctuidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC, CR), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, China (NE, SE), Korean Peninsula, N America.
- Microgaster subtilipunctata** Papp, 1959 (*Microgaster obsepiens* Nixon, 1968). Russia: **EP** (S, NC, CR). – Europe (WE, SE, EE).
- Microgaster szelenyii** Papp, 1974. Russia: **FE** (PR). – China (NE, NC, CC, SW), Korean Peninsula.
- Microgaster uliginosa** Thomson, 1895. Russia: **EP** (NW). – Europe (WE, NE, EE).
- PAROPLITIS** Mason, 1981. Type species: *Paroplitis beringianus* Mason, 1981. Number of species: World – 5, Palaearctic – 2, Russia – 1.
- Paroplitis wesmaeli** (Ruthe, 1860) [*Microgaster*] (*Microgaster picipes* Wesmael, 1837, nom. praeocc., nec Bouché, 1834). Endoparasitoid of caterpillars from the families Crambidae, Gelechiidae and Noctuidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Azerbaijan.
- SATHON** Mason, 1981. Type species: *Apanteles neomexicanus* Muesebeck, 1921. Small and worldwide distributed genus. Number of species: World – 16, Palaearctic – 3, Russia – 1.
- Sathon falcatus** (Nees, 1834) [*Microgaster*] (*Microgaster equestris* Haliday, 1834; *Apanteles gladiator* Szépligeti, 1901; *A. priapus* Gautier et Cleu, 1927). Endoparasitoid of caterpillars from the families Noctuidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **ES** (IR, ZB), **FE** (AM, KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Egypt, Georgia, Armenia, Azerbaijan, Turkey, Afghanistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China, Japan, SE Asia.

Tribe MICROPLITINI

- MICROPLITIS** Foerster, 1863 (*Dapsilotoma* Cameron, 1906). Type species: *Microgaster sordipes* Nees, 1834 (= *Ichneumon deprimator* Fabricius, 1798). Widely distributed cosmopolitan genus. Number of species: World – about 200, Palaearctic – about 100, Russia – 54.
- Microplitis aduncus** (Ruthe, 1860) [*Microgaster*] (*Microgaster brachycera* Thomson, 1895). Endoparasitoid of *Phragmatobia fuliginosa* L. (Arctiidae). Russia: **FE** (KA). – Europe (WE, NE, EE), Tunisia, Georgia, Iran, Turkmenistan, Mongolia, Korean Peninsula.
- Microplitis albipennis** Abidinbekova, 1969. Russia: **EP** (NC). – Europe (EE), Turkey, Mongolia.
- Microplitis albotibialis** Telenga, 1955. Endoparasitoid of *Spodoptera exigua* Hbn. (Noctuidae). Russia: **FE** (PR). – Europe (EE), Mongolia.
- Microplitis decens** Tobias, 1964. Russia: **EP** (S). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, Mongolia, Korean Peninsula.
- Microplitis decipiens** Prell, 1925. Endoparasitoid of *Panolis flammea* Den. et Schiff. (Noctuidae). Russia: **EP** (NW, C). – Europe (WE, NE, EE), Azerbaijan, Turkey, Iran, Kazakhstan.
- Microplitis deprimator** (Fabricius, 1798) [*Ichneumon*] (*Microgaster sordipes* Nees, 1834; *M. tau* Ratzeburg, 1852). Endoparasitoid of caterpillars from the families

- Noctuidae and Tortricidae. Russia: **EP** (NW, C, E, S, NC, CR), **WS** (without regions), **ES** (KR, ZB), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, Korean Peninsula.
- Microplitis docilis** Nixon, 1970. Russia: **ES** (BR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE).
- Microplitis dornator** (Papp, 1987) [Microgaster]. Russia: **FE** (PR). – Korean Peninsula.
- Microplitis eremitus** Reinhard, 1880. Endoparasitoid of caterpillars from the families Noctuidae, Notodontidae and Sphingidae. Russia: **EP** (NW, C, S, NC, CR), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Microplitis erythrogaster** Abdinbekova, 1969. Russia: **EP** (S, NC, CR). – Europe (WE, EE), Azerbaijan, Turkmenistan, Tajikistan.
- Microplitis excisus** Telenga, 1955. Russia: **EP** (S, NC). – Europe (EE), Azerbaijan.
- Microplitis flavipalpis** (Brullé, 1832) (*Microplitis ruricola* Lyle, 1918). Endoparasitoid of *Amphipyra berbera* Rungs, *Anarta myrtilli* L., *Calophasia lunula* Hufn. and *Hadena irregularis* Hufn. (Noctuidae). Russia: **EP** (C, S, NC), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Armenia, Turkey, Israel, Kazakhstan, Mongolia, Korean Peninsula.
- Microplitis fordi** Nixon, 1970. Endoparasitoid of *Chesias legatella* Den. et Schiff., *Ch. rufata* F. and *Thera juniperata* L. (Geometridae). Russia: **EP** (C). – Europe (WE, SE, EE), Tunisia, Turkey, Jordan, Israel, Mongolia.
- Microplitis fraudulenta** Papp, 1984. Russia: **ES** (ZB). – Mongolia.
- Microplitis fulvicornis** (Wesmael, 1837) [Microgaster]. Russia: **EP** (C, NC), **UR**, **FE** (PR). – Europe (WE, NE, EE), Turkey, Iran.
- Microplitis galinaria** Kutenko, 2007. Russia: **ES** (ZB).
- Microplitis heteroceris** (Ruthe, 1860) [Microgaster]. Endoparasitoid of *Plebeius loewii* Z. (Lycaenidae), *Acrionicta psi* L. and *Dicycla oo* L. (Noctuidae). Russia: **EP** (S, NC, CR). – Europe (WE, SE, EE), Turkey, Israel, Korean Peninsula.
- Microplitis idia** Nixon, 1970. Russia: **EP** (NW). – Europe (WE, NE, EE), Turkey, Israel.
- Microplitis infula** (Kutenko, 1994) [Microgaster]. Russia: **ES** (ZB), **FE** (PR).
- Microplitis kaszabi** Papp, 1980. Endoparasitoid of *Pyrria umbra* Hufn. (Noctuidae). Russia: **FE** (PR). – Mongolia, Korean Peninsula.
- Microplitis leoniae** Niezabitowski, 1910. Russia: **UR**, **FE** (PR, KU). – Europe (EE), Georgia, Korean Peninsula.
- Microplitis lugubris** (Ruthe, 1860) [Microgaster]. Endoparasitoid of caterpillars from the family Noctuidae. Russia: **EP** (N, C, E). – Europe (WE, NE, SE, EE), Armenia, Turkey, Mongolia, N America.
- Microplitis malimbis** (Papp, 1984) [Microgaster]. Russia: **EP** (NW), **FE** (PR). – Europe (WE, EE).
- Microplitis mandibularis** (Thomson, 1895) [Microgaster]. Endoparasitoid of caterpillars from the family Noctuidae. Russia: **EP** (C, S, NC), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Mongolia.
- Microplitis marshallii** Kokujev, 1897. Russia: **EP** (S, NC), **WS** (KM). – Europe (NE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, China.
- Microplitis mediator** (Haliday, 1834) [Microgaster] (*Microgaster dorsalis* Nees, 1834; *M. medianus* Ruthe, 1860; *Microplitis halidayi* Fahringer, 1937; *M. pseudomediana* Fahringer, 1937). Endoparasitoid of caterpillars from the family Noctuidae. Russia: **EP** (without regions), **UR**, **WS** (without regions), **ES** (ZB), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Iran, Central Asia, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, N America.
- Microplitis mongolicus** Papp, 1967. Russia: **ES** (ZB). – Europe (EE), Jordan, Israel, Mongolia.
- Microplitis naenia** Nixon, 1970. Endoparasitoid of *Conistra vaccinii* L., *Cosmia trapezina* L., *Orthosia cerasi* F. and *O. cruda* Den. et Schiff. (Noctuidae). Russia: **EP** (NW, C). – Europe (WE, EE).
- Microplitis ocellatae** (Bouché, 1834). Endoparasitoid of caterpillars from the families Notodontidae and Sphingidae. Russia: **EP** (NW, S, CR), **ES** (ZB), **FE** (SA). – Europe (WE, NE, SE, EE), China, Japan (Hok).
- Microplitis ochraceus** Szépligeti, 1896 (*Microplitis flaviventris* Ivanov, 1898). Endoparasitoid of *Orthosia populeti* F. (Noctuidae). Russia: **EP** (S, NC, CR). – Europe (SE, EE), Azerbaijan, Iran, Kazakhstan.
- Microplitis pallidipennis** Tobias, 1964. Russia: **EP** (S). – Europe (EE), Kazakhstan, Mongolia.
- Microplitis pallidipes** Szépligeti, 1902. Endoparasitoid of *Spodoptera exigua* Hbn. and *S. litura* F. (Noctuidae). Russia: **ES** (ZB), **FE** (PR, SA). – China, Korean Peninsula, SE Asia.
- Microplitis pellucidus** Telenga, 1955. Russia: **WS** (AL), **FE** (PR). – Europe (WE, NE, EE), Korean Peninsula.
- Microplitis plutellae** Muesebeck, 1922. Endoparasitoid of *Plutella xylostella* L. (Plutellidae) and *Trichoplusia ni* Hbn. (Noctuidae). Russia: **EP** (N). – Egypt, China (SE), N America.
- Microplitis pseudomurinus** Abdinbekova, 1969. Endoparasitoid of *Pyrria umbra* Hufn. (Noctuidae). Russia: **EP** (S, NC), **ES** (ZB), **FE** (PR). – Europe (SE, EE), Georgia, Azerbaijan, Turkey, Kazakhstan.
- Microplitis ratzeburgi** (Ruthe, 1858) [Microgaster] (*Microplitis cerurae* Matsumura, 1821). Endoparasitoid of *Cerura vinula* L. and *Furcula furcula* Cl. (Notodontidae). Russia: **EP** (NW), **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Armenia, Israel, Japan.

- Microplitis rufiventris** Kokujev, 1913. Endoparasitoid of *Helicoverpa armigera* Hbn. and *Spodoptera exigua* Hbn. (Noctuidae). Russia: **EP** (S, NC). – Europe (SE, EE), Egypt, Turkey, Jordan, Israel, Afghanistan, Turkmenistan, Uzbekistan, China.
- Microplitis scrophulariae** Szépligeti, 1898. Endoparasitoid of caterpillars of numerous species of the family Noctuidae. Russia: **EP** (NW, C, S, CR), **WS** (KM), **ES** (IR, ZB). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, Korean Peninsula.
- Microplitis sofron** Nixon, 1970 (*Microgaster stigmaticus* Ratzeburg, 1844). Endoparasitoid of *Autographa gamma* L. and *Cosmia trapezina* L. (Noctuidae). Russia: **EP** (NW, C, S, NC, CR), **UR**, **WS** (without regions), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Turkmenistan, Uzbekistan, Kazakhstan, N America.
- Microplitis spectabilis** (Haliday, 1834) [Microgaster] (*Microgaster fossulata* Bouché, 1834; *M. parvulus* Ruthe, 1860; *Microplitis seuratii* Marshall, 1898; *Dapsilotoma testaceipes* Cameron, 1906). Endoparasitoid of caterpillars of numerous species of the family Noctuidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **ES** (IR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Morocco, Tunisia, Armenia, Azerbaijan, Turkey, Israel, Iran, Pakistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia.
- Microplitis spinolae** (Nees, 1834) [Microgaster] (*Microplitis sapporoensis* Ashmead, 1906; *M. radiorimata* Telenga, 1955). Endoparasitoid of caterpillars of numerous species of the family Noctuidae. Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **ES** (ZB), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Korean Peninsula, Japan.
- Microplitis steinbergi** Tobias, 1964. Russia: **EP** (S). – Kazakhstan.
- Microplitis strenuus** Reinhard, 1880 (*Microgaster gracilis* Ruthe, 1860, nom. praeocc., nec Curtis, 1820). Endoparasitoid of caterpillars of several species of the family Noctuidae. Russia: **EP** (C, S, NC), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Afghanistan, Uzbekistan, Kazakhstan, Mongolia, China.
- Microplitis tadzhicus** Telenga, 1949 (*Microplitis murina* Telenga, 1955; *M. intermedius* Hedwig, 1961). Russia: **UR**. – Europe (WE, EE), Azerbaijan, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, China, Korean Peninsula.
- Microplitis taptor** (Papp, 1987) [Microgaster]. Russia: **FE** (PR, KA). – Korean Peninsula.
- Microplitis teba** (Kotenko, 1994) [Microgaster]. Russia: **ES** (ZB).
- Microplitis tobiasi** Kotenko, 2007. Russia: **FE** (PR).
- Microplitis tristis** (Nees, 1834) [Microgaster] (*Microplitis dolens* Thomson, 1895). Endoparasitoid of caterpillars of numerous species of the family Noctuidae. Russia: **EP** (NW, C, E, S), **UR**, **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Kyrgyzstan, Kazakhstan, Mongolia.
- Microplitis tuberculatus** (Bouché, 1834) [Microgaster] (*Microgaster fumipennis* Ratzeburg, 1852). Endoparasitoid of caterpillars of several species of the family Noctuidae. Russia: **EP** (C, S, NC), **WS** (without regions), **ES** (ZB). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Israel, Mongolia.
- Microplitis tuberculifer** (Wesmael, 1837) [Microgaster] (*Microgaster calcarata* Thomson, 1895; *M. trochanterata* Thomson, 1895; *Microplitis manevali* Gautier et Bonnamour, 1939). Endoparasitoid of caterpillars of numerous species of the family Noctuidae. Russia: **EP** (without regions), **UR**, **WS** (without regions), **ES** (ZB), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Israel, Iran, Uzbekistan, Kazakhstan, Mongolia, Japan.
- Microplitis variicolor** Tobias, 1964. Russia: **EP** (S). – Europe (EE), Azerbaijan, Kazakhstan, Mongolia.
- Microplitis varipes** (Ruthe, 1860) [Microgaster]. Endoparasitoid of *Cucullia scopariae* Dorf., *Hecatera bicolorata* Hufn. and *Omphalophana antirrhinii* Hbn. (Noctuidae). Russia: **EP** (NW, C, S, NC), **ES** (ZB). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Kazakhstan, Mongolia, China.
- Microplitis viduus** (Ruthe, 1860) [Microgaster]. Endoparasitoid of caterpillars of numerous species of the families Noctuidae and some species of Pyralidae and Spingidae. Russia: **EP** (C, E, S, NC, CR), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Microplitis xanthopus** (Ruthe, 1860) [Microgaster] (*Microgaster tenuipes* Thomson, 1895). Endoparasitoid of caterpillars from the families Noctuidae and Notodontidae. Russia: **EP** (NW, C, S, NC), **ES** (IR), **FE** (SA). – Europe (WE, NE, SE, EE), Georgia, Iran, Kazakhstan.

Subfamily MIRACINAE

S.A. BELOKOBYLSKIJ

Small subfamily, whose members are koinobiont endoparasitoids of the caterpillars of mining Lepidoptera. The taxonomic position of the genera *Oligoneurus* Szépligeti and *Paroligoneurus* Muesebeck included in this subfamily is still being discussed and some authors treat it within the subfamily Ichneutinae (see: Yu et al., 2016).

Number of taxa: World – 4 genera (1 fossil) and 79 species, Palaearctic – 4/16, Russia – 3/8.

References. Belokobylskij, 1986a, 1989c; Sharkey, Wharton, 1994; Maetô, 1995; Belokobylskij et al., 1998; Yu et al., 2016.

MIRAX Haliday, 1833 (*Centistidea* Rohwer, 1914). Type species: *Mirax rufilabris* Haliday, 1833. Part of species sometimes treated as a member of separate genus *Centistidea* Rohwer is considered here only as a subgenus of *Mirax*. Number of species: World – 47, Palaearctic – 12, Russia – 4.

Mirax (Centistidea) irruptor Papp, 1987. Russia: **FE** (PR). – China (SE), Korean Peninsula, Japan (Hok, Hon, Kyu), Indonesia.

Mirax (Centistidea) mogrus Papp, 1987. Parasitoid of caterpillars from the family Gracillariidae. Russia: **FE** (PR). – China (NE, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), Vietnam.

Mirax (Centistidea) sculpturator Belokobylskij, 1989. Russia: **FE** (PR). – ? Turkey.

Mirax (Mirax) rufilabris Haliday, 1833 (*Mirax spartii* Haliday, 1835; *M. dryochaes* Marshall, 1898; *M. nanivora* Fischer, 1957). Parasitoid of caterpillars from the families Coleophoridae and Nepticulidae. Russia: **EP** (NC, CR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kazakhstan.

OLIGONEURUS Szépligeti, 1902 (*Ciliosa* Mason, 1969; *Pulchaukia* Mason, 1969). Type species: *Oligoneurus concolor* Szépligeti, 1902. Number of species: World – 13, Palaearctic – 8, Russia – 3.

Oligoneurus angustifacies Belokobylskij, 1986. Russia: **FE** (PR).

Oligoneurus inopinatus Tobias et Belokobylskij, 1981. Parasitoid of *Phyllonorycter* sp. (Gracillariidae). Russia: **FE** (PR). – Korean Peninsula, Japan.

Oligoneurus luteus Belokobylskij, 1998. Russia: **FE** (PR).

PAROLIGONEURUS Muesebeck, 1931 (*Muesebeckia* Mason, 1957; *Anaprixia* Mason, 1991). Type species: *Paroligoneurus johnsoni* Muesebeck, 1931. Number of species: World – 18, Palaearctic and Russia – 1.

Paroligoneurus ectoedemiae Belokobylskij, 1986. Parasitoid of *Ectoedemia pilosae* Puplesis (Nepticulidae). Russia: **FE** (PR). – Korean Peninsula.

Subfamily OPIINAE

S.A. BELOKOBYSKIJ

One of the largest and worldwide distributed braconid subfamily, endoparasitoids of dipteran larvae mainly from the families Agromyzidae, Anthomyiidae and Tephritidae. Development of opiine parasitoids finished in the dipteran puparium of which adults are emerged. Subfamily consists of two tribes, Biosterini and Opiini. The generic classification used in Opiinae catalogue is based on the Taxapad (Yu et al., 2016).

Number of taxa: World – 39 genera and more than 2000 species, Palaearctic – 30/690, Russia – 18/330.

References. Fischer, 1972b, 1999, 2001; Papp, 1981b; Tobias et al., 1986b; Wharton, 1987, 1997; Gimeno et al., 1997; Belokobylskij et al., 1998; van Achterberg, 1999a; Tobias, 2000, 2001c; Chen, Weng, 2005; Li et al., 2013; Yu et al., 2016.

Tribe BIOSTERINI

BIOSTERES Foerster, 1862. Type species: *Bracon carbonarius* Nees, 1834. Medium-sized and almost worldwide distributed genus, endoparasitoids of flies mainly from the family Anthomyiidae; consists of two subgenera, *Biosteres* s. str. and *Chilotrichia* Foerster, 1863. Number of species: World – 78, Palaearctic – 47, Russia – 30.

Biosteres (Biosteres) analis (Wesmael, 1835) [Opus] (*Opus colorativentris* Fischer, 1957). Endoparasitoid of *Chirosia histricina* Rd. (Anthomyiidae) and *Parallelomma vittatum* Mg. (Scathophagidae). Russia: **FE** (PR, KU). – Europe (WE, NE, SE, EE), Turkey.

Biosteres (Biosteres) brevisulcus (Thomson, 1895) [Opus] (*Biosteres melanosoma* Szépligeti, 1896). Russia: **EP** (NW), **WS** (TM), **ES** (ZB), **FE** (KA). – Europe (WE, NE, SE, EE).

Biosteres (Biosteres) carbonarius (Nees, 1834) [Bracon] (*Opus impressus* Wesmael, 1835; *O. procerus* Wesmael, 1835; *O. onzi* Fischer, 1959). Endoparasitoid of dipteran larvae from the genera *Delia* and *Pegomya* (Anthomyiidae). Russia: **EP** (N, NW, C), **UR**, **ES** (IR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Iran, Tajikistan, Korean Peninsula, Japan, N America.

Biosteres (Biosteres) caudatulus (Thomson, 1895) [Opus]. Endoparasitoid of *Pegomya hyoscyami* Pz. (Anthomyiidae). Russia: **EP** (N, NW, C), **ES** (ZB). – Europe (WE, NE, SE, EE).

Biosteres (Biosteres) dudichi Papp, 1982. Russia: **FE** (AM). – Korean Peninsula.

Biosteres (Biosteres) kurilicus Fischer, 1998. Russia: **FE** (KU).

Biosteres (Biosteres) longicauda (Thomson, 1895) [Opus] (*Opus vilnensis* Jakimavicius, 1977). Russia: **EP** (C, NC), **WS** (TM, AL), **ES** (IR), **FE** (AM). – Europe (WE, NE, SE, EE), Turkey, Iran, China.

Biosteres (Biosteres) magnicornis (Wesmael, 1835) [Opus]. Russia: **EP** (NW). – Europe (WE, NE, EE).

Biosteres (Biosteres) micans (Stelfox, 1957) [Opus] (*Opus nitidus* Stelfox, 1949). Russia: **FE** (PR, SA). – Europe (WE, NE, EE).

Biosteres (Biosteres) placidus (Haliday, 1837) [Opus] (*Opus melanocerus* Wesmael, 1838; *O. tarsator* Thomson, 1895; *Biosteres indotatus* Viereck, 1905). Endoparasitoid of *Botanophila phrenione* Seguy and *Pegomya solennis* Mg. (Anthomyiidae). Russia: **EP** (NW, C), **WS** (TK), **ES** (YA), **FE** (PR, SA). – Europe (WE, NE, EE), N America.

Biosteres (Biosteres) remigii Fischer, 1971 (*Diachasma disputabilis* Papp, 1978). Russia: **ES** (BR, ZB). – Europe (EE), Armenia, Turkey, Iran, Mongolia, Korean Peninsula.

- Biosteres (Biosteres) sibiricus** Tobias, 1998. Russia: **ES** (IR), **FE** (KA).
- Biosteres (Biosteres) spinaciae** (Thomson, 1895) [Opus] (*Opius pegomyiae* Gahan, 1917; *O. hyoscyamiellus* Viereck, 1925). Endoparasitoid of dipteran larvae from the genera *Delia* and *Pegomya* (Anthomyiidae). Russia: **EP** (NW, C, S, NC). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, N America.
- Biosteres (Biosteres) urbani** Fischer, 1971. Russia: **ES** (YA). – Europe (EE), Turkey, Mongolia.
- Biosteres (Chilotrichia) altaiensis** (Jakimavicius, 1986) [Opus]. Russia: **WS** (AL).
- Biosteres (Chilotrichia) arenarius** (Stelfox, 1959) [Opus]. Russia: **FE** (PR, KA). – Europe (WE, EE).
- Biosteres (Chilotrichia) blandus** (Haliday, 1837) [Opus]. Endoparasitoid of dipteran larvae from the genus *Agromyza* (Agromyzidae). Russia: **EP** (N, C, NC, CR), **ES** (IR, BR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Uzbekistan, Kazakhstan, Mongolia.
- Biosteres (Chilotrichia) borealis** (Zetterstedt, 1838) [Bracon]. Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Biosteres (Chilotrichia) bremeri** (Bengtsson, 1926) [Diachasma]. Endoparasitoid of *Pegomya hyoscyami* Pz. (Anthomyiidae). Russia: **EP** (NW, E). – Europe (WE), Georgia.
- Biosteres (Chilotrichia) brevipalpis** (Thomson, 1895) [Opus] (*Opius gyoerffii* Fischer, 1958; *O. mutus* Fisher, 1964). Endoparasitoid of *Agromyza hendeli* Griff. (Agromyzidae) and *Delia quadripila* Stein (Anthomyiidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Biosteres (Chilotrichia) cubocephalus** Telenga, 1950. Russia: **EP** (NW).
- Biosteres (Chilotrichia) haemorrhoeus** (Haliday, 1837) [Opus] (*Opius castaneiventris* Thomson, 1895; *Biosteres palaearticus* Szépligeti, 1901). Endoparasitoid of dipteran larvae from the genus *Pegomya* (Anthomyiidae). **EP** (NW, C), **WS** (TM), **ES** (IR). – Europe (WE, NE, SE, EE), Abkhazia, Georgia, Turkey, Iran, N America.
- Biosteres (Chilotrichia) punctiscuta** (Thomson, 1895) [Opus] (*Opius moldavicus* Jakimavicius, 1977). Russia: **EP** (C), **FE** (KA). – Europe (WE, NE, EE), Turkey, Iran, Korean Peninsula.
- Biosteres (Chilotrichia) punctivertex** (Fischer, 1964) [Opus]. Russia: ? **EP** (NW). – Tunisia.
- Biosteres (Chilotrichia) rectinotaulis** Fischer, 1998. Russia: **FE** (SA).
- Biosteres (Chilotrichia) rusticus** (Haliday, 1837) [Opus]. Endoparasitoid of dipteran larvae from the genera *Delia*, *Pegomya* and *Phorbia* (Anthomyiidae). Russia: **EP** (NW, C, E), **UR**, **WS** (TM, AL), **ES** (BR, ZB), **FE** (SA, KU, KA). – Europe (WE, NE, EE), Turkey, Iran, Uzbekistan.
- Biosteres (Chilotrichia) scabriculus** (Wesmael, 1835) [Opus]. Russia: **EP** (N). – Europe (WE, NE, SE, EE), Turkey.
- Biosteres (Chilotrichia) subxantippe** Tobias, 1998. Russia: **FE** (SA, KA).
- Biosteres (Chilotrichia) sylvaticus** (Haliday, 1837) [Opus] (*Opius clypealis* Thomson, 1895; *Biosteres nitidus* Szépligeti, 1896). Endoparasitoid of *Pegomya hyoscyami* Pz. (Anthomyiidae). Russia: **EP** (N, C). – Europe (WE, NE, EE), Armenia, Turkey, Uzbekistan.
- Biosteres (Chilotrichia) wesmaelii** (Haliday, 1837) [Opus] (*Opius carbonarius* Wesmael, 1835; *O. jonaitisi* Jakimavicius, 1977). Endoparasitoid of dipteran larvae from the genera *Delia*, *Fucellia* and *Pegomya* (Anthomyiidae). Russia: **EP** (N, NW, C), **WS** (TM), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey, Iran, Uzbekistan, China (NC).
- DIACHASMA** Foerster, 1862 (*Atoreuteus* Foerster, 1863; *Lytacra* Foerster, 1863; *Alysopius* Tobias, 1976). Type species: *Opius fulgidus* Haliday, 1837. Medium-sized genus, its members distributed in the Holarctic and Australasian regions; endoparasitoids of flies mainly from the families Anthomyiidae and Tephritidae. Number of species: World – 32, Palearctic – 19, Russia – 6.
- Diachasma compressigaster** Fischer, 1986 (*Alysopius compressiventris* Tobias, 1976). Russia: **EP** (NC). – Europe (EE).
- Diachasma compressiventre** (Fischer, 1964) [Opus]. Russia: **FE** (PR). – Europe (WE).
- Diachasma compressum** Tobias, 1998. Russia: **FE** (PR).
- Diachasma farcium** Tobias, 1998. Russia: **FE** (PR).
- Diachasma semistriatum** Tobias, 1998. Russia: **FE** (PR, SA).
- Diachasma striatitergum** Tobias, 1998. Russia: **FE** (PR).

Tribe OPIINI

- ADEMON** Haliday, 1833 (*Lytacra* Foerster, 1863; *Giardinia* de Stefani, 1902; *Analostania* Viereck, 1916). Type species: *Bracon decrescens* Nees, 1811. Small and morphologically separated genus distributed in the Holarctic, Oriental (South China, Vietnam) and Afrotropical regions. Number of species: World – 11, Palearctic – 2, Russia – 1.
- Ademon decrescens** (Nees, 1811) [Bracon] (*Bracon mutuator* Nees, 1811). Endoparasitoid of the dipteran larvae from the genus *Hydrellia* (Ephydriidae). Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, SE, EE), Uzbekistan, Mongolia, Vietnam.
- APODESMIA** Foerster, 1863 (*Agnopius* Foerster, 1863; *Allotypus* Foerster, 1863; *Lemnaphilopius* Fischer, 1972; *Cryptognathopius* Fischer, 1984). Type species: *Apodessmia taeniata* Foerster, 1863 (= *Opius rufipes* Wesmael, 1835). Large genus with worldwide distribution, long time was considered only as subgenus of *Opius* Wesmael; endoparasitoids of flies mainly from the families Agromyzidae, Anthomyiidae and Tephritidae. Number of species: World – 112, Palearctic – 86, Russia – 57.

- Apodesmia ambita** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
Apodesmia angustata (Tobias, 1998) [Opus]. Russia: **FE** (PR, SA, KU).
Apodesmia austriaca (Fischer, 1958) [Opus]. Russia: **FE** (PR, KU, KA). – Europe (WE, NE, SE, EE), Turkey.
Apodesmia brunnicoxis (Tobias, 1998) [Opus]. Russia: **FE** (KA).
Apodesmia cinnamea (Tobias, 1998) [Opus]. Russia: **FE** (KA).
Apodesmia cisoperta (Tobias, 1998) [Opus]. Russia: **FE** (PR).
Apodesmia contabunda (Tobias, 1998) [Opus]. Russia: **FE** (KH).
Apodesmia curvata (Fischer, 1957) [Opus]. Endoparasitoid of dipteran larvae from the genus *Phytomyza* (Agromyzidae). Russia: **UR**. – Europe (WE, NE, SE, EE), Armenia, Kazakhstan.
Apodesmia daghestanica (Telenga, 1950) [Opus]. Russia: **EP** (NC), **ES** (ZB), **FE** (PR). – Europe (EE).
Apodesmia damnosa (Papp, 1980) [Opus]. Russia: **FE** (PR). – Iran, Korean Peninsula, India.
Apodesmia diabolica (Fischer, 1961) [Opus]. Russia: **FE** (PR, KU). – Europe (WE, NE, SE).
Apodesmia dolichura (Tobias, 1998) [Opus]. Russia: **FE** (PR).
Apodesmia egena (Tobias, 1998) [Opus]. Russia: **FE** (PR).
Apodesmia flavitestacea (Fischer, 1958) [Opus]. Russia: **EP** (C). – Europe (WE, SE).
Apodesmia geniculata (Thomson, 1895) [Opus] (*Opus albicoxis* Marshall, 1898). Endoparasitoid of *Trypeta immaculata* Mcq. and *Vidalia cornuta* Scop. (Tephritidae). Russia: **EP** (N, C, NC), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, Japan.
Apodesmia hirsuta (Tobias, 1998) [Opus]. Russia: **FE** (PR).
Apodesmia incisulus (Fischer, 1964) [Opus]. Russia: **UR**. – Europe (WE).
Apodesmia instabiloides (Fischer, 1959) [Opus]. Russia: **FE** (PR). – Europe (WE).
Apodesmia insularis (Tobias, 1998) [Opus] (*Opus insularis* Tobias, 2004). Russia: **ES** (ZB), **FE** (PR, SA, KU).
Apodesmia irregularis (Wesmael, 1835) [Opus] (*Opus bipustulatus* Fischer, 1958). Endoparasitoid of dipteran larvae from the genera *Chromatomyia* (Agromyzidae), *Pegomya* (Anthomyiidae), *Asphondylia* (Cecidomyiidae), *Hydrellia* (Ephydriidae) and *Tephritis* (Tephritidae). Russia: **EP** (NW, NC), **UR**, **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Kazakhstan, Korean Peninsula, Japan, N America.
Apodesmia kurilensis (Tobias, 1998) [Opus]. Russia: **FE** (KU).
Apodesmia leucofasciata (Tobias, 1998) [Opus]. Russia: **FE** (KU).
Apodesmia leucoventris (Tobias, 1998) [Opus]. Russia: **FE** (PR).
Apodesmia magnicaudata (Tobias, 1998) [Opus]. Russia: **ES** (BR), **FE** (KA).
Apodesmia mariae (Tobias, 1977) [Opus]. Endoparasitoid of *Flaviludia echinopanacis* Kandybina, *Myioleja sinensis* Zia and *Rhagoletis reducta* Hering (Tephritidae). Russia: **FE** (PR).
Apodesmia obversa (Tobias, 1998) [Opus]. Russia: **FE** (KA).
Apodesmia ocellata (Wesmael, 1835) [Opus] (*Opus areolaris* Thomson, 1895; *O. hungaricus* Szépligeti, 1896; *O. brutus* Papp, 1978). Endoparasitoid of *Euleia heraclei* L. (Tephritidae). Russia: **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Korean Peninsula.
Apodesmia operta (Tobias, 1998) [Opus]. Russia: **FE** (PR, KU).
Apodesmia opertanea (Tobias, 1998) [Opus]. Russia: **FE** (PR).
Apodesmia ostentanea (Tobias, 1998) [Opus]. Russia: **FE** (PR, SA).
Apodesmia partisanskiensis (Fischer, 1999) [Opus]. Russia: **FE** (PR).
Apodesmia phantastica (Fischer, 1959) [Opus]. Russia: **FE** (PR). – Europe (WE).
Apodesmia pilifer (Tobias, 1998) [Opus]. Russia: **FE** (PR).
Apodesmia polyzonina (Wesmael, 1835) [Opus]. Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Amauromyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (NW), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N America.
Apodesmia porrecta (Papp, 1978) [Opus]. Russia: **FE** (PR). – Korean Peninsula.
Apodesmia rex (Fischer, 1958) [Opus]. Endoparasitoid of numerous dipteran species from the genera *Agromyza*, *Cerodontha*, *Liriomyza*, *Phytomyza*, etc. (Agromyzidae). Russia: **ES** (ZB), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, Korean Peninsula.
Apodesmia rufipes (Wesmael, 1835) [Opus] (*Apodesmia taeniata* Foerster, 1863). Endoparasitoid of dipteran larvae from the genera *Agromyza* (Agromyzidae) and *Pegomya* (Anthomyiidae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE).
Apodesmia saeva (Haliday, 1837) [Opus]. Endoparasitoid of *Nemorimyza posticata* Mg. (Agromyzidae). Russia: **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Armenia, Turkey, Korean Peninsula.
Apodesmia saevula (Fischer, 1958) [Opus]. Endoparasitoid of *Parallelomma vittatum* Mg. (Scathophagidae) and *Euleia heraclei* L. (Tephritidae). Russia: **ES** (ZB), **FE** (PR, KU). – Europe (WE, NE, EE).
Apodesmia saltator (Telenga, 1950) [Opus]. Russia: **FE** (AM, PR). – Europe (EE), Mongolia, China (NE).
Apodesmia sapporana (Fischer, 1963) [Opus]. Russia: **FE** (KH, PR, SA, KU). – Korean Peninsula, Japan.
Apodesmia semitestacea (Tobias, 1998) [Opus]. Russia: **FE** (PR).
Apodesmia similis (Szépligeti, 1898) [Opus] (*Opus xylostei* Marshall, 1897; *O. similiformis* Fischer, 1957; *O. basirufus* Fischer, 1958; *O. nodatus* Fischer, 1958; *O. periclymenii* Fischer, 1964; *O. altimontanus* Fischer, 1969).

- Endoparasitoid of numerous dipteran species from the genera *Agromyza*, *Cerodontha*, *Chromatomyia*, *Liriomyza*, *Phytomyza*, etc. (Agromyzidae). Russia: **EP** (N, NW, C, NC, CR), **UR**, **ES** (IR, BR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, Kazakhstan.
- Apodesmia similoides** (Fischer, 1962) [Opus]. Russia: **EP** (NW), **UR**, **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey.
- Apodesmia striatula** (Fischer, 1957) [Opus]. Russia: **FE** (KH). – Europe (WE, EE).
- Apodesmia subpulicariae** (Tobias, 1998) [Opus]. Russia: **ES** (IR), **FE** (PR).
- Apodesmia subreconditor** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Apodesmia subvitellina** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Apodesmia sycophanta** (Tobias, 2000) [Opus]. Russia: **FE** (PR).
- Apodesmia tirolensis** (Fischer, 1958) [Opus]. Endoparasitoid of *Phytomyza flavicornis* Fll. (Agromyzidae). Russia: **EP** (NW), **UR**. – Europe (WE, NE, SE, EE), Turkey.
- Apodesmia transversoclypealis** (Tobias, 1998) [Opus]. Russia: **ES** (ZB).
- Apodesmia tshitensis** (Tobias, 1998) [Opus]. Russia: **ES** (ZB).
- Apodesmia tshutshurmuranica** (Tobias, 1998) [Opus]. Russia: **ES** (YA).
- Apodesmia tuberculata** (Fischer, 1959) [Opus]. Russia: **FE** (PR, KU). – Europe (WE, NE, EE), Turkey, Iran.
- Apodesmia uttoisimilis** (Fischer, 1999) [Opus]. Russia: **FE** (SA, KU). – Turkey, Iran.
- Apodesmia uvarovi** (Tobias, 1986) [Opus]. Russia: **EP** (NC). – Europe (EE).
- Apodesmia vulcanicus** (Tobias, 1998) [Opus]. Russia: **FE** (KU).
- ATORMUS** van Achterberg, 1997. Type species: *Opius victus* Haliday, 1837. Monotypic Palaearctic genus; parasitoids of flies from the family Agromyzidae.
- Atormus victus** (Haliday, 1837) [Opus] (*Opius tarni* Papp, 1982). Endoparasitoid of dipteran species from the genera *Agromyza*, *Cerodontha*, *Chromatomyia*, *Liriomyza*, *Phytomyza*, etc. (Agromyzidae). Russia: **EP** (NW, C), **UR**, **ES** (IR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Iran, Mongolia.
- BIOPHTHORA** Foerster, 1863. Type species: *Opius bajulus* Haliday, 1837. Small Western Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.
- Biophthora rossica** (Szépligeti, 1901) [Opus]. Russia: **EP** (E). – Europe (SE, EE), Turkey.
- BITOMUS** Szépligeti, 1910 (*Coleopius* Fischer, 1964). Type species: *Bitomus braconinus* Szépligeti, 1910. Relatively small genus distributed in the Old World, parasitoids of dipteran larvae from the family Agromyzidae. Consist from two subgenera, *Bitomus* s. str. and *Coleopius* Fischer, 1964. Number of species: World – 24, Palaearctic – 10, Russia – 4.
- Bitomus (Bitomus) castus** (Zaykov, 1983) [Opus]. Russia: **FE** (PR). – Europe (EE), Turkey.
- Bitomus (Bitomus) glabronotum** Tobias, 1998. Russia: **FE** (PR).
- Bitomus (Bitomus) pamboloides** (Tobias, 1986) [Opus]. Russia: **FE** (PR). – Europe (SE, EE), Turkey, Turkmenistan.
- Bitomus (Bitomus) pappi** Tobias, 1998. Russia: **FE** (PR).
- DIACHASMIMORPHA** Viereck, 1913. Type species: *Diachasmimorpha comperei* Viereck, 1913. Relatively large genus with almost worldwide distribution; parasitoids of flies from the family Tephritidae; consists of two subgenera, *Diachasmimorpha* s. str. and *Parasteres* Fischer, 1967. Number of species: World – 52, Palaearctic – 21, Russia – 15.
- Diachasmimorpha (Diachasmimorpha) flavoflagellaris** (Tobias, 1998) [Biosteres]. Russia: **FE** (KU).
- Diachasmimorpha (Diachasmimorpha) irkutensis** (Tobias, 1998) [Biosteres]. Russia: **ES** (IR).
- Diachasmimorpha (Diachasmimorpha) kalgae** (Tobias, 1998) [Biosteres]. Russia: **ES** (ZB).
- Diachasmimorpha (Diachasmimorpha) kaspanyi** Tobias, 2000. Russia: **FE** (KH).
- Diachasmimorpha (Diachasmimorpha) kerzhneri** (Tobias, 1998) [Biosteres]. Russia: **FE** (KU).
- Diachasmimorpha (Diachasmimorpha) nigrorubra** (Tobias, 1998) [Biosteres]. Russia: **FE** (PR).
- Diachasmimorpha (Diachasmimorpha) olgae** (Tobias, 1998) [Biosteres]. Russia: **FE** (PR).
- Diachasmimorpha (Diachasmimorpha) paeoniae** (Tobias, 1980) [Opus] (*Biosteres flavocapitis* Tobias, 1998). Russia: **FE** (PR). – Turkey.
- Diachasmimorpha (Diachasmimorpha) rubronigra** (Tobias, 1998) [Biosteres]. Russia: **FE** (PR).
- Diachasmimorpha (Diachasmimorpha) rubrosoma** (Tobias, 1998) [Biosteres]. Russia: **FE** (PR).
- Diachasmimorpha (Diachasmimorpha) semibrunnea** (Tobias, 1998) [Biosteres]. Russia: **FE** (PR).
- Diachasmimorpha (Diachasmimorpha) sinuata** (Tobias, 1998) [Biosteres]. Russia: **FE** (PR).
- Diachasmimorpha (Diachasmimorpha) terebrator** (Tobias, 1998) [Biosteres]. Russia: **FE** (PR).
- Diachasmimorpha (Parasteres) budrysi** van Achterberg, 1999. Russia: **FE** (PR, SA).
- Diachasmimorpha (Parasteres) longicauda** (Shestakov, 1940) [Diachasma] (*Biosteres shestakovi* Fischer, 1972). Russia: **FE** (PR).
- EURYTENES** Foerster, 1862. Type species: *Opius abnormis* Wesmael, 1835. Small genus distributed in the Holarctic, Oriental and Neotropical regions and includes

two subgenera, *Eurytenes* s. str. and *Stigmatopoea* Fischer, 1986. Endoparasitoids of flies mainly from the family Agromyzidae. Number of species: World – 19, Palaearctic – 7, Russia – 3.

Eurytenes (Eurytenes) abnormis (Wesmael, 1835) [Opus]. Endoparasitoid of flies mainly from the genera *Agromyza*, *Amauromyza*, *Cerodontha*, *Liriomyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (C, E, NC), **UR**, **FE** (PR, KU). – Europe (WE, NE, SE, EE), Turkey, Iran, Korean Peninsula, N America.

Eurytenes (Stigmatopoea) cinctiventris (Fischer, 1959) [Opus]. Endoparasitoid of *Parallelomma vittatum* Mg. (Scathophagidae). Russia: **EP** (C), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, EE).

Eurytenes (Stigmatopoea) cubitalis (Fischer, 1959) [Opus]. Russia: **FE** (PR, SA, KU). – Europe (WE, NE, EE), Korean Peninsula, Japan.

FOPIUS Wharton, 1987. Type species: *Rhynchoseres silvestrii* Wharton, 1987. Medium-sized and almost worldwide distributed genus. Endoparasitoids of flies from the family Tephritidae. Number of species: World – 38, Palaearctic – 8, Russia – 4.

Fopius alternatae (Tobias, 1977) [Opus]. Endoparasitoid of *Rhagoletis alternata* Fll. (Tephritidae). Russia: **FE** (PR).

Fopius kotenkoi Tobias, 2000. Russia: **FE** (KU).

Fopius myolejae (Tobias, 1977) [Opus]. Endoparasitoid of *Myoleja sinensis* Zia and *Rhagoletis alternata* Fll. (Tephritidae). Russia: **FE** (PR).

Fopius subalternatae (Tobias, 1998) [Biosteres]. Russia: **FE** (PR).

NIPPONOPIUS Fischer, 1963. Type species: *Nipponopius incisus* Fischer, 1963. Monotypical Eastern Palaearctic genus.

Nipponopius incisus Fischer, 1963. Russia: **FE** (KU). – Japan.

OPIOGNATHUS Fischer, 1972. Type species: *Opius pactus* Haliday, 1837. Medium-sized and worldwide distributed genus. Endoparasitoids of flies from the family Agromyzidae. Number of species: World – 30, Palaearctic – 12, Russia – 2.

Opiognathus adversus (Papp, 1980) [Opus]. Russia: **FE** (KH, PR). – Korean Peninsula.

Opiognathus propodealis (Fischer, 1958) [Opus]. Endoparasitoid of flies from the genera *Agromyza*, *Amauromyza*, *Chromatomyia*, *Liriomyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (C, NC), **UR**, **ES** (IR, ZB), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Turkey, Iran, Korean Peninsula.

OPIOSTOMUS Fischer, 1972. Type species: *Opius kovacsi* Fischer, 1963. Medium-sized and worldwide distributed genus with five subgenera, *Jucundopius* Fischer, 1984, *Oetzelotenes* Fischer, 1997, *Opiostomus*

s. str., *Opiotenes* Fischer, 1998 and *Snoflakopius* Fischer, 1972. Endoparasitoids of flies from the family Agromyzidae. Number of species: World – 42, Palaearctic – 31, Russia – 22.

Opiostomus (Jucundopius) campanariae (Fischer, 1959) [Opus]. Endoparasitoid of dipteran larvae from the genera *Aulagromyza*, *Phytoliriomyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (C, CR), **UR**, **FE** (PR, KU, KA, CH). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran, Uzbekistan, Kazakhstan, Mongolia.

Opiostomus (Jucundopius) impatientis (Fischer, 1957) [Opus]. Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Aulagromyza*, *Napomyza* and *Phytoliriomyza* (Agromyzidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Armenia, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia.

Opiostomus (Jucundopius) longiradialis (Fischer, 1957) [Opus]. Endoparasitoid of *Phytomyza cytisi* Brischke (Agromyzidae). Russia: **WS/ES** ("Siberia": Tobias et al., 1986b). – Europe (WE, NE, SE, EE).

Opiostomus (Opiostomus) acuticlypealis (Tobias, 1998) [Opus]. Russia: **FE** (PR).

Opiostomus (Opiostomus) angusticellularis (Tobias, 1998) [Opus]. Endoparasitoid of *Chromatomyia horticola* Gour. (Agromyzidae). Russia: **FE** (PR). – Korean Peninsula.

Opiostomus (Opiostomus) aureliae (Fischer, 1957) [Opus] (*Opius oetzelicola* Fischer, 1997). Russia: **EP** (C), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), China (CC), N America.

Opiostomus (Opiostomus) basirufulus (Tobias, 1998) [Opus]. Russia: **FE** (PR).

Opiostomus (Opiostomus) carinifacialis (Tobias, 1998) [Opus]. Russia: **FE** (PR).

Opiostomus (Opiostomus) chrysostigmus (Tobias, 1998) [Opus]. Russia: **FE** (KH, PR).

Opiostomus (Opiostomus) clausus (Fischer, 1958) [Opus]. Russia: **FE** (PR). – Europe (WE, SE, EE), Korean Peninsula, Japan.

Opiostomus (Opiostomus) dilucidus (Tobias, 1998) [Opus]. Russia: **FE** (PR).

Opiostomus (Opiostomus) diurnus (Tobias, 1998) [Opus]. Russia: **FE** (PR, KU).

Opiostomus (Opiostomus) divinus (Tobias, 1998) [Opus]. Russia: **FE** (PR). – Turkey.

Opiostomus (Opiostomus) fraudulentus (Tobias, 1998) [Opus]. Russia: **FE** (PR).

Opiostomus (Opiostomus) granipleuris (Tobias, 1998) [Opus]. Russia: **FE** (PR).

Opiostomus (Opiostomus) ivlievi (Tobias, 1998) [Opus]. Russia: **FE** (PR).

Opiostomus (Opiostomus) megafossa (Tobias, 1998) [Opus]. Russia: **ES** (YA).

Opiostomus (Opiostomus) nadezhdae (Tobias, 1998) [Opus]. Russia: **FE** (PR).

- Opiostomus (Opiostomus) riphaeus** (Tobias, 1986) [Opus]. Russia: UR. – Iran.
- Opiostomus (Opiostomus) rufopleuris** (Tobias, 1998) [Opus]. Russia: FE (PR).
- Opiostomus (Opiostomus) subdividus** (Tobias, 1998) [Opus]. Russia: ES (BR), FE (PR).
- Opiostomus (Opiotenes) leptostigma** (Wesmael, 1835) [Opus] (*Opius percontator* Fischer, 1964). Endoparasitoid of *Agromyza albipennis* Mg. (Agromyzidae). Russia: EP (NW, C, S), FE (PR, KU, KA). – Europe (WE, NE, SE, EE), Kyrgyzstan, Kazakhstan.
- OPIUS** Wesmael, 1835. Type species: *Opius pallipes* Wesmael, 1835. Largest and worldwide distributed genus of subfamily Opiinae with 39 subgenera. Endoparasitoids of dipteran larvae mainly from the families Agromyzidae, Anthomyiidae, and Tephritidae. Number of species: World – about 1300, Palaearctic – more than 350, Russia – 143.
- Opius (Adontopius) adentatus** Fischer, 1981. Russia: FE (PR, SA). – Europe (WE, NE), Turkey, Uzbekistan.
- Opius (Allophlebus) alekhinoensis** Fischer, 1999. Russia: FE (KU).
- Opius (Allophlebus) fuscipennis** Wesmael, 1835. Endoparasitoid of *Agromyza nigriciliata* Hend. (Agromyzidae) and *Ensina sonchi* L. (Tephritidae). Russia: EP (NW), ES (ZB). – Europe (WE, NE, SE, EE), Turkey.
- Opius (Allophlebus) singularis** Wesmael, 1835 (*Opius clarus* Haliday, 1837; *O. spretus* Haliday, 1837; *O. arenosus* Szépligeti, 1898). Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Amauromyza*, *Aulagromyza*, *Cerodontha*, *Chromatomyia*, *Liriomyza* and *Phytomyza* (Agromyzidae). Russia: EP (NW, C, NC), UR, WS (TM), FE (PR). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Turkey, Iran, Mongolia, Korean Peninsula.
- Opius (Baecentrum) discreparius** Fischer, 1963. Russia: FE (PR, SA). – Korean Peninsula, Japan.
- Opius (Baecentrum) fischeri** Papp, 1981. Russia: FE (PR). – Korean Peninsula.
- Opius (Baecentrum) rugipropodealis** Fischer, 2001. Russia: FE (KU).
- Opius (Cryptonastes) gracilis** Fischer, 1957 (*Opius csikii* Fischer, 1957; *O. minor* Fischer, 1957; *O. nigrithorax* Fischer, 1958). Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Amauromyza*, *Chromatomyia*, *Liriomyza*, *Napomyza* and *Phytomyza* (Agromyzidae). Russia: EP (NW, C, E, S, NC, CR), UR, FE (PR, KU). – Europe (WE, NE, SE, EE), Tunisia, Turkey, Israel, Uzbekistan, Kazakhstan, Mongolia, Korean Peninsula.
- Opius (Cryptonastes) herbigradus** Tobias, 1998. Russia: ES (BR, ZB), FE (PR).
- Opius (Cryptonastes) lusorius** Tobias, 1998. Russia: FE (PR).
- Opius (Cryptonastes) posjeticus** Tobias, 1998. Russia: FE (PR).
- Opius (Cryptonastes) pygmaeus** Fischer, 1962. Endoparasitoid of *Liriomyza cicerinae* Rd. and *Phytomyza adjuncta* Hering (Agromyzidae). Russia: EP (NC). – Europe (WE, NE, SE, EE), Algeria, Turkey, Iran, Kazakhstan.
- Opius (Cryptonastes) subcampanariae** Tobias, 1998. Russia: FE (PR).
- Opius (Cryptonastes) tersus** (Foerster, 1863) [Cryptonastes] (*Opius consors* Fischer, 1957; *O. minimus* Fischer, 1958). Endoparasitoid of dipteran larvae from the genera *Amauromyza*, *Chromatomyia*, *Liriomyza* and *Phytomyza* (Agromyzidae). Russia: ES (ZB), FE (PR). – Europe (WE, NE, SE, EE), Algeria, Turkey, Israel, Iran, Turkmenistan, Uzbekistan, Korean Peninsula.
- Opius (Cryptonastes) vitellinus** Tobias, 1998. Russia: FE (PR, KU).
- Opius (Gastrosema) caucasi** Tobias, 1986. Endoparasitoid of *Chromatomyia horticola* Gour. (Agromyzidae). Russia: EP (NC), FE (KH, PR, KU). – Turkey, Iran, Japan.
- Opius (Gastrosema) disparens** Fischer, 1999. Russia: FE (KH).
- Opius (Gastrosema) distortus** Papp, 1980. Russia: FE (PR). – Korean Peninsula.
- Opius (Gastrosema) pumilio** Wesmael, 1835. Endoparasitoid of *Amauromyza verbasici* Bouché (Agromyzidae) and *Pegomya bicolor* Wied. (Anthomyiidae). Russia: EP (NC), FE (PR, SA, KU). – Europe (WE, SE, EE), Turkey, Iran, Korean Peninsula.
- Opius (Hypocynodus) ponticus** Fischer, 1958. Russia: EP (E). – Europe (WE), Turkey, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan.
- Opius (Kainopaeopius) crassicus** Thomson, 1895. Russia: EP (NW). – Europe (WE, NE, SE, EE).
- Opius (Merotrachys) laetatorius** Fischer, 1958. Russia: EP (C), FE (PR). – Europe (WE, SE, EE), Turkey.
- Opius (Misophthora) compar** Marshall, 1891 (*Opius pulcherrithorax* Marshall, 1891). Russia: EP (C). – Europe (WE, EE).
- Opius (Misophthora) interpunctatus** Fischer, 1999. Russia: FE (SA).
- Opius (Misophthora) mischiformis** Fischer, 1999 (*Opius mishiformis* auct.). Russia: FE (KU).
- Opius (Misophthora) ocellus** Telenga, 1950. Russia: EP (C). – Europe (EE), Turkey, Iran.
- Opius (Misophthora) protractiterebrus** Fischer, 2001. Russia: FE (SA, KU).
- Opius (Misophthora) pulicariae** Fischer, 1969. Endoparasitoid of dipteran larvae from the genera *Chromatomyia*, *Ophiomyia* and *Phytomyza* (Agromyzidae). Russia: ES (IR). – Europe (WE, NE, SE, EE), Armenia.
- Opius (Misophthora) rufimixtus** Fischer, 1958. Russia: FE (PR). – Europe (WE, SE, EE).
- Opius (Misophthora) subaffinis** Fischer, 1962. Russia: UR. – Europe (WE, EE).
- Opius (Nosopaeopius) extremorientis** Fischer, 1999. Russia: FE (PR).

- Opius (Nosopoea) ambiguus** Wesmael, 1835 (*Opius celsus* Haliday, 1837; *O. longipes* Fischer, 1957; *O. phytomyzae* Fischer, 1957; *O. reptantis* Fischer, 1957). Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Cerodontha*, *Chromatomyia*, *Liriomyza*, *Nemorimyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (NW, C), **UR**, **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, China (NC), Korean Peninsula.
- Opius (Nosopoea) areatus** Tobias, 1986. Russia: **UR**.
- Opius (Nosopoea) cingulatus** Wesmael, 1835 (*Opius dentifer* Thomson, 1895; *O. stramineipes* Thomson, 1895). Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Amauromyza*, *Cerodontha*, *Chromatomyia*, *Galio-myza*, *Ophiomyia* and *Phytomyza* (Agromyzidae), *Euleia* and *Trypeta* (Tephritidae). Russia: **EP** (NW, C, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Turkey, Israel, Iran.
- Opius (Nosopoea) circulator** (Nees, 1834) [Bracon] (*Opius eversus* Papp, 1981). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Korean Peninsula.
- Opius (Nosopoea) helios** Fischer, 1959. Russia: **EP** (S). – Europe (EE), Kazakhstan.
- Opius (Nosopoea) speciosus** Fischer, 1959. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran.
- Opius (Nosopoea) subcirculator** Tobias, 1986. Russia: **UR**.
- Opius (Nosopoea) tuberculifer** Fischer, 1958. Russia: **FE** (PR). – Europe (WE, NE, EE), Turkey.
- Opius (Odontopoea) connivens** Thomson, 1895 (*Opius foveola* Fischer, 1967). Endoparasitoid of *Aulagromyza similis* Brischke (Agromyzidae). Russia: **EP** (NW, C). – Europe (WE, NE, EE), Turkey, Iran.
- Opius (Opiothorax) inflammatus** Fischer, 1963. Russia: **FE** (PR). – Europe (WE, NE, SE).
- Opius (Opiothorax) levis** Wesmael, 1835 (*Bracon apiculator* Nees, 1834; *Opius filicornis* Thomson, 1895; *O. varipes* Szépligeti, 1898). Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Liriomyza*, *Phytomyza* and *Scaptomyza* (Agromyzidae), *Hydrellia* (Ephydriidae). Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Algeria, Turkey, Israel, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, Korean Peninsula, Ethiopia.
- Opius (Opiothorax) longicornis** Thomson, 1895 (*Opius caudifer* Fischer, 1958). Endoparasitoid of *Phytomyza isais* Hering (Agromyzidae). Russia: **EP** (N, NW, C, E), **UR**. – Europe (WE, NE, SE, EE), Turkey, Iran.
- Opius (Opiothorax) loniceræ** Fischer, 1958. Endoparasitoid of dipteran larvae from the genera *Amauromyza*, *Chromatomyia*, *Liriomyza* and *Napomyza* (Agromyzidae). Russia: **EP** (C, CR), ? **FE** (PR). – Europe (WE, SE, EE), Algeria, Turkey, Iran, Uzbekistan, Kazakhstan.
- Opius (Opiothorax) magnicauda** Fischer, 1958. Russia: **EP** (NW, E), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Uzbekistan, Kazakhstan.
- Opius (Opiothorax) nigricolor** Fischer, 1960. Endoparasitoid of *Aulagromyza buhri* Meijere (Agromyzidae). Russia: **EP** (NW, CR), **FE** (PR). – Europe (WE, SE, EE), Turkey.
- Opius (Opiothorax) phytobiae** Fischer, 1959. Endoparasitoid of *Phytoliriomyza hilarella* Zett. (Agromyzidae). Russia: **FE** (PR). – Europe (WE, SE, EE), Georgia, Korean Peninsula.
- Opius (Opiothorax) soenderupianus** Fischer, 1967. Endoparasitoid of *Cerodontha caricicola* Hering and *Phytomyza soenderupi* Hering (Agromyzidae). Russia: **EP** (NW, C, S). – Europe (WE, NE, EE), Turkey.
- Opius (Opiothorax) turcicus** Fischer, 1960. Endoparasitoid of *Agromyza lathyri* Hend., *Agromyza rondensis* Strobl and *Chromatomyia horticola* Gour. (Agromyzidae). Russia: **EP** (CR). – Europe (WE, NE, SE, EE), Algeria, Turkey, Iraq, Jordan, Israel, Iran, Mongolia, India.
- Opius (Opius) argillaceus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Opius) caricivora** Fischer, 1964. Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Cerodontha*, *Chromatomyia*, *Liriomyza*, *Napomyza*, *Phytomyza* and *Scaptomyza* (Agromyzidae). Russia: **UR**, **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, Afghanistan, China (CC, SW, SE), Korean Peninsula.
- Opius (Opius) funebris** Wesmael, 1835. Endoparasitoid of *Phytomyza cineracea* Hendel and *Ph. evanescens* Hendel (Agromyzidae). Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE).
- Opius (Opius) inopinatus** Papp, 1982. Russia: **FE** (PR). – Korean Peninsula.
- Opius (Opius) lugens** Haliday, 1837 (*Opius abscissus* Thomson, 1895; *O. obscurus* Szépligeti, 1901; *O. adveniens* Fischer, 1960). Endoparasitoid of dipteran larvae from the genera *Chromatomyia*, *Liriomyza*, *Ophiomyia* and *Phytomyza* (Agromyzidae), *Ensina sonchi* L. (Tephritidae). Russia: **EP** (C, E, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Algeria, Turkey, Israel, Iran, Mongolia, Ethiopia.
- Opius (Opius) maculimembris** Tobias, 2000 (*Opius maculipennis* Tobias, 1998). Russia: **FE** (PR).
- Opius (Opius) mediocarinatus** Fischer, 1963. Russia: **FE** (PR). – ? Spain, Korean Peninsula, Japan.
- Opius (Opius) obustus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Opius) orbiculator** (Nees, 1811). (*Opius breviscapus* Thomson, 1895). Endoparasitoid of dipteran larvae from the genus *Phytomyza* (Agromyzidae). Russia: **EP** (NW), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Mongolia.
- Opius (Opius) osogovoensis** Fischer, 1964. Russia: **EP** (NW, NC), **FE** (PR, KU). – Europe (WE, EE), Turkey.
- Opius (Opius) pallipes** Wesmael, 1835 (*Opius exilis* Haliday, 1837; *Hypolabis pallidipes* Marshall, 1872; *Opius liopleuris* Thomson, 1895; *O. piceus* Thomson, 1895; *O. extusus* Papp, 1981; *O. cisromensis* Papp, 1982). Endoparasitoid of dipteran larvae from the families Agromyzidae, Anthomyiidae, Drosophilidae and Tephritidae. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **ES** (IR, BR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia,

- Turkey, Israel, Iran, Uzbekistan, Kazakhstan, Mongolia, China (CC, SW), Korean Peninsula, N America.
- Opius (Opius) pygmaeator** (Nees, 1811) [Bracon] (*Opius ruminans* Fischer, 1957; *O. dilatatus* Fischer, 1960; *O. meracus* Fischer, 1960). Endoparasitoid of dipteran larvae from the families Agromyzidae and Tephritidae. Russia: **EP** (N, NW, NC, CR), **UR**. – Europe (WE, NE, SE, EE), Abkhazia, Georgia, Turkey, Iran.
- Opius (Opius) sperabilis** Tobias, 1998. Russia: **FE** (PR).
- Opius (Opius) transbaikalicus** Fischer, 1999. Russia: **ES** (ZB).
- Opius (Opius) vernicosus** Tobias, 1998. Russia: **ES** (ZB), **FE** (PR).
- Opius (Opius) vittatus** Shestakov, 1940. Russia: **FE** (PR).
- Opius (Pendopius) pendulus** Haliday, 1837 (*Opius latipes* Fischer, 1958). Endoparasitoid of dipteran larvae from the genera *Liriomyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Turkey, Iran, Turkmenistan, Kyrgyzstan, Kazakhstan, N America.
- Opius (Phaetrotoma) aethiops** Haliday, 1837. Endoparasitoid of *Cerodontha denticornis* Pz. and *Chromatomyia milii* Kalt. (Agromyzidae). Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, Uzbekistan.
- Opius (Phaetrotoma) basiventris** Tobias, 1998. Russia: **FE** (PR).
- Opius (Phaetrotoma) benignus** Papp, 1981. Russia: **FE** (PR). – Turkey, Korean Peninsula.
- Opius (Phaetrotoma) biroi** Fischer, 1960. Russia: **EP** (C), **FE** (PR). – Europe (WE, SE, EE), Turkey, Israel, Iran, China (NC, SW, SE), Japan (Hon).
- Opius (Phaetrotoma) brunnipes** Tobias, 1998. Russia: **FE** (PR, SA, KU).
- Opius (Phaetrotoma) chasanicus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Phaetrotoma) cisbaikalicus** Tobias, 1998. Russia: **ES** (ZB).
- Opius (Phaetrotoma) depeculator** Foerster, 1862. Russia: **EP** (NW, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Iran, Uzbekistan, Kyrgyzstan.
- Opius (Phaetrotoma) diversus** Szépligeti, 1898. Endoparasitoid of dipteran larvae from the genera *Calycomyza*, *Chromatomyia*, *Liriomyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, Uzbekistan.
- Opius (Phaetrotoma) exiguus** Wesmael, 1835. Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Calycomyza*, *Chromatomyia*, *Liriomyza*, *Phytomyza* and *Scaptomyza* (Agromyzidae). Russia: **EP** (NW, C, NC, CR), **UR**, **ES** (ZB), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Egypt, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula, India, Ethiopia, South Africa.
- Opius (Phaetrotoma) kovalevi** Tobias, 1998. Russia: **FE** (PR).
- Opius (Phaetrotoma) laesus** Tobias, 1998. Russia: **WS** (NS), **FE** (PR).
- Opius (Phaetrotoma) laetabilis** Tobias, 1998. Russia: **FE** (PR, KU).
- Opius (Phaetrotoma) laetabundus** Tobias, 1998. Russia: **ES** (ZB), **FE** (PR, SA).
- Opius (Phaetrotoma) laetificus** Tobias, 1998. Russia: **FE** (PR, KU).
- Opius (Phaetrotoma) lissotergum** Tobias, 1998. Russia: **FE** (PR).
- Opius (Phaetrotoma) luteopleuris** Tobias, 1998. Russia: **FE** (PR).
- Opius (Phaetrotoma) nitidulator** (Nees, 1834) [Bracon] (*Opius vittatus* Ruschka, 1915). Endoparasitoid of dipteran larvae from the genera *Pegomya* (Anthomyiidae), *Calliphora* and *Lucilia* (Calliphoridae) and *Musca* (Muscidae). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Libya, Egypt, Turkey, Iran, Uzbekistan, Kazakhstan, Korean Peninsula, N America.
- Opius (Phaetrotoma) ochrogaster** Wesmael, 1835 (*Opius nigriceps* Szépligeti, 1898; *O. neopusillus* Fischer, 1957). Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Amauromyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (C), **UR**. – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, Mongolia.
- Opius (Phaetrotoma) peculiaris** Tobias, 1998. Russia: **FE** (PR).
- Opius (Phaetrotoma) pentheus** Tobias, 1998. Russia: **FE** (PR, SA).
- Opius (Phaetrotoma) pulchriceps** Szépligeti, 1898 (*Opius ilicis* Nixon, 1939; *O. pulcherrimus* Fischer, 1958; *O. pulchrivertris* Fischer, 1958; *O. vexator* Fischer, 1964; *O. affectus* Papp, 1981). Endoparasitoid of dipteran larvae from the genera *Amauromyza*, *Chromatomyia*, *Liriomyza*, *Phytoliriomyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (C, S, CR), **ES** (BR), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, China (SW), Korean Peninsula, Canada, India.
- Opius (Phaetrotoma) rudis** Wesmael, 1835 (*Neopius carinateps* Gahan, 1917). Endoparasitoid of *Agromyza megalopsis* Hering and *A. nigripes* Mg. (Agromyzidae). Russia: **EP** (C, S), **FE** (PR). – Europe (WE, NE, SE, EE), Algeria, Armenia, Turkey, Iran, Uzbekistan, Korean Peninsula, N America.
- Opius (Phaetrotoma) scaptomyzae** Fischer, 1967. Endoparasitoid of *Scaptomyza graminum* Fll. (Drosophilidae). Russia: **ES** (BR). – Europe (SE), Turkey.
- Opius (Phaetrotoma) sedancus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Phaetrotoma) spurcus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Phaetrotoma) staryi** Fischer, 1958 (*Opius sitagrus* Papp, 1982). Endoparasitoid of *Aulagromyza tremulae* Hering, *Phytomyza aquilegiae* Hardy and *Ph. minuscula* Goureau (Agromyzidae). Russia: **EP** (NW), **ES** (ZB),

- FE** (PR, KU, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, Uzbekistan, Korean Peninsula.
- Opius (Phaerotoma) superlatus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Phaerotoma) turneri** Gahan, 1919. Russia: **FE** (PR). – Korean Peninsula, N America.
- Opius (Phaerotoma) variegatus** Szépligeti, 1896. Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Amauromyza*, *Cerodontha*, *Chromatomyia* and *Pegomya* (Agromyzidae). Russia: **EP** (NW, C, S, NC, CR), **UR**, **ES** (BR), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Turkey, Iraq, Kazakhstan, Mongolia.
- Opius (Phaerotoma) zomborii** Papp, 1982. Russia: **FE** (PR). – Korean Peninsula.
- Opius (Stomosema) bonatus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Stomosema) tumus** Tobias, 1998. Russia: **FE** (KH, PR).
- Opius (Thoracosema) faber** Papp, 1982 (*Opius tabetus* Papp, 1982). Russia: **ES** (IR, BR, ZB), **FE** (PR). – Korean Peninsula.
- Opius (Tolbia) amurensis** Tobias, 1998. Russia: **FE** (KH).
- Opius (Tolbia) caesus** Haliday, 1837 (*Opius punctiventris* Thomson, 1895; *O. subtilis* Szépligeti, 1898; *O. hydrelliae* Rimsky-Korsakov, 1925; *O. aquaticus* Muesebeck, 1967; *O. hydrelliae* Muesebeck, 1967; *O. hydrellianus* Fischer, 1971). Endoparasitoid of *Chromatomyia primulae* Gour. (Agromyzidae), *Scaptomyza graminum* Fll. (Drosophilidae) and *Hydrellia* sp. (Ephydriidae). Russia: **EP** (NW, S, NC), **FE** (KA). – Europe (WE, NE, SE, EE), Turkey, Syria, Israel, Tajikistan, Uzbekistan, USA, Nepal.
- Opius (Tolbia) discordiosus** Tobias, 1998. Russia: **FE** (KH).
- Opius (Tolbia) hancockanus** Fischer, 1964. Russia: **FE** (PR). – Korean Peninsula, USA.
- Opius (Tolbia) instaurativus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Tolbia) leleji** Tobias, 1998. Russia: **FE** (KU).
- Opius (Tolbia) loricatus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Tolbia) ranunculicola** Fischer, 1984. Endoparasitoid of *Phytomyza ranunculi* Schrank (Agromyzidae). Russia: **FE** (KH, PR). – Japan.
- Opius (Tolbia) remotus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Tolbia) rotundiusculus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Tolbia) rudiformis** Fischer, 1958. Russia: **EP** (NW), **FE** (PR, ? KA). – Europe (WE, NE, SE, EE), Turkey, Canada.
- Opius (Tolbia) subdocilis** Tobias, 1998. Russia: **FE** (PR).
- Opius (Tolbia) suspiciosus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Tolbia) tametus** Tobias, 1998. Russia: **FE** (KH).
- Opius (Tolbia) tortus** Tobias, 1998. Russia: **FE** (PR).
- Opius (Utetes) aemulator** Tobias, 1998. Russia: **FE** (PR).
- Opius (Utetes) annularis** Tobias, 1998. Russia: **FE** (PR).
- Opius (Utetes) caudatus** Wesmael, 1835 (*Opius exsertus* Thomson, 1895). Endoparasitoid of *Pegomya holosteeae* Hering (Anthomyiidae). Russia: **EP** (C), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Japan.
- Opius (Utetes) coracinus** Thomson, 1895 (*Opius silvicola* Szépligeti, 1896). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Opius (Utetes) curtipectus** Fischer, 1958. Endoparasitoid of *Aulagromyza populi* Kalt. (Agromyzidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Opius (Utetes) fasciatus** Thomson, 1895 (*Opius comparandus* Fischer, 1959). Russia: **EP** (C), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey.
- Opius (Utetes) ferrugator** (Goureau, 1862) (*Opius magnus* Fischer, 1958; *O. sayanicus* Tobias, 1977; *O. scrutator* Tobias, 1977). Endoparasitoid of dipteran larvae from the genera *Anomoia*, *Carpomya*, *Rhagoletis* and *Trypeta* (Tephritidae). Russia: **EP** (NC, CR), **ES** (KR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Iran, Kazakhstan.
- Opius (Utetes) fulvicollis** Thomson, 1895 (*Opius cupidus* Gahan, 1919). Endoparasitoid of *Pegomya betae* Curt. and *P. hyoscyami* Pz. (Anthomyiidae). Russia: **EP** (NW, C, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Uzbekistan, N America.
- Opius (Utetes) iturupi** Tobias, 1998. Russia: **FE** (KU).
- Opius (Utetes) kurentzovi** Tobias, 1977. Endoparasitoid of *Rhagoletis kurentsovi* Rhod. (Tephritidae). Russia: **WS** (NS), **FE** (AM, KH, PR).
- Opius (Utetes) mediosulcatus** Tobias, 1998. Russia: **FE** (PR, KU).
- Opius (Utetes) nocturnus** Tobias, 1998. Russia: **FE** (PR, SA).
- Opius (Utetes) obvious** Tobias, 1998. Russia: **FE** (PR).
- Opius (Utetes) ochropus** Thomson, 1895. Russia: **EP** (NW). – Europe (WE, NE).
- Opius (Utetes) ochrosoma** Tobias, 1998. Russia: **FE** (PR).
- Opius (Utetes) orbiculiventris** Tobias, 1998. Russia: **FE** (PR, SA).
- Opius (Utetes) posticatae** Fischer, 1957 (*Opius seebensteiniensis* Fischer, 1959; *O. hilaris* Fischer, 1963; *O. hostium* Fischer, 1964). Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Aulagromyza*, *Cerodontha*, *Chromatomyia*, *Liriomyza*, *Ophiomyia* and *Pegomya* (Agromyzidae). Russia: **EP** (NW, C), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Israel, Korean Peninsula.
- Opius (Utetes) precursorius** Tobias, 1998. Russia: **FE** (PR).
- Opius (Utetes) rosae** Tobias, 1977. Endoparasitoid of *Rhagoletis alternata* Fll. (Tephritidae). Russia: **EP** (NW, C), **WS** (NS), **FE** (AM, KH).
- Opius (Utetes) rotundiventris** Thomson, 1895. Endoparasitoid of dipteran larvae from the genera *Agromyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (N, C, S, CR), **WS** (TM), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula, Japan.
- Opius (Utetes) ruficeps** Wesmael, 1835. Endoparasitoid of dipteran larvae from the genera *Agromyza* (Agromyzidae) and *Pegomya* (Anthomyiidae). Russia: **EP** (NW, C), **ES** (YA), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Syria, Korean Peninsula.

- Opius (Utetes) semifusus** Tobias, 1998. Russia: **FE** (PR).
Opius (Utetes) subochrosoma Tobias, 1998. Russia: **FE** (PR).
Opius (Utetes) trisulcatus Tobias, 1998. Russia: **FE** (PR).
Opius (Utetes) trisulcus Thomson, 1895. Russia: **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE).
Opius (Utetes) truncatus Wesmael, 1835. Endoparasitoid of *Trypeta artemisiae* F. and *T. zoe* Mg. (Tephritidae). Russia: **EP** (NW, C), **FE** (PR). – Europe (WE, NE, EE), Armenia, Turkey, Iran, Mongolia.
Opius (Utetes) ussuriensis Tobias, 1998. Endoparasitoid of *Rhagoletis reducta* Hering (Tephritidae). Russia: **ES** (BR), **FE** (PR, SA). – Turkey.
Opius (Utetes) zelotes Marshall, 1891 (*Opius insertus* Fischer, 1971). Endoparasitoid of *Pegomya hylosteeae* Hering (Anthomyiidae). Russia: **EP** (without region), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Japan.
- ORIENTOPIUS** Fischer, 1966. Type species: *Orientopius curiosigaster* Fischer, 1966. Small genus mainly distributed in the Eastern Palaearctic, Oriental and Australasian regions. Endoparasitoids of flies from the family Agromyzidae. Number of species: World – 16, Palaearctic – 8, Russia – 7.
- Orientopius belokobylskii** Tobias, 1998. Russia: **FE** (PR).
Orientopius flavicapitis Tobias, 1998. Russia: **FE** (PR).
Orientopius flavicornis Tobias, 1998. Russia: **FE** (PR).
Orientopius nadezhdae Tobias, 1998. Russia: **FE** (PR).
Orientopius quadratus Tobias, 1998. Russia: **FE** (PR).
Orientopius sculpticapitis Tobias, 1998. Russia: **FE** (PR).
Orientopius semilissus Tobias, 1998. Russia: **FE** (PR).
- PSYTTALIA** Walker, 1860 (*Mesostoma* Cameron, 1905; *Marginopius* Fahringer, 1935). Type species: *Psytalia testacea* Walker, 1860. Medium-sized and almost worldwide distributed genus with two subgenera: *Austroopius* Szépligeti, 1900 and *Psytalia* s. str. Endoparasitoids of flies mainly from the family Tephritidae. Number of species: World – 76, Palaearctic – 16, Russia – 10.
- Psytalia (Psytalia) brevitemporalis** (Tobias, 1998) [Opius]. Endoparasitoid of ? *Myrteia sinensis* Zia (Tephritidae). Russia: **FE** (PR).
Psytalia (Psytalia) carinata (Thomson, 1895) [Opius] (*Opius rhagoleticolus* Sachtleben, 1934). Endoparasitoid of *Carpomya schineri* Loew, *Myoleja lucida* Fl. and *Rhagoletis* species (Tephritidae). Russia: **EP** (NW, C, NC), **UR**, **WS** (TK, NS, AL), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Uzbekistan, Kyrgyzstan, Kazakhstan.
Psytalia (Psytalia) cyclogaster (Thomson, 1895) [Opius]. Russia: **EP** (S), **UR**, **WS** (AL). – Europe (WE), Kazakhstan, Korean Peninsula.
Psytalia (Psytalia) cyclogastroides (Tobias, 1998) [Opius]. Russia: **FE** (PR).
- Psytalia (Psytalia) darasunica** (Tobias, 1998) [Opius]. Russia: **ES** (ZB).
Psytalia (Psytalia) ophthalmica (Tobias, 1998) [Opius]. Russia: **FE** (PR).
Psytalia (Psytalia) romani (Fahringer, 1935) [Opius]. Russia: **FE** (AM, PR). – China (NC), Korean Peninsula, Japan.
Psytalia (Psytalia) sakhalinica (Tobias, 1998) [Opius]. Russia: **FE** (SA, KU).
Psytalia (Psytalia) subcyclogaster (Tobias, 1998) [Opius]. Russia: **ES** (ZB).
Psytalia (Psytalia) vacua (Tobias, 1998) [Opius]. Russia: **FE** (PR). – Japan (Kyu).
- RHOADOPSIS** Brèthes, 1913 (*Lissosema* Fischer, 1972). Type species: *Rhagadopsis miniacea* Brèthes, 1913. Relatively large and almost worldwide distributed genus. Endoparasitoids of flies mainly from the family Agromyzidae. Number of species: World – 80, Palaearctic – 6, Russia – 3.
- Rhagadopsis parvungula** (Thomson, 1895) [Opius]. Endoparasitoid of dipteran larvae from the genera *Agromyza* and *Cerodontha* (Agromyzidae). Russia: **EP** (NW), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula.
Rhagadopsis reconditor (Wesmael, 1835) [Opius] (*Opius docilis* Haliday, 1837). Endoparasitoid of dipteran larvae from the genera *Agromyza*, *Amauromyza*, *Napomyza* and *Phytomyza* (Agromyzidae). Russia: **EP** (NW, C), **UR**, **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan.
Rhagadopsis unicarinata (Fischer, 1959) [Opius]. Russia: **FE** (PR).
- XYNOBIUS** Foerster, 1863 (*Aclisis* Foerster, 1863; *Aulonotus* Ashmead, 1900; *Eristernaularx* Viereck, 1913). Type species: *Xynobius pallipes* Foerster, 1863 (= *Opius caelatus* Haliday, 1837). Large and almost worldwide distributed genus with four subgenera, *Paraxynobius* van Achterberg, 2004, *Sulcynobius* van Achterberg, 2004, *Xynobiotenes* Fischer, 1998 and *Xynobius* s. str. Long times it was considered only as subgenus of *Opius* Wesmael. Endoparasitoids of flies mainly from the families Agromyzidae and Tephritidae. Number of species: World – 93, Palaearctic – 43, Russia – 20.
- Xynobius (Xynobius) aciculatus** (Thomson, 1895) [Opius]. Russia: **EP** (C), **FE** (PR, SA). – Europe (WE, NE, SE), Turkey, Iran.
Xynobius (Xynobius) albicornis (Tobias, 1998). Russia: **FE** (PR, SA, KU).
Xynobius (Xynobius) caelatus (Haliday, 1837) [Opius] (*Aclisis isomera* Foerster, 1863; *Xynobius pallipes* Foerster, 1863). Endoparasitoid of *Pegomya seitenstettensis* Strobl (Anthomyiidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, Syria, Israel.

- Xynobius (Xynobius) christenseni** (Papp, 1982) [Opus]. Russia: **EP** (CR). – Europe (SE), Georgia, Turkey.
- Xynobius (Xynobius) comatus** (Wesmael, 1835) [Opus] (*Dapsilarthra sulcifera* Papp, 1967). Russia: **EP** (NW, C), **ES** (IR, BR, ZB). – Europe (WE, NE, SE, EE), Mongolia, China (CC, SE), Korean Peninsula, Japan (Hon), USA.
- Xynobius (Xynobius) consumptor** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Xynobius (Xynobius) curtifemur** (Fischer, 1961) [Opus]. Endoparasitoid of *Agromyza nana* Mg. (Agromyzidae). Russia: **EP** (CR). – Europe (WE, SE, EE), Turkey.
- Xynobius (Xynobius) decoratus** (Stelfox, 1949) [Opus]. Russia: **WS** (NS). – Europe (WE, NE, EE), Armenia, Turkey, Iran.
- Xynobius (Xynobius) holconotus** (Fischer, 1958) [Opus]. Russia: **UR**. – Europe (WE, NE, SE, EE).
- Xynobius (Xynobius) japanus** (Fischer, 1963) [Opus]. Russia: **FE** (PR, KU). – Korean Peninsula, Japan.
- Xynobius (Xynobius) kotenkoi** (Fischer, 1998) [Opus]. Russia: **FE** (KU). – Japan.
- Xynobius (Xynobius) kunashiricus** (Fischer, 1998) [Opus] (*Opus subholconotus* Tobias, 1998). Russia: **ES** (BR), **FE** (PR, KU, KA).
- Xynobius (Xynobius) linearis** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Xynobius (Xynobius) macrocerus** (Thomson, 1895) [Opus] (*Opus hians* Stelfox, 1949). Endoparasitoid of *Agromyza* species (Agromyzidae). Russia: **EP** (NW, C, NC), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Japan, USA (introduced), India.
- Xynobius (Xynobius) maculipes** (Wesmael, 1835) [Opus] (*Opus addendus* Fischer, 1959; *O. turcmenicus* Fischer, 1959). Endoparasitoid of *Agromyza prespana* Spenc. (Agromyzidae), *Euleia heraclei* L. and *Trypeta immaculata* Mac. (Tephritidae). Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Turkey, Israel, Iran, Turkmenistan, Uzbekistan, USA, India.
- Xynobius (Xynobius) poecilicornis** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Xynobius (Xynobius) punctipleuris** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Xynobius (Xynobius) rhythithecra** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Xynobius (Xynobius) semibitonus** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Xynobius (Xynobius) stipitatus** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Xynobius (Xynobius) subcomatus** (Tobias, 1998) [Opus]. Russia: **FE** (PR, KU).
- Xynobius (Xynobius) sublinearis** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Xynobius (Xynobius) transversus** (Tobias, 1998) [Opus]. Russia: **FE** (PR).
- Xynobius (Xynobius) umblicatus** (Tobias, 1998) [Opus]. Russia: **FE** (PR).

Subfamily ORGILINAE (*MICROTYPINAE*)**S.A. BELOKOBYLSKIY**

A medium-sized subfamily with four tribes, Antestrigini (with one Neotropical genus), Mimagathidini (four genera), Orgilini (eight genera) and Microtypini (three genera); the latter tribe sometimes is considered as a separate subfamily (Yu et al., 2016). Endoparasitoids of different groups of Microlepidoptera.

Number of taxa: World – 16 genera and almost 380 species, Palaearctic – 5/111, Russia – 4/39.

References. Van Achterberg, 1985a; Tobias et al., 1986a; Taeger, 1987, 1989; Čapek, van Achterberg, 1992; Belokobylskij, 1993a, 2019d; Belokobylskij, Taeger, 1996, 1998; Belokobylskij et al., 1998; Yu et al., 2016; van Achterberg et al., 2017.

Tribe MICROTYPINI

MICROTYPUS Ratzeburg, 1848 (*Similearinus* Glowacki et Karpinski, 1967). **Type species:** *Microtypus wesmaelii* Ratzeburg, 1848. Small genus recorded in the Nearctic and Afrotropical regions; endoparasitoids of moths mainly from the families Gelechiidae, Pyralidae and Tortricidae. Number of species: World – 16 (with 10 fossil), Palaearctic – 6, Russia – 2.

Microtypus trigonus (Nees, 1834) [Eubadizon] (*Similearinus ilinskyi* Glowacki et Karpinski, 1967). Endoparasitoid of caterpillars from the families Gelechiidae, Pyralidae and Tortricidae. Russia: **EP** (N, C, E, CR), **UR**, **ES** (BR, ZB), **FE** (PR, SA, KU). – Europe (WE, EE), Georgia, Armenia, Azerbaijan, Turkey, Tajikistan, Mongolia, China (NE), Canada.

Microtypus wesmaelii Ratzeburg, 1848 (*Microtypus dioryctriae* Rohwer, 1920). Endoparasitoid of caterpillars from the families Crambidae, Gelechiidae, Pyralidae, Tortricidae and Yponomeutidae. Russia: **EP** (NC). – Europe (WE, SE, EE), Turkey, Iran, China (NE), N America.

Tribe MIMAGATHIDINI

STANTONIA Ashmead, 1904 (*Mimagathis* Enderlein, 1905; *Bentonia* van Achterberg, 1992). **Type species:** *Stantonia flava* Ashmead, 1904. Medium-sized genus recorded in all zoogeographic regions. Endoparasitoids of Lepidoptera caterpillars. Number of species: World – 75, Palaearctic – 8 (mainly from Central China), Russia – 2.

Stantonia ruficornis Enderlein, 1921. Ectoparasitoid of *Loudonta dispar* Kir. (Notodontidae) and *Algedonia coclesalis* Walker (Pyralidae). Russia: **FE** (PR). – China (CC, SW, SE), Nepal, Vietnam, Philippines, Malaysia.

Stantonia spasskensis Belokobylskij, 1993. Russia: **FE** (PR). – Vietnam.

Tribe ORGILINI

- KERORGILUS** van Achterberg, 1985. Type species: *Kerorgilus longicaudis* van Achterberg, 1985. Small Palaearctic-Oriental genus. Number of species: World – 3, Palaearctic – 2, Russia – 1.
- Kerorgilus zonator** (Szépligeti, 1896) [Orgilus]. Russia: **EP** (E, S), **WS** (AL). – Europe (WE, SE, EE), Turkey, Iran, Mongolia, China (NE, NC, CC), Korean Peninsula.
- ORGILUS** Haliday, 1833. Type species: *Microdus obscurator* Nees, 1812. The largest genus of the subfamily, distributed in all zoogeographic regions, widely represented in the Holarctic. Number of species: World – more than 250, Palaearctic – about 95, Russia – 34.
- Orgilus abbreviator** (Ratzeburg, 1852) [Microdus] (*Orgilus nanellae* Tobias, 1986). Endoparasitoid of *Recurvaria leucatella* Cl. and *R. nanella* Den et Schiff. (Gelechiidae). Russia: **EP** (E). – Europe (WE, SE, EE), Armenia, Turkey, Iran.
- Orgilus anurus** Thomson, 1895 (*Orgilus scaber* Muesebeck, 1970). Endoparasitoid of the genera *Coleophora* and *Eupista* (Coleophoridae). Russia: **EP** (NW, C, E). – Europe (WE, NE, SE, EE), N America.
- Orgilus austrorussicus** Belokobyl'skij, 1998. Russia: **FE** (PR).
- Orgilus bohayicus** Belokobyl'skij et Taeger, 1996. Russia: **FE** (PR).
- Orgilus chankaicus** Belokobyl'skij et Taeger, 1996. Russia: **FE** (PR).
- Orgilus capeki** Taeger, 1989. Endoparasitoid of *Coleophora* sp. and *Multicoloria cartilaginella* Christ. (Coleophoridae). Russia: **EP** (CR). – Europe (WE, SE, EE).
- Orgilus claripennis** Ivanov, 1899. Endoparasitoid of *Depressaria depressella* F. (Depressariidae). Russia: **EP** (NW, S). – Europe (EE), Turkey.
- Orgilus coreanus** Taeger, 1987. Russia: **ES** (ZB), **FE** (KU). – Korean Peninsula.
- Orgilus dovnari** Tobias, 1986. Russia: **EP** (C). – Europe (WE, EE), Turkey, Mongolia.
- Orgilus elongatus** Papp, 1971 (*Orgilus longicauda* Tobias, 1971). Russia: **ES** (TU, ZB). – Mongolia.
- Orgilus eous** Belokobyl'skij et Taeger, 1996. Russia: **FE** (PR, SA). – Korean Peninsula.
- Orgilus fulvus** Belokobyl'skij et Taeger, 1998. Russia: **FE** (PR).
- Orgilus grunini** Tobias, 1986. Endoparasitoid of *Coleophora* spp. (Coleophoridae). Russia: **EP** (NC). – Europe (WE, EE), Turkey, Kazakhstan.
- Orgilus hungaricus** Szépligeti, 1896. Russia: **WS** (AL). – Europe (SE, EE), Turkey, Iran, Kazakhstan.
- Orgilus ischnus** Marshall, 1898 (*Orgilus subtilirugosus* Papp, 1971). Endoparasitoid of *Coleophora* sp. (Coleophoridae), *Phyllonorycter quercifoliella* Z. (Gracillariidae) and *Spilonota ocellana* Den. et Schiff. (Tortricidae). Russia: **FE** (PR, KU). – Europe (WE, SE, EE), Mongolia, China (SE).
- Orgilus kumatai** Watanabe, 1968. Endoparasitoid of *Caloptilia magnoliae* Kumata, *Gracillaria albicapitata* Issiki (Gracillariidae) and *Tischeria japoniella* Puplesis et Diskus (Tischeriidae). Russia: **FE** (PR). – China (CC), Korean Peninsula, Japan (Hok, Hon).
- Orgilus kurentzovi** Belokobyl'skij, 1998. Russia: **FE** (PR).
- Orgilus leleji** Belokobyl'skij et Taeger, 1998. Russia: **FE** (KH, PR).
- Orgilus leptocephalus** (Hartig, 1838) [Eubadizon] (*Orgilus leptocephalus rugulosus* Fahringer, 1937; *O. hyperboreus* Hellén, 1958). Endoparasitoid of *Rhyacionia buoliana* Den. et Schiff., *Ancylistis comptana* Frölich, *Olethreutes arbutella* L. and *Pandemis dumetana* Tr. (Tortricidae). Russia: **FE** (AM, PR, KA). – Europe (WE, NE, SE, EE), Mongolia, N America.
- Orgilus longiceps** Muesebeck, 1933. Endoparasitoid of *Grapholita molesta* Busck. (Tortricidae). Russia: **FE** (PR, KU). – Japan (Hon, Kyu), USA (introduced).
- Orgilus magadanicus** Belokobyl'skij, 1998. Russia: **FE** (MG).
- Orgilus mongolicus** Taeger, 1989. Russia: **ES** (TU). – Mongolia.
- Orgilus nitidus** Marshall, 1898. Russia: **EP** (NW). – Europe (SE, EE), Azerbaijan, Mongolia.
- Orgilus obscurator** (Nees, 1812) [Microdus] (*Microdus annulator* Nees, 1812; *M. laevigator* Nees, 1812). Endoparasitoid of caterpillars from the families Coleophoridae, Crambidae, Gelechiidae, Lasiocampidae, Momphidae, Oecophoridae, Psychidae, Scythrididae, Tortricidae and Yponomeutidae, including pests *Dendrolimus pini* L. (Lasiocampidae), *Loxostege sticticalis* L. (Crambidae), *Rhyacionia buoliana* Den. et Schiff. and *Tortrix viridana* L. (Tortricidae). Russia: **EP** (C, NC), **UR**. – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, China (NC), N America, Chile.
- Orgilus ortrudae** Taeger, 1989. Russia: **EP** (NC). – Europe (EE).
- Orgilus pappianus** Taeger, 1987 (*Orgilus parapappianus* Chou, 1995). Russia: **FE** (PR, KU). – China (CC, SE), Korean Peninsula.
- Orgilus pimpinellae** Niezabitowski, 1910. Endoparasitoid of caterpillars from the genera *Coleophora* (Coleophoridae), *Depressaria* (Elachistidae), *Anacampsis*, *Argolamprotes*, *Athrips*, *Caryocolum*, *Dichomeris*, *Phthorimaea*, *Recurvaria*, *Scrobipalpa* (Gelechiidae), *Digitivalva* (Glyphipterigidae), *Mompha* (Momphidae), *Agonopterix* (Oecophoridae), *Oncocera*, *Pempelia* (Pyralidae), including the pest *Phthorimaea operculella* Z. (Gelechiidae). Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **ES** (BR, ZB), **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula.
- Orgilus ponticus** Tobias, 1986. Russia: **EP** (NC). – Europe (SE, EE), Armenia, Turkey, Iran.

- Orgilus punctulator** (Nees, 1812) [Microdus]. Endoparasitoid of caterpillars from the genera *Coleophora* (Coleophoridae), *Apterona*, *Megalophanes* (Psychidae), *Ancylys* (Tortricidae) and *Yponomeuta* (Yponomeutidae). Russia: **ES** (ZB), **FE** (KH, PR). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Kazakhstan, Mongolia.
- Orgilus rubrator** (Ratzeburg, 1852) [Ischius] (*Orgilus nordmani* Hellén, 1958). Endoparasitoid of caterpillars from the genera *Megalophanes* and *Phalacropterix* (Psychidae), *Orgyia antiqua* L. (Erebidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Orgilus rudolfae** Tobias, 1976. Endoparasitoid of *Phthorimaea operculella* Z. and *Scrobipalpa ocellatella* Boyd (Gelechiidae). Russia: **EP** (NC). – Europe (SE, EE), Turkey, Kazakhstan.
- Orgilus rugosus** (Nees, 1834) [Microgaster]. Endoparasitoid of *Choreutis pariana* Cl. (Choreutidae), many *Coleophora* species (Coleophoridae), *Rhyacionia buoliana* Den. et Schiff. (Tortricidae) and *Zygaena carniolica* Scop. (Zygaenidae). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Orgilus spasskensis** Belokobylskij et Taeger, 1996. Russia: **FE** (PR).
- Orgilus sudzuchae** Belokobylskij et Taeger, 1996. Russia: **FE** (PR).
- Orgilus temporalis** Tobias, 1976. Russia: **EP** (N, NC). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Mongolia.

Subfamily RHYSSALINAE

S.A. BELOKOBYLSKIJ

One of the less specialised subfamilies of Braconidae which was finally restored from the previous synonymy under Exothecinae s. l. (Quicke, van Achterberg, 1990). Three tribes, Achaibraconini, Acrisidini and Rhyssalini, are known within this subfamily (Belokobylskij, 2009). Members of this group are ectoparasitoids of the larvae of several families of Coleoptera and Lepidoptera, but host of Acrisidini is yet unknown (might be Cecidomyiidae).

Number of taxa: World – 10 genera and about 65 species, Palaearctic – 9/35, Russia – 7/22.

References. Tobias, 1977a, 1983; Belokobylskij, 1982, 1987d, 1994a, 2004c, 2009b, 2019d; Tobias et al., 1986a; van Achterberg, 1995; Belokobylskij et al., 1998; Yu et al., 2016.

Tribe ACRISIDINI

ACRISIS Foerster, 1863 (*Euchasmus* Marshall, 1888; *Episigalphus* Ashmead, 1900). Type species: *Euchasmus exiguus* Marshall, 1888. Small Holarctic genus. Number of species: World – 9, Palaearctic – 7, Russia – 3.

Acrisis apterus Hellén, 1957. Russia: **EP** (N).

Acrisis brevicornis Hellén, 1957 (*Acrisis koponeni* Tobias, 1983). Parasitoid of *Kaltenbachiola strobi* Winn. (Cecidomyiidae). Russia: **EP** (N, NW), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Korean Peninsula.

Acrisis clavipes Marshall, 1888. Russia: **EP** (C). – Europe (WE, NE, EE).

PROACRISIS Tobias, 1983. Type species: *Proacrisis rarus* Tobias, 1983. Small Palaearctic genus. Number of species: World, Palaearctic and Russia – 4.

Proacrisis acutus Tobias, 1983. Russia: **EP** (NC). – Europe (WE).

Proacrisis levis Tobias, 1983. Russia: **ES** (IR). – Europe (NE).

Proacrisis orientalis Tobias, 1983 (*Proacrisis striatus* Tobias, 1983). Russia: **FE** (PR, KU).

Proacrisis rarus Tobias, 1983. Russia: **EP** (NC). – Europe (WE, NE).

Tribe RHYSSALINI (ONCOPHANINI)

DOLOPSIDEA Hincks, 1944 (*Dolops* Marshall, 1889, nom. praeocc., nec Agassiz, 1846; *Exontsira* Belokobylskij, 1982). Type species: *Dolops hastifer* Marshall, 1889 (= *Rogas indagator* Haliday, 1836). Small exclusively Holarctic genus. Number of species: World and Palaearctic – 5, Russia – 4.

Dolopsidea indagator (Haliday, 1836) [*Rogas*] (*Dolops aculeator* Marshall, 1889; *D. hastifer* Marshall, 1889; *Doryctodes caucasicus* Tobias, 1976; *Rhyssalus rhodopeus* Zaykov, 1980). Ectoparasitoid of coleopteran larvae from the families Anobiidae and Cerambycidae. Russia: **EP** (C), **ES** (ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Korean Peninsula.

Dolopsidea maes (Belokobylskij, 1982) [*Exontsira*]. Russia: **FE** (PR).

Dolopsidea mongolica (Telenga, 1941) [*Doryctodes*]. Russia: **ES** (BR, YA, ZB). – Kazakhstan, Mongolia, ? Korean Peninsula.

Dolopsidea tatianae (Telenga, 1941) [*Doryctodes*]. Russia: **EP** (C). – Europe (NE, EE).

LYSITERMOIDES van Achterberg, 1995. Type species: *Lysitermoides huggerti* van Achterberg, 1995. Small Holarctic genus. Number of species: World and Palaearctic – 5, Russia – 3.

Lysitermoides compsolechia (Watanabe, 1970) [*Oncophanes*] (*Oncophanes striatus* Belokobylskij, 1998). Russia: **FE** (PR). – Korean Peninsula, Japan (Hon).

Lysitermoides makarkini (Belokobylskij, 1996) [*Oncophanes*]. Russia: **FE** (PR). – Japan (Kyu).

Lysitermoides rugosus (Telenga, 1941) [*Oncophanes*] (*Doryctes margaroniae* Watanabe, 1951). Ectoparasitoid of microlepidopteran larvae from the families Gelechiidae,

Pyrilidae and Tortricidae. Russia: **ES** (ZB), **FE** (KH, PR, KU). – ? UK, Korean Peninsula, Japan.

ONCOPHANES Foerster, 1862 (*Epirhyssalus* Ashmead, 1900). Type species: *Exothecus minutus* Wesmael, 1838 (= *Bracon lanceolator* Nees, 1834). Small genus, known from the Holarctic, Oriental and Neotropical regions but its record in the Neotropics needs to be verified. Number of species: World – 13, Palaearctic – 5, Russia – 3.

Oncophanes lanceolator (Nees, 1834) [Bracon] (*Exothecus minutus* Wesmael, 1838; *E. laevigatus* Ratzeburg, 1852). Ectoparasitoid of numerous microlepidopterans from the families Choreutidae, Gelechiidae, Oecophoridae and Tortricidae. Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (TM), **ES** (TU, IR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, SE, EE, NE), Georgia, Armenia, Azerbaijan, Central Asia, Kazakhstan, Mongolia, Korean Peninsula, Japan (Hok, Hon, Kyu).

Oncophanes pini Belokobylskij, 1993. Russia: **FE** (KH, SA).

Oncophanes tenuipes Tobias, 1986. Russia: **EP** (NC). – Europe (EE).

PSEUDOBATHYSTOMUS Belokobylskij, 1986. Type species: *Rogas funestus* Haliday, 1836. Small Palaearctic genus with two subgenera, *Atlantobathystomus* Belokobylskij et Koponen, 2004 (single species from the Canary Is) and *Pseudobathystomus* s. str. Number of species: World and Palaearctic – 4, Russia – 2.

Pseudobathystomus funestus (Haliday, 1836) [Rogas]. Ectoparasitoid of microlepidopterans from the family Oecophoridae. Russia: **EP** (C), **ES** (TU), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE).

Pseudobathystomus vernalis Belokobylskij, 1994. Russia: **FE** (PR, SA).

RHYSSALUS Haliday, 1833 (*Eurhoptrocentrus* Tobias, 1977). Type species: *Rhyssalus clavator* Haliday, 1833. Small genus certainly recorded in the Holarctic region (its record in the Oriental region needs to be verified). Number of species: World and Holarctic – 7 (and 2 extinct from Baltic amber), Russia – 3.

Rhyssalus clavator Haliday, 1833. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE), Abkhazia, Georgia.

Rhyssalus kerzhneri (Tobias, 1977) [*Eurhoptrocentrus*]. Russia: **ES** (ZB), **FE** (KH, PR, MG, CH). – Mongolia.

Rhyssalus longicaudis (Tobias et Belokobylskij, 1981) [*Eurhoptrocentrus*]. Russia: **EP** (NW, C), **UR**, **WS** (TM, AL), **FE** (PR). – Europe (NE, SE, EE), Mongolia.

Subfamily ROGADINAE

S.A. BELOKOBYSKIJ

Solitary or (rarely) gregarious koinobiont endoparasitoids of lepidopteran caterpillars; full-grown larvae of these

parasitoids form the cocoon within the skin of the mummified host. The large subfamily most abundant in the subtropics or tropics, but also with rather numerous representatives in the southern Palaearctic region. The tribe Clinocentrini sometimes was included in the subfamily Exothecinae s. l. (Belokobylskij, 1995c) based on its intermediate morphological and partly biological characteristics, but modern molecular data distinctly support inclusion of Clinocentrini in Rogadinae (Zaldívar-Riverón et al., 2008b).

Number of taxa: World – 62 genera and more than 1200 species, Palaearctic – 13/about 200, Russia – 7/132.

References. Watanabe, 1937, 1970; Telenga, 1941; van Achterberg, 1985b, 1991; Tobias et al., 1986a; Papp, 1991, 1995; Belokobylskij, 1995c, 1996f; Chen, He, 1997; Belokobylskij, Tobias, 2000; Zaldívar-Riverón et al., 2008b; van Achterberg, Shaw, 2016; Yu et al., 2016; van Achterberg et al., 2019a.

Tribe ALEIODINI

ALEIODES Wesmael, 1838 (*Petalodes* Wesmael, 1838; *Schizoides* Wesmael, 1838; *Aliodes* Agassiz, 1846; *Nebantha* Walker, 1860; *Leluthinus* Enderlein, 1912; *Aleirhogas* Baker, 1917; *Heterogamoides* Fullaway, 1919; *Cordylorhogas* Enderlein, 1920; *Jirunia* Malác, 1941; *Pholichora* van Achterberg, 1991; *Vietorogas* Long et van Achterberg, 2008). Type species: *Aleiodes heterogaster* Wesmael, 1838 (= *Rogas albitibia* Herrich-Schäffer, 1838). Largest Rogadinae genus especially abundant in the subtropical and tropical regions, consists of seven subgenera, *Arcaleiodes* Chen et He, 1997, *Chelonorhogas* Enderlein, 1912, *Eucystomastax* Enderlein, 1912, *Hemigyron neuron* Baker, 1917, *Neorhogas* Szépligeti, 1906 and *Tetrasphaeropyx* Ashmead, 1889. Number of species: World – about 630, Palaearctic – 148, Russia – 105.

Aleiodes (Aleiodes) albitibia (Herrich-Schäffer, 1838) [Rogas] (*Aleiodes heterogaster* Wesmael, 1838). Endoparasitoid of caterpillars from the genera *Clostera*, *Eligmodontia*, *Nagata*, *Nerice*, *Notodonta*, *Pheosia*, *Pterostoma*, *Phalera* and *Ptilodon* (Notodontidae). Russia: **EP** (C), **ES** (IR, ZB), **FE** (KH, PR, KU, KA, MG). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula, N America, S America.

Aleiodes (Aleiodes) amurensis Belokobylskij, 2000. Russia: **FE** (KH).

Aleiodes (Aleiodes) angustatus (Papp, 1971). Russia: **EP** (S), **ES** (IR). – Mongolia.

Aleiodes angustipterus van Achterberg et Shaw, 2016. Endoparasitoid of *Hypenodes humidalis* Doubl. (Erebidae). Russia: **ES** (IR). – Europe (WE, NE, SE, EE), China, Japan (Hon).

Aleiodes (Aleiodes) apiculatus (Fahringer, 1932) [Rogas] (*Rogas apicalis* Reinhard, 1863; *R. negativus* Tobias, 1961). Endoparasitoid of *Euproctis similis* Fuess. (Erebidae). Russia: **ES** (TU, IR), **FE** (AM, KH, PR, KU). – Europe (WE, EE), Korean Peninsula.

- Aleiodes (Aleiodes) armatus** Wesmael, 1838. Endoparasitoid of *Abraxas grossulariata* L., *Cyclophora linearia* Hbn., *Hylaea fasciaria* L. (Geometridae) and *Euthrix potatoria* L. (Lasiocampidae). Russia: **EP** (? NW: Meyer, 1927a). – Europe (WE, NE, SE, EE), Mongolia.
- Aleiodes (Aleiodes) avvakumi** Belokobylskij, 2000. Russia: **FE** (PR).
- Aleiodes (Aleiodes) bicolor** (Spinola, 1808) [Bracon] (*Bracon praerogator* Nees, 1811; *Rogas ater* Curtis, 1834; *R. zygaenae* Nees, 1834; *R. basalis* Costa, 1885; *Rhogas difcilis* Kokujev, 1898; *Rh. incertus* Kokujev, 1898; *Rh. tener* Kokujev, 1898; *Rh. coxator* Telenga, 1941; *Rh. incertoides* Telenga, 1941; *Rh. docavoi* Llopi, 1968). Solitary endoparasitoid of caterpillars from the families Geometridae, Lycaenidae, Lymantriidae, Noctuidae, Nymphalidae, Pterophoridae, Satyridae and Zygaenidae. Russia: **EP** (NW, C, S, NC, CR), **UR**, **WS** (TM, OM), **ES** (KR, IR, ZB), **FE** (AM, PR, KA, MG). – Europe (WE, NE, SE, EE), Tunisia, Libya, Georgia, Armenia, Azerbaijan, Turkey, Jordan, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (CC).
- Aleiodes (Aleiodes) borealis** (Thomson, 1892) [Rogas] (*Rhogas vitripennis* Telenga, 1941). Endoparasitoid of *Autographa gamma* L. (Noctuidae). Russia: **ES** (ZB), **FE** (KH). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula.
- Aleiodes (Aleiodes) buzurae** He et Chen, 1990. Solitary endoparasitoid of *Biston suppressaria* Gn. (Geometridae). Russia: **FE** (PR, SA). – China (CC, SW, SE), Japan, Vietnam, Thailand.
- Aleiodes (Aleiodes) cantherius** (Lyle, 1919) [Rogas]. Solitary endoparasitoid of *Macaria* sp. (Geometridae). Russia: **EP** (C, E). – Europe (WE, NE, EE).
- Aleiodes (Aleiodes) caudalis** Hellén, 1927. Russia: **EP** (C, E), **WS** (OM), **ES** (BR, ZB), **FE** (PR, KA). – Europe (NE, SE, EE).
- Aleiodes (Aleiodes) circumscriptus** (Nees, 1834) [Rogas] (*Aleiodes bistrigatus* Roman, 1917). Solitary endoparasitoid of caterpillars from the families Arctiidae, Crambidae, Erebidae, Gelechiidae, Geometridae, Pterophoridae, Pyralidae, Noctuidae and Tortricidae. Russia: **EP** (N, NW, E, S, NC), **UR**, **ES** (IR, ZB), **FE** (KH, PR, SA, KU, MG). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Iran, Tajikistan, Kazakhstan, Mongolia, China (NE), Korean Peninsula, Japan (Kyu).
- Aleiodes (Aleiodes) compressor** (Herrich-Schäffer, 1838) [Rogas] (*Petalodes unicolor* Wesmael, 1839). Solitary endoparasitoid of caterpillars from the families Geometridae, Limacodidae, Lymantriidae, Notodontidae, Noctuidae and Tortricidae. Russia: **EP** (NW, C, S), **WS** (KM), **ES** (KR, IR, BR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Abkhazia, Georgia, Iran, Kazakhstan, China (NE, NC, CC), Korean Peninsula.
- Aleiodes (Aleiodes) coxalis** (Spinola, 1808) [Bracon] (*Aleiodes tristis* Wesmael, 1838; *Rhogas koltzoffi* Fahringer, 1929; *R. nunbergi* Noskiewicz, 1956). Solitary endoparasitoid of caterpillars from the families Crambidae, Geometridae, Hesperidae, Noctuidae, Nymphalidae, Pterophoridae, Pyralidae and Satyridae, including the pest *Ostrinia nubilalis* Hbn. (Crambidae). Russia: **EP** (C), **WS** (TM), **FE** (PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Turkmenistan, Kazakhstan, Mongolia, China (NC, NW, CC, SW, SE), Korean Peninsula, Japan.
- Aleiodes (Aleiodes) dosangi** Samartsev et Belokobylskij, 2013. Russia: **EP** (S).
- Aleiodes (Aleiodes) dendrolimi** (Matsumura, 1926) [Phanomeris] (*Phanomeris dendrolimusi* Matsumura, 1926; *Ph. spectabilis* Matsumura, 1926; *Rhogas metanastriae* Rohwer, 1934). Solitary endoparasitoid of *Dendrolimus* species and *Cosmotriche lobulina* Den. et Schiff. (Lasiocampidae). Russia: **WS** (OM, TK, NS, KM, AL), **ES** (TU, KR, IR, BR), **FE** (SA, KU). – Mongolia, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, Japan.
- Remarks.** In Yu et al. (2016) this species is treated as a synonym of *Aleiodes (A.) esenbeckii* (Hartig, 1838), but we consider it as a valid Eastern Palaearctic taxon (Belokobylskij, Tobias, 2000).
- Aleiodes (Aleiodes) drymoniae** (Watanabe, 1937) [Rhogas] (*Rhogas luridus* Telenga, 1941). Solitary endoparasitoid of *Orgyia* sp. (Lymantriidae), *Clostera anastomosis* L., *Naganoea albibasis* Chiang and *Phalera assimilis* Bremer et Gray (Notodontidae). Russia: **FE** (PR). – China (NE, CC, SW), Korean Peninsula, Japan (Hon).
- Aleiodes (Aleiodes) duchovskoi** Belokobylskij, 2000. Russia: **FE** (PR). – Georgia.
- Aleiodes (Aleiodes) eous** Belokobylskij, 1996. Russia: **FE** (PR, SA, KU). – Japan (Hon).
- Aleiodes (Aleiodes) esenbeckii** (Hartig, 1838) [Rogas] (*Rogas gastropachae* Kokujev, 1901; *Rhogas corsicus* Szépligeti, 1906). Solitary endoparasitoid of several species of *Dendrolimus* spp. and *Selenephra lobulina* Den. et Schiff. (Lasiocampidae), *Endromis versicolora* L. (Endromidae). Russia: **EP** (N, ? C). – Europe (WE, NE, SE, EE), Turkey, Iran, Afghanistan.
- Aleiodes (Aleiodes) flavicorpus** Belokobylskij, 2000. Russia: **UR**, **FE** (KH, PR).
- Aleiodes (Aleiodes) gastritor** (Thunberg, 1824) [Ichneumon] (*Rogas similis* Curtis, 1834; *R. spathuliformis* Curtis, 1834; *Rhogas rossicus* Kokujev, 1898; *Rh. fuscomaculatus* Ashmead, 1906; *Rh. japonicus* Ashmead, 1906; *Aleiodes ochraceus* Hellén, 1927). Endoparasitoid of caterpillars from the families Crambidae, Erebidae, Geometridae, Lymantriidae, Notodontidae, Noctuidae and Tortricidae. Russia: **EP** (N, NW, C, S, NC), **UR**, **WS** (TM), **ES** (ZB), **FE** (AM, KH, PR, KU, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Israel, Iran, Turkmenistan, Uzbekistan, Mongolia, China (NE, NC, CC, SW, WP, SE), Korean Peninsula, Japan (Hok, Kyu), USA, Vietnam.

- Aleiodes (Aleiodes) gracilipes** (Telenga, 1941) [Rhogas]. Russia: **FE** (PR). – China (NC, CC, SW, SE), Korean Peninsula, Japan (Hon, Kyu).
- Aleiodes (Aleiodes) graciliventris** Belokobylskij, 2000. Russia: **FE** (PR).
- Aleiodes (Aleiodes) grodekovi** Belokobylskij, 2000. Russia: **FE** (KH, PR).
- Aleiodes (Aleiodes) jakowlewi** (Kokujev, 1898) [Rogas]. Russia: **EP** (C), **UR**.
- Aleiodes (Aleiodes) kamtshadal** Belokobylskij, 2000. Russia: **FE** (KA).
- Aleiodes (Aleiodes) korsakovi** Belokobylskij, 2000. Russia: **FE** (AM, KH, PR, SA, KU). – Japan (Hok, Hon, Kyu).
- Aleiodes (Aleiodes) krashenninnikovi** Belokobylskij, 1996. Russia: **FE** (KU).
- Aleiodes (Aleiodes) latus** (Telenga, 1941) [Rhogas]. Endoparasitoid of *Orgyia* sp. (Lymantriidae). Russia: **ES** (KR, IR), **FE** (AM).
- Remarks.** In Yu et al. (2016) this species is treated as a synonym of *A. bicolor* (Spinola), but we consider it as a valid taxon.
- Aleiodes (Aleiodes) lymantriae** (Watanabe, 1937) [Rhogas]. Endoparasitoid of *Lymantria dispar* L., *L. mathura* Moore and *Orgyia recens* Hbn. (Lymantriidae). Russia: **FE** (PR). – China (NE, CC, SW), Korean Peninsula, Japan (Hok, Hon), USA (introduced).
- Aleiodes (Aleiodes) modestus** (Reinhard, 1863) [Rogas] (*Rhogas piceus* Fahringer, 1932). Endoparasitoid of caterpillars mainly from the family Geometridae. Russia: **EP** (C), **WS** (TM), **ES** (BR), **FE** (SA, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Mongolia, Korean Peninsula.
- Aleiodes (Aleiodes) muravievi** Belokobylskij, 2000. Russia: **FE** (KH, PR).
- Aleiodes (Aleiodes) nigriceps** Wesmael, 1838. Solitary endoparasitoid of caterpillars from the family Noctuidae. Russia: **FE** (SA). – Europe (WE, NE, SE, EE).
- Aleiodes (Aleiodes) nigricornis** Wesmael, 1838. Endoparasitoid of caterpillars mainly from the family Noctuidae. Russia: **EP** (N, NW, C, E, NC), **UR**, **WS** (TK, AL), **ES** (KR), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Iran, Kazakhstan, Korean Peninsula.
- Aleiodes (Aleiodes) nobilis** (Curtis, 1834) [Rogas] (*Rogas medianus* Thomson, 1892). Endoparasitoid of *Autographa gamma* L. (Noctuidae). Russia: **EP** (NW, C), **ES** (IR), **FE** (PR, KU). – Europe (WE, NE, SE, EE).
- Aleiodes (Aleiodes) nocturnus** (Telenga, 1941) (Rhogas). Solitary endoparasitoid of caterpillars from the families Erebidae, Noctuidae, Notodontidae and Nymphalidae, including pests *Helicoverpa armigera* Hbn. and *H. zea* Boddie (Noctuidae). Russia: **EP** (S, NC). – Europe (EE), Turkey, Israel, Iran, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE, NC, NW).
- Aleiodes (Aleiodes) optimus** Belokobylskij, 2000. Russia: **FE** (PR).
- Aleiodes (Aleiodes) pallescens** Hellén, 1927. Gregarious endoparasitoid of *Cerura menciata* Moore, *C. vinula* L. and *Furcula bifida* Brahm (Notodontidae). Russia: **FE** (KH, PR). – Europe (WE, NE, SE, EE), Iran, Mongolia, China (NE, NC, NW, CC), Japan (Hok, Hon).
- Aleiodes (Aleiodes) pallidator** (Thunberg, 1824) [Ichneumon] (*Rogas ochraceus* Curtis, 1834; *Aleiodes unicolor* Wesmael, 1838; *Rhogas pellucens* Telenga, 1941). Endoparasitoid of caterpillars mainly from the families Erebidae, Gelechiidae, Geometridae, Lasiocampidae, Lymantriidae, Noctuidae and Tortricidae, including pests *Agrotis segetum* Den et Schiff. (Noctuidae) and *Lymantria dispar* L. (Erebidae). Russia: **EP** (NW, C, E, CR), **WS** (TM, AL), **ES** (KR, IR), **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW, WP), Korean Peninsula, USA (introduced), Chile.
- Aleiodes (Aleiodes) paltshetskii** Belokobylskij, 2000. Russia: **FE** (PR).
- Aleiodes (Aleiodes) parentalis** Belokobylskij, 2000. Russia: **FE** (PR).
- Aleiodes (Aleiodes) pictus** Herrich-Schäffer, 1838 (Rogas). Solitary endoparasitoid of caterpillars from the families Geometridae and Noctuidae. Russia: without regions (van Achterberg, Shaw, 2016). – Europe (WE, NE, SE, EE), Turkey.
- Aleiodes (Aleiodes) radialis** (Tobias, 1972) [Rogas]. Russia: **EP** (S). – Mongolia.
- Aleiodes (Aleiodes) reticulatus** (Noskiewicz, 1956). Endoparasitoid of *Macaria brunneata* Thunb. and *M. wauaria* L. (Geometridae). Russia: **EP** (NW, C). – Europe (EE).
- Aleiodes (Aleiodes) robustipes** Belokobylskij, 2000. Russia: **FE** (PR, KU).
- Aleiodes (Aleiodes) rubroniger** Belokobylskij, 2000. Russia: **FE** (PR).
- Aleiodes (Aleiodes) seriatus** (Herrich-Schäffer, 1838) [Rogas] (*Aleiodes vittiger* Wesmael, 1838; *Rogas kuslitzkyi* Tobias, 1976). Endoparasitoid of *Atolmis rubricollis* L. (Erebidae) and *Orthosia gracilis* Den. et Schiff. (Noctuidae). Russia: **EP** (NW, NC), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, China (SW, SE), Korean Peninsula, Japan (Hon, Kyu), Vietnam.
- Aleiodes (Aleiodes) sichotealinus** Belokobylskij, 1996. Russia: **FE** (PR). – China (NC), Korean Peninsula.
- Aleiodes (Aleiodes) signatus** (Nees, 1811) [Bracon] (*Rogas balteatus* Curtis, 1834; *R. geniculator* Nees, 1834; *R. amulipes* Herrich-Schäffer, 1838; *Aleiodes essenii* Hellén, 1927; *Rhogas dubius* Telenga, 1941; *Rh. cassinielloi* Llopis, 1968). Endoparasitoid of caterpillars mainly from the families Arctiidae, Lasiocampidae, Lymantriidae, Noctuidae, Thaumetopoeidae and Tortricidae. Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (TM, TK, AL), **ES**

- (YA), **FE** (AM, PR, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, Korean Peninsula.
- Aleiodes (Aleiodes) spasskensis** Belokobylskij, 2000. Russia: **FE** (PR).
- Aleiodes (Aleiodes) terneicus** Belokobylskij, 2000. Russia: **FE** (PR).
- Aleiodes (Aleiodes) testaceus** (Telenga, 1941) [Heterogamus]. Endoparasitoid of *Eupithecia* sp. (Geometridae). Russia: **EP** (S). – Europe (WE, SE, EE), Morocco, Iran, Turkmenistan.
- Aleiodes (Aleiodes) troitza** Belokobylskij, 2000. Russia: **FE** (PR).
- Aleiodes (Aleiodes) unguicularis** (Thomson, 1892) [Rogas]. Solitary endoparasitoid of *Pseudopis prasinana* L. (Nolidae). Russia: **FE** (PR, KU). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula, Japan (Hon).
- Aleiodes (Aleiodes) varius** (Herrich-Schäffer, 1838) [Rogas] (*Aleiodes procerus* Wesmael, 1838). Solitary endoparasitoid of *Euthrix potatoria* L. (Lasiocampidae). Russia: **EP** (C), **FE** (AM, PR, KU). – Europe (WE, SE, EE), Turkey, Iran, Japan (Hon).
- Aleiodes (Arcleiodes) antennatus** (Belokobylskij, 1988) [Rogas]. Russia: **FE** (AM, PR).
- Aleiodes (Arcleiodes) arsenjevi** (Belokobylskij, 1988) [Rogas] (*Aleiodes pulchricarpus* Chen et He, 1991). Russia: **FE** (PR). – China (CC, SW, SE).
- Aleiodes (Arcleiodes) unifasciatus** Chen et He, 1991. Russia: **FE** (KH). – China (CC, SW).
- Aleiodes (Chelonorhogas) aestuosus** (Reinhard, 1863) [Rogas] (*Rhogas aestuosus* var. *desertus* Telenga, 1941). Endoparasitoid of *Autographa gamma* L. and *Heliothis peltigera* Den et Schiff. (Noctuidae). Russia: **EP** (NC, CR), **ES** (ZB). – Europe (SE, EE), Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Syria, Iraq, Jordan, Israel, Iran, Afghanistan, Turkmenistan, Uzbekistan, Kazakhstan, China (NW, CC, SW).
- Aleiodes (Chelonorhogas) alboannulatus** (Belokobylskij, 1988) [Rogas]. Russia: **FE** (PR).
- Aleiodes (Chelonorhogas) alexandri** (Belokobylskij, 1988) [Rogas]. Russia: **FE** (PR).
- Aleiodes (Chelonorhogas) angulinervis** Chen et He, 1990. Endoparasitoid of *Acronicta major* Bremer (Noctuidae). Russia: **FE** (PR). – China (CC, SW).
- Aleiodes (Chelonorhogas) apicalis** (Brullé, 1832) [Bracon] (*Rogas reticulator* Nees, 1834; *R. bicolor* Lucas, 1849; *R. rufo-ater* Wollaston, 1858; *Rhogas similis* Szépligeti, 1903; *Rh. bicolorinus* Fahringer, 1932; *Rogas ductor* auct.). Endoparasitoid of *Autographa gamma* L. (Noctuidae). Russia: without regions (van Achterberg et al., 2019a). – Europe (WE, NE, SE, EE), Canary Is, Morocco, Tunisia, Georgia, Turkey, Syria, Iraq, Israel, Oman, Turkmenistan, Kazakhstan.
- Aleiodes (Chelonorhogas) aterrimus** (Ratzeburg, 1852) [Bracon] (*Aleiodes grandis* Giraud, 1857; *Rogas malaisei* Shestakov, 1940). Endoparasitoid of *Amphipyra pyramidea* L. (Noctuidae). Russia: **EP** (NW, NC), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey.
- Aleiodes (Chelonorhogas) boreoasiaticus** Belokobylskij, 2000. Russia: **WS** (AL), **ES** (ZB), **FE** (KA).
- Aleiodes (Chelonorhogas) carbonarius** Giraud, 1857. Endoparasitoid of *Tholera decimalis* Poda (Noctuidae). Russia: **ES** (ZB: van Achterberg et al., 2019a). – Europe (WE, EE).
- Aleiodes (Chelonorhogas) cruentus** (Nees, 1834) [Rogas]. Endoparasitoid of *Teia antiquiodes* Hbn. (Erebidae) and *Sideridis rivularis* F. (Noctuidae). Russia: **EP** (NW, C), **WS** (OM), **ES** (YA, ZB), **FE** (AM, KH, PR, MG). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Mongolia, China (NC).
- Aleiodes (Chelonorhogas) daisetsuzanus** (Watanabe, 1937) [Rogas]. Russia: **FE** (KH, PR). – Korean Peninsula, Japan (Hok, Hon).
- Aleiodes (Chelonorhogas) dimidiatus** (Spinola, 1808) [Bracon] (*Rogas alpinus* Thomson, 1892). Solitary endoparasitoid of caterpillars from the families Arctiidae, Erebidae, Lasiocampidae, Lymantriidae, Noctuidae and Thaumetopoeidae. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (AL), **ES** (KS, IR, ZB), **FE** (AM, KH, PR, KA). – Europe (WE, NE, SE, EE), Morocco, Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW), Korean Peninsula.
- Aleiodes (Chelonorhogas) ductor** (Thunberg, 1824) [Ichneumon] (*Rogas reticulator* Nees, 1834; *R. bicolor* Lucas, 1849; *Rhogas similis* Szépligeti, 1903). Endoparasitoid of caterpillars of the subfamilies Lasiocampidae and Noctuidae. Russia: **EP** (C, E, S, NC, CR), **UR**, **ES** (BR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Algeria, Tunisia, Libya, Egypt, Georgia, Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, Korean Peninsula, Japan. **Remarks.** This species was synonymised with *A. unpunctator* (Thunberg, 1822) (van Achterberg et al., 2019a), but this synonymy must be double checked.
- Aleiodes (Chelonorhogas) eurinus** (Telenga, 1941) [Rogas]. Endoparasitoid of *Apamea anceps* Den. et Schiff. and *Euxoa ochrogaster islandica* Stgr. (Noctuidae). Russia: **EP** (C, E, NC), **UR**, **WS** (KM), **ES** (TU, IR, ZB), **FE** (AM, PR). – Europe (WE, SE, EE), Turkey, Iran, Uzbekistan, Kazakhstan, Mongolia, China (NE, NW, CC, SE), Korean Peninsula.
- Aleiodes (Chelonorhogas) fahringeri** (Telenga, 1941) (*Rhogas flavipennis* Telenga, 1941). Russia: **ES** (TU, ZB). – Mongolia, China (NC, WP).
- Aleiodes (Chelonorhogas) gasterator** (Jurine, 1807) [Bracon] (*Bracon dimidiatis* Spinola, 1808). Endoparasitoid of *Euproctis chrysorrhoea* L. (Lymantriidae), *Agrotis segetum* Den. et Schiff., *Autographa gamma* L. and *Spodoptera littoralis* Boisd. (Noctuidae). Russia: **EP** (C, NC), **WS** (TK), **ES** (IR), **FE** (AM, KH, PR). – Europe

- (WE, SE, EE), Tunisia, Georgia, Turkey, Syria, Iraq, Jordan, Iran, Turkmenistan, Kazakhstan, Mongolia, Korean Peninsula.
- Aleiodes (Chelonorhogas) hirtus** (Thomson, 1892) [Rogas]. Russia: without regions (van Achterberg et al., 2019a). – Europe (WE, NE, SE, EE), ? Mongolia.
- Aleiodes (Chelonorhogas) kasparyani** Belokobylskij, 2000. Russia: ES (BR, YA).
- Aleiodes (Chelonorhogas) kotenkoi** Belokobylskij, 2000. Russia: FE (KU).
- Aleiodes (Chelonorhogas) krulikowskii** (Kokujev, 1898) [Rhogas] (*Rhogas csikii* Szépligeti, 1901). Russia: EP (C, E), UR, ES (KR, IR), FE (PR). – Europe (NE, EE), Kazakhstan, Mongolia, China (NE).
- Aleiodes (Chelonorhogas) leleji** Belokobylskij, 1996. Russia: ES (ZB).
- Aleiodes (Chelonorhogas) microculatus** (Watanabe, 1937) [Rhogas] (*Rhogas caliginosus* Shestakov, 1940). Russia: FE (PR). – China (CC, SW), Korean Peninsula, Japan (Hok, Hon).
- Aleiodes (Chelonorhogas) miniatus** (Herrich-Schäffer, 1838) [Rhogas] (*Rogas bicoloratus* Boheman, 1853; *Aleiodes formosus* Giraud, 1857). Russia: EP (NW, C, E, S, NC), UR, ES (KS, TU, IR, ZB). – Europe (WE, NE, SE, EE), Turkey, Syria, Kyrgyzstan, Kazakhstan, Mongolia.
- Aleiodes (Chelonorhogas) mongolicus** (Telenga, 1941) [Rhogas]. Russia: ES (ZB). – Mongolia, China (NE, NC, NW).
- Aleiodes (Chelonorhogas) pallidicornis** (Herrich-Schäffer, 1838) [Rogas]. Russia: FE (PR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Iran, Korean Peninsula.
- Aleiodes (Chelonorhogas) pallidistigmus** (Telenga, 1941) [Rhogas] (*Rhogas spretus* Telenga, 1941; *Rogas heterostigma* Stelfox, 1953). Solitary endoparasitoid of *Mythimna separata* Walk. (Noctuidae). Russia: FE (KH, PR, KU). – Europe (WE, NE), China (NE, NC), Korean Peninsula, Japan (Hon).
- Aleiodes (Chelonorhogas) periscelis** (Reinhard, 1863) [Rogas] (*Rhogas jaroslawnensis* Kokujev, 1898). Russia: EP (C), FE (PR). – Europe (WE, EE), Korean Peninsula.
- Aleiodes (Chelonorhogas) przewalskii** (Kokujev, 1898) [Rogas]. Russia: ES (TU). – Mongolia, China (NW, WP).
- Aleiodes (Chelonorhogas) ruficornis** (Herrich-Schäffer, 1838) [Rogas] (*Aleiodes brevicornis* Wesmael, 1838; *A. nigripalpis* Wesmael, 1838; *Rogas dimidiatus* auct.). Solitary endoparasitoid of *Agrotis clavis* Hufn., *A. segetum* Den. et Schiff., *Euxoa nigricans* L., *Hoplodrina blanda* Den. et Schiff., *H. octogenaria* Goeze and *Mythimna impura* Hbn. (Noctuidae). Russia: EP (N, NW, C, E, S, NC, CR), UR, WS (AL), ES (KS, IR, ZB), FE (AM, KH, PR, KA). – Europe (WE, NE, SE, EE), Morocco, Algeria, Tunisia, Georgia, Armenia, Azerbaijan, Turkey, Iran, Afghanistan, Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW), Korean Peninsula.
- Aleiodes (Chelonorhogas) rufipes** (Thomson, 1892) [Rogas]. Russia: EP (C), ES (ZB), FE (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, China (SW).
- Aleiodes (Chelonorhogas) rugulosus** (Nees, 1811) [Bracon] (*Rhogas rugulosus* var. *pictus* Kokujev, 1898). Solitary endoparasitoid of caterpillars from the family Noctuidae. Russia: EP (NW, C, S), ES (IR), FE (KH, PR, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, Mongolia.
- Aleiodes (Chelonorhogas) sapporensis** (Watanabe, 1937) [Rhogas] (*Rhogas ussuriensis* Telenga, 1941). Russia: FE (PR, KU). – China (NE), Japan (Hok).
- Aleiodes (Chelonorhogas) schewyrewi** (Kokujev, 1898) [Rhogas] (*Rhogas schewyrewi* var. *zaydamensis* Kokujev, 1898). Russia: EP (S). – Iran, Mongolia.
- Aleiodes (Chelonorhogas) schirjajewi** (Kokujev, 1898) [Rhogas]. Russia: EP (S, NC, CR), WS (AL), ES (IR), FE (KH, PR, SA). – Europe (SE, EE), Georgia, Azerbaijan, Turkey, Israel, Uzbekistan, Kazakhstan, China (NE, NW, SW).
- Aleiodes (Chelonorhogas) shestakovi** (Shenefelt, 1975) [Rogas] (*Rhogas orientalis* Shestakov, 1940). Russia: FE (PR, KU). – China (NC, CC, SW).
- Aleiodes (Chelonorhogas) sibiricus** (Kokujev, 1903) [Rhogas] (*Rhogas hungaricus* Szépligeti, 1906; *Rh. reinhardi* Fahringer, 1931). Endoparasitoid of *Noctua comes* Hbn. (Noctuidae). Russia: EP (N), ES (KR, IR), FE (AM, PR, KA). – Europe (WE, SE, EE), Turkey, Uzbekistan, Kazakhstan.
- Aleiodes (Chelonorhogas) sirin** Belokobylskij, 1996. Russia: FE (KH, PR, KU).
- Aleiodes (Chelonorhogas) unipunctator** (Thunberg, 1824) [Ichneumon] (*Aleiodes irregularis* Wesmael, 1838). Solitary endoparasitoid of caterpillars from the families Noctuidae and Sesiidae. Russia: EP (NW, C, E), WS (TK), ES (IR), FE (KH, SA, KU). – Europe (WE, NE, SE, EE), Iran, Mongolia, China (NW, WP).
- Aleiodes (Chelonorhogas) wadai** (Watanabe, 1937) [Rhogas]. Russia: ES (BR, ZB), FE (PR). – Mongolia, Japan (Shi).
- Aleiodes (Neorhogas) caucasicus** (Tobias, 1976) [Rogas]. Russia: EP (NC). – Europe (SE, EE), Turkey.
- Aleiodes (Neorhogas) dissector** (Nees, 1834) [Rogas] (*Phylax aestivalis* Vollenhoven, 1858). Endoparasitoid of *Acronicta rumicis* L., *A. tridens* Den. et Schiff., *Orthosia gothioca* L. and *O. incerta* Hufn. (Noctuidae). Russia: EP (NW, C, NC, CR), UR, ES (KR, BR), FE (KH, PR, SA). – Europe (WE, NE, SE, EE), Armenia, Turkey, Mongolia, Korean Peninsula, Japan.
- Aleiodes (Neorhogas) morio** (Reinhard, 1863) [Rogas]. Russia: EP (S). – Europe (WE, NE, EE).
- Aleiodes (Neorhogas) praetor** (Reinhard, 1863) [Rogas] (*Neorhogas luteus* Szépligeti, 1906). Solitary endoparasitoid of caterpillars from the families Erebidae, Lymantriidae and Sphingidae. Russia: EP (S, NC), FE

- (PR). – Europe (WE, NE, SE, EE), Turkey, China (NE, NC, CC, SW, SE), Korean Peninsula, Japan.
- Aleiodes (Neorhogas) pulchripes** Wesmael, 1838. Endoparasitoid of caterpillars from the families Chimabachidae, Erebiidae, Lymantriidae, Noctuidae and Notodontidae. Russia: **EP** (NW, S), **UR**. – Europe (WE, NE, EE), Kazakhstan.
- Aleiodes (Neorhogas) quadrum** Tobias, 1976 (*Rogas illustris* Papp, 1977). Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan, Turkey.
- Aleiodes (Neorhogas) ruficeps** (Telenga, 1941) [Rogas]. Russia: **EP** (S, NC, CR). – Europe (SE, EE), Armenia, Azerbaijan, Turkey, Iran.
- Aleiodes (Tetrasphaeropyx) arcticus** (Thomson, 1892) [Rogas]. Endoparasitoid of *Arctia caja* L. (Arctiidae), *Itame wanaria* L., *Macaria brunneata* Thunb. and *Pygmaena fusca* Thunb. (Geometridae). Russia: **EP** (N, NW, C). – Europe (WE, NE, EE), Turkey, Mongolia.
- HETEROGAMUS** Wesmael, 1838 (*Hyperstemma* Shestakov, 1940). Type species: *Aleiodes crypticornis* Wesmael, 1838 (= *Rogas dispar* Haliday, 1833). Small-sized genus with almost worldwide distribution. Number of species: World – 19, Palaearctic – 8, Russia – 7.
- Heterogamus chloroticus** (Shestakov, 1940) [Hyperstemma] (*Aleiodes aethris* Chen et He, 1997). Endoparasitoid of *Leucoma salicis* L. (Lymantriidae). Russia: **FE** (AM, PR). – China (NE, NC, CC, SW, SE), Korean Peninsula.
- Heterogamus dispar** (Haliday, 1833) [Rogas] (*Rogas dispar* Curtis, 1834; *Aleiodes crypticornis* Wesmael, 1838). Endoparasitoid of *Agrotis segetum* Den. et Schiff. (Noctuidae). Russia: **EP** (N, NW, C, E, NC), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Iran, China (NE, NC, CC, SW, SE), Korean Peninsula, Japan, Vietnam.
- Heterogamus excavatus** Telenga, 1941 (*Heterogamus farmakena* Malic, 1941). Russia: **EP** (NW, C), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Kyrgyzstan, Kazakhstan, China (NE, CC, SE), Vietnam.
- Heterogamus fasciatipennis** Ashmead, 1906. Russia: **FE** (PR, SA, KU). – Japan (Hok, Hon).
- Heterogamus pallidinervis** (Cameron, 1910) [Rhogas] (*Neorhogas kishidai* Ishii, 1935). Endoparasitoid of *Euproctis flava* Bremer (Lymantriidae). Russia: **FE** (PR). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan.
- Heterogamus takasuae** (van Achterberg, 1985) [Aleiodes] (*Aleiodes kytos* Chen et He, 1997). Russia: **FE** (PR). – China (SE), Korean Peninsula, Japan (Hon, Kyu).
- Heterogamus tataniae** Telenga, 1941. Russia: **FE** (KH, PR).
- worldwide distribution. Endoparasitoids of lepidopteran caterpillars with their mummification. Number of species: World – 43, Palaearctic – 18, Russia – 12.
- Clinocentrus arcticus** Hellén, 1927. Russia: **EP** (N: Fahringer, 1932). – Europe (NE).
- Clinocentrus brevicar** (Thomson, 1892) [Exothecus]. Russia: **EP** (NC), **ES** (ZB), **FE** (PR, KU). – Europe (WE, EE).
- Clinocentrus caucasicus** Tobias, 1976. Russia: **EP** (NC), **FE** (PR, SA). – Europe (EE), Abkhazia, Georgia, Azerbaijan, Mongolia, China (SE), Korean Peninsula, Japan (Hon).
- Clinocentrus cunctator** (Haliday, 1836) [Rogas] (*Exothecus analis* Wesmael, 1838; *E. gracilipes* Thomson, 1892). Endoparasitoid of *Anthophila fabriciana* L., *Prochoreutis myllerana* F., *P. sehestediana* F. (Choreutidae) and *Pseudoterpna pruinata* Hufn. (Geometridae). Russia: **EP** (NW, C), **ES** (ZB). – Europe (WE, NE, SE, EE), Georgia, Iran, Korean Peninsula.
- Clinocentrus excubitor** (Haliday, 1836) [Rogas] (*Exothecus marginellus* Wesmael, 1838; *E. tenuicornis* Thomson, 1892). Endoparasitoid of caterpillars from the families Depressariidae, Geometridae, Gracillariidae, Tortricidae and Noctuidae. Russia: **EP** (C, NC), **UR**, **ES** (IR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Iran, Kazakhstan, Korean Peninsula, Japan (Hon, Kyu), Vietnam.
- Clinocentrus exsertor** (Nees, 1811) [Bracon] (*Bracon orbitator* Nees, 1834; *Exothecus striolatus* Thomson, 1892; *Clinocentrus tarsalis* Ashmead, 1894). Endoparasitoid of caterpillars from the families Momphidae and Tortricidae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (OM), **ES** (TU, KR, ZB), **FE** (AM, KA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Israel, Iran, Kazakhstan, Mongolia, Korean Peninsula, N America.
- Clinocentrus kalmyk** Belokobylskij, 1995. Russia: **EP** (S).
- Clinocentrus kozlovi** Belokobylskij, 1995. Russia: **EP** (S). – Mongolia.
- Clinocentrus orientalis** Belokobylskij, 1995. Russia: **ES** (ZB), **FE** (PR). – Korean Peninsula.
- Clinocentrus rhyssipoloides** Belokobylskij, 1995. Russia: **FE** (KH, PR).
- Clinocentrus umbratilis** Haliday, 1833 (*Exothecus petiolaris* Thomson, 1892; *Clinocentrus umbratilis polonicus* Fahringer, 1931). Endoparasitoid of *Catoptria falsella* Den. et Schiff. (Crambidae) and *Hadena* sp. (Noctuidae). Russia: **EP** (NW, C), **ES** (BR), **FE** (KH, PR). – Europe (WE, NE, EE), China (SE), Korean Peninsula, Japan (Kyu).
- Clinocentrus vestigator** (Haliday, 1836) [Rogas] (*Clinocentrus stigmaticus* Marshall, 1897; *C. jaroshevskyi* Telenga, 1941; *Oncophanes obsoletus* Hellén, 1957). Endoparasitoid of *Epermenia chaerophyllella* Goeze, *E. illigerella* Hbn. (Epermeniidae) and *Ypsolopha vittella* L. (Yponomeutidae). Russia: **EP** (C), **UR**, **WS** (NS, KM), **ES** (ZB), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan.

Tribe CLINOCENTRINI

CLINOCENTRUS Haliday, 1833 (*Camptocentrus* Kriechbaumer, 1894; *Microrhogas* Cameron, 1910; *Neorhyssalus* Baker, 1917). Type species: *Clinocentrus umbratilis* Haliday, 1833. Medium-sized genus with almost

TEBENNOTOMA Enderlein, 1912. Type species: *Tebennotoma calvata* Enderlein, 1912. Small and mainly tropical (Oriental and Afrotropical regions) genus, includes four subgenera, *Eorhyssalus* Belokobylskij, 1989, *Neontsira* Rohwer, 1924, *Tebennotoma* s. str. and *Tebennotomoides* Belokobylskij, 2000. Number of species: World – 11, Palaearctic and Russia – 1.

Tebennotoma (Eorhyssalus) spasskensis Belokobylskij, 1996. Russia: **FE** (PR). – Korean Peninsula.

Tribe ROGADINI

ROGAS Nees, 1819 (*Pelecystoma* Wesmael, 1838). Type species: *Ichneumon testaceus* Fabricius, 1798 (= *Rogas luteus* Nees, 1834). Relatively large genus with almost worldwide distribution. Number of species: World – about 100, Palaearctic – 11, Russia – 4.

Rogas luteus Nees, 1834 (*Ichneumon testaceus* Fabricius, 1798, nom. praeocc., nec Gmelin, 1790; *I. testaceator* Thunberg, 1822). Solitary endoparasitoid of caterpillars from the families Erebidae, Geometridae, Limacodidae, Noctuidae, Papilionidae and Tortricidae. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Georgia, Armenia, Azerbaijan, Kazakhstan.

Rogas nigradorsum Belokobylskij, 1996. Russia: **FE** (PR). – Korean Peninsula.

Rogas nigrovenosus (Vojnovskaja-Krieger, 1935) [*Pelecystoma*]. Russia: **FE** (KH, PR, SA). – Korean Peninsula.

Rogas roxana (Telenga, 1941) [*Pelecystoma*]. Russia: **FE** (KH, PR, SA, KU). – Korean Peninsula.

TRIRAPHIS Ruthe, 1855. Type species: *Exothecus discolor* Ruthe, 1855 (= *Pelecystoma tricolor* Wesmael, 1838). Medium-sized genus known from the Holarctic, Oriental and Neotropical regions. Number of species: World – 43, Palaearctic – 11, Russia – 2.

Triraphis pullus Papp, 1995. Russia: **FE** (PR, KU). – Korean Peninsula.

Triraphis tricolor (Wesmael, 1838) [*Pelecystoma*] (*Exothecus discolor* Ruthe, 1855; *Diachasma rimulosa* Marshall, 1898; *Pelecystoma solitarium* Watanabe, 1970). Solitary endoparasitoid of caterpillars mainly from the families Limacodidae. Russia: **EP** (C), **FE** (KH, PR, KU). – Europe (WE, SE, EE), Armenia, Korean Peninsula, Japan.

Tribe YELICONINI

YELICONES Cameron, 1887. Type species: *Yelicones violaceipennis* Cameron, 1887. Peculiar and relatively large genus distributed in all zoogeographical region, but the most abundant in the tropical territories. Number of species: World – 125, Palaearctic – 10, Russia – 1.

Yelicones koreanus Papp, 1985. Russia: **FE** (PR). – China (CC, SE), Korean Peninsula, Japan (Hon), Vietnam.

Subfamily SIGALPHINAE

S.A. BELOKOBYSKIJ

This small and almost worldwide distributed subfamily consists of four tribes, Acampsini, Sigalphini, Minangini and Pselaphanini, and seven genera distributed in all zoogeographic regions. Egg-larval (except *Acampsis*: Shaw, Quicke, 2000) endoparasitoids of Lepidoptera caterpillars.

Number of taxa: World – 7 genera and 45 species, Palaearctic – 2/11, Russia – 2/5.

References. Chen, He, 1992; van Achterberg, Austin, 1992; Belokobylskij, 1993e; Belokobylskij et al., 1998, 2012b; He et al., 2000; Shaw, Quicke, 2000; Yu et al., 2016.

Tribe ACAMPSINI

ACAMPSIS Wesmael, 1835. Type species: *Sigalphus alternipes* Nees, 1816. Small genus distributed in the Palaearctic (mainly in its south-eastern part) and Neotropical (1 species) regions. Endoparasitoids of the caterpillars from the families Geometridae and Noctuidae. Number of species: World – 7, Palaearctic – 6, Russia – 4.

Acampsis alternipes (Nees, 1816) [*Sigalphus*]. Endoparasitoid of caterpillars from the family Geometridae. Russia: **EP** (C), ? **FE** (PR). – Europe (WE, SE, EE).

Remarks. Record of this species in the fauna of the Russian Far East (Telenga, 1941) is perhaps erroneous because may be based on the material actually belonging to other Eastern Palaearctic taxa.

Acampsis brevis van Achterberg et Austin, 1992. Russia: **FE** (PR). – Korean Peninsula.

Acampsis chinensis Chen et He, 1992 (*Acampsis nigrifemur* van Achterberg et Austin, 1992). Endoparasitoid of caterpillars from the family Geometridae. Russia: **FE** (PR). – China (NC), Korean Peninsula, Japan (Hok, Hon, Kyu).

Acampsis chrysotegula Belokobylskij et Tobias, 1993. Russia: **FE** (PR).

Tribe SIGALPHINI

SIGALPHUS Latreille, 1802. Type species: *Ichneumon irrorator* Fabricius, 1775. Small genus distributed in the Holarctic, Oriental, Afrotropical and Neotropical regions. Endoparasitoids of the Noctuidae caterpillars. Number of species: World – 14, Palaearctic – 7, Russia – 1.

Sigalphus irrorator (Fabricius, 1775) [*Ichneumon*] (*Ichneumon niger* Retzius, 1783; *Sphaeropyx irroratrix* Schulz, 1906). Endoparasitoid of caterpillars from the family Noctuidae. Russia: **EP** (C, S, CR), **UR**, **WS** (NS), **ES** (YA), **FE** (AM, KH, KU). – Europe (WE, NE, SE, EE), Iran, Korean Peninsula, Japan.

Subfamily XIPHOZELINAE

S.A. BELOKOBYLSKIY

Larval endoparasitoids of the exposed lepidopteran caterpillars. Only two genera, *Distilirella* van Achterberg, 1979 and *Xiphozele* Cameron, 1906 from the Oriental and Eastern Palaearctic regions, are known in the subfamily.

Number of taxa: World – 2 genera and 16 species, Palaearctic and Russia – 1/1.

References. Van Achterberg, 1979a; Tobias, Belokobylskij, 1981; Belokobylskij et al., 1998.

XIPHOZELE Cameron, 1906. Type species: *Xiphozele compressiventris* Cameron, 1906. Only 13 species are known in the genus of which five species are recorded both in the Oriental and Eastern Palaearctic regions. Number of species: World – 13, Palaearctic and Russia – 1.

Xiphozele compressiventris Cameron, 1906. Endoparasitoid of *Bastilla simillima* Gn. (Erebidae). Russia: **FE** (PR). – China (SW, SE), Korean Peninsula, Japan, India, Sri Lanka, Malaysia, Indonesia, Papua New Guinea.

55. FAMILY APHIDIIDAE

E.M. DAVIDIAN

Solitary koinobiont endoparasitoids exclusive of aphids (Hemiptera). Most of them, including Ephedrinae and Aphidiinae, pupate their cocoon within the mummified body of the host, but all Prainae form their cocoon under the remains of the host (mummy). Although several authors have regarded “Aphidiinae” as a subfamily of Braconidae, this group is treated here as a separate family Aphidiidae within the superfamily Ichneumonoidea and includes 3 subfamilies: Aphidiinae, Ephedrinae and Prainae. Some aphidiids are used for biological control of aphid pests, mostly in greenhouses.

Number of taxa: World – 51 genera and more than 600 species, Palaearctic – 37/about 400, Russia – 31/195.

References. Smith, 1944; Mackauer, Starý, 1967; Starý, Schlinger, 1967; Mackauer, 1968a, 1968b; Takada, 1968; Starý, 1970, 2006; Gärdenfors, 1986; Tobias et al., 1986b; Chen, Shi, 2001; Davidian, 2004, 2005a, 2005b, 2005c, 2007, 2013, 2014, 2015, 2016a, 2016b, 2016c, 2017, 2018a, 2018b; Davidian, Gavriluk, 2010, 2011, 2014; Davidian, Proshchalykin, 2012; Yu et al., 2016; Kocić et al., 2019.

Subfamily APHIDIINAE

Worldwide distributed subfamily comprises seven tribes, Aclitini, Aphidiini, Archaphidini, Lysiphlebini, Monoctonini, Protaphidiini and Trioxini. The fore wing venation is more or less reduced; the sheaths and styli of the ovipositor are straight, bent upwards or downwards and sometimes with

one or two sternal prongs on the apex of metasoma. Pupation occurs within a mummified aphid.

Number of taxa: World – 42 genera and more than 500 species, Palaearctic – more than 30/about 300, Russia – 24/151.

References. Smith, 1944; Mackauer, Starý, 1967; Mackauer, 1968a, 1968b; Takada, 1968; Tobias et al., 1986b; Davidian, 2005b, 2016b, 2017; Starý, 2006; Davidian, Proshchalykin, 2012; Yu et al., 2016.

ACLITUS Foerster, 1863. Type species: *Aclitus obscuripennis* Foerster, 1863. Parasitoids of aphids from the family Aphididae (Anoeciinae, Aphidinae, Calaphidinae and Thelaxinae). Palaearctic distribution. Number of species: World and Palaearctic – 2, Russia – 1.

Aclitus sappaphis Takada et Shiga, 1974. Parasitoid of aphids from the genus *Sappaphis*. Russia: **FE** (PR, KA). – Japan (Hok, Hon, Kyu).

ADIALYTUS Foerster, 1863. Type species: *Adialytus tenuis* Foerster, 1863 (= *Trioxys salicaphis* Fitch, 1855). Parasitoids of aphids from the family Aphididae. Holarctic, Neotropical and Oriental distribution. Number of species: World – 7, Palaearctic – 6, Russia – 5.

Adialytus ambiguus (Haliday, 1834) [Aphidius] (*Aphidius diminuens* Nees, 1834; *A. exiguus* Haliday, 1834; *A. delhiensis* Subba Rao et Sharma, 1960; *Lysiphlebus arvicola* Starý, 1961; *L. mackaueri* Starý, 1961; *L. crocinus* Mackauer, 1962). Parasitoid of numerous aphids from the family Aphididae (Aphidinae and Calaphidinae). Russia: **EP** (C, E, CR), **WS** (NS, KM), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Israel, Iran, Pakistan, Central Asia, Kazakhstan, China (CC), Korean Peninsula, Japan (Hok), N America, India, Hawaii (introduced).

Adialytus balticus Starý et Rakauskas, 1979. Parasitoid of aphids from the genus *Dysaphis*. Russia: **EP** (NW, C). – Europe (NE).

Adialytus salicaphis (Fitch, 1855) [Trioxys] (*Trioxys populaphis* Fitch, 1855; *Adialytus tenuis* Foerster, 1863; *Lipolexis salicaphidis* Ashmead, 1889; *Aphidius laticephalus* Telenga, 1953). Parasitoid of aphids from the genus *Chaitophorus*. Russia: **EP** (NW, C, E, NC), **UR**, **WS** (TM, NS), **ES** (IR), **FE** (PR). – Europe (WE, EE), Caucasus, Turkey, Iraq, Iran, Pakistan, Central Asia, Kazakhstan, China (NE, CC), Korean Peninsula, Japan (Hon, Kyu), N America, Mexico, India.

Adialytus thelaxis (Starý, 1961) [Lysiphlebus]. Parasitoid of aphids from the genus *Thelaxes*. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iraq, Israel, Iran.

Adialytus veronicaecola (Starý, 1978) [Lysiphlebus]. Parasitoid of aphids from the genus *Aphis* on *Veronica longifolia* (Plantaginaceae), *Phaseolus vulgaris* (Fabaceae), *Rubia tinctorum* (Rubiaceae) and *Cucurbita pepo* (Cucurbitaceae). Russia: **EP** (NW, C, E). – Europe (EE), Iran, Kazakhstan.

- APHIDIUS** Nees, 1819 (*Incubus* Schrank, 1802; *Theracmion* Holmgren, 1872; *Lysaphidus* Smith, 1944; *Remaudierea* Starý, 1973; *Tremblayia* Tizado et Núñez-Pérez, 1995). Type species: *Aphidius avenae* Haliday, 1834. Parasitoids of aphids from the family Aphididae (Anoeciinae, Aphidinae, Calaphidinae, Chaitophorinae, Drepanosiphinae, Eriosomatinae and Thelaxinae). Worldwide distribution. Number of species: World – about 130, Palaearctic – more than 70, Russia – 36.
- Aphidius (Aphidius) aquilus** Mackauer, 1961 (*Aphidius sicarius* Mackauer, 1961; *Lysaphidus callipterinellae* Takada, 1966). Parasitoid of aphids from the family Aphididae (Calaphidinae and Thelaxinae). Russia: **EP** (NW, C, NC), **WS** (KM), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Mongolia, Japan (Hok).
- Aphidius (Aphidius) artemisicola** Tizado et Núñez-Pérez, 1994. Parasitoid of aphids from the genera *Macrosiphoniella* and *Titanosiphon*. Russia: **WS** (TM, NS). – Europe (WE, SE, EE).
- Aphidius (Aphidius) arvensis** (Starý, 1960) [Lysaphidus]. Parasitoid of aphids from the genus *Coloradoa*. Russia: **EP** (NW), **UR**. – Europe (WE, SE, EE), Iran.
- Aphidius (Aphidius) asteris** Haliday, 1834 (*Bracon melanocephalus* Nees, 1811; *Aphidius lutescens* Haliday, 1834; *A. absinthii* Marshall, 1896; *A. commodus* Gahan, 1926; *A. artemisiae* Ivanov, 1927). Parasitoid of aphids from the genera *Aphis*, *Brachycaudus*, *Capitophorus*, *Lipaphis*, *Macrosiphoniella*, *Macrosiphum*, *Melanaphis*, *Myzus* and *Phalangomyzus*. Russia: **EP** (NW, C), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Israel, Iran, Pakistan, Central Asia, Kazakhstan, Mongolia, China (NE, NC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu), N America, India.
- Aphidius (Aphidius) avenae** Haliday, 1834 (*Bracon picipes* Nees, 1811; *Aphidius crithmi* Marshall, 1896; *A. granarius* Marshall, 1896; *A. pascuorum* Marshall, 1896; *Lysiphlebus hungaricus* Györfi, 1958; *Aphidius caraganae* Starý, 1963). Parasitoid of numerous aphids from the family Aphididae (Aphidinae). Russia: **EP** (N, NW, NC), **UR**, **WS** (TM, AL). – Europe (WE, NE, SE, EE), N Africa, Turkey, Lebanon, Iran, Pakistan, Mongolia, China (NC, NW, CC, SE), Japan (Hok, Kyu), N America (introduced), India, Afrotropics (introduced), S America (introduced).
- Aphidius (Aphidius) balcanicus** Tomanović et Petrović, 2011. Parasitoid of aphids from the genus *Acyrtosiphon*. Russia: **EP** (NC), **WS** (TM, NS, AL). – Europe (SE), Caucasus.
- Aphidius (Aphidius) colemani** Viereck, 1912 (*Aphidius huebrichi* Brèthes, 1913; *A. platensis* Brèthes, 1913; *A. porteri* Brèthes, 1915; *A. aphidiphilus* Benoit, 1955; *A. leroysi* Benoit, 1955). Parasitoid of numerous aphids from the family Aphididae (Aphidinae, Chaitophorinae and Thelaxinae). Russia: **EP** (S, NS), **WS** (NS), **ES** (BR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Syria, Iraq, Jordan, Lebanon, Israel, Qatar, Iran, Pakistan, Central Asia, China (NE, CC, SE), Korean Peninsula, Japan (introduced), N America (introduced), Mexico, India, SE Asia, Africa, Madagascar, Costa Rica, S America (introduced), Oceanic region (introduced), Australia (introduced).
- Aphidius (Aphidius) eadyi** Starý, Gonzáles et Hall, 1980. Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis* and *Sitobion*. Russia: **EP** (NW, C), **UR**, **WS** (TM, AL). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, N America (introduced), Afrotropics (introduced), New Zealand (introduced).
- Aphidius (Aphidius) eglanteriae** Haliday, 1834. Parasitoid of aphids from the genera *Chaitophorus*, *Chaetosiphon*, *Longicaudus*, *Macrosiphoniella*, *Myzaphis* and *Myzus*. Russia: **EP** (NW, NC), **WS** (NS). – Europe (WE, NE, SE, EE), Turkey, India.
- Aphidius (Aphidius) ervi** Haliday, 1834 (*Bracon infirmus* Nees, 1811; *Aphidius ulmi* Marshall, 1896; *A. medicaginis* Marshall, 1898; *A. fumipennis* Györfi, 1958; *A. nigrescens* Mackauer, 1962; *A. mirotarsi* Starý, 1963). Parasitoid of numerous aphids from the family Aphididae (Aphidinae, Calaphidinae and Eriosomatinae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TM, NS, AL), **ES** (KR, IR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Lebanon, Israel, United Arab Emirates, Yemen, Iran, Afghanistan, Pakistan, Central Asia, China (NE, CC, SW, SE), Korean Peninsula, Japan (Hok), N America (introduced), Mexico, India, Afrotropics (introduced), S America (introduced), Australia (introduced), New Zealand (introduced).
- Aphidius (Aphidius) erysimi** (Starý, 1960) [Lysaphidus]. Parasitoid of aphids from the genera *Lipaphis*, *Myzus* and *Pseudobrevicoryne*. Russia: **EP** (NW, C). – Europe (EE), Kazakhstan, India.
- Aphidius (Aphidius) funebris** Mackauer, 1961 (*Aphidius bispinosus* Telenga, 1958; *A. eriophori* Mackauer, 1967). Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis*, *Aulacorthum*, *Capitophorus*, *Linosisiphon*, *Macrosiphum*, *Nasonovia*, *Paczoskia* and *Uroleucon*. Russia: **EP** (NW, C, S, NC), **WS** (NS, AL). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Iran, Central Asia, Kazakhstan, China (SE), Japan (Hok), India.
- Aphidius (Aphidius) gifuensis** Ashmead, 1906. Parasitoid of numerous aphids from the family Aphididae (Aphidinae). Russia: **FE** (PR). – China (NE, CC, SW, SE), Korean Peninsula, Japan (Hok, Shi, Kyu), N America (introduced), India.
- Aphidius (Aphidius) hieraciorum** Starý, 1962. Parasitoid of aphids from the genus *Nasonovia*. Russia: **EP** (NW, C), **WS** (NS). – Europe (WE, NE, SE, EE), Iran.
- Aphidius (Aphidius) hortensis** Marshall, 1896 (*Aphidius berberidis* Smith, 1944). Parasitoid of aphids from the genera *Diuraphis*, *Drepanosiphum*, *Liosomaphis*, *Macrosiphum* and *Schizaphis*. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Caucasus, Iran, N America, India, Afrotropics.

- Aphidius (Aphidius) matricariae** Haliday, 1834 (*Aphidius arundinis* Haliday, 1834; *A. phorodontis* Ashmead, 1889; *A. chrysanthemi* Marshall, 1896; *A. lychnidis* Marshall, 1896; *A. polygami* Marshall, 1896; *A. affinis* Quilis, 1931; *A. baudysi* Quilis, 1931; *A. discrytus* Quilis, 1931; *A. merceti* Quilis, 1931; *A. obscuriformis* Quilis, 1931; *A. valentinus* Quilis, 1931; *A. renominatus* Hincks, 1943; *A. nigriteles* Smith, 1944). Parasitoid of numerous aphids from the family Aphididae (Anoeciinae, Aphidinae, Calaphidinae, Chaitophorinae, Eriosomatinae). Russia: **EP** (C, NC), **WS** (TM). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Lebanon, Israel, Yemen, Iran, Pakistan, Central Asia, Kazakhstan, Mongolia, China (NE, CC, SW, SE), India, SE Asia, N and S America (introduced), Afrotropics (introduced), Australia (introduced).
- Aphidius (Aphidius) medvedevi** Davidian, 2009. Parasitoid of aphids from the genus *Brachycaudus*. Russia: **WS** (AL).
- Aphidius (Aphidius) megourae** Starý, 1963. Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis* and *Megoura*. Russia: **EP** (NW, C). – Europe (WE, EE).
- Aphidius (Aphidius) microlophii** Pennacchio et Tremblay, 1988. Parasitoid of aphids from the genus *Microlophium*. Russia: **EP** (N, NW), **WS** (AL). – Europe (WE, SE, EE).
- Aphidius (Aphidius) phalangomyzi** Starý, 1963. Parasitoid of aphids from the genus *Macrosiphoniella*. Russia: **EP** (NW), **WS** (AL). – Europe (WE, SE, EE), China (CC).
- Aphidius (Aphidius) rhopalosiphi** de Stefani-Perez, 1902 (*Aphidius equiseticola* Starý, 1963; *A. poacearum* Starý, 1963). Parasitoid of aphids from the genera *Diuraphis*, *Hyalopteroides*, *Israelaphis*, *Metopolophium*, *Myzus*, *Rhopalosiphum*, *Schizaphis*, *Sitobion* and *Uroleucon*. Russia: **EP** (NW, C), **UR**, **WS** (NS, AL). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Iran, Pakistan, Central Asia, Kazakhstan, China (NE, CC), N America (introduced), India, S America (introduced), New Zealand.
- Aphidius (Aphidius) ribis** Haliday, 1834 (*Lysiphlebus ribaphidis* Ashmead, 1889; *Aphidius scabiosae* Marshall, 1896). Parasitoid of aphids from the genera *Aphis*, *Brachycaudus*, *Brevicoryne*, *Cryptomyzus*, *Hyalopterus*, *Hyperomyzus*, *Macrosiphum*, *Myzus*, *Nasonovia*, *Phorodon*, *Neomikiella* and *Uroleucon*. Russia: **EP** (NW, C), **UR**, **WS** (KM, AL). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Iran, Pakistan, Central Asia, Kazakhstan, China (CC), N America, Mexico, India.
- Aphidius (Aphidius) rosae** Haliday, 1834 (*Ichneumon aphidum* Linnaeus, 1758 (suppressed); *I. aphidator* Thunberg, 1824 (suppressed); *Aphidius rosarum* Nees, 1834; *A. xanthostoma* Bouché, 1834; *A. protaeus* Wesmael, 1835; *A. cancellatus* Buckton, 1876; *A. confusus* Ashmead, 1889). Parasitoid of aphids from the genera *Aphis*, *Brachycaudus*, *Chaetosiphon*, *Drepanosiphum*, *Hyalopterus*, *Ilinioia*, *Lipaphis*, *Macrosiphoniella*, *Macrosiphum*, *Myzus*, *Schizaphis*, *Sitobion* and *Uroleucon*. Russia: **EP** (NW, C, NC), **UR**, **WS** (TM, NS, AL). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iraq, Israel, Iran, Pakistan, Central Asia, Kazakhstan, China (NE, CC, SE), N America, India, SE Asia, S America.
- Aphidius (Aphidius) salicis** Haliday, 1834 (*Aphidius restrictus* Nees, 1834; *A. duodecimarticulatus* Ratzeburg, 1852; *A. dauci* Marshall, 1896). Parasitoid of aphids from the genera *Aphis*, *Cavariella*, *Dysaphis*, *Hayhurstia*, *Hyadaphis* and *Semiaphis*. Russia: **EP** (NW, C, NC), **FE** (KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Israel, Iran, Central Asia, China (NC, NW, CC, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), N and S America (introduced), India, Australia and New Zealand (introduced).
- Aphidius (Aphidius) sonchi** Marshall, 1896. Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis*, *Aulacorthum*, *Cryptomyzus*, *Hyalopterus*, *Hyperomyzus*, *Rhopalosiphum* and *Uroleucon*. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iraq, Israel, Kazakhstan, China (NE, CC, SE), Korean Peninsula, Japan (Hon, Kyu), India, Australia and New Zealand (introduced).
- Aphidius (Aphidius) stigmaticus** Rakhshani et Tomanović, 2011. Parasitoid of aphids from the genus *Macrosiphoniella*. Russia: **EP** (NW). – Iran.
- Aphidius (Aphidius) sussi** Pennacchio et Tremblay, 1989. Parasitoid of aphids from the genus *Delphinobium*. Russia: **WS** (NS, AL). – Europe (SE, EE).
- Aphidius (Aphidius) tanacetarius** Mackauer, 1962 (*Aphidius tanaceticola* Starý, 1963). Parasitoid of aphids from the genera *Aphis*, *Metopeurum* and *Microsiphum*. Russia: **EP** (N, NW, C, NC). – Europe (WE, SE, EE), Iran.
- Aphidius (Aphidius) transcaspicus** Telenga, 1958 (*Aphidius magda* Mescheloff et Rosen, 1990). Parasitoid of aphids from the genera *Amphorophora*, *Aphis*, *Brachycaudus*, *Hyalopterus*, *Melanaphis*, *Myzus*, *Phorodon* and *Rhopalosiphum*. Russia: **EP** (NC). – Europe (WE, SE, EE), N Africa, Turkey, Iraq, Israel, Iran, Pakistan, Central Asia, China, Korean Peninsula, Japan (Kyu), N America (introduced), India.
- Aphidius (Aphidius) urticae** Haliday, 1834 (*Aphidius euphorbiae* Marshall, 1896; *A. longulus* Marshall, 1896; *A. loniceriae* Marshall, 1896; *A. silenes* Marshall, 1896; *A. goidanichi* Quilis, 1932; *A. ivanovae* Telenga, 1958; *A. silvaticus* Starý, 1962; *A. aulacorthi* Starý, 1963). Parasitoid of numerous aphids from the family Aphididae (Aphidinae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (NS, AL), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Iran, Afghanistan, Pakistan, Central Asia, Kazakhstan, China (CC, SE), Korean Peninsula, Japan, N America (introduced), India, New Zealand.
- Aphidius (Aphidius) uzbekistanicus** Luzhetskii, 1960 (*Aphidius beltrani* Quilis, 1931; *A. indivisus* Quilis, 1931; *A. macropterus* Quilis, 1931; *A. pailloti* Quilis, 1931; *A. impressus* Mackauer, 1965). Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis*, *Diuraphis*, *Impatiensium*, *Melanaphis*, *Metopolophium*, *Myzus*, *Schizaphis*,

- Sipha* and *Sitobion*. Russia: **EP** (NW, C, NC), **UR**, **WS** (NS, AL), **ES** (ZB), **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Iran, Pakistan, Central Asia, Kazakhstan, China (NE, NC, NW, CC, SE), Japan, N America (introduced), India, S America (introduced).
- Aphidius** (**Aphidius**) **viaticus** (Sedlag, 1969) [Lysaphidus]. Parasitoid of aphids from the genera *Macrosiphoniella* and *Pleotrichophorus*. Russia: **EP** (NW), **FE** (PR). – Europe (WE, SE).
- Aphidius** (**Euaphidius**) **areolatus** Ashmead, 1906. Parasitoid of aphids from the genera *Macrosiphoniella* and *Periphyllus*. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Kyu), N America, India.
- Aphidius** (**Euaphidius**) **cingulatus** (Ruthe, 1859) [Aphidius] (*Theracmion arcticus* Holmgren, 1872; *Aphidius gregarius* Marshall, 1872; *A. lachni* Ashmead, 1889; *A. pterocommae* Ashmead, 1889; *A. luzhetzki* Telenga, 1958). Parasitoid of aphids from the genera *Acyrtosiphon*, *Chaitophorus* and *Pterocomma*. Russia: **EP** (N, NW, C), **UR**, **WS** (TM, NS, KM), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Iran, Central Asia, Kazakhstan, China (NE, CC), Korean Peninsula, Japan (Hok), N America, Mexico, India.
- Aphidius** (**Euaphidius**) **plocamaphidis** (Stary, 1973) [Remaudierea]. Parasitoid of aphids from the genus *Plocamaphis*. Russia: **EP** (N). – Europe (WE, EE).
- Aphidius** (**Euaphidius**) **setiger** (Mackauer, 1961) [Euaphidius] (*Aphidius aceri* Ivanov, 1925). Parasitoid of aphids from the genera *Myzocallis* and *Periphyllus*. Russia: **EP** (NW, C, NC), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, N America, India, Afrotropics.
- BETULOXYYS** Mackauer, 1960. Type species: *Trioxys compressicornis* Ruthe, 1859. Parasitoids of aphids from the family Aphididae (Aphidinae and Calaphidinae). Holarctic and Oriental distribution. Number of species: World – 10, Palaearctic – 6, Russia – 5.
- Betuloxys compressicornis** (Ruthe, 1859) [Trioxys] (*Trioxys testaceus* Stelfox, 1948). Parasitoid of aphids from the genus *Euceraphis*. Russia: **EP** (N, NW), **UR**, **WS** (NS). – Europe (WE, NE, SE, EE), N America.
- Betuloxys hortorum** (Stary, 1960) [Trioxys] (*Trioxys affinis* Mackauer, 1960). Parasitoid of aphids from the genera *Myzocallis* and *Tinocallis*. Russia: **EP** (NC). – Europe (WE, EE), Caucasus, Iran, India.
- Betuloxys kamijoi** (Takada, 1968) [Trioxys]. Russia: **FE** (PR). – Japan (Hok).
- Betuloxys kostyukovi** Davidian, 2005. Russia: **EP** (NW).
- Betuloxys sugonyaevi** Davidian, 2005. Russia: **FE** (PR).
- BINODOXYYS** Mackauer, 1960 (*Misaphidius* Rondani, 1877). Type species: *Aphidius* (*Trioxys*) *angelicae* Haliday, 1833. Parasitoids of aphids from the family Aphididae (Aphidinae, Calaphidinae, Chaitophorinae, Eriosomatinae). Holarctic, Afrotropical, Neotropical and Oriental distribution. Number of species: World – more than 70, Palaearctic – more than 20, Russia – 10.
- Binodoxys acalephae** (Marshall, 1896) [Aphidius] (*Trioxys amoplanus* Quilis, 1934; *T. rietscheli* Mackauer, 1959; *T. urticae* Mackauer, 1959). Parasitoid of aphids from the genera *Aphis*, *Brachycaudus*, *Hysteroneura*, *Macrosiphum*, *Phorodon*, *Rhopalosiphum*, *Shinjia*, *Toxoptera* and *Uroleucon*. Russia: **EP** (NW, C, E, NC), **UR**, **WS** (NS), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Yemen, Iran, Central Asia, Kazakhstan, Mongolia, China (CC, SE), Korean Peninsula, India, Afrotropics (introduced).
- Binodoxys angelicae** (Haliday, 1833) [Aphidius] (*Trioxys placidus* Gautier, 1922; *T. boscai* Quilis, 1931; *T. fumariae* Quilis, 1931; *T. granatensis* Quilis, 1931; *T. obscuriformis* Quilis, 1931; *T. amoplanus* Quilis, 1934; *T. mediterraneus* Mackauer, 1960). Parasitoid of aphids from the family Aphididae (Aphidinae, Calaphidinae, Chaitophorinae and Eriosomatinae). Russia: **EP** (NW, C, E, NC, CR), **UR**, **WS** (NS, KM), **ES** (IR), **FE** (PR, KU, KA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Lebanon, Israel, Iran, Pakistan, Central Asia, Kazakhstan, China (NE), N America (introduced), India, Afrotropics (introduced).
- Binodoxys brevicornis** (Haliday, 1833) [Aphidius] (*Aphidius minutus* Haliday, 1833). Parasitoid of aphids from the genera *Cavariella*, *Hiadaphis*, *Lipaphis*, *Myzus* and *Staegeriella*. Russia: **EP** (N, NW, C, E, NC), **UR**, **WS** (NS), **ES** (IR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Iran, Central Asia, Kazakhstan, N America (introduced), India, SE Asia, S America.
- Binodoxys centaureae** (Haliday, 1833) [Aphidius] (*Trioxys orientalis* Stary et Schlinger, 1967; *Binodoxys uroleucon* Takada et Rishi, 1980). Parasitoid of aphids from the genera *Amphorophora*, *Aphis*, *Brachycaudus*, *Capitophorus*, *Macrosiphoniella*, *Macrosiphum*, *Microlophium*, *Rhopalosiphum*, *Sitobion* and *Uroleucon*. Russia: **EP** (NW, C, E, NC), **UR**, **WS** (TM), **ES** (IR), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Central Asia, Kazakhstan, China (NE, CC, SW, SE), Korean Peninsula, Japan (Hon, Kyu), India.
- Binodoxys genistae** (Mackauer, 1960) [Trioxys]. Parasitoid of aphids from the genera *Aphis* and *Rhopalomyzus*. Russia: **UR**, **ES** (IR), **FE** (PR). – Europe (WE, EE), Kazakhstan.
- Binodoxys heraclei** (Haliday, 1833) [Aphidius] (*Aphidius obsoletus* Wesmael, 1835; *Trioxys variegator* Szépligeti, 1898). Parasitoid of aphids from the genus *Cavariella*. Russia: **EP** (N, NW, C, E, NC), **WS** (AL), **ES** (KS, ZB), **FE** (AM, PR, SA, CH). – Europe (WE, NE, SE, EE), Turkey, Iran, Central Asia, Kazakhstan, China, Nepal.
- Binodoxys indicus** (Subba Rao et Sharma, 1958) [Trioxys]. Parasitoid of aphids from the family Aphididae (Aphidinae, Chaitophorinae and Eriosomatinae). Russia: **FE** (PR, SA, KU). – Pakistan, China (NC, CC, SW, SE),

- Korean Peninsula, Japan, N America (introduced), India, Sri Lanka, Bangladesh, SE Asia.
- Binodoxys staryi** Davidian, 2007. Russia: **FE** (PR).
- Binodoxys tobiasi** Davidian, 2004. Russia: **FE** (PR).
- Binodoxys toxopterae** (Takada, 1966) [Trioxys]. Parasitoid of aphids from the genus *Toxoptera*. Russia: **FE** (PR). – Central Asia, China (SE), Japan (Ryu).
- CALAPHIDIUS** Mackauer, 1961 (*Amonoctonus* Takada, 1968). Type species: *Calaphidius elegans* Mackauer, 1961. Parasitoids of aphids from the family Aphididae (Hormaphidinae). Monotypic Palaearctic genus.
- Calaphidius elegans** Mackauer, 1961 (*Monoctonus watana-bei* Takada, 1965). Parasitoid of aphids from the genus *Hamamelistes*. Russia: **EP** (NW), **ES** (ZB), **FE** (PR, KA). – Europe (WE, NE, EE), Japan (Hok).
- CHAETOPAUESIA** Mackauer, 1967. Type species: *Chaetopauesia talis* Mackauer, 1967. Parasitoids of aphids from the family Aphididae (Lachninae). Holarctic distribution. Number of species: World – 3, Palaearctic and Russia – 1.
- Chaetopauesia mackaueri** Davidian, 2007. Russia: **FE** (PR).
- DIAERETELLUS** Stárý, 1960. Type species: *Aphidius ephippium* Haliday, 1834. Parasitoids of aphids from the family Aphididae (Aphidinae and Saltusaphidinae). Holarctic and Oriental distribution. Number of species: World – 5, Palaearctic – 5, Russia – 4.
- Diaeretellus ephippium** (Haliday, 1833) [Aphidius]. Parasitoid of aphids from the genera *Cryptaphis* and *Decorosiphon*. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Diaeretellus heinzei** (Mackauer, 1959) [Aphidius]. Parasitoid of aphids from the genus *Decorosiphon*. Russia: **EP** (NW), **UR**, **WS** (KM), **FE** (KA). – Europe (WE, EE), Caucasus, Kazakhstan.
- Diaeretellus macrocarpus** Mackauer, 1961. Parasitoid of aphids from the genera *Iziphya*, *Subsaltusaphis* and *Trichocallis*. Russia: **EP** (N, NW, C), **WS** (TM), **FE** (PR). – Europe (WE, NE, SE, EE), Central Asia.
- Diaeretellus palustris** Stárý, 1971. Parasitoid of aphids from the genera *Aphis* and *Rhopalosiphum*. Russia: **EP** (NW). – Europe (WE, SE, EE), N America, India.
- DIAERETIELLA** Stárý, 1960. Type species: *Aphidius rapae* M'Intosh, 1855. Parasitoids of aphids from the family Aphididae. Monotypic and worldwide distributed genus.
- Diaeretiella rapae** (M'Intosh, 1855) (*Aphidius vulgaris* Bouché, 1834; *Misaphidius halticae* Rondani, 1877; *Trioxys piceus* Cresson, 1879; *Lipolexis chenopodiaphidis* Ashmead, 1889; *Aphidius brassicae* Marshall, 1896; *Diaeretus californicus* Baker, 1909; *Lysiphlebus crawfordi* Rohwer, 1909; *Diaeretus nipponensis* Viereck, 1911; *D. obsoletus* Kurdjumov, 1913; *D. napus* Quilis, 1931; *D. croaticus* Quilis, 1934; *D. plesiorapae* Blanchard, 1940; *D. aphidum* Mukerji et Chatterjee, 1950). Parasitoid of aphids from the family Aphididae (Aphidinae, Lachninae, Saltusaphidinae and Thelaxinae). Russia: **EP** (N, NW, C, NC, CR), **UR**, **WS** (OM, AL), **ES** (TU, IR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Syria, Iraq, Jordan, Lebanon, Israel, United Arab Emirates, Yemen, Iran, Afghanistan, Pakistan, Central Asia, Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, Japan (Hok, Kyu), N America (introduced), India, Sri Lanka, SE Asia, Afrotropics, Costa Rica, Cuba, Puerto Rico, S America, Australia (introduced), New Zealand.
- DIAERETUS** Foerster, 1863. Type species: *Aphidius leucopterus* Haliday, 1834. Parasitoids of aphids from the family Aphididae (Lachninae and Mindarinae). Holarctic, Oriental and Neotropical distribution. Number of species: World – 3, Palaearctic and Russia – 1.
- Diaeretus leucopterus** (Haliday, 1834) [Aphidius] (*Aphidius expectatus* Gautier et Bonnamour, 1936). Parasitoid of aphids from the genera *Cinara*, *Eulachnus*, *Essigella*, *Mindarus* and *Schizolachnus*. Russia: **EP** (N, NW, C, NC), **UR**, **FE** (AM). – Europe (WE, NE, SE, EE), Israel, Central Asia, China (CC, SE), Korean Peninsula, Japan (Hok), India, SE Asia.
- FALCICONUS** Mackauer, 1959. Type species: *Aphidius pseudoplatani* Marshall, 1896. Parasitoids of aphids from the family Aphididae (Aphidinae and Drepanosiphinae). Palaearctic and Oriental distribution. Number of species: World, Palaearctic and Russia – 2.
- Falciconus longiradius** (Takada, 1966) [Monoctonus]. Parasitoid of aphids from the genus *Macrosiphoniella*. Russia: **FE** (PR). – Japan (Hok), India.
- Falciconus pseudoplatani** (Marshall, 1896) [Aphidius]. Parasitoid of aphids from the genus *Drepanosiphum*. Russia: **EP** (NW, C, NC). – Europe (WE, NE, SE, EE).
- HARKERIA** Cameron, 1900. Type species: *Harzeria rufa* Cameron, 1900. Parasitoids of aphids from the family Aphididae (Aphidinae). Holarctic distribution. Number of species: World and Palaearctic – 2, Russia – 1.
- Harkeria angustivalva** (Stárý, 1959) [Monoctonus]. Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis* and *Nasonovia*. Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Caucasus.
- LIPOLEXIS** Foerster, 1863 (*Gynocryptus* Quilis, 1931). Type species: *Lipolexis gracilis* Foerster, 1863. Parasitoids of aphids from the family Aphididae. Holarctic, Neotropical, Oceanic and Oriental distribution. Number of species: World – 4, Palaearctic – 2, Russia – 1.
- Lipolexis gracilis** Foerster, 1863 (*Aphidius palpator* Gautier et Bonnamour, 1931; *Gynocryptus pieltaini* Quilis, 1931; *Lipolexis chinensis* Chen, 1980). Parasitoid of aphids from

- the family Aphididae (Anoeciinae, Aphidinae, Calaphidinae, Greenideinae). Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (NS), **ES** (IR), **FE** (AM, PR, KU). – Europe (WE), N Africa, Caucasus, Turkey, Lebanon, Iran, Pakistan, Central Asia, Kazakhstan, China (NE, CC, SE), Korean Peninsula, Japan (Hok, Hon, Kyu, Ryu), India, SE Asia, Afrotropics (introduced).
- LYSIPHLEBIA** Starý et Schlinger, 1967. Type species: *Lysiphlebus japonicus* Ashmead, 1906. Parasitoids of aphids from the family Aphididae. Palaearctic and Oriental distribution. Number of species: World – 5, Palaearctic – 2, Russia – 1.
- Lysiphlebia japonica** (Ashmead, 1906) [*Lysiphlebus*] (*Lysiphlebia mizrai* Schujauddin, 1975; *L. sacchari* Chen, 1980). Parasitoids of aphids from the family Aphididae (Aphidinae, Baltichaitophorinae, Greenideinae). Russia: **FE** (PR, KU). – China (NE, NW, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), N America (introduced), India, SE Asia.
- LYSIPHLEBUS** Foerster, 1863 (*Platycyphus* Mackauer, 1960). Type species: *Bracon dissolutus* Nees, 1811. Parasitoids of aphids from the family Aphididae (Anoeciinae, Aphidinae, Calaphidinae, Chaitophorinae, Eriosomatinae, Lachnina, Saltusaphidinae). Worldwide distribution. Number of species: World – about 25, Palaearctic – 17, Russia – 10.
- Lysiphlebus (Lysiphlebus) balcanicus** Starý, 1998. Parasitoid of aphids from the genus *Aphis*. Russia: **WS** (NS). – Europe (WE, SE).
- Lysiphlebus (Lysiphlebus) dissolutus** (Nees, 1834) [*Bracon*] (*Lysiphlebus macrocornis* Mackauer, 1960). Parasitoid of aphids from the genera *Anoecia*, *Aphis* and *Brachycaudus*. Russia: **EP** (N, NW, C, E), **UR**, **WS** (NS, AL). – Europe (WE, NE, SE, EE), Caucasus, Kazakhstan.
- Lysiphlebus (Phlebus) alpinus** Starý, 1971. Parasitoid of aphids from the genus *Semiaphis*. Russia: **EP** (C). – Europe (WE, SE).
- Lysiphlebus (Phlebus) confusus** Tremblay et Eady, 1978. Parasitoid of aphids from the family Aphididae (Aphidinae, Calaphidinae, Chaitophorinae). Russia: **EP** (NW, C, E, NC), **UR**, **WS** (NS, KM, AL), **ES** (IR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Lebanon, Israel, United Arab Emirates, Iran, Kazakhstan, China, India.
- Lysiphlebus (Phlebus) desertorum** Starý, 1965. Parasitoid of aphids from the genera *Aphis*, *Brachyunguis*, *Cryptosiphum* and *Semiaphis*. Russia: **FE** (PR). – Europe (EE), Iran, Central Asia, Kazakhstan, China (CC, SE).
- Lysiphlebus (Phlebus) fabarum** (Marshall, 1896) [*Aphidius*] (*Misaphidius aphidiperda* Rondani, 1877; *Aphidius monilicornis* Thomson, 1895; *A. cardui* Marshall, 1896; *A. auranitii* Pierantoni, 1907; *A. gomezi* Quilis, 1930; *A. janini* Quilis, 1930; *Lysiphlebus inermis* Quilis, 1931; *L. innovates* Quilis, 1931; *L. moroderi* Quilis, 1931; *L. ivanovi* Mackauer, 1967). Parasitoid of aphids from the family Aphididae (Anoeciinae, Aphidinae, Chaitophorinae, Eriosomatinae, Lachninae, Saltusaphidinae). Russia: **EP** (NW, C, E, NC), **UR**, **WS** (NS, KM, AL), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Syria, Iraq, Lebanon, Israel, Iran, Afghanistan, Pakistan, Central Asia, Kazakhstan, Mongolia, China (NE, NW, CC, SW, SE), Korean Peninsula, Japan, N America (introduced), India, Afrotropics (introduced), Australia (introduced).
- Lysiphlebus (Phlebus) fritzmülleri** Mackauer, 1960. Parasitoid of aphids from the genera *Aphis* and *Dysaphis*. Russia: **EP** (NW, C, E, NC), **UR**, **WS** (KM, AL), **FE** (AM, KA). – Europe (WE, NE, SE, EE), Caucasus, Central Asia.
- Lysiphlebus (Phlebus) hirticornis** Mackauer, 1960. Parasitoid of aphids from the genus *Metopeurum*. Russia: **EP** (NW, C), **WS** (NS), **FE** (AM, PR). – Europe (WE, NE, EE), Central Asia, Kazakhstan, Mongolia.
- Lysiphlebus (Phlebus) orientalis** Starý et Rakhshani, 2010. Parasitoid of aphids from the genus *Aphis*. Russia: **EP** (NW, NC). – Europe (SE), China (NE).
- Lysiphlebus (Phlebus) ussuriensis** Kiriak, 1979. Parasitoid of aphids from the genus *Acyrtosiphon*. Russia: **ES** (IR), **FE** (PR).
- METAPHIDIUS** Starý et Sedlag, 1959. Type species: *Aphidius (Metaphidius) trioxyformis* Starý et Sedlag, 1959 (= *Coelonotus aterrimus* Fahringer, 1935). Parasitoids of aphids from the family Aphididae (Lachninae). Monotypic Palaearctic genus.
- Metaphidius aterrimus** (Fahringer, 1935) [*Coelonotus*] (*Aphidius trioxyformis* Starý et Sedlag, 1959). Parasitoid of aphids from the genus *Cinara*. Russia: **EP** (N), **WS** (NS). – Europe (WE, NE, SE, EE).
- MONOCTONIA** Starý, 1962. Type species: *Monoctonia pistaciaecola* Starý, 1962. Parasitoids of aphids from the family Aphididae (Eriosomatinae). Palaearctic distribution. Number of species: World and Palaearctic – 3, Russia – 2.
- Monoctonia japonica** Rakhshani et Tomanović, 2015. Parasitoid of aphids from the genus *Pemphigus*. Russia: **ES** (KS). – Japan (Hok).
- Monoctonia pistaciaecola** Starý, 1962. Parasitoid of aphids from the genera *Aploneura*, *Forda*, *Geoica* and *Smynturodes*. Russia: **EP** (CR). – Europe (SE, EE), Iraq, Israel, Central Asia.
- MONOCTONUS** Haliday, 1833. Type species: *Aphidius caricis* Haliday, 1833. Parasitoids of aphids from the family Aphididae (Aphidinae, Calaphidinae, Drepanosiphinae). Holarctic, Neotropical, Oceanic and Oriental distribution. Number of species: World – 19, Palaearctic – 13, Russia – 5.

- Monoctonus caricis** (Haliday, 1833) [Aphidius]. Parasitoid of aphids from the genera *Aulacorthum*, *Brachycaudus*, *Cryptomyzus*, *Melanaphis*, *Metopolophium*, *Myzus*, *Paramyzus*, *Rhopalosiphum* and *Sitobion*. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE), N America.
- Monoctonus crepidis** (Haliday, 1834) [Aphidius] (*Aphidius tuberculatus* Wesmael, 1835; *Monoctonus paludum* Marshall, 1896). Parasitoid of aphids from the genera *Aphis*, *Liosomaphis*, *Myzus*, *Hyperomyzus* and *Nasonovia*. Russia: **EP** (NW, C, NC), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, N America, India.
- Monoctonus leclanti** Tomanović et Starý, 2002. Parasitoid of aphids from the genus *Delphinobium*. Russia: **EP** (NW, NC), **FE** (KU). – Europe (SE, EE).
- Monoctonus mali** van Achterberg, 1989. Parasitoid of aphids from the genera *Aphis*, *Dysaphis* and *Rhopalosiphum*. Russia: **EP** (NW). – Europe (NE, SE, EE), Turkey, Iran.
- Monoctonus nervosus** (Haliday, 1833) [Aphidius] (*Aphidius paulensis* Ashmead, 1902; *Monoctonus secundus* Viereck, 1915; *M. biroi* Györfi, 1958; *M. brevipennis* Starý, 1959). Parasitoid of aphids from the genera *Acyrtosiphon*, *Amphorophora*, *Aphis*, *Ilinoia*, *Impatiens*, *Macrosiphum*, *Myzus*, *Rhopalosiphum* and *Sitobion*. Russia: **EP** (N, NW, NC), **WS** (TM), **ES** (YA), **FE** (KU, KA). – Europe (WE, NE, SE, EE), Central Asia, Japan (Hok), N America, India, S America.
- PARALIPSIS** Foerster, 1863 (*Myrmecobosca* Maneval, 1940). Type species: *Aphidius enervis* Nees, 1834. Parasitoids of aphids from the family Aphididae (Anoeciinae, Aphidinae and Eriosomatinae). Palaearctic distribution. Number of species: World and Palaearctic – 6, Russia – 2.
- Paralipsis eikoea** (Yasumatsu, 1951) [Myrmecobosca]. Parasitoid of aphids from the genus *Sappaphis*. Russia: **FE** (PR, KU). – Japan (Hon, Kyu).
- Paralipsis enervis** (Nees, 1834) [Aphidius] (*Myrmecobosca mandibularis* Maneval, 1940; *M. linnei* Hincks, 1949). Parasitoid of aphids from the genera *Anoecia*, *Anuraphis*, *Aphis*, *Brachycaudus*, *Dysaphis*, *Forda* and *Tetraneura*. Russia: **EP** (NW, C, E), **UR**, **WS** (NS). – Europe (WE, NE, SE, EE), Caucasus, Kazakhstan.
- PAUESIA** Quilis, 1931 (*Paraphidius* Starý, 1958). Type species: *Pauesia albuferensis* Quilis, 1931 (= *Aphidius unilachni* Gahan, 1926). Mostly parasitoids of aphids from the family Aphididae (Aphidinae, Chaitophorinae, Eriosomatinae, Lachninae and Mindarinae). Worldwide distribution. Number of species: World – more than 80, Palaearctic – more than 40, Russia – 24.
- Pauesia (Pauesiella) kunashirensis** Davidian, 2007. Russia: **FE** (KU).
- Pauesia (Pauesiella) sachalinensis** Davidian, 2007. Russia: **FE** (SA).
- Pauesia (Pauesiella) spatulata** Sedlag et Starý, 1980. Parasitoid of aphids from the genus *Cinara*. Russia: **UR**, **WS** (TU). – Europe (NW).
- Pauesia (Paraphidius) abietis** (Marshall, 1896) [Aphidius]. Parasitoid of aphids from the genera *Cinara* and *Schizolachnus*. Russia: **EP** (N, NW, NC, CR), **UR**, **WS** (AL), **ES** (TU) **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China (SW), Korean Peninsula, Japan (Hok, Hon), Afrotropics.
- Pauesia (Paraphidius) grossa** (Fahringer, 1937) [Coelonus]. Parasitoid of aphids from the genus *Cinara*. Russia: **EP** (NC). – Europe (WE, EE).
- Pauesia (Paraphidius) infulata** (Haliday, 1834) [Aphidius] (*Paraphidius albiflagellaris* Starý, 1960). Parasitoid of aphids from the genera *Cinara* and *Schizolachnus*. Russia: **EP** (N, NW), **UR**, **FE** (SA). – Europe (WE, NE, EE), Central Asia, Korean Peninsula, Japan (Hok).
- Pauesia (Paraphidius) inouyei** (Watanabe, 1941) [Aphidius]. Parasitoid of aphids from the genera *Cinara* and *Eulachnus*. Russia: **WS** (AL), **FE** (SA, KU). – Japan (Hok).
- Pauesia (Paraphidius) konoi** (Watanabe, 1941) [Aphidius]. Parasitoid of aphids from the genus *Cinara*. Russia: **FE** (KU). – Japan (Hok).
- Pauesia (Paraphidius) pini** (Haliday, 1834) [Aphidius] (*Aphidius planistipes* Nees, 1834; *A. varia* Nees, 1834; *A. panzeri* Rondani, 1848; *A. lachnivorus*, Ashmead, 1906). Parasitoid of aphids from the genus *Cinara*. Russia: **EP** (N, NW), **UR**, **WS** (NS, AL), **ES** (IR), **FE** (KH, SA). – Europe (WE, NE, SE, EE), Israel, Mongolia, China (CC, SE), Korean Peninsula, Japan (Hok, Hon), India.
- Pauesia (Paraphidius) prunicola** (Halme, 1986) [Pseudopauesia]. Parasitoid of aphids from the genera *Aphis*, *Myzus* and *Rhopalosiphum*. Russia: **EP** (C), **UR**, **ES** (IR), **FE** (PR). – Europe (NE).
- Pauesia (Paraphidius) silana** Tremblay, 1969. Parasitoid of aphids from the genus *Cinara*. Russia: **EP** (N, NW, C), **UR**, **WS** (NS, AL), **ES** (TU, IR), **FE** (KH). – Europe (WE, SE, EE), Israel.
- Pauesia (Paraphidius) silvestris** (Starý, 1960) [Paraphidius]. Parasitoid of aphids from the genus *Cinara*. Russia: **EP** (C), **UR**, **ES** (TU), **FE** (SA). – Europe (WE, SE, EE).
- Pauesia (Paraphidius) similis** Starý, 1966. Parasitoid of aphids from the genus *Cinara*. Russia: **EP** (N, C), **UR**, **FE** (SA). – Europe (NE, SE, EE).
- Pauesia (Pauesia) akamatsucola** Takada, 1968 (*Pauesia longicauda* Chiriach, 1993). Parasitoid of aphids from the genus *Cinara*. Russia: **WS** (AL), **FE** (KH, PR). – Europe (EE), Turkey, Japan (Hon).
- Pauesia (Pauesia) eugenii** Davidian, 2015. Russia: **ES** (IR), **FE** (KU).
- Pauesia (Pauesia) goidanichi** Starý, 1966. Parasitoid of aphids from the genera *Cinara* and *Cupressobium*. Russia: **EP** (C), **ES** (IR). – Europe (SE), Central Asia.
- Pauesia (Pauesia) japonica** (Ashmead, 1906) [Aphidius]. Parasitoid of aphids from the genus *Lachnus*. Russia:

- WS** (AL), **ES** (IR), **FE** (PR). – Korean Peninsula, Japan (Hok, Hon).
- Pauesia (Pauesia) jezoensis** (Watanabe, 1941) [Aphidius] (*Paraphidius piceaecollis* Starý, 1960; *Pauesia ruftabdominalis* Starý, 1966). Parasitoid of aphids from the genus *Cinara*. Russia: **EP** (N). – Europe (WE, NE, SE, EE), China (CC), Korean Peninsula, Japan (Hok).
- Pauesia (Pauesia) laricis** (Haliday, 1834) [Aphidius]. Parasitoid of aphids from the genera *Cinara*, *Schizolachnus* and *Stomaphis*. Russia: **EP** (N, CR). – Europe (WE, NE, SE, EE), China (NE, CC), Japan (Hok), India.
- Pauesia (Pauesia) montana** Starý, 1966. Parasitoid of aphids from the genera *Cinara*, *Eulachnus* and *Schizolachnus*. Russia: **WS** (AL). – Europe (SE).
- Pauesia (Pauesia) picta** (Haliday, 1834) [Aphidius]. Parasitoid of aphids from the genera *Cinara*, *Eulachnus* and *Schizolachnus*. Russia: **EP** (NW, C, CR), **UR**, **WS** (AL), **ES** (TU, IR, ZB). – Europe (WE, NE, SE, EE), Turkey, Japan (Hok), India.
- Pauesia (Pauesia) pinicollis** (Starý, 1960) [Paraphidius]. Parasitoid of aphids from the genus *Cinara*. Russia: **EP** (N, NW, C, NC, CR), **WS** (NS, AL), **ES** (KR), **FE** (SA). – Europe (WE, SE, EE).
- Pauesia (Pauesia) salignae** (Watanabe, 1939) [Aphidius]. Parasitoid of aphids from the genus *Tuberolachnus*. Russia: **FE** (SA, KU). – China (NC, SE), Korean Peninsula, Japan (Hok, Kyu), N America, India.
- Pauesia (Pauesia) unilachni** (Gahan, 1926) [Aphidius] (*Pauesia albuferensis* Quilis, 1931; *Aphidius praevisus* Gautier et Bonnamour, 1936; *Trioxys basilewskyi* Benoit, 1955). Parasitoid of aphids from the genera *Cinara*, *Eulachnus*, *Mindarus* and *Schizolachnus*. Russia: **EP** (N, NW, C, NC), **WS** (NS, AL), **FE** (AM). – Europe (WE, NE, SE, EE), China (SE), Korean Peninsula, Japan (Hon), India, Afrotropics (introduced).
- PROTAPHIDIUS** Ashmead, 1900 (*MenoZIA* Goidanich, 1934). Type species: *Coelonotus rufus* Foerster, 1863 (= *Aphidius wissmannii* Ratzeburg, 1848). Parasitoids of aphids from the family Aphididae (Aphidinae, Lachninae). Palaearctic distribution. Number of species: World, Palaearctic and Russia – 3.
- Protaphidius belokobylskiji** Davidian, 2007. Parasitoid of aphids from the genus ? *Stomaphis*. Russia: **FE** (PR).
- Protaphidius nawaii** (Ashmead, 1906) [Aclitus]. Parasitoid of aphids from the genera *Lachnus* and *Stomaphis*. Russia: **FE** (PR). – Japan (Hon).
- Protaphidius wissmannii** (Ratzeburg, 1848) [Aphidius] (*Coelonotus rufus* Foerster, 1863; *MenoZIA formicaria* Goidanich, 1934). Parasitoid of aphids from the genera *Acyrtosiphon*, *Pterocomma* and *Stomaphis*. Russia: **EP** (NW, CR), **WS** (NS). – Europe (WE, SE, EE), Japan.
- SERGEYOXYS** Davidian, 2016. Type species: *Sergeyoxys monoceratus* Davidian, 2016. Monotypic Eastern Palaearctic genus.
- Sergeyoxys monoceratus** Davidian, 2016. Russia: **FE** (AM, PR).
- TRIOXYS** Haliday, 1833 (*Aphidileo* Rondani, 1877; *Nevropenes* Provancher, 1886; *Pectoxys* Mackayer, 1960; *Bioxys* Starý et Schlinger, 1967). Type species: *Aphidius cirsii* Curtis, 1831. Parasitoids of aphids from the family Aphididae (Aphidinae, Calaphidinae, Chaitophorinae, Drepanosophinae, Eriosomatinae, Lachninae and Thelaxinae). Worldwide distribution. Number of species: World – about 80, Palaearctic – more than 50, Russia – 32.
- Trioxys annae** Davidian, 2005. Russia: **FE** (PR, KU).
- Trioxys artistigma** Takada, 1966 (*Trioxys aniva* Davidian, 2005). Russia: **FE** (SA, KU). – Japan (Hon).
- Trioxys asiaticus** Telenga, 1953 (*Trioxys vandenboschi* Mackauer, 1960). Parasitoid of aphids from the genera *Acyrtosiphon* and *Aphis*. Russia: **EP** (E), **UR**, **WS** (NS, AL), **ES** (ZB), **FE** (PR). – Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NE, CC, SE), Korean Peninsula.
- Trioxys asyae** Davidian, 2005. Russia: **FE** (PR).
- Trioxys auctus** (Haliday, 1833) [Aphidius] (*Aphidius flaviceps* Szépligeti, 1898). Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis*, *Myzus*, *Rhopalosiphum*, *Schizaphis* and *Sitobion*. Russia: **EP** (NW), **UR**, **WS** (TM), **FE** (KH, SA). – Europe (WE, NE, SE, EE), Central Asia, Kazakhstan, China (CC, SE), Japan (Hok), N America, India.
- Trioxys belokobylskiji** Davidian, 2005. Russia: **FE** (PR).
- Trioxys betulae** Marshall, 1896 (*Trioxys solani* Ivanov, 1925; *T. hincksi* Mackauer, 1960). Parasitoid of aphids from the family Aphididae (Calaphidinae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (NS, AL), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Kazakhstan, China (CC), N America.
- Trioxys bicuspis** Mackauer, 1960. Russia: **EP** (NW). – Europe (WE, EE).
- Trioxys chaetosiphonis** Starý, 1971. Parasitoid of aphids from the genera *Aphis*, *Chaetosiphon*, *Coloradoa* and *Longicaudus*. Russia: **EP** (C, E), **UR**. – Europe (WE, SE, EE).
- Trioxys chasanicus** Davidian, 2005. Russia: **FE** (PR).
- Trioxys complanatus** Quilis, 1931 (*Trioxys utilis* Muesebeck, 1956). Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis*, *Pleotrichophorus*, *Pterocallis*, *Therioaphis* and *Timocallis*. Russia: **EP** (NW, C, E, NC), **WS** (NS), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iraq, Lebanon, Israel, Yemen, Iran, Central Asia, Kazakhstan, Mongolia, N America (introduced), Mexico (introduced), India, Australia (introduced), New Zealand.
- Trioxys curvicaudus** Mackauer, 1967. Parasitoid of aphids from the family Aphididae (Callaphidinae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Korean Peninsula, N America (introduced).
- Trioxys falcatus** Mackauer, 1959. Parasitoid of aphids from the genera *Drepanosiphum* and *Periphyllus*. Russia: **EP** (NW, CR). – Europe (WE, NE, SE, EE).

- Trioxys galiobii** Starý, 1974. Parasitoid of aphids from the genus *Myzus*. Russia: **WS** (NS). – Europe (SE, EE).
- Trioxys glaber** Starý, 1966. Parasitoid of aphids from the genus *Aphis*. Russia: **WS** (AL). – Europe (EE).
- Trioxys hokkaidensis** Takada, 1968. Parasitoid of aphids from the genera *Aphis*, *Chaitophorus*, *Myzus* and *Tubercephalus*. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok).
- Trioxys humuli** Mackauer, 1960. Parasitoid of aphids from the genus *Phorodon*. Russia: **EP** (E). – Europe (WE, SE, EE), Caucasus, Turkey, Kazakhstan, N America, India.
- Trioxys inulaecola** Starý et Remaudière, 1987. Parasitoid of aphids from the genus *Capitophorus*. Russia: **EP** (NW, NC), **FE** (PR, KU). – Europe (WE).
- Trioxys iziphyae** Mackauer, 1967. Parasitoid of aphids from the genus *Iziphya*. Russia: **EP** (E), **ES** (ZB). – Europe (WE, NE).
- Trioxys japonicus** Takada, 1966. Russia: **FE** (SA, KU). – China, Korean Peninsula, Japan (Hok), Thailand.
- Trioxys kasparyani** Davidian, 2014. Russia: **UR**.
- Trioxys lambersi** Mackauer, 1960. Parasitoid of aphids from the genus *Diuraphis*. Russia: **EP** (NW, E). – Europe (WE, NE).
- Trioxys liui** Chou et Chou, 1993. Parasitoid of aphids from the genera *Cranaphis* and *Phyllaphoides*. Russia: **FE** (PR). – China.
- Trioxys microceratus** Mackauer, 1968. Russia: **EP** (N, NW). – Europe (NE).
- Trioxys pallidus** (Haliday, 1833) [*Aphidius*] (*Aphidius resolutus* Nees, 1834; *A. callipteri* Marshall, 1896; *Trioxys pulcher* Gautier et Bonnamour, 1924). Parasitoid of aphids from the family Aphididae (Callaphidinae and Thelaxinae). Russia: **EP** (NW, E, NC), **UR**. – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Israel, Iran, Central Asia, Kazakhstan, China (NE, NW, CC), N America (introduced), India.
- Trioxys pannonicus** Starý, 1960. Parasitoid of aphids from the genera *Macrosiphoniella* and *Titanosiphon*. Russia: **EP** (C, E), **UR**, **ES** (BR), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Pakistan, Central Asia, Kazakhstan, Mongolia, India.
- Trioxys parauctus** Starý, 1960. Parasitoid of aphids from the genera *Aphis*, *Cinara*, *Hydaphias* and *Myzus*. Russia: **FE** (PR). – Europe (WE, EE).
- Trioxys phyllaphidis** Mackauer, 1961. Parasitoid of aphids from the genera *Phyllaphis* and *Therioaphis*. Russia: **EP** (NW, C, NC), **UR**, **WS** (KM), **ES** (TU). – Europe (WE, SE, EE), Caucasus, Central Asia.
- Trioxys tamarae** Davidian, 2005. Russia: **FE** (PR). – Japan (Hon).
- Trioxys tanaceticola** Starý, 1971. Parasitoid of aphids from the genera *Coloradoa*, *Metopeurum* and *Titanosiphon*. Russia: **EP** (E), **WS** (TU). – Europe (WE, EE), Iran, Kazakhstan, Mongolia.
- Trioxys tenuicaudus** Starý, 1978. Parasitoid of aphids from the family Aphididae (Callaphidinae). Russia: **EP** (NW, C, NC). – Europe (WE, SE, EE), Caucasus, China (SE), N America (introduced), Australia.
- Trioxys udalovi** Davidian, 2005. Russia: **FE** (PR).
- XENOSTIGMUS** Smith, 1944. Type species: *Aphidius bifasciatus* Ashmead, 1891. Parasitoids of aphids from the family Aphididae (Lachninae). Holarctic distribution. Number of species: World – 2, Palaearctic and Russia – 1.
- Xenostigmus takadai** Davidian, 2007. Parasitoid of aphids from the genus *Cinara*. Russia: **FE** (KU).

Subfamily EPHEDRINAE

Antennae of the male and female are 11-segmented; an exception, *Toxares*, is with antennae more than 11-segmented, and those of males are longer than of females. Fore wings are with complete venation; the sheaths and styli of the ovipositor are straight. Pupation occurs within a mummified aphid. Worldwide distribution.

Number of taxa: World – 4 genera and 55 species; Palaearctic – 3/33; Russia – 3/16.

References. Gärdenfors, 1986; Chen, Shi, 2001; Yu et al., 2016; Davidian, 2018b.

EPHEDRUS Haliday, 1833 (*Elassus* Wesmael, 1835). Type species: *Bracon plagiator* Nees, 1811. Parasitoids of aphids from the family Aphididae (Anoeiinae, Aphidinae, Calaphidinae, Chaitophorinae, Eriosomatinae, Lachninae). Worldwide distribution. Number of species: World – more than 45, Palaearctic – more than 20, Russia – 14.

Ephedrus (Breviephedrus) brevis Stelfox, 1941 (*Ephedrus picticornis* Stelfox, 1941). Parasitoid of aphids on *Betula* and *Alnus*. Russia: **EP** (N, NW), **UR**, **WS** (TM), **FE** (PR, SA). – Europe (WE, NE, EE), Mongolia, Japan (Kyu), N America.

Ephedrus (Ephedrus) cerasicola Starý, 1962. Parasitoid of aphids from the genera *Brachycaudus*, *Capitophorus*, *Cryptomyzus*, *Dysaphis*, *Hyperomyzus*, *Myzus*, *Nasonovia*, *Ovatus*, *Phorodon* and *Rhopalosiphum*. Russia: **EP** (NW), **UR**. – Europe (WE, NE, SE, EE), Turkey, Iran, Central Asia, Kazakhstan, N America, India, Chile (introduced), New Zealand.

Ephedrus (Ephedrus) helleni Mackauer, 1968 (*Ephedrus salicicola* Takada, 1968). Parasitoid of aphids from the genera *Cavariella* and *Eumyzus*. Russia: **EP** (NW, C, NC), **WS** (TM), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), Iran, Central Asia, Japan (Hok), India.

Ephedrus (Ephedrus) koponeni Halme, 1992. Parasitoid of aphids from the genus *Elatobium*. Russia: **EP** (NC). – Europe (NE).

Ephedrus (Ephedrus) lacertosus (Haliday, 1833) [*Aphidius*] (*Ephedrus mueesebecki* Smith, 1944). Parasitoid of

aphids from the family Aphididae (Aphidinae, Calaphidinae, Lachninae). Russia: **EP** (N, NW, C), **UR**, **WS** (TM, AL), **ES** (YA), **FE** (AM, KA, CH). – Europe (WE, NE, SE, EE), Turkey, Central Asia, Kazakhstan, Mongolia, China (NE, CC, SE), Japan (Hok), N America, India, SE Asia, Costa Rica, Guatemala.

Ephedrus (Ephedrus) laevis (Thomson, 1895) [Aphidius] (*Ephedrus minor* Stelfox, 1941). Parasitoid of aphids from the genera *Brachycaudus*, *Cavariella*, *Chaetosiphon*, *Longicaudus*, *Macrosiphum*, *Myzaphis*, *Pentatrichopus* and *Uroleucon*. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Kazakhstan, Mongolia, Korean Peninsula, India.

Ephedrus (Ephedrus) nacheri Quilis, 1934. Parasitoid of aphids from the family Aphididae (Aphidinae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TM, NS, KM, AL), **ES** (IR), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, China (NE, NC, NW, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), India, Nepal, Afrotropics (introduced), Chile (introduced).

Ephedrus (Ephedrus) niger Gautier, Bonnamour et Gaumont, 1929 (*Alysia aphidivora* Rondani, 1848; *Ephedrus campestris* Starý, 1962). Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis*, *Dysaphis*, *Hyperomyzus*, *Macrosiphoniella*, *Megoura*, *Metopeurum*, *Titanosiphon* and *Uroleucon*. Russia: **EP** (N, NW, C, NC), **WS** (NS, AL), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Syria, Iraq, Israel, Iran, Central Asia, Kazakhstan, Mongolia, China (NC, NW, CC, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), N America, India.

Ephedrus (Ephedrus) orientalis Starý et Schlinger, 1967. Parasitoid of aphids from the genera *Hyalopterus*, *Hyperomyzus* and *Tinocallis*. Russia: **FE** (KH). – China (SE), India.

Ephedrus (Ephedrus) plagiator (Nees, 1811) [Bracon] (*Aphidius parvicornis* Nees, 1834; *Ephedrus japonicus* Ashmead, 1906; *E. homostigma* Fahringer, 1935). Parasitoid of aphids from the family Aphididae (Aphidinae, Chaitophorinae, Eriosomatinae and Hormaphidinae). Russia: **EP** (NW, C, E, NC, CR), **UR**, **WS** (TM, NS, KM, AL), **ES** (IR), **FE** (AM, KH, PR, SA, KA, CH). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Iran, Pakistan, Central Asia, Kazakhstan, Mongolia, China (NE, NC, NW, CC, SW, WP, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), N America (introduced), India, SE Asia, Afrotropics (introduced), S America (introduced), Australia (introduced), New Zealand (introduced).

Ephedrus (Ephedrus) vaccinii Gärdenfors, 1986. Parasitoid of aphids from the genera *Aphis* and *Wahlgreniella*. Russia: **FE** (PR). – Europe (NE).

Ephedrus (Fovephedrus) chaitophori Gärdenfors, 1986. Parasitoid of aphids from the genus *Chaitophorus* (Aphididae). Russia: **EP** (E), **UR**. – Europe (WE, NE, SE, EE), Iran, N America, India.

Ephedrus (Fovephedrus) longistigmus Gärdenfors, 1986 (*Fovephedrus longus* Chen, 1986). Parasitoid of aphids from the genera *Macromyzus* and *Myzus*. Russia: **EP** (N, NW, C), **UR**, **WS** (TM, AL), **ES** (IR), **FE** (PR, SA, KU, KA). – Europe (WE, NE), Iran, China (CC, SE), Japan (Hok, Hon), N America, India.

Ephedrus (Fovephedrus) persicae Froggatt, 1904 (*Ephedrus nevadensis* Baker, 1909; *E. nitidus* Gahan, 1917; *E. vidali* Quilis, 1931; *E. interstitialis* Watanabe, 1941; *E. pulchellus* Stelfox, 1941; *E. impressus* Granger, 1949; *E. holmani* Starý, 1958; *E. palaestinensis* Mackauer, 1959). Parasitoid of aphids from the family Aphididae (Aphidinae, Calaphidinae and Chaitophorinae). Russia: **EP** (N, NW, C, NC), **WS** (AL), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Syria, Iraq, Jordan, Lebanon, Israel, United Arab Emirates, Yemen, Iran, Pakistan, Central Asia, Kazakhstan, Mongolia, China (NE, NC, CC, SW, SE), Korean Peninsula, Japan (Hok, Hon, Kyu), N America, India, SE Asia, Madagascar, S America, Australia.

LYSEPHEDRUS Starý, 1958. Type species: *Aphidius (Ephedrus) validus* Haliday, 1833. Parasitoids of aphids from the family Aphididae (Aphidinae and Eriosomatinae). Monotypic Palaearctic genus.

Lysephedrus validus (Haliday, 1833) [Aphidius]. Parasitoid of aphids from the genera *Anuraphis*, *Aphis*, *Brachycaudus*, *Dysaphis*, *Eriosoma*, *Myzaphis*, *Myzus* and *Thecabius*. Russia: **EP** (NW, C), **WS** (AL), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Central Asia, Korean Peninsula.

TOXARES Haliday, 1840 (*Teronyx* Haldeman, 1942). Type species: *Aphidius deltiger* Haliday, 1833. Parasitoids of aphids from the family Aphididae (Aphidinae, Calaphidinae, Chaitophorinae, Drepanosiphinae, Eriosomatinae, Lachninae). Holarctic and Oriental distribution. Number of species: World and Palaearctic – 4, Russia – 1.

Toxares deltiger (Haliday, 1833) [Aphidius] (*Ephedrus flavolus* Györfi, 1958). Parasitoid of aphids from the family Aphididae (Aphidinae, Calaphidinae, Drepanosiphinae and Eriosomatinae). Russia: **EP** (N, NW, C, NC), **UR**, **ES** (IR, ZB), **FE** (AM, PR, SA, KA). – Europe (WE, NE, SE, EE), Turkey, Pakistan, China, N America, India.

Subfamily PRAINAE

Antennae of males are longer than females. The forewings venation is more or less reduced; the sheaths and styli of the ovipositor are slightly bent upwards; no prongs on the apex of metasoma. All species form cocoon under the mummy of the host. Worldwide distribution.

Number of taxa: World – 5 genera and 87 species; Palaearctic – 4/65, Russia – 4/28.

References. Smith, 1944; Mackauer, Stárý, 1967; Mackauer, 1968b; Takada, 1968; Tobias et al., 1986b; Chen, Shi, 2001; Stárý, 2006; Davidian, 2007, 2018a; Davidian, Proshchalykin, 2012; Yu et al., 2016.

AREOPRAON Mackauer, 1959 (*Mesopraon* Stárý, 1981).

Type species: *Praon lepelleyi* Waterston, 1926. Parasitoids of aphids from the family Aphididae (Aphidinae, Chaitophorinae, Eriosomatinae, Mindarinae). Palaearctic and Oriental distribution. Number of species: World – 9, Palaearctic – 8, Russia – 5.

Areopraon chaitophori Tomanović et Petrović, 2009. Parasitoid of aphids from the genus *Chaitophorus*. Russia: **EP** (C). – Europe (SE).

Areopraon helleni (Stárý, 1981) [*Mesopraon*]. Russia: **EP** (N, NC), **FE** (SA). – Europe (WE, NE).

Areopraon lepelleyi (Waterston, 1926) [*Praon*]. Parasitoid of aphids from the genera *Eriosoma*, *Mindarus*, *Schizoneurella*. Russia: **WS** (NS), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Iran, India.

Areopraon pilosum Mackauer, 1959. Parasitoid of aphids from the genus *Pterocomma*. Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, EE).

Areopraon rasnitsyni Davidian, 2011. Russia: **WS** (NS). – Kazakhstan.

DYSCRITULUS Hincks, 1943. Type species: *Dyscritus planiceps* Marshall, 1896. Parasitoids of aphids from the family Aphididae (Chaitophorinae and Drepanosiphinae). Palaearctic distribution. Number of species: World – 4, Palaearctic – 3, Russia – 1.

Dyscritulus planiceps (Marshall, 1896) [*Dyscritus*]. Parasitoid of aphids from the genera *Drepanosiphum* and *Periphyllus*. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).

PRAON Haliday, 1833 (*Achoristus* Ratzeburg, 1852; *Aphidaria* Provancher, 1886; *Parapraon* Stárý, 1983). Type species: *Bracon exoletum* Nees, 1811. Parasitoids of aphids from the family Aphididae (Aphidinae, Calaphidinae, Eriosomatinae, Lachninae and Saltusaphidinae). Holarctic, Afrotropical, Neotropical and Oriental distribution. Number of species: World – more than 70, Palaearctic – more than 40, Russia – 21.

Praon abjectum (Haliday, 1833) [*Aphidius*] (*Bracon aphidiformis* Ratzeburg, 1852; *Praon peregrinum* Ruthe, 1859). Parasitoid of aphids from the family Aphididae (Aphidinae and Eriosomatinae). Russia: **EP** (NW, C, NC), **UR**, **WS** (TM, NS, KM), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iraq, Iran, Central Asia, Kazakhstan, China, India, Afrotropics (introduced).

Praon absinthii Bignell, 1894. Parasitoid of aphids from the genera *Macrosiphoniella*, *Pleotrichophorus* and *Titanosiphon*. Russia: **EP** (N, NW, C), **FE** (PR). – Europe (WE, NE, SE, EE), Iraq, Iran, Central Asia, Kazakhstan, China, India.

Praon athenaeum Kavallieratos et Lucouressis, 2000. Parasitoid of aphids from the genus *Hyperomyzus*. Russia: **FE** (PR). – Europe (SE).

Praon barbatum Mackauer, 1967. Parasitoid of aphids from the genus *Acyrtosiphon*. Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), N Africa, Lebanon, Iran, Afghanistan, Central Asia, China, Japan, N America (introduced), Australia (introduced).

Praon bicolor Mackauer, 1959. Parasitoid of aphids from the genera *Eulachnus* and *Schizolachnus*. Russia: **EP** (NW, C), **WS** (NS), **FE** (KU). – Europe (WE, NE, SE, EE).

Praon cavariellae Stárý, 1971. Parasitoid of aphids from the genus *Cavariella*. Russia: **EP** (C, NC), **FE** (KU). – Europe (WE, EE).

Praon dorsale (Haliday, 1833) [*Aphidius*] (*Blacus discolor* Nees, 1834). Parasitoid of aphids from the family Aphididae (Aphidinae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (NS, AL), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Central Asia, Kazakhstan, China (SE), Korean Peninsula, Japan, N America, India.

Praon exoletum (Nees, 1811) [*Bracon*] (*Praon palitans* Muesebeck, 1956). Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis*, *Eriosoma*, *Hyalopterus*, *Macrosiphum*, *Megoura*, *Metopolophium*, *Myzus* and *Therioaphis*. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (NS), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iraq, Israel, Iran, Central Asia, Kazakhstan, N America (introduced), Australia (introduced).

Praon flavicorne Stárý, 1971. Parasitoid of aphids from the genus *Capitophorus*. Russia: **EP** (NW). Russia: **EP** (WE). – Europe (WE, EE).

Praon flavinode (Haliday, 1833) [*Aphidius*]. Parasitoid of aphids from the family Aphididae (Aphidinae and Calaphidinae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (NS, AL), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Iraq, Central Asia, Kazakhstan, China, N America (introduced), India.

Praon gallicum Stárý, 1971. Parasitoid of aphids from the genera *Acyrtosiphon*, *Aphis*, *Diuraphis*, *Metopolophium*, *Pleotrichophorus*, *Rhopalosiphum*, *Schizaphis* and *Sitobion*. Russia: **EP** (NW, C, E), **UR**, **ES** (IR). – Europe (WE, NE, SE, EE), Kazakhstan, China, N and S America (introduced).

Praon lemantinum Gautier, 1922. Parasitoid of aphids from the genera *Capitophorus* and *Cryptomyzus*. Russia: **WS** (AL). – Europe (WE, NE).

Praon longicorne Marshall, 1896 (*Praon grossum* Stárý, 1971). Parasitoid of aphids from the genera *Acyrtosiphon*, *Amphorophora*, *Aulacorthum*, *Corylobium*, *Hyadaphis*, *Impatiensium*, *Macrosiphum* and *Microlophium*. Russia: **EP** (N, NW, NC), **UR**, **WS** (AL), **FE** (PR). – Europe (WE, EE), Caucasus, Turkey, Central Asia, India.

Praon minor Stárý, 1971 (*Praon minus* Stárý, 1971). Parasitoid of aphids from the genus *Ericaphis*. Russia: **EP** (C). – Europe (WE).

- Praon necans** Mackauer, 1959 (*Praon nymphaeae* Subba Rao, Sarup et Sharma, 1963). Parasitoid of aphids from the genera *Rhopalosiphum*, *Schizaphis* and *Staticobium*. Russia: **EP** (N, NW, C, NC), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Iraq, Iran, Pakistan, Central Asia, Kazakhstan, China, Japan (Hon), India.
- Praon rosaecola** Starý, 1961. Parasitoid of aphids from the genera *Aphis*, *Chaetosiphon*, *Macrosiphum* and *Sitobion*. Russia: **EP** (C, NC, CR), **WS** (NS, KM). – Europe (WE, SE, EE), Caucasus, Turkey, Israel.
- Praon spinosum** Mackauer, 1959. Parasitoid of aphids from the genera *Subsaltusaphis* and *Thripsaphis*. Russia: **EP** (NW, C). – Europe (WE, NE, SE).
- Praon taisetsuzanum** Takada, 1968. Russia: **FE** (KU). – Japan (Hok).
- Praon uroleucon** Tomanović et Kavallieratos, 2003. Parasitoid of aphids from the genus *Uroleucon*. Russia: **EP** (NW), **WS** (AL). – Europe (SE, EE).
- Praon volucre** (Haliday, 1833) [*Aphidius*] (*Blacus angulator* Nees, 1834; *Aphidius aphidivorum* Ratzeburg, 1844; *Praon pruni* Ivanov, 1925; *P. mongolicum* Watanabe, 1949; *P. myzophagum* Mackauer, 1959). Parasitoid of aphids from the family Aphididae (Aphidinae, Calaphidinae and Lachninae). Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (NS, KM, AL), **ES** (IR, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iraq, Lebanon, Israel, Iran, Pakistan, Central Asia, Kazakhstan, Mongolia, China, Korean Peninsula, Japan (Hok, Kyu), N America, India, Afrotropics (introduced), S America (introduced), Australia (introduced).
- Praon yomenae** Takada, 1968. Parasitoid of aphids from the genera *Hyalopterus*, *Hyperomyzus*, *Macrosiphoniella*, *Staticobium* and *Uroleucon*. Russia: **EP** (NW, C, NC), **UR**, **WS** (AL), **FE** (PR). – Europe (WE, EE), Turkey, Yemen, Korean Peninsula, Japan (Kyu, Ryu).
- PSEUDOPRAON** Starý, 1975. Type species: *Pseudopraon mindariphagum* Starý, 1975. Parasitoids of the genus *Mindarus*. Holarctic, Neotropical and Oriental distribution. Number of species: World and Palaearctic – 3, Russia – 1.
- Pseudopraon mindariphagum** Starý, 1975. Parasitoid of aphids from the genus *Mindarus*. Russia: **EP** (NC), **FE** (PR, SA). – Europe (WE, EE), N America, Mexico.

56. FAMILY ICHNEUMONIDAE

A.I. KHALAIM

Ichneumonidae is one of the largest insect families comprising over 25 thousand described species distributed in approximately 42 subfamilies (Yu et al., 2016; Broad et al., 2018). The family is distributed worldwide, and biologically it is an exceptionally diverse group that includes idio- and koinobiont parasitoids of larvae and pupae of insects (mainly

holometabolous) or adult spiders; some species feed on spider egg-sacs.

Thirty seven subfamilies are recorded from Russia, of them 34 are catalogued to species level, and three unrevised groups (Campopleginae, Cryptinae and Ichneumoninae) are presented in a brief form. Only one subfamily represented in the Palaearctic region, the Brachycyrtinae, has not been recorded from Russia.

Number of taxa: World – about 42 subfamilies, 1600 genera and 25000 species; Palaearctic – 38/c. 800/c. 9900; Russia – 38/550/3709.

Remarks. Kasparyan et al. (1981) in his keys mentioned many ichneumonid species from the former USSR, mainly from its European part, but also from Caucasus, Siberia, Far East and from other countries and regions. Some of these records were given in a wide sense (for example “North”, “Central”, “South” [European part of USSR], “Caucasus”, “Altay”, “Siberia”, etc.), and many were written in a short form or as abbreviations. These records were partially included in the Taxapad catalogue (Yu et al., 2016), but many records (including quite distinct regions and countries) were not included. In this catalogue, we tried to include some of these data, at least countries and regions of Russia which we were able to recognize precisely.

Another case of erroneous interpretation of geographic data in papers published in Russian, is the book “Fauna of Ukraine” (Tolkanitz, 1987). All metopiine species included in this book were erroneously treated in Taxapad (Yu et al., 2016) as occurring in Ukraine, while many of them were included as “European species that may occur in Ukraine”, but had actually not been recorded from that country. There are many other varied errors in treatment of localities in publications written in Russian. A more particular, but very characteristic, example is the diplazontine species *Homotropus pallipes* (Gravenhorst, 1829), which was recorded from the Russian Far East as occurring “everywhere but Kamchatka” (Manukyan, 2007) and treated in Taxapad (Yu et al., 2016) as occurring only in Kamchatka. In some cases (for example in the pimpline genus *Itoplectis*, Kalinin Prov. of the USSR (currently Tver Prov.) in publications by D.R. Kasparyan, in the catalogus Taxapad (Yu et al., 2016) was treated as Kaliningrad Prov. in Taxapad (Yu et al., 2016). In this catalogue, we tried to check doubtful and suspicious records, examine original publications, follow recent reviews and taxonomic revisions and provide correct data on the distribution of ichneumonid taxa in Russia.

References. Woldstedt, 1878, 1881; Meyer, 1927b, 1933a, 1933b, 1934, 1935, 1936a, 1936b; Uchida, 1935, 1936a, 1936b; Townes et al., 1965; Townes, 1969, 1970a, 1970b, 1971; Kasparyan et al., 1981, 2012; Humala, 1997a, 2004b, 2006, 2019a; Wahl, Gauld, 1998; Nikitenko, Sviridov, 1999; Schwarz, 2003; Polevoi, Humala, 2005; Kasparyan, Khalaim, 2007d; Humala, Polevoi, 2008, 2009, 2015; Lagunov, 2008; Quicke et al., 2009; Jakovlev et al., 2014; Sheng, Sun, 2014; Watanabe, Yamauchi, 2014; Quicke, 2015; Broad, 2016;

Watanabe, 2016a; Broad et al., 2018; Holý, Zeman, 2018; Lee et al., 2018; Riedel, 2018e; Riedel et al., 2018a, 2018b, 2019; Watanabe, Shimizu, 2018; Bennett et al., 2019; Klopstein et al., 2019a, 2019b; Kolarov, 2019; Vas, 2019c.

Subfamily ACAENITINAE

A.I. KHALAIM

Moderately large worldwide subfamily with most taxa in the Old World tropics. The subfamily is subdivided into two tribes, the Acaenitini and the Coleocentrini. The latter group is virtually restricted to the Holarctic region, with only a few taxa in the Oriental region, while the Acaenitini is by far the larger tribe which is very species-rich in tropical Asia and scarce in other regions of the world. In the Palaearctic region, the subfamily is best represented in the East Palaearctic region due to the northwards extension of Oriental taxa.

Most species of Acaenitinae are brightly patterned, conspicuous ichneumonids, whose females are easily recognized by their enlarged, triangular subgenital plate. In the Palaearctic region, acaenitines are rather rarely collected. Parasitoids of a variety of xylophagous species of Cerambycidae and Curculionidae (Coleoptera); also reported from Sesiidae (Lepidoptera) and Siricidae (Hymenoptera) but these host records require verification.

Number of taxa: World – 28 genera and about 295 species, Palaearctic – 17/99, Russia – 12/26.

References. Uchida, 1934; Wang, 1982; Shaw, Wahl, 1989; Zwakhals, 1989; Kasparyan, Khalaim, 2007; Lee, Lee, 2009; Ito, Maeto, 2014, 2015, 2016, 2017; Ito et al., 2015; Pham et al., 2017, 2018b, 2019; Pham, Khuat, 2019.

Tribe ACAENITINI

ACAENITUS Latreille, 1809. Type species: *Ichneumon dubitator* Panzer, 1800. Monotypic Palaearctic genus.

Remarks. *Acaenitus rossicus* Meyer, 1922 from Astrakhan Prov. of Russia is not included to the catalogue because its type was lost and taxonomic status is unclear; probably it is a synonym of *A. dubitator*.

Acaenitus dubitator (Panzer, 1800) [Ichneumon]. Koinobiont endoparasitoid of *Cleonis piger* Scop. (Curculionidae). Russia: **EP** (without regions: Kasparyan, Khalaim, 2007), **WS** (AL), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iran, Kazakhstan, China (NE, NW).

AROTES Gravenhorst, 1829 (*Asthenomeris* Foerster, 1869; *Sphalerus* Kriechbaumer, 1878). Type species: *Arotes albicinctus* Gravenhorst, 1829. Number of species: World – 15 (status of one more species is unclear), Palaearctic – 7, Russia – 2.

Arotes albicinctus Gravenhorst, 1829 (*Sphalerus bifasciatus* Kriechbaumer, 1878; *Arotes annulicornis* Kriechbaumer,

1894). Parasitoid of *Plagionotus* sp. (Cerambycidae). Russia: **EP** (N, NC), **WS** (AL), **ES** (IR, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, China (NE), Korean Peninsula.

Arotes odontus Uchida, 1934. Russia: **FE** (SA).

ISHIGAKIA Uchida, 1928. Type species: *Ishigakia exetasea* Uchida, 1928. Predominantly Eastern Palaearctic and Oriental genus. Number of species: World – 15, Palaearctic – 3, Russia – 1.

Ishigakia nigripes (Meyer, 1930) [Arotes]. Russia: **FE** (PR). **Remarks.** Taxonomic status of this taxon is unclear, probably it is conspecific with *I. nigra* Wang, 1993 from Oriental China (Kasparyan, Khalaim, 2007).

JEZAROTES Uchida, 1928. Type species: *Jezarotes tamanukii* Uchida, 1928. Eastern Palaearctic and Oriental genus. Number of species: World – 6, Palaearctic – 3, Russia – 1.

Jezarotes tamanukii Uchida, 1928 (*Jezarotes yamatonis* Uchida, 1928; *J. tetragonis* Lee et Lee, 2009). Larval parasitoid of *Mesosa hirsuta* Bates (Cerambycidae). Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon).

PHAENOLOBUS Foerster, 1869 (*Chorisichizus* Foerster, 1869; *Moldacoenitus* Constantineanu et Constantineanu, 1968). Type species: *Ichneumon atrator* Rossi, 1790 (= *Ichneumon terebrator* Scopoli, 1763). Palaearctic and Oriental genus. Number of species: World – 25, Palaearctic – 24, Russia – 6.

Phaenolobus amurensis Kasparyan et Khalaim, 2007. Russia: **FE** (AM).

Phaenolobus antennator Kasparyan et Khalaim, 2007. Russia: **ES** (ZB), **FE** (KH, PR).

Phaenolobus fulvicornis (Gravenhorst, 1829) [Acoenites] (*Collyria erythrogaster* Lucas, 1849; *Phaenolobus fulvicornis basirufus* Constantineanu, 1929; *Ph. fulvicornis rufifemur* Constantineanu, 1929). Parasitoid of *Phytoecia* spp. (Cerambycidae). Russia: **EP** (N, S). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Israel, Iran.

Phaenolobus koreanus Uchida, 1932. ? Russia: **ES** (ZB), **FE** (KH, PR). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan.

Phaenolobus terebrator (Scopoli, 1763) [Ichneumon] (*Ichneumon arator* Rossi, 1790). Parasitoid of Cerambycidae (Coleoptera) and Sesiidae (Lepidoptera). Russia: **EP** (N, NW, S), **WS** (AL), **ES** (IR, ZB), **FE** (AM). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Uzbekistan, Kazakhstan, Korean Peninsula.

Phaenolobus tsunekii Uchida, 1955. Russia: **ES** (IR), **FE** (PR). – China (NE, NC), Korean Peninsula.

SPILOPTERON Townes, 1960. Type species: *Spilopteron franclemonti* Townes, 1960. Holarctic (does not occur in Europe) and Oriental genus. Number of species: World – 40, Palaearctic – 13, Russia – 1.

Spilopteron apicale (Matsumura, 1912) [Chorischizus]. Parasitoid of *Monochamus* sp. (Cerambycidae). Russia: **FE** (KU). – ? China (CC), Japan (Hok, Hon, Shi, Kyu).

YAMATAROTES Uchida, 1929 (*Pseudarotes* Uchida, 1929; *Pseudarotes* Meyer, 1930; *Pararotes* Meyer, 1934). Type species: *Yamatarotes bicolor* Uchida, 1929. Eastern Palaearctic and Oriental genus. Number of species: World – 11, Palaearctic – 5, Russia – 3.

Yamatarotes bicolor Uchida, 1929. Russia: **FE** (KU). – China (NE), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu).

Yamatarotes chishimensis (Uchida, 1929) [*Pseudarotes*]. Russia: **FE** (KU). – China (NE, SW), Japan (Hok, Hon, Shi, Kyu).

Yamatarotes filipjevi (Meyer, 1930) [*Pseudarotes*]. Russia: **ES** (IR, ZB), **FE** (KH, PR, KU).

YEZOCERYX Uchida, 1928 (*Brevitergus* Wang, 1993; *Longitergus* Wang, 1993). Type species: *Yezoceryx scutellaris* Uchida, 1928. Holarctic (does not occur in Europe), Oriental and Australasian genus with most species in Oriental and Australasian regions. Number of species: World – 71, Palaearctic – 9, Russia – 1.

Yezoceryx rishiriensis (Uchida, 1934) [Siphimedia]. Russia: **FE** (PR, KU). – Japan (Hok).

Tribe COLEOCENTRINI

COLEOCENTRUS Gravenhorst, 1829 (*Macrocoleus* Desvignes, 1850). Type species: *Ichneumon excitator* Poda, 1761. Holarctic and Oriental genus. Number of species: World – 23, Palaearctic – about 15, Russia – 7. **Remarks.** *Coleocentrus karafutonis* (Matsumura, 1911) described from Sakhalin I. of Russia is not included to the catalogue because its type was lost and taxonomic status is unclear.

Coleocentrus caligatus Gravenhorst, 1829 (*Coleocentrus maximus* Rudow, 1881). Parasitoid of several genera of Cerambycidae (Coleoptera) and probably Siricidae (Hymenoptera). Russia: **EP** (N, S). – Europe (WE, NE, SE, EE), Iran, ? China (NE).

Coleocentrus chipsanii (Matsumura, 1911) [Lytarmes]. Russia: **FE** (SA, KU). – China (NE), Korean Peninsula, Japan (Hon).

Coleocentrus exareolatus Kriechbaumer, 1894. Russia: **EP** (N, NW), **WS** (AL), **ES** (IR, BR, ZB), **FE** (AM, KH, PR, SA, KA). – Europe (WE, NE, EE), Korean Peninsula, Japan (Hok, Hon, Kyu).

Coleocentrus excitator (Poda, 1761) [*Ichneumon*] (*Ichneumon segmentator* Fabricius, 1793; *I. gigantor* Thunberg, 1822; *Macrus longiventris* Gravenhorst, 1829; *Lissonota segmentatrix* Schulz, 1906). Parasitoid of various Cerambycidae (Coleoptera); also recorded from Lucanidae (Coleoptera), Siricidae (Hymenoptera) and Sesiidae (Lepidoptera). Russia: **EP** (N, NW, C, S), **UR**, **WS** (OM),

FE (PR, SA, KU). – Europe (WE, NE, SE, EE), China (NE, NC), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu).

Coleocentrus heteropus Thomson, 1894. Russia: **EP** (N). – Europe (NE, SE, EE).

Coleocentrus incertus (Ashmead, 1906) [Calliclisis] (*Lytarmes sapporensis* Matsumura, 1911). Parasitoid of *Acalolepta luxuriosa* Bates and *Monochamus grandis* Waterh. (Cerambycidae). Russia: **FE** (KH, PR, SA, KU). – Korean Peninsula, Japan (Hok, Hon, Shi, Kyu, Ryū).

Coleocentrus soldanskii Bischoff, 1915. Russia: **EP** (N). – Europe (WE, EE).

LEPTACOENITES Strobl, 1902. Type species: *Procinetus tscheki* Strobl, 1902 (= *Lampronota notabilis* Desvignes, 1856). Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.

Leptacoenites notabilis (Desvignes, 1856) [Lampronota] (*Lissonota frauenfeldi* Tschek, 1869; *Heterolabis marginata* Kriechbaumer, 1889; *Procinetus tscheki* Strobl, 1902). Russia: **EP** (S). – Europe (WE, SE, EE), China (NW).

MESOCLISTUS Foerster, 1869. Type species: *Acoenites rufipes* Gravenhorst, 1829. Holarctic genus. Number of species: World and Palaearctic – 5, Russia – 1.

Mesoclistus cushmani Townes, 1960. Russia: **EP** (N), **UR**, **FE** (MG, CH). – N America (Alaska).

PROCINETUS Foerster, 1869. Type species: *Lissonota decimator* Gravenhorst, 1829. Palaearctic genus. Number of species: World and Palaearctic – 7, Russia – 1.

Procinetus decimator (Gravenhorst, 1829) [Lissonota]. Russia: **EP** (E, S). – Europe (WE, NE, SE, EE), N Africa, Turkey, Iran, Uzbekistan.

Subfamily ADELOGNATHINAE

A.I. KHALAIM

The subfamily comprises the single Holarctic genus *Adelognathus* Holmgren. In Europe, the species of Adelognathinae are not commonly collected, but in the Palaearctic taiga the subfamily is rather abundant (Kasparyan, 1990a). Adelognathines are small insects with fore wing length 2–4 mm and may easily be distinguished from other Ichneumonidae by the antennal flagellum with usually 12–13 flagellomeres and the labrum conspicuously exposed below the clypeus.

Adelognathinae are solitary or gregarious ectoparasitoids of sawfly larvae of the families Tenthredinidae, Diprionidae and Pamphiliidae (Hymenoptera). Most species parasitize exposed larvae, but some are associated with concealed hosts in rolled leaves and in galls.

Number of taxa: World – 1 genus and 48 species, Palaearctic – 1/44, Russia – 1/35.

References. Fitton et al., 1982; Kasparyan, 1986a, 1986b, 1990a, 2007a; Kopelke, 1987; Rahoo, Luff, 1987;

Schmidt, Zmudzinski, 2004; Kasparyan, Kopelke, 2009; Shaw, Wahl, 2014; Riedel, Magnusson, 2017.

ADELOGNATHUS Holmgren, 1857. Type species: *Adelognathus brevicornis* Holmgren, 1857. Holarctic genus. Number of species: World – 48, Palaearctic – 44, Russia – 35.

Adelognathus acantholydae Kasparyan, 1986. Parasitoid of *Acantholyda erythrocephala* L. (Pamphiliidae). Russia: **EP** (C), **ES** (ZB). – Europe (WE, NE, SE, EE).

Adelognathus brevicornis Holmgren, 1857 (*Adelognathus limbatus* Thomson, 1888; *A. montivagator* Aubert, 1976). Parasitoid of *Amauronematus* spp. (Tenthredinidae). Russia: **EP** (N, NW, C, CR), **UR**, **ES** (KR, IR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, EE), Georgia, N America.

Adelognathus brevis Kasparyan, 1986. Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE).

Adelognathus cephalotes Kasparyan, 1999. Russia: **WS** (TM), **FE** (MG).

Adelognathus chelonus Kasparyan, 1990. Russia: **FE** (PR).

Adelognathus chrysopygus (Gravenhorst, 1829) [Hemiteles] (*Adelognathus granulatus* Perkins, 1943). Parasitoid of *Pristiphora rufipes* Serville (Tenthredinidae). Russia: **EP** (NW, S, NC), **WS** (TM), **ES** (BR, ZB), **FE** (MG). – Europe (WE, NE, SE, EE), Caucasus, Kyrgyzstan.

Adelognathus cubiceps Roman, 1925. Parasitoid of *Pontania* spp. and *Philocolpa* sp. (Tenthredinidae). Russia: **ES** (YA). – Europe (WE, NE, ? EE).

Adelognathus dealbatus Kasparyan, 1990. Russia: **EP** (N, NW), **FE** (KH, PR). – Europe (NE), China (SE).

Adelognathus difformis Holmgren, 1857. Parasitoid of *Platycampus luridiventris* Fll (Tenthredinidae). Russia: **EP** (N, ? NW), **WS** (TM), **ES** (YA, ZB), **FE** (KA). – Europe (WE, NE, ? EE), N America.

Adelognathus dorsalis (Gravenhorst, 1829) [Hemiteles] (*Stilpnus dryadum* Curtis, 1832; *Adelognathus melanius* Roman, 1918; *Epitropus insolitus* Rossem, 1990). Parasitoid of *Dolerus etruscus* Klug, *Monostegia abdominalis* F., *Pristiphora aphantoneura* Foerst. and *Tenthredo rubricoxis* Enslin (Tenthredinidae). Russia: **EP** (N, NW), **ES** (KR, ZB), **FE** (KH, PR, KU, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, China (SE), Japan (Hon), N America.

Adelognathus elongator elongator Kasparyan, 1990. Russia: **FE** (KH). – Europe (NE).

Adelognathus elongator kalgaensis Kasparyan, 1990. Russia: **ES** (ZB).

Adelognathus eurus Kasparyan, 1990. Russia: **FE** (KH, PR, SA, KU). – China (SE).

Adelognathus facialis Thomson, 1883. Russia: **EP** (NW), **FE** (KA). – Europe (WE, NE, EE).

Adelognathus frigidus Holmgren, 1883. Russia: **EP** (N), **ES** (YA). – Europe (NE), N America.

Adelognathus genator Kasparyan, 1990. Russia: **FE** (PR).

Adelognathus laevicollis Thomson, 1883. Parasitoid of *Mesoneura opaca* F. (Tenthredinidae). Russia: **EP** (E, NC, CR). – Europe (WE, NE, EE), Azerbaijan.

Adelognathus longithorax Kasparyan, 1986. Russia: **EP** (N). – Europe (WE, NE).

Adelognathus maculosus Kasparyan, 1990. Russia: **EP** (CR). – Europe (SE), Azerbaijan.

Adelognathus marginellus Holmgren, 1857 (*Adelognathus punctiventris* Thomson, 1883). Parasitoid of *Diprion simile* Hartig, *Gilpinia frutetorum* F., *G. pallida* Klug, *G. socia* Klug, *Macrodiiprion nemoralis* Enslin, *Microdiiprion pallipes* Fll., *Neodiprion sertifer* Geoffr. (Diprionidae). Russia: **EP** (N, C). – Europe (NE, ? EE).

Adelognathus nigrifrons Holmgren, 1857. Russia: **EP** (N, NW, C), **ES** (KR, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, EE), Azerbaijan, N America.

Adelognathus obscurus Kasparyan, 1986. Russia: **EP** (NW). – Europe (WE, NE).

Adelognathus pallipes (Gravenhorst, 1829) [Plectiscus] (*Adelognathus ruthei* Holmgren, 1857). Parasitoid of *Allantus* sp., *Apethymus apicalis* Klug, *Macremphytus testaceus* Norton, *Macrophya albicincta* Schrank and *Periclista lineolata* Klug (Tenthredinidae). Russia: **EP** (N, NW, C, NC), **ES** (KR, IR, BR, YA, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, China (SE), Japan (Hon), N America.

Adelognathus pilosus Thomson, 1888. Russia: **EP** (N, NC, CR). – Europe (WE, NE, SE, EE), Armenia, Central Asia, Kazakhstan.

Adelognathus puncticollis Thomson, 1883. Russia: **EP** (N, NW). – Europe (WE, NE, EE).

Adelognathus punctulatus Thomson, 1883 (*Adelognathus dimidiatus* Thomson, 1888). Parasitoid of *Cladius pectinicornis* Geoffr. (Tenthredinidae). Russia: **EP** (N, NW, C, CR), **UR**, **ES** (KR, BR, YA, ZB), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Uzbekistan, Kazakhstan, N America.

Adelognathus pusillus Holmgren, 1857. Parasitoid of *Phyllocolpa* spp. (Tenthredinidae). Russia: **EP** (N, NW), **ES** (BR), **FE** (PR, SA). – Europe (WE, NE, EE), N America.

Adelognathus rufithorax Kasparyan, 1990. Parasitoid of *Pikonema scutellata* Hartig and *Pristiphora* sp. (Tenthredinidae). Russia: **EP** (NW, NC), **WS** (TM), **ES** (BR). – Europe (WE, NE, EE), Azerbaijan.

Adelognathus stelfoxi Fitton, Gauld et Shaw, 1982. Russia: **EP** (NC), **FE** (KH, PR, SA). – Europe (WE, NE, EE).

Adelognathus tenthredinarum (Giraud, 1872) [Plectiscus] (*Adelognathus nigricornis* Thomson, 1888). Parasitoid of *Apethymus braccatus* Gmel., *Mesoneura opaca* F., *Periclista albida* Klug and *P. pubescens* Zaddach (Tenthredinidae). Russia: **EP** (CR), **ES** (KR, ZB), **FE** (SA). – Europe (WE, NE, SE, EE), Caucasus, Mongolia.

Adelognathus tetratinctorius (Thunberg, 1822) [Ichneumon] (*Adelognathus fasciatus* Thomson, 1883; *A. scabriculus* Thomson, 1883). Parasitoid of *Microdiiprion pallipes*

- Fll. (Diprionidae). Russia: **EP** (N, NW, C), **ES** (TU, KR, IR, BR, YA, ZB), **FE** (KH, PR, KA). – Europe (WE, NE, EE), Armenia, Kazakhstan, Japan (Hon), N America.
- Adelognathus thomsoni** Schmiedeknecht, 1911 (*Adelognathus thuringiacus* Schmiedeknecht, 1911). Russia: **EP** (N, NW, C, NC). – Europe (WE, NE, EE).
- Adelognathus trochanteratus** Kasparyan, 1986. Parasitoid of *Phillocolpa nudipectus* Vikberg (Tenthredinidae). Russia: **EP** (N), **ES** (KR, YA), **FE** (KA). – Europe (NE).
- Adelognathus tumidus** Kasparyan, 1990. Russia: **FE** (KH, PR).
- Adelognathus ussuriensis** Kasparyan, 1986. Russia: **FE** (PR).
- Adelognathus xenocerus** Kasparyan, 1990. Russia: **EP** (NC). – Europe (EE), Azerbaijan, Central Asia, Kazakhstan.

Subfamily AGRIOTYPINAE

A.I. KHALAIM

Agriotypinae is a small highly specialized group of aquatic insects distributed in the Palaearctic and Oriental regions. The species of the subfamily are idiobiont ectoparasitoids parasitizing caddis pupae and prepupae (Trichoptera) under water. The subfamily comprises a single genus.

Number of taxa: World – 1 genus and 16 species, Palaearctic – 1/6, Russia – 1/3.

References. Chao, Zhang, 1981; Chao, 1992; Konishi, Aoyagi, 1994; He et al., 1997a; Bennett, 2001; Kasparyan, Khalaim, 2007f; Bjelanović et al., 2014; Kim et al., 2018a.

AGRIOTYPUS Curtis, 1832 (*Crotopus* Holmgren, 1859; *Atopotypus* Chao, 1992). Type species: *Agriotypus armatus* Curtis, 1832. Palaearctic and Oriental region. Number of species: World – 16, Palaearctic – 6, Russia – 3.

Agriotypus armatus Curtis, 1832 (*Crotopus abnormis* Holmgren, 1859; *Agriotypus major* von Siebold, 1861). Parasitoid of trichopterans *Goera pilosa* F., *Lithax niger* Hagen, *Silo* spp. (Goeridae), *Odontocerum albicorne* Scop. (Odontoceridae) and *Parachiona picicornis* Pictet (Limnephilidae). Russia: **EP** (N, C). – Europe (WE, NE, SE, EE).

Agriotypus changbaishanus Chao, 1981. Russia: **FE** (PR). – China (NE).

Agriotypus silvestris Konishi et Aoyagi, 1994. Parasitoid of *Neophylax japonicus* Schmid and *N. ussuriensis* Martynov (Uenoidae). Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon).

Subfamily ALOMYINAE

A.I. KHALAIM

Alomyinae is a small Palaearctic and Oriental subfamily. Previously they were treated as a tribe within Ichneumoninae,

but currently are considered as a separate subfamily. Larval parasitoids of Hepialidae (Lepidoptera).

Number of taxa: World – 8 genera and 24 species, Palaearctic – 2/8, Russia – 1/2.

References. Bauer, 1966; Hinz, Short, 1983; Riedel, 2019a.

ALOMYA Panzer, 1806 (*Halomya* Billberg, 1820). Type species: *Ichneumon debellator* Fabricius, 1775. Predominantly Palaearctic genus. Number of species: World – 7, Palaearctic – 6, Russia – 1.

Alomya debellator (Fabricius, 1775) [Ichneumon] (*Ichneumon ovator* Fabricius, 1793; *Alomya victor* Curtis, 1826; *A. nigra* Gravenhorst, 1829). Parasitoid of *Hepialus humuli* L., *Korscheltellus lupulina* L. and *Triodia sylvina* L. (Hepialidae). Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Caucasus, Turkey.

Alomya pygmaea Heinrich, 1949 Russia: **EP** (N). – Europe (WE, NE, SE, EE).

Subfamily ANOMALONINAE

A.I. KHALAIM

Worldwide subfamily subdivided into two tribes, Anomalonini and Gravenhorstiini. The former tribe includes a single extant genus, *Anomalon* Panzer, and the latter tribe comprises all remaining genera. Endoparasitoids of larvae of various Lepidoptera; some species have also been reported from the Coleopteran family Tenebrionidae.

Number of taxa: World – 46 genera and 733 species, Palaearctic – 26/208, Russia – 16/68.

References. Uchida, 1958a, 1958b; Viktorov, Atanasov, 1974; Atanasov, 1975a, 1975b, 1975c, 1976, 1977, 1978; Nuzhna, 2010, 2012, 2013; Schnee, 2014, 2018; Shimizu et al., 2017.

Tribe ANOMALONINI

ANOMALON Panzer, 1804 (*Trachynotus* Gravenhorst, 1829; *Nototrachys* Marshall, 1872; *Pseudonototrachys* Meyer, 1930; *Microcremastus* Hedwig, 1961). Type species: *Ichneumon cruentatus* Geoffroy, 1785. Large worldwide genus. Number of species: World – about 90 (taxonomic status of several taxa is unclear), Palaearctic – about 20, Russia – 1.

Anomalon cruentatum (Geoffroy, 1785) [Ichneumon] (*Ichneumon petiolatus* Geoffroy, 1785; *Ophion foliator* Fabricius, 1798; *Anomalon cruentatus* Panzer, 1804; *Trachynotus humeralis* Brullé, 1832; *T. nigerrimus* Strobl, 1904; *Anomalon epiphani* Izquierdo, 1977). Parasitoid of *Gonocephalum* spp., *Opatrum sabulosum* L., *Pedinus femoralis* L. (Coleoptera: Tenebrionidae), *Agrotis ipsilon* Hufnagel, *Cerura* sp. and *Ptilodon capucina* L. (Noctuidae). Widely distributed and abundant Palaearctic

and Oriental species. Russia: **EP** (NW, E, S, NC, CR), **UR**, **WS** (OM), **ES** (IR). – Europe (WE, NE, SE, EE), Canary Is, N Africa, Caucasus, Turkey, Jordan, Lebanon, Israel, Iran, Afghanistan, Pakistan, Central Asia, Kazakhstan, Mongolia, China (NW), Korean Peninsula, Japan, India, SE Asia.

Tribe GRAVENHORSTIINI

AGRYPON Foerster, 1860 (*Trichionotus* Cameron, 1905; *Trichionotus* Cameron, 1905; *Paragrypon* Uchida, 1941; *Dioborus* Rao, 1953). Type species: *Ophion flaveolatum* Gravenhorst, 1807. Worldwide genus. Number of species: World – about 170 species (taxonomic status of several taxa is unclear), Palaearctic – about 60, Russia – 18.

Agrypon anomelas (Gravenhorst, 1829) [Anomalon] (*Agrypon furtivum* Foerster, 1860; *Anomalon trochanteratum* Holmgren, 1860; *Agrypon rufipes* Kiss, 1926). Parasitoid of *Agrodaetus* sp., *Neozephyrus quercus* L., *Polyommatus coridon* Poda (Lycaenidae) and *Blastesthia turionella* L. (Tortricidae). Russia: **EP** (CR), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Caucasus, Pakistan, Kazakhstan, Korean Peninsula.

Agrypon anxium (Wesmael, 1849) [Anomalon] (*Anomalon minutum* Bridgman, 1884; *A. minutum* Bridgman et Fitch, 1884; *Agrypon pictus* Kiss, 1924). Parasitoid of lepidopteran families Geometridae, Noctuidae, Tortricidae, Yponomeutidae, etc. Russia: **EP** (CR), **ES** (without regions: Kasparyan et al., 1981), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkmenistan, Kazakhstan, China (NE), Korean Peninsula, Japan (Hok).

Agrypon batis (Ratzeburg, 1855) [Anomalon] (*Agrypon serpentinum* Foerster, 1860; *Anomalon stenostigma* Thomson, 1892; *A. segne* Tosquinet, 1896). Parasitoid of *Alsophila* sp. (Geometridae), *Etiella* sp. and *Myrlaea* sp. (Pyralidae), *Thyatira batis* L. (Drepanidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (NW, E, NC). – Europe (WE, NE, EE), N Africa, Azerbaijan.

Agrypon canaliculatum (Ratzeburg, 1844) [Anomalon]. Parasitoid of many Tortricidae species, including *Tortrix viridana* L.; also recorded from *Cleorodes lichenaria* Hufn. (Geometridae), *Diurnea fagella* Den. et Schiff. (Lypusidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (N, NW, C), **FE** (KH). – Europe (WE, NE, SE, EE).

Agrypon clandestinum (Gravenhorst, 1829) [Anomalon] (*Anomalon capillosum* Hartig, 1838; *A. affine* Holmgren, 1857; *Agrypon brachypterum* Foerster, 1860; *A. clandestinum* Foerster, 1860; *Labrorychus ruficoxis* Szépligeti, 1899; *Blaptocampus flavopunctatus* Kiss, 1933). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, S, CR), **ES** (IR, YA), **FE** (AM, PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Kyrgyzstan, Kazakhstan, N America, India.

Agrypon daisetsuzanum Uchida, 1928. Russia: **FE** (SA, KU). – Japan (Hok).

Agrypon delarvatum (Gravenhorst, 1829) [Anomalon] (*Anomalon guttiger* Szépligeti, 1899; *Labrorychus nigrifrons* Szépligeti, 1899). Parasitoid of *Coenonympha* sp., *Lasiommata maera* L. (Nymphalidae), *Eupithecia trisignaria* H.-Sch. (Geometridae) and *Thymelicus lineola* Ochs. (Hesperiidae). Russia: **EP** (N, NC), **ES** (YA, ZB), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Caucasus, Central Asia, Kazakhstan, Mongolia.

Agrypon flaveolatum (Gravenhorst, 1807) [Ophion] (*Ichneumon cribrator* Thunberg, 1822; *I. laedator* Thunberg, 1822; *Anomalon arquatum* Gravenhorst, 1829; *A. septentrionale* Holmgren, 1857; *Agrypon aggressorium* Foerster, 1860; *A. confusum* Foerster, 1860; *A. elegantulum* Foerster, 1860; *Habronyx scutellatus* Hellén, 1926). Parasitoid of many taxa of Geometridae, including *Operophtera brumata* L.; also recorded from *Lymantria dispar* L. (Erebidae) and families Noctuidae, Plutellidae, Tortricidae and Yponomeutidae. Russia: **EP** (N, NW, C, S), **FE** (KH, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Central Asia, Kazakhstan, China (SW), Korean Peninsula, Japan (Hok, Hon), N America (introduced).

Agrypon flavifrontatum (Dalla Torre, 1901) [Anomalon] (*Anomalon flavifrons* Smith, 1874). Russia: **FE** (KU). – Japan (Hok, Hon).

Agrypon flexorioides Schnee, 1989. Russia: **EP** (CR). – Europe (WE, SE, EE).

Agrypon flexorium (Thunberg, 1822) [Ichneumon] (*Anomalon tenuicorne* Gravenhorst, 1829; *Agrypon subclavatum* Foerster, 1860; *Labrorychus anaitidis* Szépligeti, 1899; *L. sibiricus* Shestakov, 1923). Parasitoid of various lepidopteran families Gelechiidae, Geometridae, Noctuidae, Tortricidae, Yponomeutidae, etc. Russia: **EP** (N, NW, C, E, S, NC), **WS** (TK, AL), **ES** (IR, YA), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Mongolia, China (NE, NC, NW).

Agrypon gracilipes (Curtis, 1839) [Therion] (*Anomalon debile* Wesmael, 1849; *Agrypon meridionator* Aubert, 1964). Parasitoid of lepidopteran families Depressariidae, Geometridae, Lypusidae, Pyralidae and Tortricidae. Russia: **EP** (S, NC), **WS** (TK), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula.

Agrypon hinzi Schnee, 2018. Russia: **EP** (N). – Europe (WE, NE).

Agrypon hilare (Tosquinet, 1889) [Anomalon] (*Anomalon insigne* Tosquinet, 1889; *Atrometus areolatus* Szépligeti, 1899; *Agrypon meridionellator* Aubert, 1964). Russia: **EP** (NC, CR), **ES** (IR), **FE** (AM, PR). – Europe (WE, EE), Central Asia, Kazakhstan.

Agrypon interstitiale Schnee, 1989. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), Turkey.

Agrypon polyxenae (Szépligeti, 1899) [Labrorychus]. Parasitoid of *Archon apollinus* Herbst, *Zerynthia polyxena* Den. et Schiff., *Z. rumina* L. (Papilionidae) and *Euproctis*

- chrysorrhoea* L. (Erebidae). Russia: **EP** (E, S, NC). – Europe (WE, SE, EE), Israel.
- Agrypon rugifer** (Thomson, 1894) [Anomalon]. Parasitoid of *Hypena crassalis* F. (Erebidae). Russia: **EP** (N, NW, C), **WS** (TK), **FE** (PR). – Europe (WE, NE, SE, EE).
- Agrypon varitarsum** (Wesmael, 1849) [Anomalon] (*Agrypon cognatum* Foerster, 1860; *Anomalon nigripes* Bridgman, 1887). Parasitoid of various Lepidoptera. Russia: **EP** (N, NC), **ES** (ZB), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, Japan (Hok, Hon), N America, India, Myanmar.
- APHANISTES** Foerster, 1869. Type species: *Anomalon bellicosum* Wesmael, 1849. Predominantly Holarctic genus also occurring in the Oriental, Neotropical and Australasian regions. Number of species: World – 65, Palearctic – 12, Russia – 5.
- Aphanistes bellicosus** (Wesmael, 1849) [Anomalon]. Parasitoid of Geometridae, Noctuidae and Sphingidae. Russia: **EP** (N, NW), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey, Japan (Hok, Hon).
- Aphanistes gliscens** (Hartig, 1838) [Anomalon] (*Anomalon armatum* Wesmael, 1849). Parasitoid of Geometridae, Noctuidae and Thyatiridae. Russia: **EP** (N, C, E, S, NC), **UR**, **ES** (without regions: Kasparyan et al., 1981), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Kyrgyzstan, Kazakhstan.
- Aphanistes klugii** (Hartig, 1838) [Anomalon] (*Anomalon sphingum* Ratzeburg, 1848; *Aphanistes schimitscheki* Fahringer, 1943; *A. megasoma* Heinrich, 1949). Parasitoid of *Mimas tiliae* L. and *Sphinx pinastri* L. (Sphingidae). Russia: **EP** (N), **WS** (NS). – Europe (WE, NE, EE).
- Aphanistes nugalii** (Tosquinet, 1889) [Anomalon]. Russia: **FE** (AM).
- Aphanistes ruficornis** (Gravenhorst, 1829) [Anomalon] (*Anomalon excavatum* Ratzeburg, 1848; *A. wesmaeli* Holmgren, 1856; *Aphanistes asahidakeanus* Uchida, 1928; *A. orientalis* Uchida, 1928). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, NC), **WS** (AL), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, Korean Peninsula, Japan.
- ATROMETUS** Foerster, 1869. Type species: *Atrometus insignis* Foerster, 1878. Number of species: World, Palearctic and Russia – 1.
- Atrometus insignis** Foerster, 1878 (*Atrometus rubricatus* Foerster, 1878, nom. praeocc., nec Foerster, 1860; *Anomalon trachynotus* Brauns, 1895; *Atrometus melanosoma* Szépligeti, 1899; *A. pulchellator* Aubert, 1971). Parasitoid of *Coleophora currucipennella* Z. (Coleophoridae), *Pachythelia villosella* Ochs. (Psychidae) and *Zygaena* spp. (Zygaenidae). Russia: **EP** (CR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel.
- BARYLYPA** Foerster, 1869 (*Laphyctes* Foerster, 1869; *Sarntheinia* Dalla Torre, 1901; *Hadromanus* Szépligeti, 1905; *Trochiscomerus* Meyer, 1931). Type species: *Anomalon genalis* Thomson, 1892. Predominantly Holarctic genus. Number of species: World – 61, Palearctic – 21, Russia – 12.
- Barylypa amabilis** (Tosquinet, 1900) [Anomalon] (*Barylypa variabilis* Greese, 1927; *B. chlorotica* Meyer, 1935; *B. shach* Meyer, 1935; *B. taurica* Meyer, 1935). Parasitoid of *Agrotis segetum* Den. et Schiff., *Helicoverpa armigera* Hbn., *Heliothis virescens* Hufn. and *Spodoptera* spp. (Noctuidae). Russia: **EP** (S). – Europe (EE), N Africa, Caucasus, Turkey, Israel, Iran, Afghanistan, Central Asia, Kazakhstan.
- Barylypa caucasica** (Meyer, 1935) [Hadromanus]. Russia: **EP** (NC).
- Barylypa delictor** (Thunberg, 1822) [Ichneumon] (*Anomalon perspicillator* Gravenhorst, 1829; *A. affine* Lucas, 1849; *A. genalis* Thomson, 1892; *Barylypa temporalis* Meyer, 1935). Parasitoid of lepidopteran families Noctuidae, Lasiocampidae and Lymantriidae. Russia: **EP** (NW, E, S). – Europe (WE, NE, SE, EE), Canary Is, N Africa, Caucasus, Turkey, Jordan, Israel, Iran, Central Asia, Kazakhstan.
- Barylypa formosa caucasica** Meyer, 1927. Russia: **EP** (NC).
- Barylypa helleni** Schnee, 1989 (*Agrypon rossicum* Hellén, 1950). Parasitoid of *Zygaena* sp. (Zygaenidae). Russia ("Russia meridionalis": Hellén, 1950). – Europe (WE), Iran.
- Barylypa jakovlevi** Meyer, 1935. Russia: **EP** (C, E).
- Barylypa mesozona** (Foerster, 1878) [Laphyctes] (*Anomalon longicorne* Brauns, 1895; *Barylypa frisiaca* Habermehl, 1922). Parasitoid of *Phalera bucephala* L. (Notodontidae). Russia: **EP** (C), **WS** (AL). – Europe (WE, SE, EE).
- Barylypa pallida** (Gravenhorst, 1829) [Anomalon] (*Anomalon melanocneme* Vollenhoven, 1878; *A. exquisitum* Tosquinet, 1889; *A. laticeps* Thomson, 1892; *A. discrepans* Brauns, 1895; *A. renidens* Tosquinet, 1896; *A. elegantulum* Schmiedeknecht, 1900; *Barylypa persicator* Aubert, 1966). Parasitoid of lepidopteran families, Erebidae, Lasiocampidae and Noctuidae. Russia: **EP** (C, NC), **WS** (AL), **FE** (AM). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan.
- Barylypa propugnator** (Foerster, 1855) [Anomalon] (*Laphyctes insidiator* Foerster, 1878; *Anomalon carinatum* Brischke, 1880; *A. cylindricum* Bridgman, 1884; *A. cylindricum* Bridgman et Fitch, 1884; *Erigorgus ruficornis* Szépligeti, 1899; *Labrorychus roborowskii* Kokujev, 1915; *Anomalon rufum* Habermehl, 1920; *Barylypa sibirica* Meyer, 1930; *B. monticola* Meyer, 1935; *B. semenovi* Meyer, 1935; *B. massiliator* Aubert, 1964). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, NC), **WS** (TM), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Afghanistan, Central Asia, Kazakhstan, Mongolia, China (NC, NW), Korean Peninsula.
- Barylypa rubricator** (Szépligeti, 1899) [Laphyctes] (*Barylypa rossica* Meyer, 1935; *Agrypon flaviventris* Hellén,

- 1950). Russia: **EP** (C, E, S), **ES** (KR, ZB). – Europe (WE, NE, SE, EE), Caucasus, Kyrgyzstan.
- Barytypa rufa** (Holmgren, 1857) [Anomalon] (*Anomalon vicinum* Foerster, 1855; *A. humerale* Brauns, 1895; *A. paradoxum* Brauns, 1895). Parasitoid of various Noctuidae; also recorded from families Erebidae, Lasiocampidae, Lymantriidae and Psychidae. Russia: **EP** (C, E, S, NC, CR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Israel, Iran, Afghanistan, Central Asia.
- Barytypa uniguttata** (Gravenhorst, 1829). Russia: **EP** (N, C, S, NC, CR), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Iran, Afghanistan, Central Asia.
- CAMPOSCOPUS** Foerster, 1869 (*Labrorychus* Foerster, 1869; *Blaptocampus* Thomson, 1892). Type species: *Camposcopus acclivora* Rohwer, 1915. Holarctic, Oriental and Neotropical genus. Previously this taxon was considered as a subgenus of *Habronyx* (Yu et al., 2016) but recently was raised to genus level (Schnee, 2018). Number of species: World – 12, Palaearctic – 4, Russia – 3.
- Camposcopus nigricornis** (Wesmael, 1849) [Anomalon] (*Agrypon melanomerum* Foerster, 1860; *Blaptocampus maidan* Shestakov, 1923; *B. maxillaris* Uchida, 1958). Parasitoid of Geometridae, Noctuidae and Tortricidae. Russia: **EP** (C), **WS** (TM). – Europe (WE, NE, EE), Japan.
- Camposcopus perspicuus** (Wesmael, 1849) [Anomalon]. Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Camposcopus tonnaiensis** (Uchida, 1929) [Blaptocampus]. Russia: **FE** (SA).
- CLYPEOCAMPULUM** Gauld, 1976. Type species: *Clypeocampulum tibiale* Gauld, 1976 (= *Erigorgus lubricum* Atanasov, 1975). Small Palaearctic genus. Number of species: World and Palaearctic – 3, Russia – 1.
- Clypeocampulum lubricum** (Atanasov, 1975) [Erigorgus] (*Clypeocampulum tibiale* Gauld, 1976). Parasitoid of *Euchloe* spp. and *Zegris eupheme* Esper (Pieridae). Russia: **EP** (CR). – Europe (WE, SE), Turkey, Israel, Central Asia, Kazakhstan.
- ERIGORGUS** Foerster, 1869 (*Sympratis* Foerster, 1869; *Paranomalon* Viereck, 1912). Type species: *Anomalon fibulator* Gravenhorst, 1829. Predominantly Holarctic genus. Number of species: World – 70, Palaearctic – 31, Russia – 12.
- Erigorgus borealis** (Hellén, 1926) [Anomalon]. Russia: **EP** (CR). – Europe (NE).
- Erigorgus cerinops** (Gravenhorst, 1829) [Anomalon] (*Ophion flavifrons* Gravenhorst, 1807, nom. praeocc., nec Fabricius, 1798; *Anomalon xanthum* Boie, 1855; *Campoplex facialis* Boie, 1857; *Anomalon rufofemorale* Schmiedeknecht, 1936). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, S), **ES** (YA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Kyrgyzstan, Kazakhstan, Mongolia.
- Erigorgus femorator** Aubert, 1960. Parasitoid of *Thaumetopoea pityocampa* Den. et Schiff. (Thaumetopoeidae). Russia: **EP** (CR). – Europe (WE, SE, EE), N Africa, Turkey, Israel.
- Erigorgus fibulator** (Gravenhorst, 1829) [Anomalon] (*Anomalon claripennis* Thomson, 1892). Parasitoid of lepidopteran families Lasiocampidae, Noctuidae, Sphingidae and Zygaenidae. Russia: **EP** (N, NW, S, NC, CR), **WS** (TK), **ES** (ZB). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Central Asia, Kazakhstan.
- Erigorgus latro** (Schränk, 1781) [Ichneumon] (*Anomalon pinastri* Hartig, 1838; *A. pyriforme* Ratzeburg, 1852). Parasitoid of *Thaumetopoea pityocampa* Den. et Schiff. (Thaumetopoeidae) and several species from families Noctuidae and Sphingidae. Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan.
- Erigorgus melanobatus** (Gravenhorst, 1829) [Anomalon] (*Anomalon ferrugator* Gravenhorst, 1829; *Ophion pubescens* Zetterstedt, 1838; *Anomalon boreale* Hellén, 1926). Parasitoid of Erebidae, Noctuidae and Thaumetopoeidae. Russia: **EP** (CR), **ES** (YA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Tajikistan.
- Erigorgus melanops** (Foerster, 1855) [Anomalon] (*Anomalon varians* Brauns, 1895; *Erigorgus flavimanus* Szépligeti, 1899; *E. interstitialis* Szépligeti, 1899; *E. similis* Szépligeti, 1899; *E. purpuratae* Kriechbaumer, 1900). Parasitoid of *Maniola jurtina* L., *Melanargia galathea* L. (Nymphalidae), *Parnassius apollo* L. (Papilionidae), *Rhyparia purpurata* L. (Erebidae) and *Selenephra* sp. (Lasiocampidae). Russia: **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Israel, Kyrgyzstan.
- Erigorgus procerus** (Gravenhorst, 1829) [Anomalon]. Parasitoid of *Agriopis bajaria* Den. et Schiff. and *Sphinx ligustri* L. (Sphingidae). Russia: **EP** (N, NW, C, NC), **WS** (without regions: Kasparyan et al., 1981), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Kazakhstan.
- Erigorgus romani** (Hellén, 1926) [Anomalon]. Russia: **EP** (N), **ES** (IR/BR). – Europe (NE, EE).
- Erigorgus varicornis** (Thomson, 1894). Russia: **EP** (N). – Europe (WE, NE), Israel.
- Erigorgus versutus** Atanasov, 1975. Russia: **ES** (YA).
- Erigorgus villosus** (Gravenhorst, 1829) [Anomalon] (*Anomalon flavipenne* Brauns, 1895; *Erigorgus nigripes* Meyer, 1929). Parasitoid of *Lemonia dumi* L. (Brahmaeidae). Russia: **EP** (? E, ? NC, CR), ? **ES** (IR). – Europe (WE, NE, EE), ? Central Asia.
- HABROCAMPULUM** Gauld, 1976. Type species: *Anomalon biguttatum* Gravenhorst, 1829. Holarctic genus. Number of species: World and Palaearctic – 2, Russia – 1.
- Habrocampulum biguttatum** (Gravenhorst, 1829) [Anomalon]. Parasitoid of Geometridae, Lasiocampidae and Noctuidae. Russia: **EP** (NW, C), **ES** (without regions:

- Kasparyan et al., 1981). – Europe (WE, NE, SE, EE), N America.
- HABRONYX** Foerster, 1869 (*Acanthostoma* Kriechbaumer, 1895; *Macrostemma* Shestakov, 1923; *Formosanomalon* Uchida, 1928). Type species: *Habronyx gravenhorstii* Foerster, 1860 (= *Anomalon heros* Wesmael, 1849). Worldwide genus comprising three subgenera: one is restricted to Australia, and two other are represented in the Palaearctic region and Russia. Number of species: World – 36, Palaearctic – 5, Russia – 3.
- Habronyx (Habronyx) elegans** (Shestakov, 1923) [Macrostemma]. Russia: **FE** (AM, PR). – Korean Peninsula, Japan.
- Habronyx (Habronyx) heros** (Wesmael, 1849) [Anomalon] (*Anomalon mirabile* Desvignes, 1856; *Habronyx gravenhorstii* Foerster, 1860; *Anomalon gigas* Kriechbaumer, 1880; *A. oti* Kriechbaumer, 1895; *Habronyx matsukemushii* Matsumura, 1926). Parasitoid of various Lasiocampidae, also recorded from Saturniidae and Sphingidae. Russia: **EP** (? N, NW, C), **WS** (TM), **ES** (ZB), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, Israel, China (NE, NC, NW, CC, SW), Korean Peninsula, Japan (Ryu).
- Habronyx (Habronyx) insidiator** (Smith, 1874) [Anomalon] (*Acanthostoma japonicum* Kriechbaumer, 1895). Parasitoid of *Antheraea* spp. and *Caligula* spp. (Saturniidae). Russia: **FE** (PR, SA, KU). – China (CC, SE), Korean Peninsula, Japan.
- HETEROPELMA** Wesmael, 1849 (*Schizoloma* Wesmael, 1849; *Tanytelma* Townes, 1971). Type species: *Heteropelma calcator* Wesmael, 1849 (= *Anomalon megarthrum* Ratzeburg, 1848). Predominantly Holarctic and Oriental genus; also known from the Neotropical and Australasian regions. Number of species: World – 29, Palaearctic – 11, Russia – 4.
- Heteropelma amictum** (Fabricius, 1775) [Ichneumon] (*Ichneumon xanthopus* Schrank, 1781; *Anomalon capitatum* Desvignes, 1856; *A. bucephalum* Vollenhoven, 1858; *Schizoloma bucephalum* Brauns, 1898; *Habronyx sachalinensis* Matsumura, 1912; *Exochilum acheron* Morley, 1913; *Schizoloma coreanum* Uchida, 1928; *S. intermedium* Uchida, 1928; *S. nigricoxalis* Uchida, 1928). Parasitoid of lepidopteran families Geometridae, Lasiocampidae, Noctuidae, Notodontidae, Sphingidae, etc. Russia: **EP** (N, NW, C), **ES** (ZB), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Kazakhstan, China, Korean Peninsula, Japan, India, Sri Lanka, Nepal, Myanmar, Philippines, Indonesia.
- Heteropelma fulvitarse** Cameron, 1899 (*Heteropelma grossator* Shestakov, 1923; *H. parargis* Heinrich, 1953). Parasitoid of *Lasiommata maera* L. and *Pararge* sp. (Nymphalidae). Russia: **WS** (TM), **FE** (PR). – Europe (WE), Turkmenistan, China (NC, SW, WP, SE), Korean Peninsula, India, Nepal, Myanmar, Laos.
- Heteropelma megarthrum** (Ratzeburg, 1848) [Anomalon] (*Heteropelma calcator* Wesmael, 1849; *Anomalon scabridum* Boie, 1855; *A. nigriscutum* Fahringer, 1941). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, S, NC), **WS** (AL), **ES** (YA, ZB), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Central Asia, Kazakhstan, Mongolia, China (NE), Korean Peninsula, Japan, India.
- Heteropelma signatum** (Gravenhorst, 1829) [Anomalon] (*Anomalon flavitarse* Rudow, 1883; *Erigorgus lanator* Aubert, 1989). Parasitoid of *Eriogaster* spp., *Lasiocampa* sp. (Lasiocampidae) and *Saturnia pavonia* L. (Saturniidae). Russia: **EP** (C). – Europe (WE, EE), Israel, Iran.
- KOKUJEWIELLA** Shestakov, 1926. Type species: *Kokujewiella vicaria* Shestakov, 1926. Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.
- Kokujewiella vicaria** Shestakov, 1926 (*Trichomma cingulata* Meyer, 1929). Parasitoid of *Euxoa nigrofusca* L. (Noctuidae). Russia: **EP** (E). – Turkey, Israel, Uzbekistan, Kazakhstan.
- PARANIA** Morley, 1913. Type species: *Parania nototrachoides* Morley, 1913 (= *Atrometus tricolor* Szépligeti, 1906). Almost worldwide genus, unknown only from Australia. Number of species: World – 12, Palaearctic and Russia – 1.
- Parania geniculata** (Holmgren, 1857) [Anomalon]. Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C), **ES** (without regions: Kasparyan et al., 1981). – Europe (WE, NE, SE, EE), Turkey, N America.
- PERISPINCTER** Townes, 1961. Type species: *Agrypnon tisiphone* Morley, 1913. Holarctic, Oriental and Australasian genus. Number of species: World – 7, Palaearctic – 4, Russia – 1.
- Perispincter brevicollis** (Wesmael, 1849) [Anomalon] (*Anomalon flavitarsum* Brischke, 1880; *A. brischkei* Dalla Torre, 1901; *Perispincter extrarius* Viktorov et Atanasov, 1974). Parasitoid of *Cabera pusaria* L. (Geometridae). Russia: **EP** (N, C). – Europe (WE, NE, SE, EE), Caucasus.
- THERION** Curtis, 1829 (*Exochilum* Wesmael, 1849). Type species: *Ichneumon circumflexus* Linnaeus, 1758. Predominantly Holarctic and Neotropical genus. Number of species: World – 24, Palaearctic – 8, Russia – 3.
- Therion brevicorne** (Gravenhorst, 1829) [Anomalon]. Parasitoid of *Acronicta cinerea* Hufn., *Melanchra persicariae* L. and *Shargacucullia scrophulariae* Den. et Schiff. (Noctuidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Therion circumflexum** (Linnaeus, 1758) [Ichneumon] (*Anomalon unicolor* Ratzeburg, 1844; *A. japonicum* Cameron, 1906; *Exochilum callosum* Shestakov, 1923; *E. laricis*

Matsumura, 1926; *E. nigroscutellata* Uchida, 1928; *E. nipponicum* Uchida, 1928; *E. rufomaculatum* Uchida, 1928; *Therion curticornis* Bauer, 1967). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, E, S), **UR**, **ES** (IR), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Mongolia, China, Korean Peninsula, Japan, N America, India.

Therion giganteum (Gravenhorst, 1829) [Anomalon] (*Anomalon pyramidatus* Thomson, 1894; *Exochilum dendrolimi* Matsumura, 1926; *E. dendrolimusi* Matsumura, 1926). Parasitoid of *Dendrolimus* spp., *Gastropacha* sp., *Lasiocampa* spp. (Lasiocampidae), *Lycophotia* sp. and *Pseudaletia* sp. (Noctuidae). Russia: **EP** (S), **WS** (TK), **ES** (TU, IR), **FE** (SA, KU). – Europe (WE, NE, SE, EE), N Africa, Caucasus, China (NE, NC/NW).

TRICHOMMA Wesmael, 1849. Type species: *Trichomma fulvidens* Wesmael, 1849. Worldwide genus. Number of species: World – 32, Palaearctic – 7, Russia – 2.

Trichomma enecator (Rossi, 1790) [Ichneumon] (*Trichomma ruficoxis* Foerster, 1860). Parasitoid of various lepidopteran families Erebidae, Lasiocampidae, Noctuidae, Psychidae, etc. Russia: **EP** (N, NW, C, E, CR), **FE** (AM, PR). – Europe (WE, NE, SE, EE), Canary Is, N Africa, Caucasus, Turkey, Kazakhstan, Korean Peninsula, Japan (Hon).

Trichomma fulvidens Wesmael, 1849 (*Trichomma bituberculatum* Schmiedeknecht, 1902). Russia: **EP** (without regions: Kasparyan et al., 1981), **WS** (without regions: Kasparyan et al., 1981), **FE** (AM, PR). – Europe (WE, EE), Korean Peninsula, Japan (Hon).

Subfamily ATELEUTINAE

A.I. KHALAIM

Ateleutines were regarded as a subtribe of Cryptini (Cryptinae) but recently were raised to separate subfamily. The subfamily comprises three genera: *Ateleute* Foerster, monotypic Australian *Duvalia* Santos and Neotropical *Tamaulipecta* Kasparyan. Several ateleutine species have been reared from Psychidae (Lepidoptera).

Number of taxa: World – 3 genera and 48 species, Palaearctic – 1/4, Russia – 1/1.

References. Santos et al., 2011, 2018; Bordera et al., 2012.

ATELEUTE Foerster, 1869 (*Talorga* Cameron, 1911; *Psychostenus* Uchida, 1955). Type species: *Ateleute linearis* Foerster, 1871. Almost worldwide genus with most species described from the Neotropical and Afrotropical regions. Number of species: World – 42, Palaearctic – 4, Russia – 1.

Ateleute linearis Foerster, 1871 (*Hemiteles lissonotoides* Thomson, 1885; *H. egregius* Schmiedeknecht, 1933). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).

Subfamily BANCHINAE

A.I. KHALAIM

Banchinae is a worldwide subfamily which is well represented in all regions of the world. It is subdivided into three tribes, the Atrophini, Banchini and Glyptini. Almost all Banchinae are solitary endoparasitoids of the larvae of various Lepidoptera, although several banchine species are known to be gregarious.

Number of taxa: World – 65 genera and 1869 species, Palaearctic – 25/about 529, Russia – 17/220.

References. Kuslitzky, 1974, 2007; Rey del Castillo, 1992; Watanabe, Maeto, 2014a, 2014b; Riedel, 2015a; Kang et al., 2016, 2018a, 2018b, 2019a, 2019b; Watanabe, 2017a, 2017b; Kasparyan, Kuslitzky, 2018a; Li et al., 2018; Sheng et al., 2018; Watanabe, Sheng, 2018.

Tribe ATROPHINI

ALLOPLASTA Foerster, 1869 (*Asymmetictus* Foerster, 1869; *Trysicampe* Foerster, 1869; *Trichopimpla* Cameron, 1903). Type species: *Lissonota murina* Gravenhorst, 1829 (= *Ichneumon piceator* Thunberg, 1822). Predominantly Holarctic genus with several taxa also in the Oriental region. Number of species: World – about 20, Palaearctic – 13, Russia – 8.

Alloplasta kuslitzkii Kasparyan, 2007. Russia: **FE** (KH, PR). **Alloplasta longipetiolaris** (Uchida, 1952) [Amersibia]. Russia: **ES** (IR), **FE** (AM, KH, PR, SA). – China (NE), Korean Peninsula, Japan (Hon, Shi).

Alloplasta maruyamana (Uchida, 1928) [Meniscus]. Russia: **FE** (KH, PR). – China (NE, NC/NW), Japan.

Alloplasta nigripes (Meyer, 1930) [Meniscus]. Russia: **FE** (KH, PR). – Europe (EE), China (NE), Japan.

Alloplasta piceator (Thunberg, 1822) [Ichneumon] (*Ichneumon creditor* Thunberg, 1822; *Exetastes albitarsus* Gravenhorst, 1829; *E. latus* Gravenhorst, 1829; *Lissonota murina* Gravenhorst, 1829; *Tryphon murinus* Gravenhorst, 1829; *Cryptus genucinctus* Rudow, 1886; *Meniscus variipes* Szépligeti, 1899). Parasitoid of lepidopteran families Erebidae and Noctuidae. Russia: **EP** (N, NW, C, E, S, NC), **UR**, **WS** (AL), **ES** (KR, IR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, China (NC/NW), N America.

Alloplasta plantaria plantaria (Gravenhorst, 1829) [Phytodietus]. Parasitoid of *Acronicta megacephala* Den. et Schiff. and *Orthosia populeti* F. (Noctuidae). Russia: **EP** (E), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China (NE, NC/NW).

Alloplasta plantaria rufilegus (Meyer, 1922) [Meniscus]. Russia: **EP** (S).

Alloplasta simplex (Tosquinet, 1889) [Meniscus]. Russia: **FE** (PR).

Alloplasta subgrisea Kasparyan, 2007. Russia: **FE** (KH).

- AMPHIRHACHIS** Townes, 1970 (*Fintona* Cameron, 1909). Type species: *Amphirhachis nigra* Townes, 1970. East Palaearctic and Oriental genus. Number of species: World – 7, Palaearctic – 4, Russia – 2.
- Amphirhachis nigra** Townes, 1970. Russia: **FE** (KU). – Japan (Hok, Hon, Shi, Kyu).
- Amphirhachis tertius** (Momoi, 1970) [*Fintona*] (*Amphirhachis quadripunctata* Kuslitzky, 1995). Russia: **FE** (PR). – Kazakhstan, Japan (Kyu, Ryu).
- ARENETRA** Holmgren, 1859 (*Lasiops* Holmgren, 1856, nom. praeocc., nec Meigen, 1838). Type species: *Tryphon pilosellus* Gravenhorst, 1829. Holarctic genus. Number of species: World – 14, Palaearctic – 4, Russia – 2.
- Arenetra agrotidis** Kokujev, 1906 (*Arenetra favonii* Kuzin, 1950). Parasitoid of *Agrotis* sp. (Noctuidae). Russia: **EP** (CR). – Europe (NE), Turkey, Iran, Kazakhstan.
- Arenetra pilosella** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Phigalia pilosaria* Den. et Schiff. (Geometridae). Russia: **EP** (NW, E, S, CR), **ES** (IR). – Europe (WE, NE, EE), Iran.
- CRYPTOPIMPLA** Taschenberg, 1863 (*Aphanodon* Foerster, 1869; *Xenacis* Foerster, 1869; *Harrimaniella* Ashmead, 1900; *Xenocormia* Schmiedeknecht, 1900). Type species: *Phytodietus blandus* Gravenhorst, 1829 (= *Tryphon quadrilineatus* Gravenhorst, 1829). Predominantly Holarctic and Oriental genus. Number of species: World – 50, Palaearctic – 28, Russia – 12.
- Remarks.** According to Taxapad (Yu et al., 2016), *Cryptopimpla turana* (Habermehl, 1917) was described from Russia, but actually its type locality “Ispajran Alai” [Alai Mountains] (Habermehl, 1917: 232) is in Uzbekistan.
- Cryptopimpla anomala** (Holmgren, 1860) [Lissonota]. Parasitoid of *Entephria flavicinctata* Hbn. (Geometridae). Russia: **EP** (without regions: Kuslitzky, 2007), **ES** (BR), **FE** (SA, KA, MG). – Europe (WE, NE, EE), N America.
- Cryptopimpla brevigena** Kuslitzky, 2007. Russia: **FE** (PR, KU). – China (NE), Korean Peninsula, Japan.
- Cryptopimpla breviungula** Kuslitzky, 2007. Russia: **FE** (PR).
- Cryptopimpla calceolata** (Gravenhorst, 1829) [Phytodietus] (*Lissonota leptogaster* Holmgren, 1860). Russia: **EP** (E, S). – Europe (WE, NE, SE, EE), Caucasus.
- Cryptopimpla caligata** (Gravenhorst, 1829) [Lissonota] (*Xenacis ruficoxis* Kiss, 1926). Parasitoid of *Eorophila badiata* Den. et Schiff. (Geometridae) and *Argyrotaenia jungiana* Thunb. (Tortricidae). Russia: **EP** (N, NW, S), **UR**, **ES** (IR, ZB). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan.
- Cryptopimpla collaris** Kuslitzky, 2007. Russia: **ES** (ZB). – Mongolia.
- Cryptopimpla errabunda** (Gravenhorst, 1829) [Phytodietus]. Parasitoid of various Geometridae and Tortricidae.
- Russia: **EP** (N; widespread: Kasparyan et al., 1981), **WS/ES** (without regions: Kuslitzky, 2007). – Europe (WE, NE, SE, EE), Kazakhstan.
- Cryptopimpla genalis** (Thomson, 1877) [Lissonota] (*Cryptopimpla memoranda* Shestakov, 1927). Parasitoid of *Spargania luctuata* Den. et Schiff. (Geometridae). Russia: **EP** (NW, C), **WS/ES** (without regions: Kasparyan et al., 1981; Kuslitzky, 2007), **FE** (MG). – Europe (WE, NE, EE), Kazakhstan, N America.
- Cryptopimpla helvetica** Brauns, 1901. Russia: **ES** (BR). – Europe (WE, SE), China (NE).
- Cryptopimpla quadrilineata** (Gravenhorst, 1829) [Tryphon] (*Phytodietus blandus* Gravenhorst, 1829; *Lissonota altipes* Holmgren, 1860; *L. vaga* Szépligeti, 1899; *Xenacis hungarica* Szépligeti, 1899). Russia: **EP** (N, S). – Europe (WE, NE, EE), N America.
- Cryptopimpla solitaria** (Schmiedeknecht, 1900) [Xenocormia]. Russia: **EP** (without regions: Kuslitzky, 2007). – Europe (WE, EE).
- Cryptopimpla subfumata** (Thomson, 1877) [Lissonota] (*Cryptopimpla alpina* Hedwig, 1956). Russia: **EP** (without regions: Kuslitzky, 2007), **WS** (without regions: Kuslitzky, 2007), **FE** (PR, KU). – Europe (WE, NE, EE), Kazakhstan, Mongolia.
- HIMERTOSOMA** Schmiedeknecht, 1900 (*Ctenonyx* Seyrig, 1934). Type species: *Himertosoma superba* Schmiedeknecht, 1900. Almost exclusively Afrotropical genus with several species in the Oriental and Palaearctic regions. Number of species: World – 59, Palaearctic – 3, Russia – 1.
- Himertosoma uchidai** Kuslitzky, 2007 (*Himertosoma sulcata* Kuslitzky, 1995, nom. praeocc., nec Szépligeti, 1908). Russia: **FE** (PR, KU).
- LEPTOBATOPSIS** Ashmead, 1900 (*Tanera* Cameron, 1905; *Sauterellus* Enderlein, 1912; *Megacrema* Meyer, 1932). Type species: *Leptobatopsis australiensis* Ashmead, 1900 (= *Cryptus indicus* Cameron, 1897). Predominantly Oriental genus. Number of species: World – 32, Palaearctic – 9, Russia – 2.
- Leptobatopsis annularis** Kasparyan, 2007. Russia: **FE** (PR).
- Leptobatopsis nigra immaculata** Momoi, 1971. Russia: **FE** (PR). – China (NE, CC, SW), Philippines.
- LISSONOTA** Gravenhorst, 1829 (*Lampronota* Curtis, 1832; *Stilbonota* Stephens, 1835; *Meniscus* Schiødte, 1839; *Bathycetes* Foerster, 1869; *Bothynophrys* Foerster, 1869; *Ensimus* Foerster, 1869; *Ctenopimpla* Cameron, 1899; *Anathronota* Schmiedeknecht, 1900; *Campocinetia* Schmiedeknecht, 1900; *Echthrodoca* Schmiedeknecht, 1900; *Pimplopterus* Ashmead, 1900; *Lophantium* Clément, 1925; *Gibbonota* Heinrich, 1937). Type species: *Ichneumon setosus* Geoffroy, 1785. Worldwide genus. The fauna of Russia is poorly studied and requires revision.

Number of species: World – about 409, Palaearctic – about 164, Russia – 43.

- Lissonota (Lissonota) accusator** (Fabricius, 1793) [Ichneumon] (*Ichneumon rusticator* Thunberg, 1822; *Lissonota uncinata* Holmgren, 1860; *L. thomsoni* Schmiedeknecht, 1900; *L. nigricoxa* Strobl, 1902; *L. segmentellator* Aubert, 1967). Parasitoid of lepidopteran families Gelechiidae, Sesiidae, Tineidae and Tortricidae. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Turkey, N America.
- Lissonota (Lissonota) argiola** Gravenhorst, 1829 (*Lissonota eximia* Habermehl, 1918). Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, EE).
- Lissonota (Lissonota) biguttata** Holmgren, 1860 (*Lissonota femorata* Holmgren, 1860; *L. crassipes* Thomson, 1877). Parasitoid of *Operophtera* spp. (Geometridae). Russia: **EP** (N). – Europe (WE, NE, SE, EE), Turkey.
- Lissonota (Lissonota) bilineata** Gravenhorst, 1829. Parasitoid of various Sesiidae. Russia: **EP** (E, S, NC), **ES** (IR). – Europe (WE, NE, SE, EE).
- Lissonota (Lissonota) buccator** (Thunberg, 1822) [Ichneumon] (*Lissonota varicoxa* Thomson, 1877; *L. iridipennis* Kriechbaumer, 1900). Parasitoid of various Lepidoptera. Russia: **EP** (widespread: Kasparyan et al., 1981). – Europe (WE, NE, SE, EE), Japan.
- Lissonota (Lissonota) carbonaria** Holmgren, 1860 (*Lissonota melania* Holmgren, 1860; *L. artemisiae* Tschek, 1871). Parasitoid of lepidopteran families Crambidae, Geometridae, Tortricidae, etc. Russia: **EP** (widespread: Kasparyan et al., 1981). – Europe (WE, NE, SE, EE), Caucasus, Turkey, China (NE), Korean Peninsula.
- Lissonota (Lissonota) chosensis** (Uchida, 1955) [Meniscus] (*Meniscus obsoletus* Uchida, 1928, nom. praeocc., nec Bridgman, 1889). Russia: **FE** (SA, KU). – China (NE, CC), Korean Peninsula, Japan.
- Lissonota (Lissonota) clypeator** (Gravenhorst, 1820) [Ichneumon] (*Lissonota unicornis* Strobl, 1902; *L. spectabilis* Schmiedeknecht, 1935; *L. magna* Heinrich, 1952). Parasitoid of lepidopteran families Noctuidae, Sesiidae, etc. Russia: **EP** (N, C), **UR**, **FE** (SA/KU). – Europe (WE, NE, SE, EE), Turkey, Israel, Iran, China (NE, NC, NW), Korean Peninsula, Japan, N America.
- Lissonota (Lissonota) conflagrata** Gravenhorst, 1829 (*Meniscus fumipennis* Rudow, 1881). Parasitoid of *Acronicta cinerea* Hufn. and *Gortyna flavago* Den. et Schiff. (Noctuidae). Russia: **EP** (C). – Europe (WE, EE), Caucasus, China (NE).
- Lissonota (Lissonota) coracina** (Gmelin, 1790) [Ichneumon] (*Ichneumon bellator* Gravenhorst, 1807; *I. tricolorius* Thunberg, 1822; *Lissonota irrigua* Thomson, 1888; *L. meridionalis* Seyrig, 1928). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C), **FE** (SA, KA). – Europe (WE, NE, SE, EE), Caucasus, Kazakhstan, Mongolia, Korean Peninsula, Japan, N America.
- Lissonota (Lissonota) culiciformis** Gravenhorst, 1829 (*Lissonota lateralis* Gravenhorst, 1829; *L. cruenta* Vollenhoven, 1858; *L. assimilis* Brischke, 1880; *L. sziladyi* Kiss, 1926). Parasitoid of various Lepidoptera. Russia: **EP** (C, E), **ES** (KR). – Europe (WE, NE, SE, EE), Caucasus, Turkey.
- Lissonota (Lissonota) curtiventris** Horstmann et Yu, 1999 (*Meniscus breviventris* Hellén, 1915, nom. praeocc., nec Walsh, 1873). Russia: **EP** (N). – Europe (NE, EE).
- Lissonota (Lissonota) dubia** Holmgren, 1856 (*Mesoleius jugorum* Strobl, 1903; *Lissonota vitosaensis* Gregor, 1933; *Gibbonota duplanae* Heinrich, 1937). Parasitoid of various Tortricidae and other lepidopteran families. Russia: **EP** (N, NW, C, S). – Europe (WE, NE, EE), Caucasus.
- Lissonota (Lissonota) erythrina** Holmgren, 1860 (*Lissonota pusilla* Habermehl, 1918). Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- Lissonota (Lissonota) fletcheri** Bridgman, 1882. Parasitoid of *Mirificarma lentiginosella* Zeller (Gelechiidae). Russia: **EP** (N). – Europe (WE, NE, EE).
- Lissonota (Lissonota) folii** Thomson, 1877 (*Lissonota transversa* Bridgman, 1889; *Clistopyga areolata* Kiss, 1924). Parasitoid of lepidopteran families Gelechiidae, Sesiidae, Tortricidae, etc. Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, N America.
- Lissonota (Lissonota) freyi** (Hellén, 1915) [Meniscus]. Parasitoid of *Sesia* sp. and *Synanthedon* spp. (Sesiidae). Russia: **EP** (N). – Europe (WE, NE, SE, EE), N America.
- Lissonota (Lissonota) fundator** (Thunberg, 1822) [Ichneumon] (*Lissonota sulphurifera* Gravenhorst, 1829; *L. rimator* Thomson, 1877; *Meniscus affinis* Szépligeti, 1899; *M. caudatus* Szépligeti, 1899; *Lissonota ruficoxis* Schmiedeknecht, 1900; *L. nigricoxis* Pfankuch, 1920). Parasitoid of lepidopteran families Geometridae, Noctuidae, Sesiidae, etc. Russia: **EP** (N, NW, C, S, NC), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, China (NC), Korean Peninsula, N America.
- Lissonota (Lissonota) impressor** Gravenhorst, 1829 (*Lissonota basalis* Brischke, 1865; *Meniscus signatus* Szépligeti, 1899; *Lissonota nigricoxis* Ulbricht, 1913; *L. humerella* Habermehl, 1918). Parasitoid of lepidopteran families Lasiocampidae, Noctuidae, Sesiidae, Tortricidae, etc. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Lissonota (Lissonota) kolae** (Morley, 1933) [Asphragis]. Russia: **EP** (N).
- Lissonota (Lissonota) kurilensis** Uchida, 1928. Russia: **FE** (KU).
- Lissonota (Lissonota) lineolaris** (Gmelin, 1790) [Ichneumon] (*Ichneumon catenator* Panzer, 1804; *I. mammillator* Thunberg, 1822; *I. signator* Thunberg, 1822; *Tryphon excavator* Zetterstedt, 1838; *Ephialtes facialis* Desvignes, 1862; *Stenolabis sachalinensis* Matsumura, 1911). Parasitoid of *Apamea crenata* Hufn. (Noctuidae) and *Thaumetopoea processionea* L. (Thaumetopoeidae). Russia: **EP** (N, NW, C, S), **UR**, **WS/ES** (without regions: Kasparyan et al., 1981), **FE** (SA, KU). – Europe (WE, NE, SE, EE), Caucasus, China (NE, NC), Korean Peninsula.

- Lissonota (Lissonota) lissonotator** Aubert, 1977. Russia: **EP** (NW). – Europe (EE).
- Lissonota (Lissonota) maculata** Brischke, 1865 (*Lissonota affinis* Brischke, 1865). Russia: **EP** (NW, C, E, S). – Europe (WE, NE, SE, EE).
- Lissonota (Lissonota) nigridens** Thomson, 1889. Parasitoid of *Masonia crassiorella* Bruand and *Psyche casta* Pallas (Psychidae). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).
- Lissonota (Lissonota) nitida** (Gravenhorst, 1829) [Tryphon] (*Lissonota agnata* Gravenhorst, 1829; *Meniscus lissonotoides* Habermehl, 1917). Parasitoid of several species of Noctuidae and *Synanthedon* spp. (Sesiidae). Russia: **EP** (N, NW, C), **WS/ES** (without regions: Kasparyan et al., 1981). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan.
- Lissonota (Lissonota) oculatoria** (Fabricius, 1798) [Ichneumon] (*Lissonota elector* Gravenhorst, 1829; *Odinophora hungarica* Kiss, 1924; *Meniscus decorata* Seyrig, 1927). Parasitoid of various Lepidoptera; records of this species as parasitoid of spider hosts in Taxapad (Yu et al., 2016) actually belong to the pimpline species *Tromatobia lineatoria* (Villers). Russia: **EP** (C, E, S). – Europe (WE, NE, SE, EE), Canary Is, Caucasus, Turkey, Iran, Kazakhstan.
- Lissonota (Lissonota) picticoxis** Schmiedeknecht, 1900. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Lissonota (Lissonota) pimplator** (Zetterstedt, 1838) [Tryphon] (*Lissonota flavipes* Lucas, 1849). Parasitoid of various Sesiidae. Russia: **EP** (N; widespread: Kasparyan et al., 1981). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey.
- Lissonota (Lissonota) pleuralis** Brischke, 1880 (*Lissonota strigifrons* Schmiedeknecht, 1900). Recorded as parasitoid in galls of *Cynips quercusfolii* L. (Cynipidae). Russia: **EP** (widespread: Kasparyan et al., 1981), **ES** (ZB). – Europe (WE, NE, EE), Turkey, Iran, China (NE, NC, NW), Korean Peninsula.
- Lissonota (Lissonota) proxima** Fonscolombe, 1854 (*Lissonota commixta* Holmgren, 1860; *L. lapponica* Holmgren, 1860; *L. opacula* Szépligeti, 1899). Parasitoid of *Whittleia retiella* Newman (Psychidae). Russia: **EP** (N, NW, C, E, NC), **FE** (KA). – Europe (WE, NE, SE, EE).
- Lissonota (Lissonota) punctiventrat** Aubert, 1977. Parasitoid of *Triaxomera parasitella* Hbn. (Tineidae). Russia: **FE** (KA). – Europe (WE, NE, EE), N America.
- Lissonota (Lissonota) punctiventris** Thomson, 1877 (*Lissonota errabunda* Holmgren, 1860). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW), **FE** (KA). – Europe (WE, NE, SE, EE), Mongolia.
- Lissonota (Lissonota) sahlbergi** Hellén, 1915. Russia: **EP** (N). – Europe (NE).
- Lissonota (Lissonota) saturator** (Thunberg, 1822) [Ichneumon] (*Bassus pubescens* Zetterstedt, 1838; *Lissonota vicina* Holmgren, 1860; *L. basalis* Thomson, 1889; *L. mutanda* Schmiedeknecht, 1900). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Turkey, Japan.
- Lissonota (Lissonota) setosa** (Geoffroy, 1785) [Ichneumon] (*Ichneumon immaculatus* Gmelin, 1790; *I. enervator* Fabricius, 1793; *I. cryptator* Thunberg, 1822; *I. renovator* Thunberg, 1822; *Odinophora nigra* Szépligeti, 1914). Parasitoid of several species from the lepidopteran families Cossidae and Sesiidae. Russia: **EP** (N, S, NC). – Europe (WE, NE, SE, EE), China (NE, NC), Korean Peninsula.
- Lissonota (Lissonota) subaciculata** Bridgman, 1886 (*Lissonota nitida* Bridgman, 1886). Parasitoid of *Mecyna asinalis* Hbn. (Crambidae) and *Thaumetopoea processionea* L. (Thaumetopoeidae). Russia: **EP** (C, S). – Europe (WE, NE, EE), Turkey, Mongolia.
- Lissonota (Loxonota) confusa** Rey del Castillo, 1992. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Lissonota (Loxonota) cruentator** (Panzer, 1809) [Alomya] (*Lissonota insignita* Gravenhorst, 1829; *L. verberans* Gravenhorst, 1829; *L. rufifemur* Kiss, 1926; *L. szepligeti* Kiss, 1926). Parasitoid of *Synaphe punctalis* F. (Pyralidae). Russia: **EP** (NW, C, E, S, NC), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey.
- Lissonota (Loxonota) flavovariegata** (Lucas, 1849) [Meso-leptus] (*Lissonota lineolator* Aubert, 1972). Russia: **EP** (NC, CR). – Europe (WE, SE, EE), N Africa, Caucasus, Turkey, Iran.
- Remarks.** Rey del Castillo (1992: 143) provided a distribution map for this species, but without explanations for localities in the former USSR. According to this map, *Lissonota flavovariegata* occurs in Crimea and Krasnodar Territory of Russia.
- Lissonota (Loxonota) histrio** (Fabricius, 1798) [Banchus] (*Bassus marginator* Fabricius, 1804; *Lissonota parallela* Gravenhorst, 1829; *Syzeuctus dioszeghyi* Kiss, 1924). Parasitoid of lepidopteran families Gelechiidae, Crambidae, Noctuidae, Tortricidae, etc. Russia: **EP** (NW, C, E, S), **ES** (ZB). – Europe (WE, NE, SE, EE), Caucasus, Turkey, China (NC, NW), N America.
- Lissonota (Loxonota) lineata** Gravenhorst, 1829 (*Lissonota nigricoxis* Strobl, 1902; *L. cingulatoria* Horstmann, 1997). Parasitoid of *Calophasia lunula* Hufn. (Noctuidae), *Pediasia contaminella* Hbn. (Crambidae) and *Psyche casta* Pallas (Psychidae). Russia: **EP** (without regions: Rey del Castillo, 1992: 150). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia.
- Lissonota (Loxonota) mediterranea** Seyrig, 1927. Russia: **EP** (NC, CR). – Europe (WE, SE, EE), Turkey, Iran.
- Remarks.** Rey del Castillo (1992: 142, 151) provided a distribution map for this species, but without explanations for localities in the former USSR. According to this map, *Lissonota mediterranea* occurs in Crimea and Dagestan of Russia.

SYZEUCTUS Foerster, 1869 (*Diceratops* Foerster, 1869; *Syzeucta* Thomson, 1889; *Meyva* Cameron, 1899; *Paratanera* Rao, 1953). Type species: *Ichneumon maculatorius* Fabricius, 1787 (= *Syzeuctus bicolor* Szépligeti, 1899). Worldwide genus. Number of species: World – 123, Palaearctic – 36, Russia – 10.

Syzeuctus bicolor Szépligeti, 1899 (*Ichneumon maculatorius* Fabricius, 1787, nom. praeocc., nec Ström, 1768). Parasitoid of *Pempelia genistella* Dup. and *Epischnia asteris* Stgr. (Pyralidae). Russia: **EP** (S, NC). – Europe (WE, NE, SE, EE), N Africa, Iran, Central Asia.

Syzeuctus bicornis (Gravenhorst, 1829) [Lissonota]. Russia: **EP** (C). – Europe (WE, NE, SE, EE).

Syzeuctus decoratus (Costa, 1890) [Lissonota] (*Lissonota formosa* Tosquinet, 1900; *L. hortobagyensis* Kiss, 1926). Russia: **EP** (S). – Europe (WE, EE), N Africa, Caucasus, Central Asia.

Syzeuctus hyalinipennis Szépligeti, 1901. Russia: **WS/ES** ("Siberia": Mocsáry, Szépligeti, 1901).

Syzeuctus inaequalis (Fonscolombe, 1854) [Lissonota] (*Lissonota steckii* Brauns, 1888). Russia: **ES** (YA). – Europe (WE, SE, EE).

Syzeuctus irrisorius (Rossi, 1794) [Ichneumon]. Parasitoid of *Eublemma* spp. (Erebidae), *Sesia apiformis* Clerck and *Synanthedon vespiformis* L. (Sesiidae). Russia: **EP** (widespread: Kasparyan et al., 1981). – Europe (WE, NE, SE, EE), Turkey.

Syzeuctus longivalvator Aubert, 1977. Russia: **EP** (CR). – Europe (EE), Kazakhstan.

Syzeuctus maculipennis (Costa, 1883) [Lissonota] (*Lissonota lunigera* Brauns, 1888; *L. ducalis* Costa, 1890; *L. multipicta* Kriechbaumer, 1895; *Syzeuctus braunsii* Szépligeti, 1899). Russia: **EP** (NC). – Europe (WE, SE, EE), Caucasus.

Syzeuctus petiolaris petiolaris (Gravenhorst, 1829) [Lissonota] (*Lissonota apicalis* Gravenhorst, 1829). Russia: **EP** (N, E, S). – Europe (WE, NE, SE, EE), Central Asia, Mongolia.

Syzeuctus petiolaris wolguensis Meyer, 1922. Russia: **EP** (S).

Syzeuctus vigil (Tosquinet, 1900) [Lissonota]. Russia: **EP** (S). – Central Asia.

Tribe BANCHINI

BANCHUS Fabricius, 1798 (*Corynephanus* Wesmael, 1849; *Cidaphurus* Foerster, 1869; *Nawaia* Ashmead, 1906). Predominantly Holarctic genus. Type species: *Banchus pictus* Fabricius, 1798. Number of species: World – 50, Palaearctic – 19, Russia – 10.

Banchus altaiensis Meyer, 1927. Russia: **WS** (AL). – Mongolia.

Banchus dilatatorius (Thunberg, 1822) [Ichneumon] (*Ichneumon acuminator* Fabricius, 1787, nom. praeocc., nec Müller, 1776; *I. compressus* Fabricius, 1787, nom. praeocc., nec Sulzer, 1776; *Banchus sibiricus* Meyer, 1927).

Parasitoid of lepidopteran families Erebidae and Noctuidae. Russia: **EP** (N, E, S, NC), **ES** (IR), **FE** (PR, SA, KA, MG). – Europe (WE, NE, SE, EE), Caucasus, Iran, Central Asia, Kazakhstan, China (NE, NC).

Banchus falcatorius (Fabricius, 1775) [Ichneumon] (*Ichneumon variegator* Fabricius, 1775; *I. intersectus* Geoffroy, 1785; *I. histrio* Schrank, 1802; *Banchus falcator* Fabricius, 1804; *Corynephanus sachalinensis* Matsumura, 1911; *Banchus nobilitator* Morley, 1915; *B. sanguinator* Meyer, 1922; *B. lavrovi* Meyer, 1927; *B. propitius* Kuslitzky, 1979). Parasitoid of various families of Lepidoptera. Russia: **EP** (N, NW, C, E, S), **UR**, **WS** (OM), **FE** (AM, PR, SA, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Israel, Kazakhstan, Mongolia, China (NE, NC, NW).

Banchus hastator (Fabricius, 1793) [Ichneumon] (*Banchus femoralis* Thomson, 1897; *B. kolosovi* Meyer, 1925). Parasitoid of *Lymantria dispar* L. (Erebidae) and several species from the families Noctuidae and Sphingidae. Russia: **EP** (C, S), **UR**, **WS** (AL). – Europe (WE, NE, EE), Japan (Hon), N America.

Banchus japonicus (Ashmead, 1906) [Nawaia]. Russia: **FE** (SA, KU). – China (NE), Korean Peninsula, Japan.

Banchus palpalis Ruthe, 1859. Parasitoid of *Anarta myrtilli* L., *Mniotype adusta* Esper, *Panolis flammea* Den. et Schiff. (Noctuidae) and *Deilephila porcellus* L. (Sphingidae). Russia: **EP** (without regions: Kuslitzky, 2007), **ES** (IR, YA), **FE** (KU, KA, MG). – Europe (WE, SE), Turkey, Mongolia, China (NE), Korean Peninsula, Japan, N America.

Banchus pictus Fabricius, 1798 (*Banchus bipunctatus* Hensch, 1928; *B. zagoriensis* Hensch, 1928). Parasitoid of various lepidopteran families. Russia: **EP** (E, S, NC, CR), **FE** (KH). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Central Asia, Kazakhstan, China (NE, NC).

Banchus sanjozanus Uchida, 1929. Russia: **FE** (KU). – China (NE), Japan.

Banchus volutatorius (Linnaeus, 1758) [Ichneumon] (*Ichneumon venator* Linnaeus, 1758; *I. umbellatarum* Schrank, 1786; *I. certator* Thunberg, 1822; *Banchus monileatus* Gravenhorst, 1829; *B. farrani* Curtis, 1836; *B. moniliatus* Marshall, 1872; *B. alticola* Schmiedeknecht, 1910; *B. calcaratus* Szépligeti, 1910; *B. obscurus* Meyer, 1926). Parasitoid of various Noctuidae, also recorded from other lepidopteran families. Russia: **EP** (N, NW, C, S, NC), **ES** (IR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kyrgyzstan, Kazakhstan, Mongolia, China (NW, CC), Korean Peninsula, Japan, N America.

Banchus zonatus Rudow, 1883 (*Banchus algericus* Schmiedeknecht, 1910). Russia: **EP** (NC). – Europe (WE, SE, EE), N Africa, Israel.

EXETASTES Gravenhorst, 1829 (*Leptobatus* Gravenhorst, 1829; *Semnophrys* Foerster, 1869; *Allexetastes* Kokujev, 1904; *Tegona* Morley, 1913; *Pseudexetastes* Meyer, 1927). Type species: *Ichneumon fornicator* Fabricius, 1781.

Predominantly Holarctic genus; also occurs in the Oriental, Afrotropical and Neotropical regions. Number of species: World – 164, Palaearctic – 76, Russia – 31.

Exetastes adpressorius (Thunberg, 1822) [Ichneumon] (*Exetastes guttatorius* Gravenhorst, 1829; *E. tristis* Gravenhorst, 1829; *E. guttifer* Thomson, 1897; *E. medianus* Szépligeti, 1898; *E. albopictus* Aubert, 1959; *E. albopictor* Aubert, 1972). Parasitoid of lepidopteran families Geometridae and Noctuidae. Russia: **EP** (N, NW, C), **ES** (KR), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), N Africa, Egypt, Caucasus, Turkey, Syria, Jordan, Israel, Iran, Afghanistan, Central Asia, Kazakhstan, Mongolia, China (NC, NW), N America.

Remarks. The species comprises five subspecies occurring in the Palaearctic region, of them three are known from Russia: *Exetastes adpressorius adpressorius* s. str.; *E. adpressorius ussuriensis* Meyer, 1927 and *E. adpressorius karafutonis* Uchida, 1928.

Exetastes albiger Kriechbaumer, 1886 (*Exetastes scutellaris* Brauns, 1888; *E. braunsii* Dalla Torre, 1901; *E. csikii* Szépligeti, 1901; *E. signata* Kokujev, 1904; *E. lugens* Seyrig, 1928). Parasitoid of *Cucullia* spp. and *Lacanobia oleacea* L. (Noctuidae). Russia: **WS** (OM), **ES** (KR, IR), **FE** (AM, PR). – Europe (WE, SE, EE), Central Asia, Kazakhstan, Mongolia, Korean Peninsula.

Exetastes albomaculatus Meyer, 1921. Russia: **EP** (C), ? **UR**. – ? Europe (EE), Central Asia, Kazakhstan.

Exetastes allopis Meyer, 1927. Russia: **FE** (? AM, KH, PR).

Exetastes atrator (Forster, 1771) [Ichneumon] (*Ichneumon cinctipes* Retzius, 1783; *I. junci* Geoffroy, 1785; *I. osculatorius* Fabricius, 1787; *I. obscurator* Gmelin, 1790; *I. clavator* Fabricius, 1793; *Ophion tarsator* Fabricius, 1804; *Ichneumon sinuatorius* Thunberg, 1822). Parasitoid of lepidopteran families Noctuidae, Tortricidae, etc. Russia: **EP** (NW, C, E, S), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Afghanistan, Central Asia, Kazakhstan, China (NW), Japan, India.

Exetastes calobatus Gravenhorst, 1829. Russia: **EP** (C). – Europe (WE, SE, EE), N Africa, Turkey.

Exetastes crassus Gravenhorst, 1829 (*Exetastes bicoloratus* Gravenhorst, 1829). Parasitoid of *Eligmodonta ziczac* L. (Notodontidae) and several species of Noctuidae. Russia: **EP** (C, E, NC). – Europe (WE, NE, SE, EE), Canary Is, Egypt, Turkey, Iran, Afghanistan, Central Asia, Mongolia.

Exetastes degener (Gravenhorst, 1829) [Leptobatus]. Parasitoid of *Hadena* spp. (Noctuidae) and *Zygaena loti* Den. et Schiff. (Zygaenidae). Russia: **ES** (ZB). – Europe (WE, NE, SE, EE), Central Asia.

Exetastes diakonovi (Meyer, 1927) [Pseudexetastes]. Russia: **FE** (? AM, PR). – China (NE).

Exetastes femorator Desvignes, 1856. Russia: **EP** (C, E, S), **WS** (OM), **FE** (PR). – Europe (WE, NE, EE), Turkey, Central Asia, Kazakhstan, Mongolia, China (NC/NW).

Exetastes fornicator (Fabricius, 1781) [Ichneumon] (*Ichneumon expansor* Thunberg, 1822; *Exetastes punctulatus* Kokujev, 1905). Parasitoid of Noctuidae and other lepidopteran families. Russia: **EP** (NW, C, E, S), **UR**, **WS** (TM), **ES** (KR, IR, BR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, N America, India.

Remarks. The species comprises several Nearctic subspecies and the Eastern Palaearctic *Exetastes fornicator miniatus* Uchida, 1928 (= *E. longigena* Uchida, 1928; *E. rebunensis* Uchida, 1931; *E. chosensis* Uchida, 1955).

Exetastes fukuchiyamanus Uchida, 1928. Russia: **WS/ES** (without regions: Kuslitzky, 2007), **FE** (PR). – China (NE, CC), Japan (Hon, Shi, Kyu).

Exetastes geniculosus Holmgren, 1860. Russia: **EP** (C), **UR**, **ES** (YA, ZB), **FE** (MG). – Europe (WE, NE, SE, EE), Mongolia.

Exetastes gracilicornis Gravenhorst, 1829 (*Exetastes variegatus* Szépligeti, 1898; *E. biguttatus* Meyer, 1927). Parasitoid of several Noctuidae species. Russia: **EP** (C, E, S, NC, CR), **WS** (AL), **ES** (IR, YA). – Europe (WE, NE, SE, EE), N Africa, Turkey, Central Asia, Kazakhstan, Mongolia, China (NE).

Exetastes hungaricus (Bajari, 1959) [Leptobatus]. Russia: **EP** (NC). – Europe (EE).

Exetastes illusor Gravenhorst, 1829 (*Exetastes minor* Szépligeti, 1901; *E. annulatus* Habermehl, 1927). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, E, S, NC), **UR**, **WS** (OM), **ES** (IR, YA, ZB), **FE** (AM, KH, PR, MG). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, Mongolia, N America, India.

Exetastes illyricus Strobl, 1904. Russia: **EP** (without regions: Kuslitzky, 2007), **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE).

Exetastes inquisitor Gravenhorst, 1829 (*Exetastes flavitarus* Gravenhorst, 1829; *E. agrotidis* Kokujev, 1913; *E. falcifer* Roman, 1936). Parasitoid of *Agrotis* spp. (Noctuidae). Russia: **EP** (C, E, S, NC), **ES** (IR, BR, YA). – Europe (WE, NE, SE, EE), Turkey, Kyrgyzstan, Mongolia, China (NW), ? India.

Exetastes komarovi Kokujev, 1904 (*Exetastes coreanus* Kokujev, 1904). Russia: **FE** (SA). – Mongolia, China (NC/NW), Korean Peninsula.

Exetastes laevigator (Villers, 1789) [Ichneumon] (*Ichneumon compensator* Fabricius, 1793; *I. incurvator* Thunberg, 1822; *Exetastes alpinus* Kriechbaumer, 1888; *E. puberulus* Szépligeti, 1898; *E. similis* Kokujev, 1905; *E. nigriventris* Meyer, 1927). Parasitoid of lepidopteran families Geometridae and Noctuidae. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (AL), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Afghanistan, Central Asia, Kazakhstan, Mongolia, China (NE, NW).

Exetastes maurus Desvignes, 1856 (*Exetastes facialis* Desvignes, 1856; *E. benoisti* Seyrig, 1926; *E. melanopus* Meyer,

- 1927; *E. croaticus* Hensch, 1928; *E. albicoxis* Bajári, 1958). Parasitoid of *Xestia xanthographa* Den. et Schiff. (Noctuidae). Russia: **EP** (NC). – Europe (WE, SE, EE).
- Exetastes metallicus** Riedel, 2015. Russia: **ES** (TU). – Mongolia.
- Exetastes nigripes** Gravenhorst, 1829. Parasitoid of various Noctuidae, also recorded from other lepidopteran families. Russia: **EP** (N, NW, C, E, S, NC), **WS** (OM), **ES** (IR, YA). – Europe (WE, NE, SE, EE), Turkey, Kyrgyzstan, Kazakhstan, Mongolia, China (NE, NC), India.
- Exetastes notatus** Holmgren, 1860. Parasitoid of *Agrotis vestigialis* Hufn. and *Cucullia* spp. (Noctuidae). Russia: **EP** (C, E), **ES** (KR, IR, BR, YA, ZB), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), Kyrgyzstan, Kazakhstan, Mongolia, China (NC).
- Exetastes ocellaris** Kuslitzky, 2007. Russia: **EP** (NC). – Kazakhstan.
- Exetastes robustus** Gravenhorst, 1829 (*Exetastes jozanneanus* Uchida, 1929; *Procinetus muelleri* Kiss, 1930). Parasitoid of various Noctuidae. Russia: **EP** (NW, C, S), **ES** (YA), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Kyrgyzstan, Kazakhstan, Mongolia, China (NE, NC), Japan.
- Exetastes rufifemur** Horstmann et Yu, 1999 (*Ichneumon rufipes* Gmelin, 1790, nom. praeocc., nec Miller, 1759; *Coleocentrus scutellaris* Rudow, 1881). Parasitoid of *Hadena compta* Den. et Schiff. (Noctuidae). Russia: **UR**, **WS/ES** (without regions: Kuslitzky, 2007). – Europe (WE, NE, SE, EE), Turkey, Mongolia.
- Exetastes sapporensis** Uchida, 1931. Russia: **FE** (PR). – Japan (Hok).
- Exetastes telengai** Townes, Momoi et Townes, 1965 (*Pseudexetastes similis* Telenga, 1930, nom. praeocc., nec Kokujev, 1905). Russia: **FE** (AM, PR).
- Exetastes tomentosus** (Gravenhorst, 1829) [Banchus]. Russia: **EP** (C, E), **WS/ES** (without regions: Kuslitzky, 2007). – Europe (WE, NE, SE, EE), Kazakhstan.
- Exetastes zieglerei** (Gravenhorst, 1829) [Leptobatus] (*Leptobatus gracilis* Brauns, 1896). Russia: **EP** (C). – Europe (WE, SE, EE).
- RYNCHOBANCHUS** Kriechbaumer, 1894 (*Acrogonia* Kriechbaumer, 1896; *Acrogoniella* Schulz, 1911). Type species: *Rynchobanchus bicolor* Kriechbaumer, 1894. Palaearctic genus. Hosts unknown. Number of species: World and Palaearctic – 9, Russia – 5.
- Rynchobanchus flavopictus orientalis** Kuslitzky, 2007. Russia: **FE** (SA, KU). – China (NE), Japan (Hok, Hon).
- Rynchobanchus minomensis** (Uchida, 1933) [Exetastes]. Russia: **FE** (KH, PR). – China (NE), Korean Peninsula, Japan.
- Rynchobanchus niger** Sheng, Li et Pang, 1997. Russia: **FE** (KH). – China (NE).
- Rynchobanchus nigriventris** Meyer, 1927. Russia: **FE** (PR). – Azerbaijan.
- Rynchobanchus trjapitzini** Kasparyan et Kuslitzky, 2018. Russia: **FE** (PR).
- Tribe GLYPTINI
- APOPHUA** Morley, 1913. Type species: *Apophua carinata* Morley, 1913. Almost worldwide genus (unknown only from the Neotropical region). Number of species: World – 38, Palaearctic – 14, Russia – 7.
- Apophua bipunctoria** (Thunberg, 1822) [Ichneumon] (*Ichneumon cubitorius* Thunberg, 1822; *Glypta flavolineata* Gravenhorst, 1829; *G. baltica* Habermehl, 1926). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Mongolia, China (NE, NW), Korean Peninsula, Japan, N America.
- Apophua cicatricosa** (Ratzeburg, 1848) [Glypta] (*Glypta crenulata* Thomson, 1889). Parasitoid of lepidopteran families Psychidae and Tortricidae. Russia: **EP** (C, S, NC), **ES** (BR), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Kazakhstan, Korean Peninsula.
- Apophua evanescens** (Ratzeburg, 1848) [Glypta] (*Glypta albifrons* Holmgren, 1856; *G. sapporensis* Uchida, 1928). Parasitoid of lepidopteran families Nolidae and Tortricidae. Russia: **EP** (N, NW, C), **ES** (BR, ZB), **FE** (AM, KH, PR, KU). – Europe (WE, NE, SE, EE), Pakistan, China (NC), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu), India.
- Apophua genalis** (Möller, 1883) [Glypta] (*Glypta superba* Hellén, 1915). Parasitoid of *Orthosia miniosa* Den. et Schiff. (Noctuidae) and various Tortricidae. Russia: **EP** (C). – Europe (WE, NE, SE, EE).
- Apophua maetai** Momoi, 1978 (*Apophua kasparyani* Kuslitzky, 2007). Russia: **FE** (AM, KH, PR). – Mongolia, Korean Peninsula, Japan (Hok, Hon).
- Apophua stena** (Momoi, 1963) [Glypta]. Parasitoid of *Archips decretanus* Tr. and *Rhopobota naevana* Hbn. (Tortricidae). Russia: **FE** (KH, PR, SA, KU). – China (NE, NW), Japan (Hok, Hon, Kyu).
- Apophua tobensis** (Uchida, 1928) [Glypta]. Parasitoid of *Archips oporatus* L., *A. pulcher* Butler, *Homona issikii* Yasuda and *Choristoneura diversana* Hbn. (Tortricidae). Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Shi).
- CEPHALOGLYPTA** Obertel, 1956. Type species: *Cephaloglypta excavata* Obertel, 1956 (= *Glypta murinanae* Bauer, 1941). Monotypic Palaearctic genus.
- Cephaloglypta murinanae** (Bauer, 1941) [Glypta] (*Glypta murinanae* Bauer, 1942; *Cephaloglypta excavata* Obertel, 1956; *C. laricis* Momoi, 1963). Parasitoid of various Tortricidae. Russia: **FE** (KH, PR). – Europe (WE, EE), China (NE), Japan, N America (introduced).

- DIBLASTOMORPHA** Foerster, 1869. Type species: *Glypta bicornis* Boie, 1850 (= *Ichneumon cylindrator* Fabricius, 1787). Monotypic Palaearctic genus.
- Diblastomorpha cylindrator cylindrator** (Fabricius, 1787) [Ichneumon] (*Glypta erythrogaster* Lucas, 1849; *G. bicornis* Boie, 1850; *G. bicornis* Desvignes, 1856; *G. rostrata* Holmgren, 1860; *G. corniculata* Brischke, 1865; *G. elegans* Vollenhoven, 1873; *G. ephippigera* Kriechbaumer, 1895; *G. ruficornis* Szépligeti, 1898; *G. paleanae* Kriechbaumer, 1900; *G. szepligetii* Dalla Torre, 1901; *G. capra* Kuslitzky, 1974). Parasitoid of lepidopteran families Gelechiidae, Pyralidae, Tortricidae, etc. Russia: **EP** (N, C, E, S, NC, CR), **WS** (TK), **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Japan (Hok, Shi). **Remarks.** The record of *Glypta capra* from Krasnoyarsk Territory (Kuslitzky, 1974: 1264 “100 km S of Gelandzhik, Krasnoyarsk Terr.”) is incorrect, and the actual locality is unknown.
- Diblastomorpha cylindrator sachalinensis** (Townes, Momoi et Townes, 1965) [Glypta]. Russia: **FE** (SA).
- GLYPTA** Gravenhorst, 1829 (*Hemiepialtes* Ashmead, 1906; *Foveoglypta* Hellén, 1915). Type species: *Glypta sculpturata* Gravenhorst, 1829. Predominantly Holarctic genus with most species in the Nearctic region. Number of species: World – 464, Palaearctic – about 115, Russia – 71.
- Glypta (Conoblasta) biauriculata** Strobl, 1901 (*Glypta laminata* Kuslitzky, 1973). Parasitoid of *Olethreutes sideranus* Tr. (Tortricidae). Russia: **ES** (BR, ZB), **FE** (PR, SA, KU). – Europe (WE, EE), Japan (Hok, Hon).
- Glypta (Conoblasta) ceratites** Gravenhorst, 1829. Parasitoid of various Tortricidae; also recorded from *Diurnea fagella* Den. et Schiff. (Lypusidae) and *Earias clorana* L. (Noctuidae). Russia: **EP** (N, NW, C, S), **UR**. – Europe (WE, NE, SE, EE), Mongolia.
- Glypta (Conoblasta) delicatula** Kuslitzky, 2007. Russia: **FE** (SA, KU).
- Glypta (Conoblasta) extincta** Ratzeburg, 1852 (*Glypta nigri-ventris* Thomson, 1889). Parasitoid of *Archips rosana* L., *Cymolomia hartigiana* Saxesen (Tortricidae) and *Choreutis pariana* Clerck (Choreutidae). Russia: **EP** (N, NW, C, NC), **UR**, **ES** (IR). – Europe (WE, NE, SE, EE), Turkey, Mongolia, Japan (Hon).
- Glypta (Glypta) adachii** Uchida, 1928. Russia: **FE** (SA, KU).
- Glypta (Glypta) animalcula** Shestakov, 1927. Russia: **EP** (C).
- Glypta (Glypta) bifoveolata bifoveolata** Gravenhorst, 1829 (*Glypta setosa* Roman, 1909). Parasitoid of various Tortricidae; also recorded from other lepidopteran families. Russia: **EP** (N, NW, C), **WS** (AL), **ES** (KR, IR, YA), **FE** (without regions: Kuslitzky, 2007). – Europe (WE, NE, SE, EE), Turkey, Israel, Mongolia.
- Glypta (Glypta) bifoveolata ponojensis** Hellén, 1915. Russia: **EP** (N).
- Glypta (Glypta) brevipedolata** Thomson, 1889. Russia: **EP** (NW). – Europe (WE, NE, EE), Mongolia.
- Glypta (Glypta) breviterebra** Momoi, 1963. Russia: **FE** (PR). – China (NC), Japan.
- Glypta (Glypta) breviungulata** Kuslitzky, 1976. Russia: **EP** (N, NW), **ES** (IR), **FE** (MG). – Kazakhstan.
- Glypta (Glypta) caucasica** Telenga, 1929. Russia: **EP** (NC).
- Glypta (Glypta) caudata** Thomson, 1889. Parasitoid of *Ancyliis selenana* Guenée (Tortricidae). Russia (N; wide-spread: Kuslitzky, 2007): **UR**. – Europe (WE, NE, SE, EE), Mongolia.
- Glypta (Glypta) clypeata** Kuslitzky, 2007. Russia: **ES** (ZB), **FE** (KH, PR, SA, KU).
- Glypta (Glypta) consimilis** Holmgren, 1860 (*Glypta brevicornis* Rudow, 1883; *G. parvicornuta* Bridgman, 1886; *G. xanthognatha* Thomson, 1889; *Conoblasta beroliniae* Strand, 1918). Parasitoid of *Acrobasis consociella* Hbn. (Pyralidae), *Biston betularia* L. (Geometridae), *Epiblema scutulana* Den. et Schiff., *Operophtera brumata* L. and *Stictea mygindiana* Den. et Schiff. (Tortricidae). Russia (widespread except Caucasus: Kuslitzky, 2007): **EP** (N, NW), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia, N America.
- Glypta (Glypta) costulata** Kuslitzky, 2007. Russia: **FE** (PR).
- Glypta (Glypta) dentata** Golovisnin, 1928. Russia: **FE** (PR).
- Glypta (Glypta) dentifera** Thomson, 1889. Parasitoid of *Acleris ferrugana* Den. et Schiff. (Tortricidae). Russia: **EP** (N; west of Baikal Lake: Kuslitzky, 2007). – Europe (WE, NE, EE), Mongolia.
- Glypta (Glypta) deserta** Kuslitzky, 1976. Russia: **ES** (ZB). – Mongolia.
- Glypta (Glypta) elongata asiatica** Kuslitzky, 2007. Russia: **WS** (AL), **ES** (IR), **FE** (KH, PR). – Kazakhstan, China (NE).
- Glypta (Glypta) elongata elongata** Holmgren, 1860. Parasitoid of *Aphelia viburnana* Den. et Schiff. and *Bactra lancealana* Hbn. (Tortricidae). Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE).
- Glypta (Glypta) elongata montana** Kuslitzky, 1977. Russia: **EP** (NC). – Caucasus.
- Glypta (Glypta) exophthalmus** Kriechbaumer, 1887 (*Glypta kawalli* Ozols, 1927). Parasitoid of *Apoplania penai* Davis et Nielsen (Neopseustidae) and *Epiblema grandaevana* Lienig et Z. (Tortricidae). Russia: **EP** (E). – Europe (WE, NE, EE).
- Glypta (Glypta) femorator** Desvignes, 1856 (*Glypta filicornis* Thomson, 1889; *G. elegantula* Hellén, 1915; *G. curvicoxa* Kuslitzky, 1977). Parasitoid of various Tortricidae. Russia: **EP** (N, NW, C), **ES** (KR, IR). – Europe (WE, NE, SE, EE).
- Glypta (Glypta) flagellaris** Kuslitzky, 1973. Russia: **WS** (AL), **ES** (BR).
- Glypta (Glypta) fronticornis** Gravenhorst, 1829 (*Glypta dispar* Schiødte, 1839). Parasitoid of *Clepsis* spp. and *Sparganothis pilleriana* Den. et Schiff. (Tortricidae).

- Russia: **EP** (NW, C, E), **FE** (SA). – Europe (WE, NE, SE, EE), Mongolia, Japan.
- Glypta (Glypta) glypta** (Ashmead, 1906) [Hemipialtes]. Russia: **FE** (KU). – Japan.
- Glypta (Glypta) haesitator** Gravenhorst, 1829 (*Lycorina australis* Hedwig, 1959). Parasitoid of various Tortricidae. Russia (widespread: Kuslitzky, 2007): **EP** (N, C), **FE** (KA). – Europe (WE, NE, SE, EE), Turkey, Mongolia, N America.
- Glypta (Glypta) heterocera** Thomson, 1889. Parasitoid of *Commophila aeneana* Hbn. (Tortricidae). Russia: **EP** (N). – Europe (WE, NE, SE, EE), Georgia, Mongolia.
- Glypta (Glypta) incisa** Gravenhorst, 1829. Parasitoid of various Tortricidae. Russia (widespread: Kuslitzky, 2007): **EP** (N, C), **FE** (PR). – Europe (WE, NE, SE, EE), Mongolia.
- Glypta (Glypta) kasparyani** Kuslitzky, 1976. Russia: **ES** (IR, ZB), **FE** (AM, PR, SA, KU). – Mongolia.
- Glypta (Glypta) kunashirica** Kuslitzky, 2007. Russia: **FE** (KU).
- Glypta (Glypta) lapponica** Holmgren, 1860 (*Glypta annulata* Bridgman, 1890; *G. areolaris* Hellén, 1915; *Conoblasta nigricoxa* Kokujev, 1927; *C. alpina* Heinrich, 1949). Parasitoid of *Argyroploce lediana* L. and *Celypha rivulana* Scop. (Tortricidae). Russia: **EP** (N), **ES** (IR, YA). – Europe (WE, NE, SE, EE), Caucasus, Mongolia.
- Glypta (Glypta) lineata nigriventris** Ozols, 1973. Russia: **FE** (PR).
- Glypta (Glypta) longicauda** Hartig, 1838 (*Glypta nigrotrochanterata* Strobl, 1902). Parasitoid of *Bupalus piniaria* L. (Geometridae). ? Russia: **EP** (C), **FE** (KA). – Europe (WE, NE, SE, EE).
- Glypta (Glypta) longispinis** (Gmelin, 1790) [Ichneumon] (*Glypta provincialis* Fonscolombe, 1854; *G. rubicunda* Bridgman, 1890; *G. algerica* Habermehl, 1917; *G. zangezurica* Kuslitzky, 1974). Parasitoid of *Aethes margarotana* Dup. (Tortricidae). Russia: **EP** (C). – Europe (WE, SE, EE), N Africa, Caucasus, Turkey, Kazakhstan.
- Glypta (Glypta) longula** Kuslitzky, 2007, nom. praeocc., nec Godoy et Gauld, 2002. Russia: **FE** (PR).
- Glypta (Glypta) maruyamensis** Uchida, 1928. Russia: **FE** (PR, KU). – Japan.
- Glypta (Glypta) media** Momoi, 1963. Parasitoid of *Olethreutes moderata* Flkv. (Tortricidae). Russia: **FE** (PR). – Japan.
- Glypta (Glypta) mensurator** (Fabricius, 1775) [Ichneumon] (*Glypta lugubrina* Holmgren, 1860; *G. macropyga* Hellén, 1915; *G. heydeni* Habermehl, 1917; *G. jaroslavenensis* Shestakov, 1927). Parasitoid of lepidopteran families Noctuidae, Pyralidae, Tortricidae and Yponomeutidae. Russia: **EP** (N, NW, C, E), **WS** (AL), **ES** (BR, ZB). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Central Asia, Kazakhstan, Mongolia.
- Glypta (Glypta) microcera** Thomson, 1889 (*Glypta segrex* Kokujev, 1913). Parasitoid of *Eucosma conterminana* Guen. (Tortricidae). Russia: **EP** (C, E, S, NC), **WS** (AL). – Europe (WE, NE, SE, EE), Caucasus, Central Asia, Kazakhstan, Mongolia.
- Glypta (Glypta) momoi** Kuslitzky, 2007 (*Glypta annulata* Momoi, 1970, nom. praeocc., nec Bridgman, 1890). Russia: **FE** (SA, KU). – Japan (Ryu).
- Glypta (Glypta) monoceros** Gravenhorst, 1829. Parasitoid of Depressariidae and Tortricidae. Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Glypta (Glypta) nigricornis** Thomson, 1889 (*Glypta rufipes* Brischke, 1865, nom. praeocc., nec Spinola, 1851; *G. brischkei* Dalla Torre, 1901; *G. papyri* Speiser, 1908). Parasitoid of *Evetria resinella* L. and *Zeiraphera griseana* Hbn. (Tortricidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), N Africa.
- Glypta (Glypta) nigrina** Desvignes, 1856 (*Glypta flavipes* Desvignes, 1856; *G. ruficeps* Desvignes, 1856; *G. fractigena* Thomson, 1889; *G. obscura* Pfankuch, 1924; *G. clypeodentata* Bauer, 1958; *G. habermani* Ozols, 1959). Parasitoid of various Tortricidae. Russia: **EP** (without regions: Kuslitzky, 2007), ? **FE** (PR). – Europe (WE, NE, SE, EE), Pakistan, Mongolia, India.
- Glypta (Glypta) nigripes** Strobl, 1902. Russia: **WS** (AL). – Europe (WE, EE), Mongolia.
- Glypta (Glypta) nigroplica** Thomson, 1889. Parasitoid of *Cydia pactolana* Z. (Tortricidae). Russia: **EP** (C). – Europe (WE, NE, EE).
- Glypta (Glypta) parvicaudata** Bridgman, 1889 (*Glypta breviventris* Thomson, 1889; *G. crassitarsis* Thomson, 1889; *G. tenuitarsis* Thomson, 1889; *G. obscurata* Kiss, 1929). Parasitoid of lepidopteran families Geometridae, Tortricidae and Yponomeutidae. Russia: **EP** (N), **ES** (IR), **FE** (KU, KA). – Europe (WE, NE, SE, EE), Mongolia, Japan.
- Glypta (Glypta) pedata** Desvignes, 1856. Parasitoid of various Tortricidae. Russia: **EP** (N) (widespread except Far East: Kuslitzky, 2007). – Europe (WE, NE, SE, EE).
- Glypta (Glypta) picta** Kuslitzky, 2007. Russia: **FE** (PR).
- Glypta (Glypta) pictipes** Taschenberg, 1863. Parasitoid of *Acleris rhombana* Den. et Schiff., *Phalonidia manniana* F. R. (Tortricidae) and *Diurnea fagella* Den. et Schiff. (Lypusidae). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).
- Glypta (Glypta) resinanae** Hartig, 1838 (*Glypta arreptans* Hellén, 1915; *G. summimontis* Heinrich, 1953). Parasitoid of various Tortricidae, also recorded from some other lepidopteran families. Russia: **EP** (N, NW, E), **ES** (KR), **FE** (AM). – Europe (WE, NE, SE, EE), Kazakhstan.
- Glypta (Glypta) rubricator** Aubert, 1972. Russia: **EP** (NC), **WS** (AL), **ES** (YA). – Europe (WE, EE), Turkey, Kazakhstan.
- Glypta (Glypta) rufa** Uchida, 1928. Parasitoid of *Ptycholoma lecheana* L. (Tortricidae). Russia: **FE** (AM, KH, PR, KU). – Japan (Hok).
- Glypta (Glypta) rufata** Bridgman, 1887. Parasitoid of *Homoiosoma* sp. (Pyralidae) and *Phalonidia manniana* F. R.

- (Tortricidae). Russia: **EP** (NW, E, S). – Europe (WE, NE, EE), Central Asia, Kazakhstan, China (NC/NW).
- Glypta (Glypta) rufiscutellaris** Cresson, 1870. Parasitoid of various Tortricidae, including *Grapholita molesta* Busck. Russia: **EP** (NC). – Europe (EE), N America, S America (introduced), Australia (introduced).
- Glypta (Glypta) salsolicola** Schmiedeknecht, 1907. Russia: **EP** (C), **WS** (AL). – Europe (WE, NE, SE, EE), Turkey.
- Glypta (Glypta) scalaris** Gravenhorst, 1829 (*Glypta punctifrons* Bridgman, 1890). *Anacampsis temerella* Lienig et Z. (Gelechiidae), *Cydia nigricana* F., *Metendothenia atropunctana* Zett. (Tortricidae) and *Ortholepis vaciniella* Lienig et Z. (Pyralidae). Russia: **EP** (N, C), **ES** (IR, BR, YA). – Europe (WE, NE, SE, EE), Mongolia.
- Glypta (Glypta) sculpturata** Gravenhorst, 1829 (*Glypta macrura* Habermehl, 1918; *G. nigroantennata* Kiss, 1924; *G. rufoclypeata* Kiss, 1924). Parasitoid of *Ematurga atomaria* L. (Geometridae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Caucasus, Kazakhstan.
- Glypta (Glypta) scutellaris** Thomson, 1889. Parasitoid of *Spilonota ocellana* Den. et Schiff. (Tortricidae). Russia: **EP** (without regions: Kuslitzky, 2007), ? **FE** (PR). – Europe (WE, NE, SE, EE).
- Glypta (Glypta) similis** Bridgman, 1886 (*Glypta rufipes* Thomson, 1889; *G. thomsonii* Dalla Torre, 1901; *G. thomsoni* Strobl, 1902). Parasitoid of family Tortricidae. Russia: **EP** (N; without regions: Kuslitzky, 2007), **FE** (PR). – Europe (WE, NE, EE), Turkey.
- Glypta (Glypta) talitzkii** Kuslitzky, 1974. Russia: **EP** (without regions: Kuslitzky, 2007), **FE** (PR). – Europe (EE).
- Glypta (Glypta) tama** Kuslitzky, 1976. Russia: **ES** (YA, ZB).
- Glypta (Glypta) tamanukii** Uchida, 1928. Parasitoid of *Endothenia gentianaeanana* Hbn. and *E. lapideana* H.-Sch. (Tortricidae). Russia: **FE** (KH, PR, SA).
- Glypta (Glypta) tegularis** Thomson, 1889. Parasitoid of *Endothenia lapideana* H.-Sch. (Tortricidae). Russia: **UR**. – Europe (WE, SE, EE).
- Glypta (Glypta) tenuicornis** Thomson, 1889 (*Glypta pygmaea* Shestakov, 1927). Parasitoid of various Tortricidae. Russia: **EP** (C, E). – Europe (WE, NE, SE, EE), Mongolia.
- Glypta (Glypta) teres** Gravenhorst, 1829. Parasitoid of lepidopteran families Erebiidae, Gelechiidae and Geometridae. Russia: **EP** (N, NW, E), **ES** (IR, BR, YA, ZB). – Europe (WE, NE, SE, EE), Mongolia.
- Glypta (Glypta) tibialis** Kuslitzky, 1974. Russia: **EP** (N, NW). – Europe (NE, EE).
- Glypta (Glypta) trochanterata** Bridgman, 1886. Russia: **EP** (NW, C). – Europe (WE, EE), Caucasus.
- Glypta (Glypta) tuta** Kuslitzky, 1976. Russia: **ES** (YA, ZB).
- Glypta (Glypta) ulbrichti** Habermehl, 1926. Russia: **EP** (C, NC), **ES** (BR, YA). – Europe (NE, EE), Caucasus, Kazakhstan.
- Glypta (Glypta) viktorovi** Kuslitzky, 1974. Russia: **EP** (E), **ES** (YA). – Kazakhstan.
- Glypta (Glypta) vulnerator** Gravenhorst, 1829 (*Glypta monstrosa* Hellén, 1915; *G. globulithorax* Hedwig, 1956). Parasitoid of various Tortricidae. Russia: **EP** (NW, C), **FE** (SA). – Europe (WE, NE, SE, EE).
- Glypta (Glypta) yasumatsui** (Uchida, 1952) [Conoblasta]. Russia: **ES** (YA, ZB), **FE** (AM). – Mongolia, China (NC).
- GLYPTOPIMPLA** Morley, 1913 (*Zygoglypta* Momoi, 1965; *Orientoglypta* Kuslitzky, 1973). Type species: *Glyptopimpla prima* Morley, 1913. Predominantly East Palaearctic and Oriental genus with one species also from the Afrotropical region. Hosts unknown. Number of species: World – 12, Palaearctic – 5, Russia – 4.
- Glyptopimpla iwatai** (Momoi, 1963) [Glypta]. Russia: **FE** (KH, PR, SA, KU). – China (NE, NC), Korean Peninsula, Japan.
- Glyptopimpla macrofossa** (Momoi, 1963) [Glypta]. Russia: **FE** (PR). – Korean Peninsula, Japan.
- Glyptopimpla uchidai** (Momoi, 1963) [Glypta]. Russia: **FE** (PR, KU). – Japan.
- Glyptopimpla watanabei** (Momoi, 1963) [Glypta]. Russia: **FE** (PR, KU). – Japan.
- TELEUTAEA** Foerster, 1869 (*Hoplitophrys* Foerster, 1869). Type species: *Lissonota striata* Gravenhorst, 1829. Holarctic and Oriental genus. Number of species: World – 20, Palaearctic – 15, Russia – 10.
- Teleutaea acarinata** Kuslitzky, 1973. Russia: **FE** (KH, PR). – China (NE), Korean Peninsula.
- Teleutaea brischkei** (Holmgren, 1860) [Glypta]. Parasitoid of lepidopteran from the families Geometridae, Noctuidae and Tortricidae. Russia: **EP** (N), **WS** (AL), **ES** (IR, BR), **FE** (AM, PR, KA). – Europe (WE, NE, SE, EE), China (NC), Korean Peninsula, Japan (Hok).
- Teleutaea diminuta** Momoi, 1978 (*Teleutaea kasparyani* Kuslitzky, 1979). Russia: **FE** (KH, SA, KU). – China (NE), Korean Peninsula, Japan (Hok, Hon).
- Teleutaea minamikawai** Momoi, 1963. Parasitoid of *Adoxophyes orana* F. R., *Archips viola* Flkv. and *Homona* spp. (Tortricidae). Russia: **FE** (KH, PR). – China (CC), Korean Peninsula, Japan (Hon, Shi, Kyu, Ryu).
- Teleutaea mishae** Kuslitzky, 1973. Parasitoid of *Archips oporana* L. (Tortricidae). Russia: **FE** (PR, KU). – Korean Peninsula, Japan (Hok, Hon, Kyu).
- Teleutaea nigricoxalis** (Uchida, 1928) [Hoplithophrys] (*Teleutaea longiterebra* Kuslitzky, 1973). Russia: **FE** (KH, SA). – Japan (Hok, Hon, Kyu).
- Teleutaea orientalis** Kuslitzky, 1973. Parasitoid of *Archips capsigeranus* Kennel, *Ptycholoma lecheana* L. (Tortricidae) and *Rhizosthenes falciformis* Meyr. (Lecithoceridae). Russia: **FE** (KH, PR). – China (NE), Korean Peninsula, Japan (Hok, Hon, Shi).
- Teleutaea sachalinensis** Uchida, 1928. Parasitoid of *Lozotaenia coniferana* Issiki (Tortricidae). Russia: **FE** (KH, SA). – China (NE, NC/NW), Japan (Hok, Hon).

Teleutaea striata (Gravenhorst, 1829) [Lissonota] (*Teleutaea corniculata* Momoi, 1978). Parasitoid of various Lepidoptera, mainly Tortricidae. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), China (NE), Japan (Hok, Hon, Shi, Kyu).

Teleutaea ussuriensis (Golovisnin, 1928) [Hoplitophrys] (*Hoplitophrys japonicus* Uchida, 1928; *Teleutaea uchidai* Momoi, 1963). Parasitoid of *Olethreutes electana* Kennel (Tortricidae). Russia: **FE** (KH, PR, SA, KU). – China (NE), Korean Peninsula, Japan (Hok, Hon, Shi).

Subfamily CAMPOPLEGINAE

A.I. KHALAIM

Very large worldwide subfamily of koinobiont endoparasitoids of various insects, mainly Lepidoptera. Many Palaearctic genera not or poorly revised. The fauna of Campopleginae of Russia is very poorly known, with many records based on old publications, with a few exceptions, e. g. the genus *Dusona* Cameron, 1901 whose Palaearctic species were revised by R. Hinz and K. Horstmann (see references below). The number of taxa is given approximately, following Taxapad (Yu et al., 2016).

Number of taxa: World – 66 genera and over 2100 species, Palaearctic – 49/about 1100, Russia – 41/about 355.

References. Kasparyan, 1976b, 2011b; Hinz, 1977; Dbar, 1983, 1984a, 1984b, 1985a, 1985; Kasparyan, Dbar, 1985; Hinz, Horstmann, 2004, 2009; Khalaim, Kasparyan, 2007b; Riedel, 2017, 2018f; Vas, 2019a, 2019b; Watanabe, 2019a.

Subfamily COLLYRIINAE

A.I. KHALAIM

Small and almost exclusively Palaearctic subfamily; one monotypic genus is also known from the Oriental part of China. Parasitoids of Cephidae (Hymenoptera).

Number of taxa: World – 3 genera and 12 species, Palaearctic – 2/11, Russia – 1/2.

References. Izquierdo, Rey del Castillo, 1985; Gürbüz, Kolarov, 2006; Kasparyan, Khalaim, 2007m; Wahl et al., 2007; Kuslitzky, Kasparyan, 2011; Sheng et al., 2012.

COLLYRIA Schiødte, 1839 (*Pachymerus* Gravenhorst, 1829, nom. praeocc., nec. Thunberg, 1805). **Type species:** *Bassus calcitrator* Gravenhorst, 1807. Palaearctic genus. Number of species: World and Palaearctic – 10, Russia – 2.

Collyria coxator coxator (Villers, 1789) [Ichneumon] (*Bassus calcitrator* Gravenhorst, 1807; *Pachymerus puncticeps* Thomson, 1877). Parasitoid of *Cephus cinctus* Norton, *C. pygmaeus* L., *Janus integer* Norton and *Trachelus tabidus* F. (Cephidae). Russia: **EP** (NW, C, S, NC), **FE**

(KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Syria, Jordan, Iran, Afghanistan, Central Asia, Kazakhstan, China (WP), N America (introduced).

Collyria coxator rufa Meyer, 1922. Russia: **EP** (S).

Collyria trichophthalma (Thomson, 1877) [Pachymerus]. Russia: **EP** (N), **ES/WS** (“Siberia”: Kasparyan, Khalaim, 2007m), **FE** (SA, ? KA). – Europe (WE, NE, SE, EE).

Subfamily CREMASTINAE

A.I. KHALAIM

Moderately large worldwide subfamily. Cremastinae are koinobiont endoparasitoids of various Lepidoptera (mainly of larvae concealed in tunnels, galls, leaf rolls, etc.). The cremastine fauna of Russia is very poorly known.

Number of taxa: World – 35 genera, about 853 species, Palaearctic – 16/167, Russia – 7/22.

References. Narolsky, 1986, 1987a, 1987b, 1987c, 1990a, 1990b, 1993, 1994, 2002, 2004; Narolsky, Kuznetsova, 1986; Horstmann, 1990; Choi et al., 2014c; Kolarov, 2016; Vas, 2016a; Gadallah et al., 2017.

CREMASTUS Gravenhorst, 1829. **Type species:** *Cremastus spectator* Gravenhorst, 1829. Large and almost exclusively Holarctic genus. Number of species: World – about 130 (taxonomic status of several taxa is unclear), Palaearctic – 30, Russia – 8.

Cremastus bellicosus Gravenhorst, 1829 (*Cremastus partitus* Szépligeti, 1899; *C. meridianator* Aubert, 1960). Parasitoid of *Megalophanes viciella* Den. et Schiff. (Psychidae). Russia: **EP** (C, E), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Canary Is, Azerbaijan, Turkey, Mongolia.

Cremastus crassicornis Thomson, 1890. Parasitoid of *Idaea ochrata* Scop. (Geometridae), *Megalophanes* spp., *Phalacropterix* spp. and *Psyche casta* Pall. (Psychidae). Russia: **EP** (S). – Europe (WE, NE, SE, EE), Turkey.

Cremastus crassitibialis Uchida, 1940. Russia: **ES** (ZB). – Mongolia, China (NW/NC).

Cremastus dalmatinus Strobl, 1904. Russia: **EP** (S). – Europe (SE, EE), Turkey, Tajikistan.

Cremastus geminus Gravenhorst, 1829 (*Cremastus areolaris* Strand, 1918). Parasitoid of *Saperda populnea* L. (Cerambycidae). Russia: **EP** (E). – Europe (WE, NE, SE, EE), Turkey, Mongolia, China (NE, NC, NW/NC), South Africa.

Cremastus infirmus Gravenhorst, 1829 (*Cremastus filicaudis* Szépligeti, 1905). Parasitoid of *Exoteleia dodecella* L., *Scrobipalpa atriplicella* F. R. (Gelechiidae) and *Sterrhopterix* spp. (Psychidae). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Mongolia.

Cremastus pungens Gravenhorst, 1829 (*Cremastus laeviusculus* Thomson, 1890). Russia: **EP** (E), **ES** (KR, IR). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia.

- Cremastus spectator** Gravenhorst, 1829 (*Cremastus binotatus* Gravenhorst, 1829; *C. melanarius* Szépligeti, 1901). Parasitoid of *Megalophanes viciella* Den. et Schiff., *Phalacropterix graslinella* Boisd. and *Sterrhopterix standfussi* Wocke (Psychidae). Russia: **EP** (NC), **ES** (KR, IR). – Europe (WE, NE, SE, EE), Turkey.
- DIMOPHORA** Foerster, 1869 (*Oligotmema* Cushman, 1920). Type species: *Dimophora robusta* Brischke, 1880. Predominantly Holarctic and Australian genus. Number of species: World – 17, Palaearctic – 2, Russia – 1.
- Dimophora nitens** (Gravenhorst, 1829) [Campoplex] (*Dimophora robusta* Brischke, 1880; *D. similis* Brischke, 1880; *Dimophorus arenicola* Thomson, 1890). Russia: **EP** (N). – Europe (WE, NE, SE, EE), Turkey, Australia (? invasion).
- NOTHOCREMASTUS** Dasch, 1979. Type species: *Atractodes mellipes* Provancher, 1875. Holarctic genus; in the Palaearctic region, it is restricted to the Western Palaearctic. Number of species: World – 20, Palaearctic – 13, Russia – 1.
- Nothocremastus longitarsus** Narolsky, 1990. Russia: **EP** (S).
- PRISTOMERUS** Curtis, 1836. Type species: *Ichneumon vulnerator* Panzer, 1799. Large worldwide genus. Number of species: World – about 160, Palaearctic – 25, Russia – 11.
- Pristomerus areolaris** Narolsky, 1987. Russia: **EP** (S). – Azerbaijan.
- Pristomerus armatus** (Lucas, 1849) [Collyria] (*Odontomerus glandarius* Rondani, 1877; *Pristomerus cingulatus* Szépligeti, 1905). Parasitoid of various Tortricidae, also recorded from families Coleophoridae, Depressariidae and Pyralidae. Russia: **EP** (NW, C, E, S, NC, CR), **ES** (ZB). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan.
- Pristomerus genalis** Sawoniewicz, 1978. Russia: **EP** (S), **FE** (AM). – Europe (EE), Caucasus, Kyrgyzstan, Kazakhstan.
- Pristomerus horribilis** Narolsky, 1987. Russia: **EP** (CR). – Europe (WE, EE), Turkey, Iran.
- Pristomerus kasparyani** Narolsky, 1986. Parasitoid of *Coleophora oriolella* Z. (Coleophoridae). Russia: **EP** (CR). – Europe (WE, SE, EE), Turkey.
- Pristomerus luridus** Kokujev, 1905 (*Pristomerus pallidus* Thomson, 1890, nom. praecox., nec Kriechbaumer, 1884). Russia: **EP** (CR), ? **UR**. – Europe (WE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia.
- Pristomerus orbitalis** Holmgren, 1860. Parasitoid of various Lepidoptera: *Ostrinia nubilalis* Hbn. (Crambidae), *Coleophora frischella* L. (Coleophoridae), *Agonopterix ocellana* F. (Depressariidae), *Lymantria dispar* L. (Erebidae), *Exoteleia dodecella* L. (Gelechiidae), *Dendrolimus pini* L. (Lasiocampidae), *Cydia pomonella* L., *Hedya nubiferana* Haw., *Rhyacionia buoliana* Den. et Schiff., *Spilonota ocellana* Den. et Schiff. (Tortricidae) and *Zygaena loniceræ* Scheven (Zygaenidae). ? Russia: **EP** (NW, C, S). – Europe (WE, NE, SE, EE), ? N Africa, Caucasus, Mongolia, N America.
- Pristomerus protractus** Narolsky, 1987. Russia: **FE** (PR).
- Pristomerus rivalis** Narolsky, 1987. Russia: **EP** (CR). – Europe (EE), Turkey, Central Asia, Kazakhstan.
- Pristomerus rufiabdominalis** Uchida, 1928. Parasitoid of *Dichomeris fasciella* Hbn., *Phthorimaea operculella* Z. (Gelechiidae), *Grapholita funebrana* Tr. and *Gypsonoma aceriana* Dup. (Tortricidae). Russia: **EP** (NC, CR), **ES** (ZB), **FE** (KH, PR). – Europe (EE), Caucasus, China (NC), Japan.
- Pristomerus vulnerator** (Panzer, 1799) [Ichneumon] (*Pristomerus schreineri* Ashmead, 1904; *P. marginalis* Habermehl, 1923; *Cremastus stigmaticus* Hellén, 1949). Parasitoid of a large number of lepidopteran hosts from the families Tortricidae (most records), Coleophoridae, Gelechiidae, Lycaenidae, Pyralidae, Sesiidae, Yponomeutidae, etc.; also was recorded from the families Anthomyiidae and Muscidae (Diptera). Russia: **EP** (NW, C, S, CR), **WS** (AL), **ES** (ZB), **FE** (AM, PR). – Europe (WE, NE, SE, EE), N Africa, Azores, Caucasus, Turkey, Israel, Iran, Central Asia, Kazakhstan, China (NE, NC, CC), Korean Peninsula, Japan, N America (introduced), India.
- TEMELUCHA** Foerster, 1869. Type species: *Porizon macer* Cresson, 1872 (= *Porizon facilis* Cresson, 1972). Very large worldwide genus most represented in the Nearctic region. Number of species: World – about 237 (taxonomic status of several species is unclear), Palaearctic – 60, Russia – 10.
- Temelucha anatolica** (Šedivý, 1959) [Cremastus] (*Temelucha gallicolor* Aubert, 1964). Parasitoid of *Coleophora tadzhikiella* Danil. (Coleophoridae), *Ascalenia vanelloides* Grsm. (Cosmopterigidae) and *Tuta absoluta* Meyr. (Gelechiidae). Russia: **EP** (NC). – Europe (WE, SE), N Africa, Caucasus, Turkey, Israel, Central Asia.
- Temelucha caudata** (Szépligeti, 1899) [Cremastus] (*Cremastus oculatus* Szépligeti, 1899; *C. gallicolor* Aubert, 1960). Parasitoid of *Coleophora dignella* Toll (Coleophoridae). Russia: **EP** (NC). – Europe (WE, SE, EE), Turkey, Iran.
- Temelucha cylindrator** Narolsky, 1987. Russia: **EP** (CR). – Europe (EE).
- Temelucha decorata** (Gravenhorst, 1829) [Cremastus] (*Cremastus ornatus* Szépligeti, 1899; *C. variegatus* Szépligeti, 1899; *Temelucha plutellae* Ashmead, 1904; *Cremastus flavopictus* Aubert, 1959). Parasitoid of lepidopterans from the families Crambidae, Gelechiidae, Noctuidae, Pyralidae and Tortricidae. Russia: **EP** (E, S, NC). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Iran, Afghanistan, Central Asia.
- Temelucha guttifer** (Thomson, 1890) [Cremastus]. Russia: **ES** (KR). – Europe (NE, SE, EE), N Africa, Turkey.

Temelucha interruptor (Gravenhorst, 1829) [Cremastus] (*Cremastus buoliana* Curtis, 1854). Parasitoid of *Exoteleia* sp., *Nothris* sp., *Scrobipalpa* sp. (Gelechiidae), *Sterrhopterix* spp. (Psychidae), *Cochilis* sp. and *Rhyacionia* spp. (Tortricidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia.

Temelucha lucida (Szépligeti, 1899) [Cremastus]. Parasitoid of *Isauria dilucidella* Dup. (Pyralidae) and *Rhyacionia buoliana* Den. et Schiff. (Tortricidae). Russia: **EP** (NC), **WS** (AL). – Europe (SE, EE), Turkey, Iran.

Temelucha ophthalmica (Holmgren, 1860) [Cremastus] (*Cremastus macrostigma* Thomson, 1890). Parasitoid of *Pyrausta* sp. (Crambidae). Russia: **EP** (E, S, CR). – Europe (WE, SE, EE), Armenia, Turkey, Central Asia.

Temelucha picticollis (Hellén, 1949) [Cremastus]. Russia: **EP** (S). – Canary Is.

Temelucha schoenobia (Thomson, 1890) [Cremastus]. Russia: **FE** (PR). – Europe (NE, EE), Turkey, Iran, ? Turkmenistan.

TERSOAKUS Narolsky, 2002. Type species: *Tersoakus kasparyani* Narolsky, 2002. Monotypic Palaearctic genus known only from the Russian Far East.

Tersoakus kasparyani Narolsky, 2002. Russia: **FE** (KH, PR).

TRATHALA Cameron, 1899. Type species: *Trathala striata* Cameron, 1899. Large worldwide genus with only a few taxa occurring in the Palaearctic region. Number of species: World – over 100, Palaearctic – 3, Russia – 2.

Trathala flavoorbitalis (Cameron, 1907) [Tarytia] (*Diaparsis coreanus* Uchida, 1928; *D. kondonis* Uchida, 1928). Recorded as parasitoid of a large number of lepidopterans mostly from the families Gelechiidae, Noctuidae, Pyralidae and Tortricidae. Widespread; introduced to N America, but without establishment. Russia: **FE** (KH, PR). – China, Korean Peninsula, Japan, N America (introduced), India, SE Asia, Madagascar, Réunion I., Oceanic region.

Trathala hierochonticus (Schmiedeknecht, 1910) [Cremastus] (*Trathala europeator* Aubert, 1964; *Cremastus romanicus* Šedivý, 1965). Parasitoid of *Ostrinia nubilalis* Hbn. (Crambidae). Russia: **EP** (NC). – Europe (WE, EE), N Africa, Turkey, Israel, Iran.

Subfamily CRYPTINAE

A.I. KHALAIM

Large worldwide subfamily which is subdivided here into three tribes, the Cryptini, Hemigastrini and Phygadeuontini, although recent phylogenetic revisions propose a different tribal composition, e. g. phygadeuontines treated as a separate subfamily. The Cryptinae is biologically a very diverse group. Most cryptines are solitary (rarely gregarious) ectoparasitoids in cocoons of various insects, mainly

Lepidoptera, but also sawflies, wasps, beetles, dipterans, etc. Some cryptines feed in spider egg-sacs, and some species are known as pseudohyperparasitoids.

The fauna of Cryptinae of Russia is very poorly known, with many records based on old publications. The number of taxa is given approximately, following Taxapad (Yu et al., 2016).

Number of taxa: World – about 400 genera and 5100 species, Palaearctic – about 160/about 1800, Russia – 83/about 350.

References. Townes, 1970a; Jonaitis, 1994; Schwarz, 1994, 1995, 1998, 2001, 2002, 2005, 2007, 2009, 2011, 2015, 2016, 2018; Khalaim, Kasparyan, 2007a; Wang et al., 2019a, 2019b.

Subfamily CTENOPELMATINAE

D.R. KASPARYAN

Large worldwide subfamily with most taxa in the Holarctic region. The subfamily is subdivided into nine tribes and eight of them (all except the Australian Weswoodiini) are known from Russia.

Ctenopelmatines are koinobiont endoparasitoids of sawflies of the superfamilies Tenthredinoidea and Pamphilioidea. The parasitoid female oviposits into the host larva, or sometimes into the egg; the larva of the host is consumed by the parasitoid larva after preparation of its own cocoon.

Number of taxa: World – 105 genera and about 1440 species, Palaearctic – 78/about 1000, Russia – 68/507.

References. Oehlke, 1966; Hinz, 1975, 1986, 1991, 1996; Idar, 1979, 1981, 1983; Aubert, 1985, 1998, 2007; Eichhorn, 1988; Kaur, 1989; Barron, 1998; Hinz, Horstmann, 1998; Kasparyan, 2000, 2001, 2002, 2003a, 2003b, 2004a, 2004b, 2005, 2006, 2009, 2010, 2011a, 2012, 2014, 2015, 2017, 2019a, 2019b, 2019c; Kasparyan, Khalaim, 2007i; Kasparyan, Kopelke, 2009, 2010; Reshchikov, 2012, 2015, 2016; Kasparyan et al., 2016; Sun et al., 2019a, 2019b.

Tribe CHRIONOTINI

Palaearctic and Oriental tribe with two monotypic genera.

OLETHRODOTIS Foerster, 1869. Type species: *Mesoleptus modestus* Gravenhorst, 1829. Monotypic Western Palaearctic genus.

Olethrodotis modesta (Gravenhorst, 1829) [Mesoleptus] (*Phytodietus microtamius* Gravenhorst, 1829; *Tryphon evolans* Gravenhorst, 1829). Russia: **EP** (NW, S). – Europe (WE, EE).

Tribe CTENOPELMATINI

Holarctic tribe with six genera and about 110 species. Four genera and 30 species are known to occur in Russia,

and two genera, the monotypic European *Rhorodes* Aubert, 1970 and Eastern Palaearctic *Satous* Townes, 1970 (two species in Korean Peninsula and Japan), are not recorded from Russia. Parasitoids of larvae of Pamphiliidae.

CTENOPELMA Holmgren, 1857 (*Diedrus* Foerster, 1869; *Eryma* Foerster, 1869; *Zachresta* Foerster, 1869; *Xaniopelma* Tschek, 1869; *Holmgrenia* Kriechbaumer, 1877; *Kriechbaumeria* Dalla Torre, 1885; *Polyomorus* Kriechbaumer, 1894; *Neoeryma* Ashmead, 1898; *Polyhomorus* Schulz, 1906; *Pseudobanchus* Szépligeti, 1911). Type species: *Ctenopelma nigrum* Holmgren, 1857. Holarctic genus. Number of species: World – 44, Palaearctic – 16, Russia – 14.

Ctenopelma altitudinis (Heinrich, 1953) [*Xaniopelma*] (*Ctenopelma tenuitor* Aubert, 1987). Parasitoid of *Acantholyda posticalis* Mats. Russia: **EP** (C). – Europe (WE, EE), Kazakhstan, China (NC).

Ctenopelma boreale Holmgren, 1857. Russia: **EP** (N), **WS** (TM), **ES** (IR, YA), **FE** (KH, PR, KU, KA). – Europe (WE, EE).

Ctenopelma boreoalpinum Heinrich, 1949. Parasitoid of *Pamphilius vafer* L. Russia: **EP** (NW, C), **WS** (AL). – Europe (WE, NE).

Ctenopelma brevicorne Kuzin, 1950 (*Ctenopelma fuscipenne* Uchida, 1955). Russia: **ES** (BR, ZB), **FE** (PR). – Mongolia, Korean Peninsula.

Ctenopelma karafutonis (Matsumura, 1911) [Ischnus]. Russia: **WS** (TM), **ES** (KR, IR), **FE** (SA, KU, KA, MG). – Japan.

Ctenopelma lapponicum Holmgren, 1857 (*Ctenopelma clypeata* Holmgren, 1857). Russia: **EP** (N), **FE** (KA). – Europe (NE).

Ctenopelma lucifer (Gravenhorst, 1829) [Mesochorus] (*Ctenopelma affinis* Holmgren, 1857; *C. caudatum* Holmgren, 1857; *C. fuscipenne* Holmgren, 1857; *Zachresta insignis* Woldstedt, 1878; *Ctenopelma tokioense* Uchida, 1930). Parasitoid of *Acantholyda posticalis* Mats. and *Cephalcia* spp. Russia: **EP** (N, NW, C), **ES** (IR), **FE** (AM). – Europe (WE, NE, SE, EE), Japan.

Ctenopelma nigripenne (Gravenhorst, 1829) [Exetastes] (*Polyblastus elegans* Szépligeti, 1901; *Ctenopelma freygessneri* Gehrs, 1908; *C. pilosum* Lange, 1911; *C. nigroscutellatus* Kiss, 1929). Russia: **EP** (C, E), **ES** (KR). – Europe (WE, SE, EE), Turkey, Kazakhstan.

Ctenopelma nigrum Holmgren, 1857 (*Xaniopelma sericans* Tschek, 1869). Parasitoid of *Acantholyda posticalis* Mats., *Cephalica abietis* L. and *C. lariciphila* Wachtl. Russia: **EP** (N, E), **WS** (TM), **ES** (KR, ZB), **FE** (PR, KA). – Europe (WE, NE, EE), Kazakhstan.

Ctenopelma orientale Kasparyan, 2004. Russia: **FE** (PR). – Myanmar.

Ctenopelma ruficorne Holmgren, 1857. Parasitoid of *Pamphilius hypotrophicus* Hartig. Russia: **EP** (C), **ES** (IR, YA), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE).

Ctenopelma ruficoxator Aubert, 1987. Russia: **EP** (N), **ES** (ZB).

Ctenopelma tomentosum (Desvignes, 1856) [Campoplex] (*Ctenopelma lutea* Holmgren, 1857; *C. xanthostigma* Holmgren, 1857; *C. variabilis* Tschek, 1869; *Holmgrenia pulchra* Kriechbaumer, 1877; *Polyomorus gagatinus* Kriechbaumer, 1894; *Ctenopelma athimi* Kriechbaumer, 1896; *C. braunsii* Pfankuch, 1904; *C. dispar* Ulbricht, 1916). Parasitoid of *Pamphilius hortorum* Klug. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TK, AL), **ES** (IR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Kazakhstan, Japan.

HOMASPIS Foerster, 1869 (*Nehomaspis* Heinrich, 1949). Type species: *Mesoleptus rufinus* Gravenhorst, 1829. Holarctic genus. Number of species: World – about 20, Palaearctic – 11, Russia – 8.

Homaspis analis (Holmgren, 1857) [Notopygus] (*Ctenopelma defectiva* Tschek, 1869; *Homaspis pectorator* Aubert, 1989). Parasitoid of *Pamphilius vafer* L. and *P. latifrons* Fll. Russia: **EP** (NW, C, NC), **WS** (AL), **ES** (YA), **FE** (KA). – Europe (WE, NE, SE, EE), Kazakhstan.

Homaspis kurilensis Uchida, 1930. Russia: **FE** (KU).

Homaspis narrator (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of *Acantholyda posticalis* Mats. and *Cephalcia* spp. Russia: **EP** (N, C), **WS** (TM, TK), **ES** (IR). – Europe (WE, NE, EE).

Homaspis rufina (Gravenhorst, 1829) [Mesoleptus] (*Notopygus robustus* Thomson, 1894). Parasitoid of *Acantholyda erythrocephala* L., *A. posticalis* Mats., *Cephalcia abietis* L. and *C. falleni* Dalm. Russia: **EP** (N, C, E), **ES** (KR), **FE** (AM). – Europe (WE, NE, EE), Kazakhstan.

Homaspis sibirica Kasparyan, 2004. Russia: **FE** (MG).

Homaspis subalpina Schmiedeknecht, 1913 (*Homaspis medialis* Ulbricht, 1921; *H. semirufa* Habermehl, 1925; *H. nigriventris* Gregor, 1928; *Nehomaspis alpina* Heinrich, 1949). Parasitoid of *Cephalcia abietis* L., *C. arvensis* Pz. and *C. lariciphila* Wachtl. Russia: **EP** (N, NW, NC), **WS** (AL). – Europe (WE, NE, EE).

Homaspis transbaikalitor Aubert, 1985. Russia: **ES** (ZB).

Homaspis varicolor (Thomson, 1894) [Notopygus]. Russia: **EP** (N), **ES** (YA), **FE** (PR). – Europe (WE, NE, EE), Turkey.

NOTOPYGUS Holmgren, 1857 (*Antipygus* Tschek, 1869). Type species: *Notopygus emarginatus* Holmgren, 1857. Holarctic genus. Number of species: World – 15, Palaearctic – 11, Russia – 5.

Notopygus emarginatus Holmgren, 1857. Parasitoid of *Pamphilius vafer* L. and *P. pallipes* Zett. Russia: **WS** (TM, AL), **ES** (YA), **FE** (KH). – Europe (WE, NE, EE).

Notopygus eurus Kasparyan, 2002. Russia: **ES** (ZB), **FE** (KH, PR).

Notopygus minkii Vollenhoven, 1878 (*Notopygus bicarinatus* Teunissen, 1953). Russia: **FE** (SA). – Europe (WE, NE, EE).

Notopygus nigricornis Kriechbaumer, 1891. Russia: **ES** (ZB), **FE** (SA). – Europe (WE, NE, EE).

Notopygus xanthocerus Kriechbaumer, 1891. Russia: **EP** (C), **FE** (AM). – Europe (NE, EE).

XENOSCHESIS Foerster, 1869. Type species: *Exetastes fulvipes* Gravenhorst, 1829. Holarctic genus subdivided into two subgenera. Number of species: World – 18, Palaearctic – 12, Russia – 5.

Xenoschesis (Polycineticus) ustulata (Desvignes, 1856) [Tryphon] (*Notopygus resplendens* Holmgren, 1857; *Erigloea polita* Kriechbaumer, 1891; *Hadrodactylus montanus* Habermehl, 1922). Parasitoid of *Pamphilus vafei* L. and *P. hortorum* Klug. Russia: **EP** (N, NW), **WS** (TM), **ES** (BR, YA, ZB), **FE** (KH, PR, KU, KA, MG). – Europe (WE, NE, EE), Turkey, N America.

Xenoschesis (Xenoschesis) crassicornis Uchida, 1928. Parasitoid of *Acantholyda erythrocephala* L. and *A. parki* Shinohara et Byun. Russia: **FE** (SA). – China, Korean Peninsula.

Xenoschesis (Xenoschesis) fulvipes (Gravenhorst, 1829) [Exetastes]. Parasitoid of *Cephalcia arvensis* Pz., *Acantholyda erythrocephala* L., *A. posticalis* Mats., etc. Russia: **EP** (N, NW, C, E). – Europe (WE, NE, SE, EE), Turkey, China, Japan.

Xenoschesis (Xenoschesis) mordax (Thomson, 1883) [Notopygus]. Parasitoid of *Cephalcia abietis* L. Russia: **EP** (N), **FE** (AM). – Europe (WE, NE, EE).

Xenoschesis (Xenoschesis) nigricoxa (Strobl, 1903) [Notopygus]. Parasitoid of *Cephalcia abietis* L. Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, EE).

Tribe EURYPROCTINI

Predominantly Holarctic tribe with 15 genera and about 160 species in the Palaearctic region; 14 genera and 75 species are known from Russia.

ANISOTACRUS Schmiedeknecht, 1913. Type species: *Mesoleius tenellus* Holmgren, 1857 (= *Mesoleptus bipunctatus* Gravenhorst, 1829). Holarctic genus. Number of species: World – 9, Palaearctic – 6, Russia – 5.

Anisotacrus albinotatus Kasparyan, 2007. Russia: **FE** (KU).

Anisotacrus bipunctatus (Gravenhorst, 1829) [Mesoleptus] (*Mesoleius tenellus* Holmgren, 1857). Parasitoid of *Nematus ribesii* Scop. (Tenthredinidae). Russia: **EP** (N, NW, C, S), **ES** (IR). – Europe (WE, NE, EE).

Anisotacrus konishii Kasparyan, 2007. Russia: **FE** (KU).

Anisotacrus kurilensis Kasparyan, 2007. Russia: **FE** (KU).

Anisotacrus xanthostigma xanthostigma (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of *Dolerus gessneri* André, *D. migratus* Müll. and *D. pratensis* L. (Tenthredinidae). Russia: **EP** (N, NW, C, E, S), **UR**, **WS** (TK), **ES** (KR, IR, YA, ZB), **FE** (KA). – Europe (WE, NE, EE).

Anisotacrus xanthostigma caucasitor Aubert, 1998. Russia: **EP** (NC).

EURYPROCTUS Holmgren, 1857 (*Sychnoleter* Foerster, 1869). Type species: *Mesoleptus annulatus* Gravenhorst, 1829. Predominantly Holarctic genus with several species found in the Oriental region. Number of species: World – 45, Palaearctic – 25, Russia – 13.

Euryproctus alpinus Holmgren, 1857. Russia: **EP** (N, NW), **FE** (KA). – Europe (WE, NE, EE).

Euryproctus annulatus (Gravenhorst, 1829) [Mesoleptus] (*Mesoleptus annulator* Stephens, 1835). Parasitoid of *Macrophya ribis* Schr., *Rhogogaster viridis* L. and *Siobla sturmii* Klug (Tenthredinidae). Russia: **EP** (N, NW, C, E). – Europe (WE, NE, EE), Japan.

Euryproctus arbustorum Holmgren, 1857. Russia: **EP** (N, NW, CR). – Europe (WE, NE, EE), Turkey.

Euryproctus boreator Aubert, 1998. Russia: **EP** (N).

Euryproctus caucasiator Aubert, 1998. Russia: **EP** (NC).

Euryproctus crassicornis Thomson, 1889. Russia: **EP** (N, NW, C, CR). – Europe (WE, NE, SE, EE), Azerbaijan.

Euryproctus geniculosus (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of *Brachythops flavens* Klug, *Selandria serva* F. (Tenthredinidae) and *Trichiosoma sorbi* Hartig (Cimbicidae). Russia: **EP** (NW, C, CR). – Europe (WE, NE, SE, EE), Turkey.

Euryproctus luteicornis (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Dolerus genucinctus* Zaddach and *D. vestigialis* Klug (Tenthredinidae). Russia: **EP** (C). – Europe (WE, NE, EE), Georgia, Turkey.

Euryproctus maidli Habermehl, 1926. Russia: **EP** (NC). – Europe (SE), Georgia.

Euryproctus mundus (Gravenhorst, 1820). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Georgia, Turkey, Afghanistan.

Euryproctus nemoralis (Geoffroy, 1785) [Ichneumon] (*Ichneumon digitator* Thunberg, 1822; *Mesoleptus affinis* Holmgren, 1856; *Euryproctus tuberculatus* Holmgren, 1857; *E. vafei* Woldstedt, 1874; *E. foersteri* Kriechbaumer, 1897). Parasitoid of *Macrophya albicincta* Schr., *Rhogogaster viridis* L., *Tenthredo bipunctula* Klug, etc. (Tenthredinidae). Russia: **EP** (NW, C), **ES** (IR, YA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey.

Euryproctus plantator (Thunberg, 1822) [Ichneumon] (*Euryproctus albipes* Holmgren, 1857). Parasitoid of *Macrophya duodecimpunctata* L. (Tenthredinidae). Russia: **EP** (C). – Europe (WE, NE, EE).

Euryproctus trochantellator Aubert, 1998. Russia: **EP** (S). – Turkey.

GUNOMERIA Schmiedeknecht, 1907. Type species: *Mesoleptus macrodactylus* Holmgren, 1856. Palaearctic genus. Number of species: World, Palaearctic and Russia – 2.

- Gunomeria macrodactylus** (Holmgren, 1856) [Mesoleptus]. Russia: **EP** (N, NW, C, CR), **ES** (IR). – Europe (WE, NE, EE), Turkey.
- Gunomeria sordida** (Gravenhorst, 1829) [Mesoleptus] (*Mesoleptus scutellatus* Bridgman, 1886). ? Russia: **EP** (NW), **ES** (IR, YA). – Europe (WE, NE, EE).
- HADRODACTYLUS** Foerster, 1869. Type species: *Ichneumon tiphæ* Geoffroy, 1875. Holarctic genus. Parasitoid of the tribe Dolerini (Tenthredinidae). Number of species: World – 43, Palaearctic – 33, Russia – 26.
- Hadrodactylus bidentulus** Thomson, 1883. Parasitoid of *Dolerus haematodes* Schr., *D. nigratus* Müll. and *D. picipes* Klug. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Hadrodactylus caucasicus** Kasparyan, 2011. Russia: **EP** (NC).
- Hadrodactylus confusus** Holmgren, 1859 (*Hadrodactylus albicoxa* Thomson, 1883). Parasitoid of *Dolerus eversmanni* Kby. Russia: **EP** (N, NW), **WS** (TM), **ES** (BR, YA, ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE).
- Hadrodactylus faciator** (Thunberg, 1824) [Ichneumon] (*Mesoleptus gracilis* Holmgren, 1856; *M. curtus* Holmgren, 1857). Parasitoid of *Dolerus palmatus* Klug and *D. vestigialis* Klug. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (KR, YA), **FE** (KU). – Europe (WE, NE, SE, EE).
- Hadrodactylus femoralis** (Holmgren, 1857) [Mesoleptus] (*Hadrodactylus intrepidus* Kriechbaumer, 1891; *Mesoleptus nigricoxa* Thomson, 1894; *H. thomsoni* Schmiedeknecht, 1913). Russia: **EP** (N, NW, C), **WS** (TM), **ES** (IR, YA, ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE).
- Hadrodactylus flavifrons** (Fabricius, 1798) [Ophion] (*Ichneumon flavifrons* auct.). Parasitoid of *Dolerus nigratus* Müll. Russia: **WS** (TM). – Europe (WE, NE, SE, EE).
- Hadrodactylus flavofacialis** Horstmann, 2000. Parasitoid of *Dolerus nigratus* Müll. Russia: **EP** (NW, S, NC, CR), **WS** (TM, TK). – Europe (WE, NE, SE, EE).
- Hadrodactylus fugax** (Gravenhorst, 1829) [Mesoleptus] (*Mesoleptus ventralis* Curtis, 1837; *M. marginatus* Bridgmann, 1886; *M. alticola* Strobl, 1903; *Hadrodactylus branderi* Jussila, 1967). Parasitoid of *Dolerus nigratus* Müll. Russia: **EP** (N, C, S, NC, CR), **WS** (TM). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Central Asia.
- Hadrodactylus genialis** Thomson, 1883 (*Hadrodactylus pygmaeus* Habermehl, 1925). Russia: **WS** (TM), **ES** (KR, IR, BR, YA, ZB). – Europe (WE, NE, EE), Mongolia.
- Hadrodactylus gracilipes** Thomson, 1883. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE).
- Hadrodactylus gracilis** (Stephens, 1835) [Mesoleptus]. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (IR, YA, ZB). – Europe (WE, NE, EE).
- Hadrodactylus graminicola** Idar, 1979. Russia: **EP** (NC). – Europe (WE, NE, EE), Azerbaijan.
- Hadrodactylus idari** Kasparyan et Shaw, 2009. Russia: **EP** (N, NW, C), **WS** (TM, AL), **ES** (KR), **FE** (PR). – Europe (WE, NE, EE).
- Hadrodactylus indefessus** (Gravenhorst, 1820) [Ichneumon] (*Hadrodactylus tarsator* Thomson, 1883). Russia: **EP** (N, NW), **WS** (TM), **ES** (IR, YA), **FE** (KA). – Europe (WE, NE, SE, EE), N America.
- Hadrodactylus insignis** Kriechbaumer, 1891 (*Mesoleptus varicoxa* Thomson, 1894). Russia: **EP** (N, NW), **WS** (TM), **ES** (IR, YA). – Europe (WE, NE, EE).
- Hadrodactylus larvatus** Kriechbaumer, 1891 (*Mesoleptus barbatus* Szépligeti, 1901; *Meropaches bulsanensis* Schmiedeknecht, 1913). Parasitoid of *Dolerus germanicus* Kriechb. Russia: **EP** (NW, C, CR), **WS** (TM), **ES** (KR, YA). – Europe (WE, NE, SE, EE), Azerbaijan.
- Hadrodactylus nigrifemur** Thomson, 1883. Russia: **EP** (N, NW, C, CR), **WS** (TM), **ES** (KR, IR, YA, ZB), **FE** (SA). – Europe (WE, NE, SE, EE), Canada.
- Hadrodactylus nitidus** Kasparyan, 2011. Russia: **ES** (BR), **FE** (PR).
- Hadrodactylus orientalis** Uchida, 1930. Russia: **FE** (SA, KU). – China, Korean Peninsula, Japan.
- Hadrodactylus paludicola** (Holmgren, 1856) [Mesoleptus] (*Hadrodactylus subalpinus* Schmiedeknecht, 1913; *H. orientalis* var. *sachalinensis* Uchida, 1930). Russia: **EP** (N, NW, C), **UR**, **ES** (IR). – Europe (WE, NE, SE, EE).
- Hadrodactylus semirufus** (Holmgren, 1858) (*Mesoleptus erythropus* Kriechbaumer, 1891; *Hadrodactylus pubescens* Ulbricht, 1922). Parasitoid of *Dolerus asper* Zaddach. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (KR, IR, BR, YA, ZB), **FE** (KH, SA). – Europe (WE, NE, EE).
- Hadrodactylus sibiricus** Kasparyan, 2011. Russia: **ES** (KR, IR, BR), **FE** (KA).
- Hadrodactylus spiraculator** Idar, 1979. Russia: **EP** (NW, C, S, NC), **WS** (KM). – Europe (WE, NE).
- Hadrodactylus taigensis** Kasparyan, 2011. Russia: **WS** (TK), **ES** (BR), **FE** (KH, PR, SA, MG).
- Hadrodactylus tiphæ** (Geoffroy, 1785) [Ichneumon] (*Ichneumon luteolus* Gmelin, 1790; *Hadrodactylus laticeps* Thomson, 1883). Russia: **EP** (NW, C, S, NC). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey.
- Hadrodactylus villosulus** Thomson, 1883. Russia: **EP** (C, S). – Europe (WE, NE, EE).
- Hadrodactylus vulneratus** (Zetterstedt, 1838). Russia: **EP** (N, NW, C), **WS** (TM), **ES** (IR, ZB), **FE** (MG). – Europe (WE, NE, EE).
- HYPAMBLYS** Foerster, 1869. Type species: *Mesoleius transfuga* Holmgren, 1857 (= *Tryphon albopictus* Gravenhorst, 1829). Predominantly Holarctic genus. Parasitoids of the tribe Nematini (Tenthredinidae). Number of species: World – 13, Palaearctic – 10, Russia – 6.
- Hypamblys albicruris** (Gravenhorst, 1829) [Mesoleptus]. Russia: **ES** (IR). – Europe (WE, NE, EE).
- Hypamblys albopictus** (Gravenhorst, 1829) [Tryphon] (*Mesoleius transfuga* Holmgren, 1857). Parasitoid of various Tenthredinidae. Russia: **EP** (N, NW, C, NC), **WS** (TM), **ES** (KR, YA, ZB), **FE** (KU, CH). – Europe (WE, NE, EE), Turkey, N America.

- Hypamblys auberti** Kasparyan, 2007. Russia: **EP** (N), **WS** (TM), **ES** (KR, BR, YA, ZB).
- Hypamblys innotator** Aubert, 1998. Russia: **EP** (N).
- Hypamblys muli** Kasparyan, 2007. Russia: **FE** (KH).
- Hypamblys selkup** Kasparyan, 2007. Russia: **WS** (TM).
- HYPERALLUS** Foerster, 1869. Type species: *Hyperallus caliroae* Viereck, 1911. Holarctic genus; in the Nearctic region reared from *Caliroa* spp. (Tenthredinidae). Number of species: World – 2, Palaearctic and Russia – 1.
- Hyperallus buriaticus** Kasparyan, 2007. Russia: **ES** (BR).
- HYPSANTYX** Pankuch, 1906. Type species: *Tryphon impressus* Gravenhorst, 1829 (= *Ichneumon lituratoria* Linnaeus, 1761). Monotypic Palaearctic genus. Parasitoids of various Diprionidae on pines.
- Hypsantyx lituratoria** (Linnaeus, 1761) [Ichneumon] (*Tryphon impressus* Gravenhorst, 1829). Parasitoid of *Diprion pini* L., *D. simile* Hartig, *Gilpinia* spp., *Microdiprion palipes* Fll. and *Neodiprion sertifer* Geoffr. Russia: **EP** (N, NW, C), **WS** (OM), **ES** (YA). – Europe (WE, NE, EE).
- MESOLEPTIDEA** Viereck, 1912. Type species: *Mesoleptus cingulatus* Gravenhorst, 1829. Holarctic genus. Number of species: World – about 15, Palaearctic – 10, Russia – 5.
- Mesoleptidea cingulata** (Gravenhorst, 1829) [Mesoleptus] (*Ichneumon bidens* Fabricius, 1798, nomen oblitum; *I. bidentor* Thunberg, 1822; *Mesoleptus pectoralis* Gravenhorst, 1829; *M. submarginatus* Stephens, 1835; *M. undecimnotata* Desvignes, 1856; *M. amoena* Holmgren, 1857). Parasitoid of *Rhogogaster chlorosoma* Benson and *Rh. viridis* L. (Tenthredinidae). Russia: **EP** (N, NW, C, E, NC, CR). – Europe (WE, NE, SE, EE), China (NE).
- Mesoleptidea hilaris** (Gravenhorst, 1829) [Mesoleptus]. Russia: **EP** (NW, C), **UR**. – Europe (WE, NE, SE, EE).
- Mesoleptidea prosoleuca** (Gravenhorst, 1820) [Ichneumon] (*Mesoleptus neglectus* Holmgren, 1857; *M. holmgreni* Thomson, 1893). Parasitoid of *Euura atra* L., *Siobla sturmii* Klug, *Tenthredo ferruginea* Schr. and *T. scrophulariae* L. (Tenthredinidae). Russia: **EP** (NW, C, NC), **ES** (IR). – Europe (WE, NE, SE, EE), Georgia, Turkey.
- Mesoleptidea stalii** (Holmgren, 1858) [Mesoleptus]. Parasitoid of *Tenthredo livida* L., *T. mandibularis* F. and *T. mioceras* Enslin (Tenthredinidae). Russia: **EP** (N, NW), **FE** (KA). – Europe (WE, NE, EE).
- Mesoleptidea sylvatica** (Woldstedt, 1874) [Mesoleptus]. Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- PANTORHAESTES** Foerster, 1869. Type species: *Tryphon xanthostomus* Gravenhorst, 1829. Holarctic genus. Number of species: World – 3, Palaearctic – 2, Russia – 1.
- Pantorhaestes xanthostomus** (Gravenhorst, 1829) [Tryphon] (*Mesoleptus rufocinctus* Gravenhorst, 1829; *Tryphon ochrostomus* Gravenhorst, 1829; *Euryproctus hilarellus* Holmgren, 1858; *Dialges intensicolor* Heinrich, 1953). Parasitoid of *Ametastegia glabrata* Fll. and *Pachynematus extensicornis* Norton (Tenthredinidae). Russia: **EP** (N, NW, C, E, NC), **WS** (TM), **ES** (KR, YA, ZB), **FE** (KA). – Europe (WE, NE, EE), N America.
- PHOBETES** Foerster, 1869 (*Ipoctonus* Foerster, 1869; *Philotymma* Foerster, 1869; *Griphodes* Kriechbaumer, 1894). Type species: *Tryphon fuscicornis* Holmgren, 1856. Predominantly Holarctic genus with several species in the Oriental and Neotropical regions. Known as parasitoids of various Tenthredinidae; also recorded from Cimbicidae. Number of species: World – 43, Palaearctic – about 30, Russia – 12.
- Phobetes atomator** (Müller, 1776) [Ichneumon]. Parasitoid of *Selandria* spp. (Tenthredinidae). Russia: **EP** (NW, C, CR), **ES** (YA). – Europe (WE, NE, SE, EE).
- Phobetes cerinostomus** (Gravenhorst, 1829) [Mesoleptus]. Russia: **ES** (IR). – Europe (WE, NE, SE, EE), Abkhazia.
- Phobetes chrysostomus** (Gravenhorst, 1820) [Ichneumon]. Parasitoid of *Ametastegia glabrata* Fll. (Tenthredinidae). Russia: **EP** (C, S), **ES** (KR, BR). – Europe (WE, NE, SE, EE).
- Phobetes dauricus** Kasparyan, 2007. Russia: **ES** (ZB).
- Phobetes khualaza** Kasparyan, 2007. Russia: **FE** (PR).
- Phobetes leptocerus** (Gravenhorst, 1820) [Ichneumon]. Parasitoid of *Aglaostigma fulvipes* Scop. (Tenthredinidae). Russia: **EP** (N, NW, C, E, S, NC), **ES** (ZB). – Europe (WE, NE, SE, EE).
- Phobetes nigriceps** (Gravenhorst, 1829) [Tryphon] (*Mesoleptus praetermissus* Woldstedt, 1874; *Phobetus latipes* Thomson, 1894; *Mesoleptus ogasawarai* Uchida, 1930; *M. shibuyai* Uchida, 1930). Parasitoid of *Cimbex femorata* L., *Pseudoclavellaria amerinae* L. and *Trichiosoma* spp. (Cimbicidae). Russia: **EP** (NW, C, S), **ES** (ZB), **FE** (PR, SA, KA). – Europe (WE, NE, SE, EE), Japan (Hok, Hon).
- Phobetes nigriiventris** (Teunissen, 1953) [Ipoctonus]. Russia: ? **EP** (N), **ES** (ZB). – Europe (WE).
- Phobetes petiolator** Kasparyan, 2007. Russia: **FE** (PR).
- Phobetes platycampi** Kasparyan, 2007. Parasitoid of *Platycampus* sp. (Tenthredinidae). Russia: **ES** (ZB), **FE** (KH, PR).
- Phobetes rufipes** (Thomson, 1894) [Phobetus]. Russia: **EP** (N), **FE** (PR, SA). – Europe (WE, NE, EE).
- SYNDIPNUS** Foerster, 1869 (*Polypystis* Foerster, 1869; *Tlemon* Foerster, 1869; *Dicksonia* Holmgren, 1880; *Neastus* Holmgren, 1883; *Anaglymmus* Roman, 1914). Type species: *Euryproctus macrocerus* Thomson, 1883. Holarctic genus. Number of species: World – 35, Palaearctic – 23, Russia – 13.
- Syndipnus abbreviatus** Roman, 1909. Russia: **EP** (NW). – Europe (NE, EE).
- Syndipnus alutaceus** (Holmgren, 1857) [Trematopygus]. Parasitoid of *Amauronematus fallax* Lep. and *Euura*

- atra* L. (Tenthredinidae). Russia: **EP** (NW), **ES** (ZB), **FE** (KH). – Europe (WE, NE, EE).
- Syndipnus angulatus** Roman, 1909. Russia: **EP** (N). – Europe (WE, NE, EE).
- Syndipnus arcticus** (Holmgren, 1880) [Dicksonia] (*Syndipnus nigriventris* Roman, 1909). Russia: **EP** (N). – Europe (NE).
- Syndipnus atricornis** (Thomson, 1883) [Euryproctus]. Russia: **EP** (N), **UR**. – Europe (WE, NE, EE).
- Syndipnus birulai** Roman, 1926. Russia: **ES** (YA).
- Syndipnus conformis** (Holmgren, 1857) [Trematopygus] (*Syndipnus rufiventris* Habermehl, 1923). Russia: **EP** (N, C, CR). – Europe (WE, NE, EE), Canada.
- Syndipnus laeviceps** (Holmgren, 1883) [Neastus]. Russia: **EP** (N).
- Syndipnus lateralis** (Gravenhorst, 1829) [Tryphon] (*Syndipnus punctiscuta* Thomson, 1894). Parasitoid of *Pachynematus extensicornis* Norton and *P. vagus* F. (Tenthredinidae). Russia: **EP** (N, NW, C, E). – Europe (WE, NE, EE), N America.
- Syndipnus macrocerus** (Thomson, 1883) [Euryproctus]. Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Syndipnus pannicularius** (Holmgren, 1857). Russia: **EP** (NW). – Europe (WE, NE), USA (Alaska).
- Syndipnus saotis** Kasparyan, 2003. Russia: **EP** (N), **ES** (YA).
- Syndipnus sternoleucus** (Gravenhorst, 1829) [Mesoleptus] (*Syndipnus spectralis* Thomson, 1894). Russia: **EP** (NW). – Europe (WE, NE, EE).
- SYNODITES** Foerster, 1869 (*Camponastes* Foerster, 1869; *Lathrophagus* Foerster, 1869; *Listrota* Foerster, 1869; *Polyterus* Foerster, 1869; *Sarcorychus* Foerster, 1869; *Sychnoportus* Foerster, 1869; *Zootrephes* Foerster, 1869; *Zootrephus* Thomson, 1890; *Synodytes* Thomson, 1893; *Anaglymmus* Roman, 1914). Type species: *Tryphon assimilis* Holmgren, 1858 (= *Tryphon notatus* Gravenhorst, 1829). Holarctic genus. Mainly parasitoids of the genus *Nematus* Panzer, also recorded from *Pristiphora* Latreille (Tenthredinidae). Number of species: World – 25, Palaearctic – 21, Russia – 12.
- Synodites alpigenerator** Aubert, 1998. Russia: **ES** (TU). – Europe (WE).
- Synodites amoenus** (Roman, 1909) [Syndipnus] (*Syndipnus alpinus* Roman, 1909). Russia: **EP** (N). – Europe (WE, NE).
- Synodites brevisculus** (Fonscolombe, 1849) [Tryphon] (*Mesoleius buccatus* Holmgren, 1857). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Synodites carinatus** (Holmgren, 1857) [Mesoleius]. Parasitoid of *Nematus umbratus* Thoms. Russia: **EP** (NW, C), **ES** (ZB). – Europe (WE, NE, EE).
- Synodites discolor** (Holmgren, 1857) [Trematopygus] (*Spudaeus facialis* Thomson, 1894; *Anaglymmus incisus* Roman, 1914). Parasitoid of *Pristiphora alnivora* Hartig. Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- Synodites fasciellus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (NW), **FE** (KH, PR). – Europe (WE, NE, EE).
- Synodites hilaris** (Woldstedt, 1880) [Bassus]. Russia: **ES** (IR, YA). – Europe (EE).
- Synodites leucopygus** (Holmgren, 1869) [Mesoleius]. Parasitoid of *Nematus arcticus* Holmgren. Russia: **EP** (N). – Europe (WE, NE).
- Synodites lineiger** (Thomson, 1894) [Syndipnus]. Parasitoid of *Amauronematus distinguendus* Enslin, *Nematus coeruleocarpus* Hartig and *N. cognata* Foerster, 1854. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Synodites notatus** (Gravenhorst, 1829) [Tryphon] (*Tryphon bimaculatus* Desvignes, 1856; *T. assimilis* Holmgren, 1858; *Polyblastus aberrans* Brischke, 1871; *Ipoctonus hungaricus* Kiss, 1924). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE).
- Synodites parviceps** (Thomson, 1894) [Syndipnus]. Russia: **EP** (N). – Europe (NE).
- SYNOMELIX** Foerster, 1869. Type species: *Synomelix sieboldi* Kriechbaumer, 1897. Holarctic genus. Parasitoids of the tribe Nematini (Tenthredinidae). Number of species: World – 7, Palaearctic and Russia – 3.
- Synomelix albipes** (Gravenhorst, 1829) [Tryphon] (*Synomelix sieboldi* Kriechbaumer, 1897; *S. kriegbaumeri* Schmiedeknecht, 1913). Parasitoid of *Nematus aethiops* Zaddach, *N. cognata* Lindqvist, *N. hortensis* Hartig and *Pristiphora ruficornis* Oliv. Russia: **EP** (N, C, NC, CR), **WS** (TM), **ES** (TU, KR, IR, YA, ZB), **FE** (KA). – Europe (WE, NE, EE), Azerbaijan, Turkey, Uzbekistan.
- Synomelix faciator** Idar, 1983. Parasitoid of *Pristiphora cincta* Newm. Russia: **EP** (N, NW, C, NC), **WS** (TM), **ES** (KR, IR, YA, ZB). – Europe (WE, NE, SE, EE).
- Synomelix perfida** (Woldstedt, 1874) [Tryphon] (*Syndipnus curvulus* Thomson, 1894). Russia: **EP** (N, NW), **WS** (TM), **ES** (YA). – Europe (WE, NE, EE).
- ZEMIOPHORA** Foerster, 1869 (*Zemiophorus* Thomson, 1893). Monotypic Western Palaearctic genus. Parasitoids of families Diprionidae and Tenthredinidae.
- Zemiophora scutulata** (Hartig, 1838) [Tryphon] (*Mesoleius brischkei* Holmgren, 1871; *Otlophorus nobilis* Habermehl, 1909). Russia: **EP** (N, C), **UR**, **WS** (TM). – Europe (WE, NE, SE, EE).

Tribe MESOLEIINI

Holarctic tribe. Number of taxa: World – 25 genera and 568 species, Palaearctic – 24/462, Russia – 22/222.

ALCOCHERA Foerster, 1869. Type species: *Mesoleius nikkoensis* Uchida, 1930. Palaearctic genus. Number of species: World – 5, Palaearctic – 3, Russia – 1.

Alcochera flavipes (Gravenhorst, 1829) [Tryphon]. ? Russia: **EP** (NW). – Europe (WE, EE).

- ALEXETER** Foerster, 1869. Type species: *Mesoleptus ruficornis* Gravenhorst, 1829. Predominantly Holarctic genus with several species in Central America. Parasitoids of various Tenthredinidae. Number of species: World – about 30, Palaearctic – 22, Russia – 9.
- Alexeter coxalis** (Brischke, 1871) [Mesoleptus]. Russia: **FE** (KA). – Europe (WE, NE, SE, EE).
- Alexeter daisetsuzanus** Uchida, 1930. Russia: **FE** (SA). – Japan.
- Alexeter fallax** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, C). – Europe (WE, NE, EE), Georgia, Mongolia.
- Alexeter gracilentus** (Holmgren, 1857) [Mesoleptus]. Russia: **EP** (N), **FE** (SA, KA). – Europe (WE, NE, EE).
- Alexeter multicolor** (Gravenhorst, 1829) [Tryphon] (*Mesoleius dives* Holmgren, 1857; *M. napaeus* Holmgren, 1857; *M. transsylvanicus* Kiss, 1926). Parasitoid of *Aglaostigma fulvipes* Scop., *Nematus ferrugineus* Foerst., *Rhogogaster punctulata* Klug, *Strongylogaster mixta* Klug, *Tenthredopsis excisa* Thoms. and *T. nassata* L. Russia: **EP** (N, NW, C, S). – Europe (WE, NE, SE, EE), Azerbaijan.
- Alexeter nebulator** (Thunberg, 1824) [Ichneumon] (*Mesoleptus melanocephalus* Gravenhorst, 1829; *M. gracilipes* Curtis, 1837; *Alexeter paludicola* Hebermehl, 1922). Parasitoid of *Rhogogaster* spp. Russia: **EP** (N, NW, C, E), **ES** (IR), **FE** (KU, KA). – Europe (WE, NE, EE), Mongolia, Japan.
- Alexeter niger** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Allantus cingulatus* Scop. and *Strongylogaster* spp. Russia: **EP** (N, C), **ES** (YA), **FE** (KA). – Europe (WE, NE, SE, EE), Turkey.
- Alexeter rapidator** Aubert, 1998. Russia: **EP** (NC).
- Alexeter segmentarius** (Thunberg, 1824) [Ichneumon] (*Ichneumon fraternarius* Thunberg, 1822; *I. maxillarius* Thunberg, 1822; *I. sectator* Thunberg, 1822; *Alexeter sectator sibiricus* Kiss, 1926; *A. sibiricus* Kiss, 1926; *Mesoleptus ruficornis* Gravenhorst, 1829; *Alexeter rufopetiolatus* Kiss, 1933; *Tryphon mutator* Zetterstedt, 1838; *Mesoleptus comptus* Holmgren, 1857; *M. lugubris* Woldstedt, 1874). Parasitoid of *Pachyprotasis simulans* Klug. Russia: **EP** (N, NW, C, NC), **ES** (IR), **FE** (KH, SA, KA). – Europe (WE, NE, EE), Mongolia, China.
- ANONCUS** Townes, 1970. Type species: *Mesoleius striatus* Davis, 1897. Holarctic genus. Number of species: World – 20, Palaearctic – 16, Russia – 8.
- Anoncus bipunctator** Kasparyan, 2019 (*Mesoleius bipunctatus* Brischke, 1892, nom. praecox., nec Brischke, 1871). Russia: **EP** (C, NC). – Europe (WE, NE, EE).
- Anoncus borealis** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, NW). – Europe (WE, NE).
- Anoncus gracilicornis** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (NW, C). – Europe (WE, NE, EE).
- Anoncus linitus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- Anoncus marginellus** (Gravenhorst, 1829) [Tryphon] (*Mesoleius sanguinosus* Holmgren, 1857; *M. facetus* Holmgren, 1876). Parasitoid of *Athalia spinarum* F. (Tenthredinidae). Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- Anoncus simulans** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N). – Europe (NE).
- Anoncus sincerus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (NW). – Europe (NE, SE, EE).
- Anoncus sobrinus** (Holmgren, 1876) [Mesoleius]. Russia: **EP** (NW, C, E), **ES** (YA). – Europe (NE).
- ARBELUS** Townes, 1970. Type species: *Mesoleius idahoensis* Davis, 1897. Holarctic genus. Number of species: World – 5, Palaearctic – 2, Russia – 1.
- Arbelus sanguinipes** (Thomson, 1894) [Spudaeus]. Russia: **EP** (N, NW, C). – Europe (WE, NE, EE).
- AZELUS** Foerster, 1869 (*Epachthes* Foerster, 1869; *Paraplesius* Foerster, 1869). Type species: *Ichneumon erythropalpus* Gmelin, 1790. Monotypic Palaearctic genus. Parasitoids of sawflies from subfamily Dolerinae (Tenthredinidae).
- Azelus erythropalpus** (Gmelin, 1790) [Ichneumon]. Parasitoid of *Dolerus gonager* F., *D. pratorum* Fll. and *D. vestigialis* Klug. Russia: **EP** (N, NW, C, E, NC), **ES** (IR). – Europe (WE, NE, SE, EE), Mongolia.
- BARYTARBES** Foerster, 1869 (*Apholium* Townes, 1970). Type species: *Tryphon colon* Gravenhorst, 1829. Holarctic genus. Number of species: World – 19, Palaearctic – 16, Russia – 5.
- Barytarbes adpropinquator** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Barytarbes flavicornis** (Thomson, 1892). Parasitoid of *Macrophya crassula* Klug (Tenthredininae). Russia: **EP** (C, S, NC). – Europe (WE, SE, EE), Turkey, Afghanistan.
- Barytarbes laeviusculus** (Thomson, 1883) [Mesoleius]. Russia: **EP** (NW, C). – Europe (WE, SE, EE).
- Barytarbes pectoralis** (Brischke, 1871). Russia: **EP** (NW, NC). – Europe (WE, SE, EE).
- Barytarbes superbus** Schmiedeknecht, 1914. Russia: **EP** (CR). – Europe (WE, NE, SE, EE), Algeria, Turkey, Israel, Iran.
- CAMPODORUS** Foerster, 1869 (*Mesoleius* auct., part.; *Phagesorus* Foerster, 1869; *Cuboscoptes* Heinrich, 1952). Type species: *Mesoleius melanogaster* Gravenhorst, 1829. Largest genus of the subfamily distributed almost exclusively in the Holarctic region. Number of species: World – about 250, Palaearctic – about 120, Russia – 70.
- Campodorus agilis** (Brischke, 1871) [Mesoleius]. Parasitoid of *Pachyprotasis simulans* Klug (Tenthredinidae). Russia: **FE** (PR). – Europe (WE).
- Campodorus alticola** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, C, S), **WS** (TM), **ES** (KR, IR, YA, ZB). – Europe (WE, NE).

- Campodorus amictus** (Holmgren, 1857) [Mesoleius]. Parasitoid of *Pristiphora rufipes* Lep. (Tenthredinidae). Russia: **UR, ES** (KR). – Europe (WE, NE, EE).
- Campodorus arctor** Kasparyan, 2006. Russia: **ES** (YA).
- Campodorus astutus** (Holmgren, 1857) [Mesoleius]. Parasitoid of *Croesus latipes* Vill. and *Hemichroa crocea* Geoffr. (Tenthredinidae). Russia: **EP** (N), **WS** (TM), **ES** (IR, ZB). – Europe (WE, NE, EE).
- Campodorus atripes** Kasparyan, 2006. Russia: **ES** (YA).
- Campodorus atrofemorator** Kasparyan, 2006. Russia: **FE** (KH).
- Campodorus autumnalis** (Woldstedt, 1874) [Mesoleius]. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Campodorus barbator** Kasparyan, 2006. Russia: **FE** (PR).
- Campodorus belokobylskii** Kasparyan, 2005. Russia: **ES** (KR, ZB), **FE** (PR).
- Campodorus boreator** Kasparyan, 2006. Russia: **EP** (N), **WS** (TM), **ES** (YA, ZB), **FE** (PR).
- Campodorus bovei** (Holmgren, 1880) [Mesoleius]. Russia: **EP** (N), **WS** (TM), **ES** (YA).
- Campodorus caligatus** (Gravenhorst, 1829) [Tryphon] (*Tryphon nemati* Ratzeburg, 1852). Parasitoid of *Croesus latipes* Vill., *C. septentrionalis* L., *Nematus capreae* L., *Pristiphora testacea* Jur. and *Trichiocampus viminalis* Fll. (Tenthredinidae). Russia: **EP** (NW, C, NC), **ES** (IR, YA, ZB). – Europe (WE, NE, EE), Kazakhstan.
- Campodorus callidulus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (C, NC). – Europe (WE, NE, EE).
- Campodorus ciliator** Kasparyan, 2006. Russia: **WS** (TM), **ES** (BR, ZB), **FE** (PR). – Europe (NW).
- Campodorus ciliatus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N), **WS** (TM), **ES** (KR, YA, ZB).
- Campodorus circumspectus** (Holmgren, 1876) [Mesoleius]. Russia: **EP** (N), **WS** (TM), **ES** (YA), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Mongolia.
- Campodorus clypealis** (Thomson, 1894) [Mesoleius]. Russia: **EP** (N, C, NC), **ES** (ZB). – Europe (WE, NE, EE).
- Campodorus commotus** (Holmgren, 1876) [Mesoleius] (*Mesoleius perturbatus* Holmgren, 1876). Russia: **WS** (TM), **ES** (KR). – Europe (WE, NE, EE).
- Campodorus contiguus** (Roman, 1909) [Mesoleius]. Russia: **ES** (YA), **FE** (KA). – Europe (NE).
- Campodorus crassitarsus** (Uchida, 1935) [Otlophorus]. Russia: **FE** (SA).
- Campodorus dauricus** Kasparyan, 2005. Russia: **ES** (ZB), **FE** (PR).
- Campodorus dorsalis** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Georgia.
- Campodorus elegans** (Parfitt, 1882) [Mesoleius]. Parasitoid of *Pachynematus* sp. (Tenthredinidae). Russia: **ES** (YA). – Europe (WE, NE).
- Campodorus exiguus** (Holmgren, 1876). Russia: **EP** (N, NW, E), **WS** (TM), **ES** (YA). – Europe (NE).
- Campodorus flavescens** Kasparyan, 2003. Russia: **EP** (NW), **FE** (KH, PR).
- Campodorus flavicinctus** (Gmelin, 1790) [Ichneumon]. Russia: **EP** (NW), **ES** (ZB). – Europe (WE, NE, EE).
- Campodorus flavomaculatus** Kasparyan, 2005. Russia: **ES** (KR, YA).
- Campodorus genator** Kasparyan, 2006. Russia: **ES** (YA).
- Campodorus glyptus** (Thomson, 1894) [Mesoleius]. Russia: **EP** (NC), **WS** (TM), **FE** (PR). – Europe (WE).
- Campodorus haematodes** (Gravenhorst, 1829) [Tryphon] (*Mesoleius alni* Woldstedt, 1874). Parasitoid of *Eutomostethus luteiventris* Klug, *Nematinus abdominalis* Pz., *N. fuscipennis* Lep. and *N. willigkiae* Stein (Tenthredinidae). Russia: **EP** (NW, NC), **WS** (TM), **ES** (ZB). – Europe (WE, NE, SE, EE).
- Campodorus hamulus** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Mesoneura opaca* F. (Tenthredinidae). Russia: **EP** (S, NC). – Europe (WE, NE, SE, EE).
- Campodorus hyperboreus** (Holmgren, 1857) [Mesoleius]. Russia: **ES** (KR, YA). – Europe (WE, NE).
- Campodorus ignavus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- Campodorus incidens** (Thomson, 1894) [Mesoleius]. Russia: **EP** (C), **ES** (YA). – Europe (WE, NE, EE).
- Campodorus kunashiricus** Kasparyan, 2003. Russia: **FE** (KU).
- Campodorus labytnangi** Kasparyan, 2006. Russia: **EP** (N), **WS** (TM), **ES** (ZB).
- Campodorus lituratus** (Holmgren, 1857). Russia: **EP** (N). – Europe (NE, EE), Canada.
- Campodorus lobatus** (Thomson, 1894). Russia: **FE** (KA). – Europe (NE).
- Campodorus longicaudatus** Hinz, 1969 (*Ctenopelma parvator* Aubert, 1985). Russia: **ES** (YA), **FE** (CH). – Europe (NE).
- Campodorus lucidator** Kasparyan, 2006. Russia: **EP** (N).
- Campodorus luctuosus** (Holmgren, 1857). Russia: **EP** (S). – Europe (WE, NE, EE).
- Campodorus marginator** Kasparyan, 2006. Russia: **EP** (C), **ES** (KR, YA).
- Campodorus melanogaster** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, CR), **ES** (IR, YA, ZB). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan.
- Campodorus melanopygus** Kasparyan, 2006. Russia: **EP** (NW), **ES** (ZB).
- Campodorus minutator** Kasparyan, 2006. Russia: **ES** (YA).
- Campodorus mixtus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N), **ES** (YA). – Europe (WE, NE, EE).
- Campodorus mollis** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (NW, C), **ES** (YA). – Europe (WE, NE, SE).
- Campodorus monticola** (Holmgren, 1857). Russia: **ES** (YA). – Europe (WE, NE, EE).
- Campodorus mordax** Kasparyan, 2006. Russia: **ES** (KR).
- Campodorus nigriventris** Kasparyan, 2005. Russia: **EP** (NC), **UR**. – Europe (WE, NE).
- Campodorus nikandrovskii** Kasparyan, 2006. Russia: **ES** (KR).
- Campodorus obscurator** Kasparyan, 2003. Russia: **FE** (KH).

- Campodorus obtusus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (NW). – Europe (NE).
- Campodorus patagiatus** (Holmgren, 1876) [Mesoleius]. Russia: **EP** (NW), **FE** (KA). – Europe (WE, NE, EE).
- Campodorus pectinator** Kasparyan, 2003. Russia: **EP** (CR). – Europe (WE, NE, EE).
- Campodorus pequenitor** Kasparyan, 2006. Russia: **ES** (YA).
- Campodorus pervicax** (Holmgren, 1876) [Mesoleius]. Russia: **WS** (TM). – Europe (NE, EE).
- Campodorus riphaeus** Kasparyan, 2005. Russia: **EP** (N), **WS** (TM).
- Campodorus sakhalinator** Kasparyan, 2006. Russia: **FE** (SA).
- Campodorus sanguinator** Kasparyan, 2005. Russia: **WS** (TM), **ES** (YA).
- Campodorus savinskii** Kasparyan, 2003. Russia: **ES** (ZB).
- Campodorus scapularis** (Stephens, 1835) [Tryphon]. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Campodorus spurius** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, NW), **WS** (TM). – Europe (WE, NE, EE), Tunisia.
- Campodorus subarctor** Kasparyan, 2006. Russia: **WS** (TM), **ES** (YA).
- Campodorus subfasciatus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, NW, C). – Europe (WE, NE, EE).
- Campodorus suspicax** (Holmgren, 1876) [Mesoleius]. Russia: **EP** (N). – Europe (WE, NE, EE).
- Campodorus taigator** Kasparyan, 2006. Russia: **WS** (TM), **ES** (YA, ZB).
- Campodorus thalia** (Teunissen, 1953) [Mesoleius]. Russia: **EP** (N, C), **WS** (TM), **ES** (YA). – Europe (WE, NE, EE).
- Campodorus transbaikalicus** Kasparyan, 2005. Russia: **ES** (ZB).
- Campodorus tristis** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (NW). – Europe (WE, NE).
- Campodorus ussuriensis** Kasparyan, 2005. Russia: **FE** (PR).
- Campodorus variegatus** (Jurine, 1807) [Anomalon] (*Tryphon sanguicollis* Gravenhorst, 1829; *Mesoleius alpestris* Holmgren, 1876). Parasitoid of *Nematus* spp., *Phyllocolpa erythropoga* Foerster, *Pontania proxima* Lep. and *Pristiphora conjugata* Dhlb. (Tenthredinidae). Russia: **EP** (NW, C, NC). – Europe (WE, NE, EE), China.
- Campodorus vicinus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, NW), **WS** (TM). – Europe (WE, NE, EE).
- Campodorus yakutator** Kasparyan, 2006. Russia: **ES** (YA).
- HIMERTA** Foerster, 1869. Type species: *Euryproctus bisannulatus* Thomson, 1883 (= *Ichneumon defectivus* Gravenhorst, 1820). Holarctic genus. Number of species: World – 26, Palaearctic – 7, Russia – 3.
- Himerta defectiva** (Gravenhorst, 1820) [Ichneumon] (*Tryphon varicornis* Gravenhorst, 1829; *Euryproctus bisannulatus* Thomson, 1883; *Barytarbes biannulatus* Ulbricht, 1922; *Himertus ihsseni* Bauer, 1939). Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE).
- Himerta scutellaris** (Kriechbaumer, 1897) [Enoecetis]. Russia: **WS** (AL). – Europe (WE, EE), Turkey.
- Himerta sepulchralis** (Holmgren, 1876) [Mesoleius] (*Euryproctus sexannulatus* Kriechbaumer, 1891; *E. alboannulatus* Strobl, 1903). Parasitoid of *Zaraea fasciata* L. (Cimbicidae). Russia: **EP** (NC). – Europe (WE, NE, EE).
- HYPERBATUS** Foerster, 1869 (*Mesoleius* auct., part). Type species: *Mesoleius segmentator* Gravenhorst, 1829. Holarctic genus. Parasitoids of Nematini (Tenthredinidae). Number of species: World – 6, Palaearctic and Russia – 5.
- Hyperbatus aemulus** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N), **WS** (TM). – Europe (WE, NE, EE).
- Hyperbatus orbitalis** (Thomson, 1894) [Mesoleius]. Russia: **EP** (N, NW, C), **WS** (TM). – Europe (WE, NE).
- Hyperbatus segmentator** (Gravenhorst, 1829) [Mesoleius]. Parasitoid of *Craesus latipes* Vill., *C. septentrionalis* L., *Nematus melanaspis* Hartig, *N. pavidus* Lep. and *Pristiphora testacea* Jur. Russia: **EP** (NW, C, E, S), **FE** (KU). – Europe (WE, NE, SE, EE), Turkey.
- Hyperbatus sternoxanthus** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Platycampus luridiventris* Fll. Russia: **EP** (NW, C, E, S), **FE** (KU). – Europe (WE, NE, SE, EE).
- Hyperbatus subtilis** (Holmgren, 1857). Russia: **EP** (N), **WS/ES** (“Siberia”: Woldstedt, 1881). – Europe (WE, NE, EE).
- LAGAROTIS** Foerster, 1869 (*Daspletis* Foerster, 1869; *Dysantes* Foerster, 1869; *Nythophona* Foerster, 1869; *Oneista* Foerster, 1869; *Lagarotus* Thomson, 1892). Type species: *Ichneumon semicaligatus* Gravenhorst, 1820. Palaearctic genus. Number of species: World and Palaearctic – 9, Russia – 3.
- Lagarotis debitor** (Thunberg, 1822) [Ichneumon]. Parasitoid of *Arge rustica* L. (Argidae) and *Tenthredo arcuata* Forster (Tenthredinidae). Russia: **ES** (IR). – Europe (WE, NE, SE, EE), Georgia, Turkey, Iran.
- Lagarotis semicaligata** (Gravenhorst, 1820) [Ichneumon]. Parasitoid of *Athalia spinarum* L. and *Tenthredo arcuata* Forster (Tenthredinidae). Russia: **EP** (C, E), **FE** (KA). – Europe (WE, NE, EE), Georgia, Azerbaijan, Turkey.
- Lagarotis ustulata** (Holmgren, 1857) [Mesoleius]. Russia: **WS/ES** (“Siberia”: Woldstedt, 1881). – Europe (WE, NE, EE).
- LAMACHUS** Foerster, 1869 (*Adexioma* Foerster, 1869; *Zaphthora* Foerster, 1869; *Bathyglyptus* Schmiedeknecht, 1913; *Torocampus* Schmiedeknecht, 1913). Type species: *Tryphon lophyrum* Hartig, 1838 (= *Tryphon frutetorum* Hartig, 1838). Holarctic genus. Parasitoids of various Diprionidae. Number of species: World – 30, Palaearctic – 18, Russia – 5.
- Lamachus cruralis** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (CR). – Europe (WE, SE, EE).
- Lamachus dispar** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (NW). – Europe (WE, NE, EE).

- Lamachus eques** (Hartig, 1838) [Tryphon]. Russia: **EP** (N, ? NW). – Europe (WE, NE, SE, EE).
- Lamachus frutetorum** (Hartig, 1838) [Tryphon]. Russia: **EP** (NW, C). – Europe (WE, NE, EE).
- Lamachus pini** (Bridgman, 1882) [Mesoleius]. Russia: **EP** (C). – Europe (WE, NE).
- MESOLEIUS** Holmgren, 1856 (*Allocritus* Foerster, 1869; *Alfkenia* Pfankuch, 1906; *Habrodemus* Schmiedeknecht, 1913) Type species: *Tryphon aulicus* Gravenhorst, 1829. Holarctic genus. Number of species: World – 155, Palaearctic – about 140, Russia – 69.
- Mesoleius admirabilis barabashi** Kasparyan, 2000. Russia: **FE** (PR).
- Mesoleius alekhinovi** Kasparyan, 2000. Russia: **FE** (KU).
- Mesoleius ardonator** Kasparyan, 2000. Russia: **EP** (NC).
- Mesoleius arduus** Kasparyan, 2000. Russia: **FE** (KH).
- Mesoleius armillatorius** (Gravenhorst, 1807) [Ichneumon]. Russia: **EP** (N, NW, C), **ES** (KR, ZB). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia.
- Mesoleius assidus** Holmgren, 1876. Russia: **EP** (NW).
- Mesoleius ater** Kasparyan, 2001. Russia: **FE** (KH).
- Mesoleius atratus** Kasparyan, 2000. Russia: **FE** (KH).
- Mesoleius aulicus** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C, NC), **WS** (TM), **ES** (BR), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Mongolia, N America.
- Mesoleius axillaris** (Stephens, 1835) [Tryphon] (*Mesoleius amabilis* Holmgren, 1857; *M. leptogaster* Holmgren, 1857; *M. tenuiventris* Holmgren, 1858; *M. erythrogaster* Holmgren, 1876). Russia: **EP** (N, NW), **WS** (TM), **ES** (KR, YA), **FE** (SA, KA). – Europe (WE, NE, EE).
- Mesoleius brevipalpis** Thomson, 1894. Russia: **EP** (N), **ES** (BR, ZB). – Europe (WE, NE).
- Mesoleius clypeator** Kasparyan, 2000. Russia: **ES** (YA).
- Mesoleius dubitator** Kasparyan, 2000. Russia: **ES** (KR), **FE** (PR).
- Mesoleius dubius** Holmgren, 1857. Russia: **EP** (C, E). – Europe (WE, NE, EE).
- Mesoleius dudinka** Kasparyan, 2001. Russia: **WS** (TM), **ES** (KR, YA).
- Mesoleius effereus** Holmgren, 1876. Russia: **EP** (N). – Europe (WE, NE).
- Mesoleius euphrosine** (Teunissen, 1953) [Mesoleius] (*Mesoleius annulifer* Kasparyan, 2000). Russia: **ES** (YA, ZB), **FE** (PR). – Europe (WE).
- Mesoleius facialis** Brischke, 1878. Russia: **EP** (C). – Europe (WE, NE).
- Mesoleius faciator** Kasparyan, 2001. Russia: **ES** (ZB).
- Mesoleius filicornis** Holmgren, 1876 Parasitoid of *Athalia spinarum* F. (Tenthredinidae). – Russia: **EP** (NW, NC). – Europe (WE, NE, EE), Caucasus.
- Mesoleius frigidior** Kasparyan, 2001. Russia: **EP** (N). – Europe (NE).
- Mesoleius fulvator** Kasparyan, 2000. Russia: **FE** (KH).
- Mesoleius fuscipes** Holmgren, 1857. Russia: **FE** (KA). – Europe (WE, NE, EE).
- Mesoleius gelidor** Kasparyan, 2000. Russia: **EP** (N), **ES** (YA).
- Mesoleius geniculatus** Holmgren, 1857. Russia: **EP** (N, C), **ES** (BR, YA, ZB), **FE** (SA). – Europe (WE, NE, EE).
- Mesoleius granulatus** Kasparyan, 2000. Russia: **EP** (C), **ES** (YA).
- Mesoleius grossulariae** (Ratzeburg, 1852) [Tryphon]. Russia: **EP** (N, NW, C). – Europe (WE, NE, EE), India.
- Mesoleius hamulator** Kasparyan, 2000. Russia: **FE** (KH).
- Mesoleius hypoleucus** Teunissen, 1945. Russia: **FE** (KA). – Europe (WE).
- Mesoleius implicator** Kasparyan, 2000. Russia: **FE** (PR).
- Mesoleius infuscator** Kasparyan, 2000. Russia: **FE** (KH).
- Mesoleius intermedius** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (NW, C). – Europe (WE, NE, EE).
- Mesoleius irkutensis** Kasparyan, 2000. Russia: **ES** (IR, ZB).
- Mesoleius juvenilis** Holmgren, 1857. Russia: **EP** (N), **ES** (KR). – Europe (NE).
- Mesoleius khasura** Kasparyan, 2000. Russia: **ES** (BR).
- Mesoleius kola** Kasparyan, 2000. Russia: **EP** (N).
- Mesoleius laricis** Teunissen, 1953. Russia: **WS** (TM), **ES** (KR, IR, YA, ZB). – Europe (WE).
- Mesoleius lindemansi** Teunissen, 1953. Russia: **EP** (N), **WS** (TM), **ES** (KR, YA, ZB). – Europe (WE, NE, EE).
- Mesoleius londoko** Kasparyan, 2000. Russia: **FE** (KH).
- Mesoleius maculator** Kasparyan, 2001. Russia: **ES** (YA, ZB).
- Mesoleius melanoleucus** (Gravenhorst, 1829) [Tryphon]. Russia: **UR**, **ES** (IR, BR, YA). – Europe (WE, NE, EE).
- Mesoleius mica** Kasparyan, 2001. Russia: **FE** (KA).
- Mesoleius mollator** Kasparyan, 2000. Russia: **ES** (YA).
- Mesoleius nigrans** Kasparyan, 2001. Russia: **FE** (KU).
- Mesoleius nigromica** Kasparyan, 2001. Russia: **EP** (N), **WS** (TM), **ES** (YA). – Europe (NE).
- Mesoleius nivalis** Holmgren, 1857. Russia: **ES** (YA). – Europe (WE, NE, EE).
- Mesoleius obtusator** Kasparyan, 2001. Russia: **EP** (N). – Europe (NE).
- Mesoleius omolon** Kasparyan, 2001. Russia: **EP** (N), **FE** (MG).
- Mesoleius opticus** (Gravenhorst, 1829) [Tryphon]. Russia: **ES** (KR, ZB). – Europe (WE, NE, EE).
- Mesoleius palmeni** Woldstedt, 1874. Russia: **EP** (NW). – Europe (NE).
- Mesoleius peronatus** (Marshall, 1875) [Bassus]. Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- Mesoleius pertaesor** Kasparyan, 2001. Russia: **EP** (N), **FE** (KA). – Europe (NE).
- Mesoleius placidus** Holmgren, 1857. Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Mesoleius pyriformis** (Ratzeburg, 1852) [Tryphon] (*Mesoleius unifasciatus* Holmgren, 1857). Russia: **EP** (N, NW, C), **FE** (PR, SA, KU). – Europe (WE, NE, EE).

- Mesoleius roepkei** Teunissen, 1945. Russia: **EP** (N), **ES** (YA). – Europe (WE, NE).
- Mesoleius saami** Kasparyan, 2001. Russia: **EP** (N).
- Mesoleius seida** Kasparyan, 2000. Russia: **EP** (N).
- Mesoleius tasarensis** Kasparyan, 2001. Russia: **ES** (YA).
- Mesoleius tegulator** Kasparyan, 2001. Russia: **ES** (YA).
- Mesoleius terpeji** Kasparyan, 2001. Russia: **ES** (YA).
- Mesoleius tibialis** Holmgren, 1857. Russia: **EP** (NW), **FE** (KH). – Europe (WE, NE, SE, EE).
- Mesoleius tibiator** Kasparyan, 2000. Russia: **EP** (N), **ES** (BR, YA).
- Mesoleius tinctor** Kasparyan, 2001. Russia: **WS** (TM). – Europe (NE, SE).
- Mesoleius titarensis** Kasparyan, 2001. Russia: **ES** (YA).
- Mesoleius tixi** Kasparyan, 2001. Russia: **ES** (YA).
- Mesoleius tolmachevi** Kasparyan, 2001. Russia: **EP** (N).
- Mesoleius torpescor** Kasparyan, 2001. Russia: **ES** (YA).
- Mesoleius ussuriensis** Kasparyan, 2000. Russia: **FE** (PR).
- NEOSTROBLIA** Heinrich, 1953. Type species: *Mesoleius pseudoliturata* Stöbl, 1903. Holarctic genus. Number of species: World – 4, Palaearctic – 3, Russia – 2.
- Neostrobilia deficiens** (Morley, 1933) [Perilissus]. Russia: **EP** (N).
- Neostrobilia ruficollis** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, NW), **WS** (TM), **ES** (YA). – Europe (WE, NE).
- OTLOPHORUS** Foerster, 1869 (*Aeolometis* Foerster, 1869; *Dialges* Foerster, 1869; *Holmgrenia* Foerster, 1869; *Neales* Foerster, 1869; *Tachyporthus* Foerster, 1869; *Aelometis* Thomson, 1893; *Otlophorinus* Hincks, 1944). Type species: *Tryphon vepretorum* Gravenhorst, 1829. Holarctic genus. Parasitoids of Tenthredinidae. Number of species: World – 22, Palaearctic – 12, Russia – 2.
- Otlophorus anceps** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (NW). – Europe (WE, SE, EE).
- Otlophorus vepretorum** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N), **FE** (KA).
- PERISPUDA** Foerster, 1869 (*Genarches* Foerster, 1869; *Zaplethis* Foerster, 1869; *Perispudus* Thomson, 1888). Type species: *Mesoleptus facialis* Gravenhorst, 1829. Palaearctic genus with one species in India. Parasitoids of Cimbicidae. Number of species: World – 7, Palaearctic – 6, Russia – 2.
- Perispuda facialis** (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of *Abia sericea* L. and *Zaraea aenea* Klug. Russia: **EP** (N, C, S, CR). – Europe (WE, NE, SE, EE), Turkey.
- Perispuda sulphurata** (Gravenhorst, 1807) [Ichneumon]. Parasitoid of *Abia sericea* L. Russia: **EP** (C, E, S). – Europe (WE, NE, SE, EE), Turkey, Israel.
- PROTARCHUS** Foerster, 1869. Type species: *Tryphon rufus* Gravenhorst, 1829 (= *Ichneumon testatorius* Thunberg, 1824). Holarctic genus. Parasitoids of Cimbicidae. Number of species: World – 10, Palaearctic – 5, Russia – 3.
- Protarchus heros** (Holmgren, 1857) [Mesoleius]. Russia: **EP** (N, NW, C), **ES** (ZB), **FE** (AM). – Europe (WE, NE, EE).
- Protarchus sorbi** (Ratzeburg, 1844) [Tryphon] (*Protarchoides longipes* Cushman, 1902; *Psilosage longipes* Ashmead, 1902; *Protarchoides mandibularis* Cushman, 1924). Parasitoid of *Cimbex femorata* L., *Trichiosona betuleti* Klug and *T. sorbi* Hartig. Russia: **EP** (N, NW), **WS** (TM), **ES** (KR, ZB), **FE** (SA, KA, MG). – Europe (WE, NE, EE), N America.
- Protarchus testatorius** (Thunberg, 1824) [Ichneumon] (*Tryphon rufus* Gravenhorst, 1829). Parasitoid of *Cimbex connata* Schr., *C. rostrata* L., *Trichiosoma lucorum* L., *T. nanae* Vikberg et Viitasaari, etc. Russia: **EP** (N, NW, NC), **WS** (OM), **ES** (KR, ZB), **FE** (AM, PR, SA). – Europe (WE, NE, EE), Korean Peninsula, Japan, N America.
- RHINOTORUS** Foerster, 1869 (*Spudaea* Foerster, 1869; *Spudaeus* Thomson, 1883). Type species: *Spudaea longicornis* Schmiedeknecht, 1914. Holarctic genus. Parasitoids of Tenthredinidae. Number of species: World – 15, Palaearctic – 14, Russia – 5.
- Rhinotorus alpinus** (Roman, 1909) [Spudaea]. Russia: **EP** (N, NW). – Europe (WE, NE).
- Rhinotorus compactor** (Thunberg, 1822) [Ichneumon] (*Trematopygus atratus* Holmgren, 1857; *Polyblastus albotrochanteratus* Stöbl, 1903). Parasitoid of the sawfly genera *Cladius* Ill., *Craesus* Leach, *Nematus* Pz., etc. Russia: **EP** (NW, C), **ES** (YA). – Europe (WE, NE, EE).
- Rhinotorus leucostomus** (Gravenhorst, 1829) [Tryphon] (*Spudaeus subimpressus* Thomson, 1894). Parasitoid of *Cladius pectinicornis* Geoffr. and *Nesoselandia morio* F. Russia: **FE** (KA). – Europe (WE, NE, SE, EE).
- Rhinotorus nasutus** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Nematus lucidus* Pz. Russia: **EP** (C). – Europe (WE, NE, EE).
- Rhinotorus umbrarum** (Holmgren, 1857) [Trematopygus]. Parasitoid of *Amauronematus fallax* Lep. Russia: **ES** (YA), **FE** (KA). – Europe (WE, NE, EE).
- SAOTIS** Foerster, 1869 (*Iskarus* Kolarov, 1987). Type species: *Mesoleius brevispina* Gravenhorst, 1829. Holarctic genus. Parasitoids gall-forming Tenthredinidae on willows. Number of species: World – about 30, Palaearctic – 23, Russia – 16.
- Saotis albionis** Kasparyan, 2007. Parasitoid of *Pontopristia amentorum* Forster. Russia: **EP** (C). – Europe (WE, NE).
- Saotis bilineata** (Gravenhorst, 1829) [Tryphon] (*Mesoleius emarginatus* Thomson, 1883). Russia: **EP** (NW). – Europe (WE, NE, EE).
- Saotis caucasica** Kasparyan, 2009. Russia: **EP** (NC).
- Saotis dorsata** (Thomson, 1888) [Mesoleius]. Russia: **EP** (NW, CR), **WS** (TM), **FE** (KA). – Europe (NE, EE).

- Saotis granulator** Kasparyan et Kopelke, 2010. Parasitoid of *Pontania* spp. Russia: **EP** (NW, **ES** (YA). – Europe (NE, NE), Canada.
- Saotis heteropus** (Thomson, 1883) [Mesoleius]. Parasitoid of *Phyllocolpa* Benson. Russia: **EP** (NW), **ES** (YA). – Europe (NE), N America.
- Saotis hoeli** Roman, 1933. Russia: **EP** (N), **FE** (KA). – Greenland, Canada.
- Saotis mirabilis** Schmiedeknecht, 1914 (*Iskarus seleuciformis* Kolarov, 1987). Russia: **EP** (NW). – Europe (WE, EE).
- Saotis morleyi** Fitton, 1976 (*Saotis albiventris* Kasparyan, 2007). Parasitoid of *Phyllocolpa* spp. Russia: **EP** (N, C), **ES** (ZB), **FE** (KU). – Europe (WE, NE, EE), Canada.
- Saotis nigriscuta** (Thomson, 1888) [Mesoleius]. Parasitoid of *Phyllocolpa* spp. Russia: **EP** (N, NW), **WS** (TM). – Europe (WE, NE, EE).
- Saotis nigriventris** (Thomson, 1894) [Saotus]. Russia: **EP** (N, NW), **FE** (PR). – Europe (WE, NE, EE).
- Saotis pygidiator** Kasparyan et Kopelke, 2009. Parasitoid of *Pontania* spp. Russia: **WS** (TM), **ES** (YA, ZB). – Europe (WE, NE), N America.
- Saotis renovata** (Morley, 1911) [Mesoleius]. Parasitoid of *Phyllocolpa* spp. Russia: **FE** (PR). – Europe (WE, NE, EE), Canada.
- Saotis subarector** Kasparyan et Kopelke, 2010. Parasitoid of *Phyllocolpa* spp. Russia: **EP** (N), **ES** (YA). – Europe (NE), Canada.
- Saotis tricolor** (Thomson, 1883) [Mesoleius] (*Mesoleius liopleuris* Thomson, 1888). Parasitoid of *Phyllocolpa* spp. Russia: **EP** (NW), **ES** (ZB), **FE** (PR). – Europe (WE, NE, EE), N America.
- Saotis varicoxa** (Thomson, 1894) [Saotus]. Russia: **EP** (NW, CR), **ES** (ZB). – Europe (WE, EE).
- SCOPESES** Foerster, 1869. Type species: *Mesoleius guttiger* Holmgren, 1857. Palaearctic genus with most species in Europe. Parasitoids of Tenthredininae (including Nematinae). Number of species: World and Palaearctic – 19, Russia – 7.
- Scopesis bicolor** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Tenthredo notha* Klug. Russia: **EP** (N, NW), **FE** (KA). – Europe (WE, NE, SE, EE).
- Scopesis frontator** (Thunberg, 1822) [Ichneumon] (*Bassus rufolabris* Zetterstedt, 1838). Parasitoid of *Cladius* spp., *Macrophya* spp. and *Tenthredopsis* spp. Russia: **EP** (NW, C), **ES** (IR). – Europe (WE, NE, EE).
- Scopesis gesticulator** (Thunberg, 1822) [Ichneumon]. Russia: **EP** (N, NW, C), **ES** (IR). – Europe (WE, NE, SE, EE), N America.
- Scopesis macropus** (Thomson, 1894) [Mesoleius]. Parasitoid of *Tenthredopsis tarsata* F. Russia: **EP** (NW, C). – Europe (WE, NE, EE).
- Scopesis polita** (Holmgren, 1857) [Mesoleius]. Russia: **FE** (KA). – Europe (WE, NE, EE).
- Scopesis sachalinensis** (Uchida, 1930) [Scopesus]. Russia: **FE** (SA).
- Scopesis tegularis** (Thomson, 1894) [Mesoleius]. Russia: **FE** (KA). – Europe (WE, NE, EE).
- SEMIMESOLEIUS** Ozols, 1963. Type species: *Semimesoleius exophthalmicus* Ozols, 1963. Monotypic Palaearctic genus.
- Semimesoleius exophthalmicus** Ozols, 1963. Parasitoid of *Pristiphora erichsonii* Hartig. Russia: **WS** (TM). – Europe (WE, NE).
- SMICROLIUS** Thomson, 1893. Type species: *Syndipnus parvicalcar* Thomson, 1894. Monotypic European genus.
- Smicrolus parvicalcar** (Thomson, 1894) [Syndipnus]. Russia: **EP** (NW). – Europe (WE, NE).
- Tribe PERILISSINI
- The tribe is distributed almost worldwide (except Australia). Parasitoids of sawfly families Cimbicidae, Diprionidae and Tenthredinidae. Number of taxa: World – 25 genera and 267 species, Palaearctic – 16/about 160, Russia – 12/57.
- ABSYRTUS** Holmgren, 1859. Type species: *Absyrtus luteus* Holmgren, 1859. Number of species: World – 6, Palaearctic – 3, Russia – 1.
- Absyrtus vicinator** (Thunberg, 1824) [Ichneumon]. Parasitoid of *Tenthredo rubricoxis* Enslin (Tenthredinidae). Russia: **EP** (N, NW, C), **FE** (KU, KA). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Japan.
- BREMIELLA** Dalla Torre, 1901 (*Bremia* Kriechbaumer, 1890, nom. praeocc., nec Rondani, 1860). Type species: *Bremia pulchella* Kriechbaumer, 1890. Monotypic European genus.
- Bremiella pulchella** (Kriechbaumer, 1890) [Bremia]. Russia: **EP** (C, NC). – Europe (WE, EE), N Africa, Turkey, Israel.
- LABROSSYTA** Foerster, 1869. Type species: *Ichneumon scotopterus* Gravenhorst, 1820. Western Palaearctic, Oriental and Afrotropical genus. Number of species: World – 4, Palaearctic – 2, Russia – 1.
- Labrossyta scotoptera** (Gravenhorst, 1820) [Ichneumon]. Russia: **EP** (C, NC, CR). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey.
- LATHIPONUS** Foerster, 1869. Type species: *Mesoleius pulcherrimus* Thomson, 1888 (= *Eclytus semiluctuosus* Vollenhoven, 1878). Monotypic Western Palaearctic genus.
- Lathiponus semiluctuosus** (Vollenhoven, 1878) [Eclytus] (*Bassus frigidus* Woldstedt, 1874, nom. praeocc., nec Cresson, 1868; *Perilissus bicolor* Brischke, 1878; *Mesoleius pulcherrimus* Thomson, 1888). Parasitoid of *Nematus* spp.

- (Tenthredinidae). Russia: **EP** (N, NW), **UR**, **ES** (KR, IR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE).
- LATHROLESTES** Foerster, 1869 (*Camporychus* Foerster, 1869; *Ecclinops* Foerster, 1869; *Homalomma* Foerster, 1869; *Laphyroschopus* Foerster, 1869; *Lathrolestus* Thomson, 1883; *Luphyroschopus* Thomson, 1883; *Tryphonopsis* Brauns, 1898; *Ritzemabosia* Smits van Burgst, 1912; *Culmina* Benoit, 1955). Type species: *Tryphon clypeatus* Zetterstedt, 1838. Parasitoids of families Tenthredinidae (Hymenoptera) and Eriocraniidae (Lepidoptera). Number of species: World – about 100, Palaearctic – 54, Russia – 30.
- Lathrolestes anularis** Reshchikov, 2012. Russia: **FE** (PR).
- Lathrolestes bipunctatus** (Bridgman, 1886) [Grypocentrus]. Russia: **UR**, **ES** (ZB), **FE** (SA, KA). – Europe (WE, NE, EE).
- Lathrolestes buccinator** (Holmgren, 1857) [Perilissus]. Russia: **EP** (NW, C, NC), **ES** (BR), **FE** (KH, SA, KA). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Afghanistan.
- Lathrolestes caudatus** (Thomson, 1883) [Lathrolestes]. Parasitoid of *Ardis brunniventris* Hartig (Tenthredinidae). Russia: **EP** (NC), **ES** (KR, BR), **FE** (KH, PR, SA, KA). – Europe (WE, NE, EE), Uzbekistan, Kyrgyzstan, Kazakhstan, N America.
- Lathrolestes citreus** (Brischke, 1878) [Perilissus]. Russia: **EP** (N, C). – Europe (WE, NE, EE).
- Lathrolestes clypeatus** (Zetterstedt, 1838) [Tryphon]. Parasitoids of leaf-mining *Eriocrania* spp. (Eriocraniidae). Russia: **EP** (NW, S), **FE** (KH). – Europe (WE, NE, EE).
- Lathrolestes cruentocaudus** Reshchikov, 2012. Russia: **FE** (PR).
- Lathrolestes erythrocephalus** (Gravenhorst, 1829) [Tryphon] (*Perilissus horvathi* Kiss, 1926; *P. ruficeps* Kiss, 1926). Parasitoid of *Aprostema* sp. (Argidae). Russia: **EP** (NW, C, NC, CR). – Europe (WE, NE, SE, EE), Azerbaijan, Kyrgyzstan, Kazakhstan.
- Lathrolestes fumipennis** Reshchikov, 2012. Russia: **FE** (PR, SA).
- Lathrolestes kasparyani** Reshchikov, 2012. Russia: **FE** (AM).
- Lathrolestes kerzhneri** Reshchikov, 2012. Russia: **FE** (SA).
- Lathrolestes levaya** Reshchikov, 2012. Russia: **FE** (KH).
- Lathrolestes lucidulus** (Holmgren, 1857) [Perilissus]. Russia: **ES** (ZB), **FE** (KH, PR, KA). – Europe (WE, NE, EE), Turkey.
- Lathrolestes luteolator** (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of *Caliroa* spp., *Heterarthrus* spp., etc. (Tenthredinidae). Russia: **EP** (N, NW), **FE** (KH). – Europe (WE, NE, SE, EE), N America, New Zealand (introduced).
- Lathrolestes macropygus** (Holmgren, 1857) [Perilissus]. Russia: **EP** (NW), **ES** (YA, ZB), **FE** (PR, SA). – Europe (WE, NE, EE).
- Lathrolestes moravicus** (Habermehl, 1923) [Perilissus]. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Lathrolestes nigricollis** (Thomson, 1883) [Perilissus]. Parasitoid of *Fenusa* spp. (Tenthredinidae). Russia: **EP** (C), **FE** (SA). – Europe (WE, NE, EE), N America (introduced).
- Lathrolestes nigronitens** Reshchikov, 2012. Russia: **FE** (KH, PR). – Korean Peninsula.
- Lathrolestes nornae** Reshchikov, 2013. Russia: **WS** (TM), **ES** (YA). – Europe (NE).
- Lathrolestes orbitalis** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TK), **ES** (KR, IR, YA, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE).
- Lathrolestes palatynus** Reshchikov, 2012. Russia: **FE** (KH, PR).
- Lathrolestes pictilis** (Holmgren, 1857) [Perilissus]. Parasitoid of *Fenusa* spp., *Heterarthrus* spp. and *Profenusa* spp. (Tenthredinidae). Russia: **EP** (N, NW, C), **ES** (IR, BR, YA, ZB), **FE** (PR). – Europe (WE, NE, EE).
- Lathrolestes pleuralis** (Thomson, 1883) [Lathrolestes]. Russia: **EP** (N, C), **ES** (ZB), **FE** (KH, PR, SA, KA). – Europe (WE, NE, EE).
- Lathrolestes pubescens** Reshchikov, 2012. Russia: **FE** (KH).
- Lathrolestes sachalinensis** Reshchikov, 2012. Russia: **FE** (SA).
- Lathrolestes saliceti** (Roman, 1909) [Lathrolestes]. Russia: **EP** (N). – Europe (NE).
- Lathrolestes sparsus** Reshchikov, 2012. Russia: **FE** (KH, PR, SA, KA).
- Lathrolestes tolstoyi** Reshchikov, 2012. Russia: **FE** (PR).
- Lathrolestes tripunctator** (Thunberg, 1822) [Ichneumon]. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Lathrolestes verticalis** (Brischke, 1871) [Perilissus]. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).
- LOPHYROPLECTUS** Thomson, 1883. Type species: *Paniscus oblongopunctatus* Hartig, 1838. Palaearctic genus. Predominantly parasitoids of Diprionidae. Number of species: World and Palaearctic – 3, Russia – 1.
- Lophyroplectus oblongopunctatus** (Hartig, 1838) [Paniscus] (*Ichneumon luteator* Thunberg, 1822, nom. praec., nec Fabricius, 1798). Parasitoid of *Diprion pini* L., *D. simile* Klug, *Gilpinia* spp. and *Neodiprion sertifer* Geoffr. Russia: **EP** (N, NW, C, S). – Europe (WE, NE, SE, EE), N America (introduced).
- METOPHELTES** Uchida, 1932. Type species: *Metopheltes petiolaris* Uchida, 1932. Eastern Palaearctic and Oriental genus. Number of species: World – 3, Palaearctic and Russia – 1.
- Metopheltes petiolaris** Uchida, 1932. Russia: **FE** (PR). – Japan.
- OETHOPHORUS** Foerster, 1869. Type species: *Ichneumon naevius* Gmelin, 1790. Holarctic genus. Number of species: World – 9, Palaearctic – 4, Russia – 3.

- Oethophorus cornutus** Barron, 1998. Russia: **FE** (PR). – Japan.
- Oetophorus naevius** (Gmelin, 1790) [Ichneumon]. Parasitoid of *Amauronematus nigratus* Retz., *Eriocampa ovata* L., *Nematus yokohamensis* auct., *Pristiphora rufipes* Serv. and *Pteronidea ribesii* Scop. (Tenthredinidae). Russia: **EP** (N, NW, C), **FE** (KH, PR). – Europe (WE, NE, SE, EE).
- Oethophorus taiwanensis** Barron, 1998. Russia: **FE** (KH, PR). – China (SE).
- OPHELTES** Holmgren, 1859. Type species: *Ichneumon glaucopterus* Linnaeus, 1758. Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.
- Opheltes glaucopterus** (Linnaeus, 1758) [Ichneumon]. Parasitoid of Cimbicidae. Russia: **EP** (N, NW, C, E, S), **UR**, **WS** (TK), **ES** (KR), **FE** (AM, PR, SA, KA). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Turkey, Israel, China, Korean Peninsula, Japan, N America.
- PERILISSUS** Holmgren, 1857. Type species: *Ichneumon filicornis* Gravenhorst, 1820 (= *Ichneumon variator* Müller, 1776). Holarctic genus. Parasitoids of Tenthredinidae. Number of species: World – 60, Palaearctic – 25, Russia – 9.
- Perilissus banaticus** (Kiss, 1924) [Prionopoda] (*Prionopoda hungarica* Kiss, 1924; *Spanotecnus amperes* Heinrich, 1949). Russia: **UR**. – Europe (WE, EE), Turkey.
- Perilissus dissimilitor** Aubert, 1987. Parasitoid of *Allantus viennensis* Schr. Russia: **EP** (NC, CR). – Europe (WE, SE), Turkey.
- Perilissus geniculatus** (Uchida, 1928) [Astiphromma]. Russia: **FE** (KU). – Japan.
- Perilissus lutescens** Holmgren, 1857. Parasitoid of *Athalia* sp. Russia: **EP** (C, S, NC), **UR**, **WS** (TK), **ES** (YA). – Europe (WE, NE, SE, EE).
- Perilissus pallidus** (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of *Monsoma pulveratum* Retz. and *Platycampus luridiventris* Fll. Russia: **EP** (N, NW, C, E), **ES** (IR). – Europe (WE, NE, SE, EE), Turkey.
- Perilissus rufoniger** (Gravenhorst, 1820) [Ichneumon]. Parasitoid of *Pristiphora abietina* Christ and *P. erichsonii* Hartig. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (AL), **FE** (PR). – Europe (WE, NE, SE, EE), Tunisia, Azerbaijan, Turkey, Korean Peninsula, Japan.
- Perilissus sericeus** (Gravenhorst, 1829) [Mesoleptus] (*Perilissus spiniger* Thomson, 1883). Russia: **EP** (NC). – Europe (WE, SE, EE), Azerbaijan.
- Perilissus spilonotus** (Stephens, 1835) [Mesoleptus] (*Perilissus subcinctus* Holmgren, 1857; *P. dissimilis* Woldstedt, 1878; *P. thuringiacus* Schmiedeknecht, 1912). Parasitoid of *Ametastegia* spp. Russia: **EP** (NW, C, NC, CR). – Europe (WE, NE, SE, EE), Turkey, Japan.
- Perilissus variator** (Müller, 1776) [Ichneumon] (*Ichneumon filicornis* Gravenhorst, 1820; *Mesoleptus seminiger* Gravenhorst, 1829). Parasitoid of *Dolerus* sp. Russia: **EP** (N, NW, C, E), **UR**, **ES** (KR, YA), **FE** (KA). – Europe (WE, NE, SE, EE), Turkey, Japan.
- PRIOPODA** Holmgren, 1856 (*Prionopoda* Holmgren, 1857). Type species: *Ichneumon apicarius* Geoffroy, 1785. Parasitoids of Tenthredinidae. Palaearctic and Oriental genus. Number of species: World – 22, Palaearctic – about 14, Russia – 2.
- Priopoda sachalinensis** (Uchida, 1930) [Perilissus]. Russia: **FE** (SA). – China.
- SYNOECETES** Foerster, 1869. Type species: *Mesoleptus sedulus* Cresson, 1868. Holarctic genus. Number of species: World – 6, Palaearctic – 5, Russia – 1.
- Synoecetes tenuicornis** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW), **UR**, **WS** (TK), **ES** (YA). – Europe (WE, NE, EE).
- ZAPLETHOCORNIA** Schmiedeknecht, 1912. Type species: *Ichneumon procurator* Gravenhorst, 1820. Holarctic genus. Number of species: World – 10, Palaearctic – 7, Russia – 5.
- Zaplethocornia baikal** Kasparyan, 2007. Russia: **ES** (IR).
- Zaplethocornia exstinctor** Aubert, 1985. Russia: **EP** (NW), **ES** (BR, ZB). – Europe (WE).
- Zaplethocornia kasparyani** Hinz, 2000. Russia: **FE** (KH).
- Zaplethocornia procurator** (Gravenhorst, 1820) [Ichneumon]. Russia: **EP** (N, NW, C), **FE** (KH).
- Zaplethocornia robustor** Kasparyan, 2007. Russia: **FE** (PR).

Tribe PIONINI

Predominantly Holarctic tribe. Females possess a very thin ovipositor that serve for the oviposition into host egg or early instar larva. Parasitoid larva finishes its development in the host cocoon. Number of taxa: World – 18 genera and 232 species, Palaearctic – 14/180, Russia – 11/94.

ASTHENARA Foerster, 1869. Type species: *Asthenarus crassifemur* Thomson, 1889 (= *Euryproctus socius* Holmgren, 1857). Western Palaearctic and Neotropical genus. Number of species: World – 8, Palaearctic and Russia – 2.

Asthenara scabricula (Thomson, 1894) [Cataglyptus]. Russia: **EP** (NW), **ES** (IR), **FE** (KH). – Europe (WE, NE).

Asthenara socia (Holmgren, 1857) [Euryproctus] (*Asthenarus crassifemur* Thomson, 1889). Russia: **EP** (N, NW, NC), **ES** (IR), **FE** (KH, PR, KU). – Europe (WE, NE, EE).

GLYPTORHAESTUS Thomson, 1894. Type species: *Rhaestus punctatus* Thomson, 1890. Holarctic genus. Parasitoids of Tenthredinidae. Number of species: World – 10, Palaearctic – 9, Russia – 1.

Glyptorhaestus nigrifemur Hinz, 2000. Russia: **FE** (PR).

HODOSTATES Foerster, 1869. Type species: *Hodostatus brevis* Thomson, 1883. Holarctic genus. Parasitoids of

- Tenthredinidae. Number of species: World – 3, Palaearctic – 2, Russia – 1.
- Hodostates kotenkoi** Kasparyan, 2007. Russia: **FE** (KU).
- LETHADES** Davis, 1897. Type species: *Adelognathus texanus* Ashmead, 1890. Parasitoids of Nematini (Tenthredinidae). Holarctic genus. Number of species: World – 18, Palaearctic – 16, Russia – 6.
- Lethades buriator** Aubert, 1987. Russia: **ES** (ZB).
- Lethades cingulator** Hinz, 1976. Russia: **FE** (KH). – Europe (WE, NE, EE), Turkey, Korean Peninsula.
- Lethades curvispina** (Thomson, 1883) [Trematopygus] (*Tryphon alpinus* Zetterstedt, 1838). Parasitoid of *Nematus ferrugineus* Foerster and *Amauronematus* sp. Russia: **ES** (IR), **FE** (KA). – Europe (WE, NE, EE).
- Lethades lapponicus** (Holmgren, 1857) [Trematopygus]. Russia: **EP** (NW), **WS** (TM). – Europe (WE, NE).
- Lethades laricis** Hinz, 1976. Parasitoid of *Oligonematus laricis* Hartig and *Pachynematus scutellatus* Hartig. Russia: **WS** (TM), **ES** (KR). – Europe (WE, NE, EE).
- Lethades scabriculus** (Thomson, 1883) [Trematopygus]. Russia: **FE** (KA). – Europe (WE, NE, EE), Azerbaijan.
- PION** Schiødte, 1839 (*Catoglyptus* Foerster, 1855). Type species: *Mesoleptus fortipes* Gravenhorst, 1829. Palaearctic genus. Number of species: World and Palaearctic – 6, Russia – 2.
- Pion fortipes** (Gravenhorst, 1829) [Mesoleptus] (*Mesoleptus transylvanicus* Kiss, 1924; *Brischkea delusor clarus* Kiss, 1933). Parasitoid of *Arge rustica* L. (Argidae), *Tenthredopsis excisa* Thoms. and *T. litterata* Geoffr. (Tenthredinidae). Russia: **EP** (N, NW, C, E, S, NC, CR), **ES** (KR, IR), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey.
- Pion nigripes** Schiødte, 1839 (*Catoglyptus crassipes* Holmgren, 1857). Parasitoid of *Tenthredopsis nassata* L. (Tenthredinidae). Russia: **EP** (N, NW, C, NC, CR), **ES** (IR). – Europe (WE, NE, SE, EE), Turkey.
- RHAESTUS** Thomson, 1883 (*Rhaestes* Foerster, 1869, nom. praeocc., nec Gistel, 1856). Type species: *Grypocentrus rufipes* Holmgren, 1857. Palaearctic genus. Number of species: World and Palaearctic – 5, Russia – 3.
- Rhaestus lativentris** (Holmgren, 1858) [Grypocentrus]. Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- Rhaestus ophthalmicus** (Holmgren, 1857) [Grypocentrus]. Russia: **EP** (N, NW), **ES** (IR). – Europe (WE, NE, EE).
- Rhaestus rufipes** (Holmgren, 1857) [Grypocentrus]. Parasitoid of *Empria tridens* Konow (Tenthredinidae). Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- RHORUS** Foerster, 1869 (*Monoblastus* auct.; *Catoglyptus* Foerster, 1855; *Dolichoblastus* Strobl, 1903; *Cyphanza* Cameron, 1909). Type species: *Tryphon mesoxanthus* Gravenhorst, 1829 (= *Tryphon punctus* Gravenhorst, 1829). Holarctic genus. Parasitoids of Argidae, Cimbicidae, Diprionidae and Tenthredinidae. The Western Palaearctic *Rhorus neustriae* (Schrank, 1802) reared from Lepidoptera actually belongs to the braconid genus *Cotesia* Cameron, 1891 (Horstmann, 2006: 13). Number of species: World – about 135, Palaearctic – about 100, Russia – 61.
- Rhorus angulatus** (Thomson, 1888) [Monoblastus]. Russia: **EP** (N, NW, C), **UR**. – Europe (WE, NE, EE).
- Rhorus antennalis** Kasparyan, 2015. Russia: **EP** (C). – Europe (EE).
- Rhorus arkhyz** Kasparyan, 2014. Russia: **EP** (NC).
- Rhorus avacha** Kasparyan, 2014. Russia: **FE** (KA).
- Rhorus boreator** Kasparyan, 2014. Parasitoid of *Amaurone-matus* sp. and *Nematus* sp. (Tenthredinidae). Russia: **EP** (N, NW), **WS** (TM), **ES** (YA). – Europe (NE), Mongolia.
- Rhorus brunnifemur** Kasparyan, 2015. Russia: **EP** (NW, C, NC). – Europe (WE, EE).
- Rhorus carinifer** Kasparyan, 2019. Russia: **EP** (N, NW), **WS** (TM), **ES** (YA), **FE** (KA). – Europe (WE, NE, EE).
- Rhorus caucasicus** Kasparyan, 1985. Russia: **EP** (NC). – Armenia, Azerbaijan.
- Rhorus chrysopus** (Gmelin, 1790) [Ichneumon] (*Monoblastus caproni* Bridgman, 1882). Parasitoid of *Aglaostigma fulvipes* Scop., *Macrophya albicincta* Schr., *M. alboannulata* Costa, *Pachyprotasis simulans* Klug and *Tenthredo rubricoxis* Enslin (Tenthredinidae). Russia: **EP** (NW, C, NC), **ES** (ZB). – Europe (WE, NE, EE), Armenia, Azerbaijan.
- Rhorus chrysopygus** (Roman, 1909) [Monoblastus]. Parasitoid of *Larinematus imperfectus* Zaddach et Brischke, *Pristiphora abietina* Christ (Tenthredinidae) and *Diprion pini* L. (Diprionidae). Russia: **EP** (N), **WS** (TM), **ES** (YA). – Europe (WE, NE, EE).
- Rhorus dauricus** Kasparyan, 2012. Russia: **ES** (IR, ZB), **FE** (SA).
- Rhorus dentator** Kasparyan, 2012. Russia: **FE** (KH).
- Rhorus ermolenkoi** Kasparyan, 2012. Russia: **FE** (KU).
- Rhorus erranator** Kasparyan, 2012. Russia: **FE** (PR, KU).
- Rhorus eurus** Kasparyan, 2012. Russia: **FE** (PR, KU).
- Rhorus exstirpatorius** (Gravenhorst, 1829) [Tryphon] (*Polyblastus laevigatus* Holmgren, 1856). Parasitoid of various Tenthredinidae and *Trichiosoma* sp. (Cimbicidae). Russia: **EP** (NW, C, E, NC). – Europe (WE, NE, EE).
- Rhorus fasciatus** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (NC). – Europe (WE, SE, EE).
- Rhorus femoralis** (Holmgren, 1857) [Polyblastus]. Russia: **EP** (N, C), **WS** (TM), **ES** (KR). – Europe (WE, NE, SE).
- Rhorus humalai** Kasparyan, 2014. Russia: **EP** (N, NW).
- Rhorus intermedius** Kasparyan, 2012. Russia: **FE** (KH, PR).
- Rhorus jaroslavlensis** Kasparyan, 2015. Russia: **EP** (C). – Europe (NE).
- Rhorus kamtshaticus** Kasparyan, 2012. Russia: **FE** (KA).
- Rhorus khasura** Kasparyan, 2012. Russia: **ES** (BR).
- Rhorus kirga** Kasparyan, 2012. Russia: **FE** (KH).
- Rhorus kozyrevski** Kasparyan, 2012. Russia: **FE** (KA).

- Rhorus kunashiri** Kasparyan, 2012. Russia: **FE** (KU).
- Rhorus laophilus** (Heinrich, 1953) [Cyphanza]. Russia: **UR**. – Europe (WE), Mongolia.
- Rhorus lapponicus** (Roman, 1909) [Monoblastus] (*Monoblastus abnormiceps* Roman, 1909). Parasitoid of *Pristiphora erichsonii* Hartig, *P. wesmaeli* Tischbein and *Larinematus imperfectus* Zaddach et Brischke (Tenthredinidae). Russia: **EP** (N). – Europe (WE, NE, EE).
- Rhorus laticeps** Kasparyan, 2012 Russia: **ES** (YA).
- Rhorus lena** Kasparyan, 2012 Russia: **ES** (KR, YA).
- Rhorus longicornis** (Holmgren, 1858) [Monoblastus]. Russia: **EP** (N, NW, C, E, S, NC, CR). **UR**, **WS** (KM), **ES** (KS, IR, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Kazakhstan.
- Rhorus maritimus** Kasparyan, 2012. Russia: **FE** (PR).
- Rhorus melanocerus** Kasparyan, 2019. Russia: **EP** (CR).
- Rhorus melanogaster** Kasparyan, 2012. Russia: **FE** (KH, PR).
- Rhorus muli** Kasparyan, 2012. Russia: **EP** (N), **WS** (TM), **FE** (KH, PR, KU).
- Rhorus neuter** Aubert, 1988. Parasitoid of *Pachynematus montanus* Zaddach et Brischke (Tenthredinidae). Russia: **EP** (NW). – Europe (WE, EE).
- Rhorus nigrifrons** (Holmgren, 1858) [Polyblastus]. Russia: **EP** (N), **WS** (TM), **ES** (YA, ZB), **FE** (KA). – Europe (NE).
- Rhorus nigratarsis** (Hedwig, 1956) [Dolichoblastus]. Russia: **FE** (PR, SA). – Europe (WE, EE), Korean Peninsula.
- Rhorus olenek** Kasparyan, 2014. Russia: **ES** (YA).
- Rhorus palustris** (Holmgren, 1857) [Polyblastus]. Parasitoid of *Allantus cinctus* L. (Tenthredinidae). Russia: **EP** (N, C), **WS** (TM), **ES** (IR). – Europe (WE, NE, EE).
- Rhorus petropolitanus** Kasparyan, 2015. Parasitoid of *Dineura pullior* Schmidt et Walter (Tenthredinidae). Russia: **EP** (NW). – Europe (NE).
- Rhorus pristiphorae** Kasparyan, 2014. Parasitoid of *Pristiphora geniculata* Hartig (Tenthredinidae). Russia: **EP** (NW). – Europe (WE).
- Rhorus punctatissimus** Kasparyan, 2015. Parasitoid of *Cladius pectinicornis* Geoffr. (Tenthredinidae). Russia: **EP** (S, CR), **ES** (TU). – Europe (WE, EE), Uzbekistan, Kazakhstan, Mongolia.
- Rhorus punctator** Kasparyan, 2012. Russia: **FE** (PR).
- Rhorus punctus** (Gravenhorst, 1829) [Tryphon] (*Tryphon mesoxanthus* Gravenhorst, 1829; *T. scoticus* Desvignes, 1856; *Ctenopelma spectabilis* Rudow, 1882; *Rhorus conspicuus* Kriechbaumer, 1891; *Rh. spectabilis* Kriechbaumer, 1891). Parasitoid of *Cimbex* spp. and *Trichiosoma* spp. (Cimbridae). Russia: **EP** (N, NW), **UR**, **WS** (TM), **ES** (KR, IR, YA, ZB), **FE** (KH, PR, KA). – Europe (WE, NE, EE).
- Rhorus ribesii** Kasparyan, 2015. Parasitoid of *Nematus leucotrochus* Hartig and *N. ribesii* Scop. (Tenthredinidae). Russia: **ES** (IR, YA).
- Rhorus robustus** Kasparyan, 2012. Russia: **WS** (TM), **FE** (PR). – Europe (WE, NE).
- Rhorus romani** Kasparyan, 2014. Russia: **EP** (N, NW, C).
- Rhorus scapulator** Kasparyan, 2012 Russia: **FE** (PR).
- Rhorus sakha** Kasparyan, 2015. Russia: **ES** (YA).
- Rhorus stentor** Kasparyan, 2012. Russia: **FE** (KH).
- Rhorus subfasciatus** (Stephens, 1835). Russia: **EP** (C), **WS** (TM). – Europe (WE, NE, SE, EE).
- Rhorus substitutor** (Thunberg, 1824) [Ichneumon] (*Tryphon haemorrhoeus* Hartig, 1838; *Monoblastus erythropygus* Holmgren, 1858). Parasitoid of *Diprion pini* L., *Neodiprion sertifer* Geoffr., *Gilpinia pallida* Klug, *Macrodiprion nemoralis* Enslin and *Microdiprion pallipes* Fll. (Diprionidae). Russia: **EP** (N, NW, C), **ES** (KR, YA). – Europe (WE, NE, EE), Kazakhstan.
- Rhorus suomi** Kasparyan, 2015. Russia: **EP** (NW). – Europe (NE).
- Rhorus tibiator** Kasparyan, 2012. Russia: **FE** (KH, PR).
- Rhorus tinctor** Kasparyan, 2012. Russia: **WS** (TM). – Europe (NE).
- Rhorus xanthopygus** Kasparyan, 2014. Parasitoid of *Pristiphora gerula* Konow (Tenthredinidae). Russia: **EP** (NW, C), **WS** (TM), **ES** (YA). – Europe (WE).
- Rhorus zinovjevi** Kasparyan, 2012. Parasitoid of *Phyllocolpa leucosticta* Hartig (Tenthredinidae). Russia: **EP** (NW).
- SYMPHERTA** Foerster, 1869 (*Stiphrosomus* Foerster, 1869). Type species: *Tryphon burrus* Cresson, 1868. Parasitoids of Tenthredinidae. Holarctic genus. Number of species: World – 28, Palaearctic – 24, Russia – 18.
- Sympherta antilope antilope** (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of *Macrophya* spp. and *Pachyprotasis* sp. Russia: **EP** (N, NC), **ES** (IR), **FE** (PR, SA, KU, KA). – China (SW), Japan (Hok).
- Sympherta antilope sibirica** Hinz, 1991. Russia: **FE** (KH). – Japan.
- Sympherta canaliculata** (Thomson, 1893) [Catoglyptus]. Russia: **EP** (NC), **UR**. – Europe (WE, SE, EE).
- Sympherta facialis** (Hellén, 1940) [Stiphrosomus]. Russia: **FE** (PR, KU, KA). – Europe (WE, NE, SE), Japan.
- Sympherta factor** Hinz, 1991. “Russia” (Hinz, 1991). – China (SW).
- Sympherta foveolator** (Holmgren, 1856) [Mesoleptus]. Parasitoid of *Rhogogaster* spp. (Tenthredinidae). Russia: **EP** (N, NW, C, S, NC, CR), **UR**, **ES** (IR), **FE** (KH). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia.
- Sympherta irkutski** Hinz, 1991. Russia: **ES** (IR, BR).
- Sympherta kasparyani** Hinz, 1991 (*Sympherta kasparyani sachalini* Hinz, 1991). Russia: **ES** (IR, YA, ZB), **FE** (KH, PR, SA, KU, KA). – Japan.
- Sympherta montana** (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of *Tenthredo rubricoxis* Enslin. Russia: **EP** (C). – Europe (WE, NE, EE).
- Sympherta nigritor** Hinz, 1991. Russia: **FE** (KU). – Japan (Hon).
- Sympherta obligator** (Thunberg, 1822) [Ichneumon] (*Ichneumon fuscicornis* Gmelin, 1790, nom. praeocc., nec Retzius, 1783). Parasitoid of *Rhogogaster punctulata* Klug. Russia:

- EP** (N, NW, C), **ES** (IR, ZB). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Kazakhstan, Mongolia.
- Sympherta sareptae** Hinz, 1991. Russia: **EP** (S).
- Sympherta splendens** (Strobl, 1903) [Cataglyptus]. Parasitoid of *Pachyprotasis antennata* Klug. Russia: **EP** (N, NW, C), **ES** (ZB), **FE** (SA). – Europe (WE, NE, EE), Azerbaijan.
- Sympherta styriaca** (Heinrich, 1953) [Stiphrosomus]. Russia: **EP** (C). – Europe (WE, EE).
- Sympherta sulcata** (Thomson, 1894) [Cataglyptus]. Russia: **EP** (N), **FE** (SA, KU). – Europe (WE, NE, EE), Japan.
- Sympherta sulcatoides** Hinz, 1991. Russia: **FE** (PR, SA, KU). – Japan (Hon).
- Sympherta tenthredinarum** Horstmann, 1999 (*Ichneumon ambulator* Thunberg, 1824, nom. praeocc., nec Müller, 1776). Parasitoid of *Tenthredo acerrima* Benson, *T. amena* Grav. and *T. notha* Klug. Russia: **EP** (N, NW, C, NC), **WS** (TK), **ES** (IR, YA, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia.
- Sympherta townesi** Hinz, 1991. Russia: **FE** (KU). – Japan (Hon).
- Sympherta ullrichi** (Tschek, 1869). Parasitoid of *Tenthredo livida* L. Russia: **EP** (N, C, E). – Europe (WE, NE, EE).
- SYNTACTUS** Foerster, 1869. Type species: *Ichneumon delusor* Linnaeus, 1758. Predominantly Palaearctic genus. Number of species: World – 7, Palaearctic – 6, Russia – 4.
- Syntactus delusor** (Linnaeus, 1758) [Ichneumon]. Russia: **EP** (N, NW, C), **ES** (KR), **FE** (PR). – Europe (WE, NE, EE), Turkey, China (NC).
- Syntactus leleji** Kasparyan, 2007. Russia: **FE** (PR).
- Syntactus minor** (Holmgren, 1857) [Cataglyptus]. Russia: **UR**, **ES** (KR, YA). – Europe (WE, NE, EE).
- Syntactus varius** (Holmgren, 1858). Russia: **EP** (N), **ES** (KR, YA). – Europe (WE, NE, EE).
- TREMATOPYGUS** Holmgren, 1857. Type species: *Trematopygus ruficornis* Holmgren, 1857 (= *Tryphon vellicans* Gravenhorst, 1829). Holarctic genus. Parasitoids of the genus *Dolerus* Jur. (Tenthredinidae: Dolerini). Number of species: World – 22, Palaearctic – about 17, Russia – 13.
- Trematopygus chabarovski** Hinz, 1986. Russia: **FE** (KH).
- Trematopygus dubitor** Hinz, 1982. Parasitoid of *Dolerus gessneri* Konow and *D. labiosus* Konow. Russia: **EP** (N, NW), **ES** (IR), **FE** (KH). – Europe (WE, NE, EE).
- Trematopygus helleni** Hinz, 1982. Russia: **ES** (YA), **FE** (KA). – Europe (NE).
- Trematopygus irkutski** Hinz, 1986. Russia: **EP** (NC), **ES** (IR, ZB), **FE** (KH).
- Trematopygus lethierryi** Thomson, 1894. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).
- Trematopygus melanocerus** (Gravenhorst, 1829) [Tryphon] (*Trematopygus kriechebaumeri* Thomson, 1894; *T. romani* Heinrich, 1929). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TM), **ES** (IR), **FE** (KA). – Europe (WE, NE, SE, EE).
- Trematopygus micrator** Hinz, 1986. Russia: **ES** (IR).
- Trematopygus nigricornis** Holmgren, 1857 (*Ichneumon dictator* Thunberg, 1822, nom. praeocc., nec Geoffrey, 1785). Parasitoid of *Dolerus nigratus* Müll. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Trematopygus ruficornis** (Zetterstedt, 1838) [Bassus] (*Trematopygus niger* Holmgren, 1857; *Mesoleius kiotoensis* Uchida, 1932). Parasitoid of *Dolerus eglanteriae* F. Russia: **EP** (NW), **ES** (IR, YA). – Europe (WE, NE, EE), Japan.
- Trematopygus spiniger** Hinz, 1976. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Trematopygus triangulator** Aubert, 1981. Russia: **EP** (NC, CR). – Turkey, Israel, Turkmenistan.
- Trematopygus vellicans vellicans** (Gravenhorst, 1829) [Tryphon] (*Trematopygus ruficornis* Holmgren, 1857). Parasitoid of *Dolerus genucinctus* Zaddach and *D. vestigialis* Klug. Russia: **EP** (NW, C), **UR**, **ES** (KR, IR, YA), **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Turkey.
- Trematopygus vellicator** Hinz, 1986. Russia: **FE** (SA).
- Tribe SCOLOBATINI
- The tribe comprises 5 genera; only one is known from Russia.
- SCOLOBATES** Gravenhorst, 1829. Type species: *Scolobates crassitarsus* Gravenhorst, 1829 (= *Ichneumon auriculatus* Fabricius, 1804). Palaearctic and Oriental genus. Number of species: World – 13, Palaearctic – 12, Russia – 6.
- Scolobates auriculatus** (Fabricius, 1804) [Ichneumon] (*Ichneumon auriculatus* Thunberg, 1822; *I. elevator* Thunberg, 1822; *Scolobates crassitarsus* Gravenhorst, 1829; *S. hylotomae* Kriechbaumer, 1877; *Prionopoda canadensis* Harrington, 1892; *Scolobates niger* Roman, 1917; *S. nigrifacies* Teunissen, 1953). Parasitoid of *Arge* spp. (Argidae). Russia: **EP** (N, NW, C, E, NC), **ES** (IR, YA, ZB), **FE** (AM, PR, SA, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Kazakhstan, N America, India.
- Scolobates fennicus** Schmiedeknecht, 1912. Russia: **EP** (NW). – Europe (NE).
- Scolobates nigriabdominalis** Uchida, 1952. Russia: **FE** (PR, KU). – Japan.
- Scolobates nigripennis** Sichel, 1860 (*Aglyphus nigripennis* Giraud, 1872). Russia: **EP** (CR). – Europe (WE, SE, EE), Turkey.
- Scolobates ruficeps** Uchida, 1932. Russia: **FE** (KU). – Japan, Myanmar.
- Scolobates testaceus** Morley, 1913. Russia: **FE** (PR). – China, Japan, India.
- Tribe SELEUCINI
- SELEUCUS** Holmgren, 1860. Type species: *Seleucus cuneiformis* Holmgren, 1860. Monotypic Palaearctic genus.

Seleucus cuneiformis Holmgren, 1860 (*Seleucus exareolatus* Strobl, 1904). Parasitoid of *Blasticotoma filiceti* Klug (Blasticotomidae). Russia: **EP** (N, NW, C), **FE** (PR, SA). – Europe (WE, NE), China (NC), Korean Peninsula, Japan (Hok).

Subfamily CYLLOCERIINAE

A.E. HUMALA

Moderately small subfamily, unknown from the Afro-tropical and Australasian regions. Parasitoids of larvae of primitive dipterans of the families Tipulidae and Mycetophilidae (Diptera: Nematocera).

Number of taxa: World – 4 genera and 41 species, Palearctic – 4/24, Russia – 4/17.

References. Rossem, 1981, 1987, 1988; Dasch, 1992; Humala, 1997b, 2002, 2003, 2007b, 2019b; Schwarz, 2003; Choi, Lee, 2016.

ALLOMACRUS Foerster, 1869 (*Sibiriakoffia* Holmgren, 1880; *Kentrottryphon* Strobl, 1903). Type species: *Allomacrus pimplarius* Thomson, 1888 (= *Sibiriakoffia arctica* Holmgren, 1880). Holarctic genus. Number of species: World and Palearctic – 5, Russia – 4.

Allomacrus arcticus (Holmgren, 1880) [*Sibiriakoffia*] (*Allomacrus pimplarius* Thomson, 1888). Russia: **EP** (N, NW, C, NC), **WS** (TM), **ES** (YA, ZB), **FE** (SA, KU, MG, CH). – Europe (WE, NE, EE), South Ossetia, Azerbaijan (Nagorno Karabakh), N America.

Allomacrus jakuticus Humala, 2002. Russia: **ES** (YA).

Allomacrus subtilis Humala, 2002. Russia: **ES** (BR). – Europe (NE).

Allomacrus volcanus Humala, 2002. Russia: **FE** (KU).

CYLLOCERIA Schiødte, 1838 (*Lampronota* Curtis, 1832; *Chalinocerus* Ratzeburg, 1852; *Asphragis* Foerster, 1869). Type species: *Phytodietus caligatus* Gravenhorst, 1829. Holarctic, Oriental and Neotropical genus. Parasitoids of Tipulidae. Number of species: World – 32, Palearctic – 17, Russia – 11.

Cylloceria aino (Uchida, 1928) [*Lampronota*]. Parasitoid of unidentified Tipulidae. Russia: **FE** (KH, PR, SA, KU). – China (NE, NC, CC), Korean Peninsula, Japan (Hok).

Cylloceria borealis (Roman, 1925) [*Lampronota*]. Russia: **EP** (N, NW, NC), **UR**, **WS** (TM), **ES** (KR, BR, YA, ZB), **FE** (KH, SA, KA). – Europe (NE, EE), China (NC), N America.

Cylloceria brachycera Humala, 2002. Russia: **ES** (ZB).

Cylloceria caligata (Gravenhorst, 1829) [*Phytodietus*]. Russia: **EP** (N, NW, C), **WS** (TM, AL), **ES** (IR, BR, YA, ZB), **FE** (KH, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Iran, Afghanistan.

Cylloceria fusciventris (Hellén, 1940) [*Lampronota*]. Russia: **EP** (N), **WS** (TM), **ES** (YA). – Europe (NE, EE).

Cylloceria invicta Rossem, 1987. Russia: **EP** (N), **ES** (YA). – Kazakhstan.

Cylloceria melancholica (Gravenhorst, 1820) [*Ichneumon*] (*Phytodietus niger* Gravenhorst, 1829; *Lampronota crenicornis* Curtis, 1832; *Bassus affinis* Zetterstedt, 1838; *Cylloceria marginator* Schiødte, 1838; *Lampronota denticornis* Haliday, 1838; *L. fracticornis* Haliday, 1838; *Chalinocerus longicornis* Ratzeburg, 1852; *Ch. mancus* Ruthe, 1855; *Ch. altior* Heinrich, 1953). Russia: **EP** (N, NW, C, S, NC), **WS** (TM, NS, AL), **ES** (IR, BR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG, CH). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Iran, Kyrgyzstan, Mongolia, China (NC), Korean Peninsula, N America.

Cylloceria orientalis Humala, 2002. Russia: **FE** (PR, KU). – China (NE), Korean Peninsula.

Cylloceria sylvestris (Gravenhorst, 1829) [*Tryphon*] (*Lampronota striolata* Hellén, 1915). Russia: **EP** (N, NC), **WS** (TM, AL), **ES** (BR, YA, ZB), **FE** (AM, KH, PR, KA, MG). – Europe (WE, NE, EE), Kazakhstan.

Cylloceria tenuicornis Humala, 2002. Russia: **EP** (N), **WS** (TM), **ES** (YA). – Europe (NE).

Cylloceria ussuriensis Humala, 2002. Russia: **FE** (PR). – China (NE, NC), Korean Peninsula.

HYPERACMUS Holmgren, 1858. Type species: *Exochus crassicornis* Gravenhorst, 1829. Number of species: World – 3, Palearctic and Russia – 1.

Hyperacmus crassicornis (Gravenhorst, 1829) [*Exochus*] (*Lampronota suerinensis* Brauns, 1905). Parasitoid of *Sciophila varia* Winn. (Mycetophilidae). Russia: **EP** (N, NW, C, E, NC, CR), **WS** (TM), **ES** (IR, BR, ZB), **FE** (KH, PR). – Europe (WE, NE, EE), Georgia, Azerbaijan, Tajikistan, Mongolia, China, Japan (Hok, Hon, Kyu), N America, India.

ROSSEMIA Humala, 1997 (*Sweaterella* Wahl et Gauld, 1998). Type species: *Rossemia longithorax* Humala, 1997. Monotypic Palearctic genus.

Rossemia longithorax Humala, 1997 (*Sweaterella sharkeyi* Wahl et Gauld, 1998). Russia: **EP** (N, NW), **FE** (PR, KU). – Europe (WE), Japan (Hon).

Subfamily DIACRITINAE

A.E. HUMALA

Small Holarctic subfamily with most species in the Eastern Palearctic region. Biology is unknown.

Number of taxa: World – 3 genera and 7 species, Palearctic – 2/5, Russia – 2/3.

References. Momoi, 1966a; Humala, 2003, 2007b; Sun, Sheng, 2006; Sheng, Sun, 2014; Watanabe, Yamauchi, 2014; Choi et al., 2015a.

DIACRITUS Foerster, 1869 (*Phidias* Vollenhoven, 1878; *Stenolabis* Kriechbaumer, 1894; *Phosphorus* Strobl, 1904;

Phosphoriana Rossem, 1987). Type species: *Mesostenus rufipes* Provancher, 1875. Species of the genus are usually collected in damp forests. Holarctic genus. Number of species: World – 4, Palearctic – 3, Russia – 2.

Diacritus aciculatus aciculatus (Vollenhoven, 1878) [Phidias] (*Phosphorus rugosissimus* Strobl, 1904). Russia: **EP** (N, NW, NC). – Europe (WE, NE, SE, EE), Abkhazia.

Diacritus aciculatus japonicus Momoi, 1966. Russia: **FE** (PR, KU). – Korean Peninsula, Japan (Hon, Kyu).

Diacritus incompletus Momoi, 1966. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon).

ORTHOLABA Townes, 1969. Type species: *Ortholaba tenuis* Townes, 1969. Eastern Palearctic genus. Number of species: World and Palearctic – 2, Russia – 1.

Ortholaba laevis Sun et Sheng, 2006 (*Ortholaba tenuis* auct.). Russia: **FE** (KH, PR). – China (NE), Korean Peninsula.

Subfamily DIPLAZONTINAE

A.I. KHALAIM

Moderately large cosmopolitan subfamily which is well represented in most regions of the world. Diplazontines are mainly small to medium-sized parasitoids which can easily be recognized by their unusual “tridentate” mandibles (the upper tooth is subdivided into two) and characteristic habitus.

All diplazontines are solitary koinobiont endoparasitoids of larvae of the family Syrphidae (Diptera). Numerous records of diplazontines from other hosts, especially lepidopterous larvae, are erroneous. Oviposition is into the syrphid egg or larva; the parasitoid larva completes its development only after the host larva has formed a puparium.

Only one Palearctic genus, *Daschia* Diller, 1970, comprising a single European species *D. brevitarsis* (Thomson, 1890), has not formally been recorded from Russia, although it may very likely be found in the European part.

Number of taxa: World – 22 genera and about 350 species; Palearctic – 17/157; Russia – 16/94.

References. Diller, 1987; Kasparyan, Manukyan, 1987; Manukyan, 1987, 1988, 1995, 2007; Klopstein et al., 2010a, 2010b, 2011; Balueva, Lee, 2014, 2015, 2016a, 2016b; Klopstein, 2014a, 2014b; Vas, 2016b.

BIOBLAPSIS Foerster, 1869 (*Trichomastix* Vollenhoven, 1878). Type species: *Bassus flavipes* Holmgren, 1858 (= *Trichomastix polita* Vollenhoven, 1878). Holarctic genus. Two known host species are from the syrphid subfamily Eristalinae. Number of species: World – 3, Palearctic – 2, Russia – 2.

Bioblapsis cultiformis (Davis, 1897) [Oblastus] (*Zootrophes bicoloripes* Ashmead, 1902, nomen nudum; *Bioblapsis mallochi* Rotheray, 1990). Parasitoid of feeding on fungus *Cheilosia longula* Zett. Russia: **ES** (IR, ZB), **FE** (KH). – Europe (WE, NE, SE), N America.

Bioblapsis polita (Vollenhoven, 1878) [*Trichomastix*] (*Bassus flavipes* Holmgren, 1858, nom. praeocc., nec Lucas, 1849; *B. tibialis* Bridgman, 1883). Parasitoid of *Ferdinanda* sp. Russia: **EP** (C). – Europe (WE, NE, SE, EE), Korean Peninsula, Japan (Hok).

CAMPOCRASPEDON Uchida, 1957. Type species: *Campocraspedon satoi* Uchida, 1957. Holarctic genus. Biology unknown. Number of species: World – 6, Palearctic – 4, Russia – 2.

Campocraspedon caudatus (Thomson, 1890) [Homotropus]. Russia: **WS** (TM), **FE** (KH, KA). – Europe (WE, NE, EE).

Campocraspedon elongatus Nakanishi, 1985. Russia: **FE** (MG). – Korean Peninsula, Japan (Hok).

DIPLAZON Nees, 1819. Type species: *Ichneumon laetatorius* Fabricius, 1781. Large worldwide genus with most known species distributed in the Holarctic region. Number of species: World – about 60, Palearctic – about 30, Russia – 19.

Diplazon albotibialis Dasch, 1964. Russia: **EP** (N), **WS** (TM), **FE** (KU, KA). – N America.

Diplazon angustus Dasch, 1964 (*Diplazon bachmaieri* Diller, 1986). Russia: **ES** (YA, ZB), **FE** (PR, KA). – Europe (WE, NE), N America.

Diplazon deletus (Thomson, 1890) [Bassus] (*Diplazon rufigaster* Dasch, 1964). Russia: **EP** (N; without regions: Manukyan, 2007), **WS** (TM), **ES** (IR, BR, ZB), **FE** (KH, SA, KA). – Europe (WE, NE, EE), Caucasus, Japan, N America.

Diplazon hyperboreus (Marshall, 1877) [Bassus] (*Diplazon algidus* Dasch, 1964). Russia: **FE** (KA). – Europe (WE, NE), N America.

Diplazon kurilensis Klopstein, 2014. Russia: **FE** (KU).

Diplazon laetatorius (Fabricius, 1781) [*Ichneumon*] (*Ichneumon dichrous* Schrank, 1781; *Bassus albovarius* Wollaston, 1858; *B. balearicus* Kriechbaumer, 1894). Parasitoid of a large number of syrphid genera: *Allograpta* O. S., *Betasyrphus* Mats., *Dasysyrphus* End., *Didea* Macq., *Epi-syrphus* Deg., *Eriozona* Schiner, *Eupeodes* O. S., *Ichiodon* Sack, *Melanostoma* Schiner, *Meliscaeva* Frey, *Paragus* Latr., *Pipiza* Fll., *Platycheirus* Serv., *Scaeva* F., *Sphaerophoria* Serv., *Syrphus* F., *Xanthogramma* Schiner, etc. Russia: **EP** (N, NW, C, E, S, NC), **WS** (NS), **ES** (KR, IR), **FE** (PR, SA). – Abundant cosmopolitan species, recorded from most countries of the world.

Remarks. Known from most regions of Russia although formally recorded only from several of them; due to exceptional abundance of this species, authors usually just mention its worldwide distribution and do not list regions.

Diplazon multicolor (Gravenhorst, 1829) [Bassus]. Parasitoid of *Eupeodes corollae* F. and *Ischiodon scutellaris* F. Russia: **EP** (NW). – Europe (WE, SE, EE), Mongolia, India.

- Remarks.** This species was considered to be a synonym of *Diplazon annulatus* (Gravenhorst) or *D. deletus* (Thomson), but recently has been removed from synonymy and established as a distinct species on the basis of material from Mongolia, Hungary, Switzerland and France (Klopfstein, 2011); thus, other records of this species require revision.
- Diplazon neoalpinus** Zwakhals, 1979 (*Bassus alpinus* Holmgren, 1858, nom. praeocc., nec Zetterstedt, 1838). Russia: **EP** (C), **FE** (PR, SA, KU, KA). – Europe (WE, NE, EE), Azerbaijan, Mongolia.
- Diplazon orbitalis** (Cresson, 1865) [Bassus]. Parasitoid of *Eupeodes volucris* O. S., *Sphaenophoria* sp. and *Syrphus opinator* O. S. Russia: **ES** (TU, ZB), **FE** (KH). – N America, Mexico.
- Diplazon pallicoxa** Manukyan, 1987. Russia: **EP** (NC), **ES** (IR, ZB), **FE** (PR). – Europe (WE, NE, EE), Armenia, Turkey.
- Diplazon parvus** Klopfstein, 2014. Russia: **ES** (IR). – Europe (WE, NE, SE).
- Diplazon pectoratorius** (Thunberg, 1822) [Ichneumon] (*Ichneumon angustorius* Thunberg, 1822; *Homotropus nigrithorax* Stöbl, 1902; *Homocidus akaashii* Uchida, 1931). Parasitoid of *Epistrophe* spp., *Episyrphus balteatus* Deg., *Eumerus strigatus* Fll., *Eupeodes* spp., *Neocnemodon* sp., *Pipiza* sp., *Scaeva pyrastris* L. and *Syrphus* spp. Russia: **EP** (N, C), **WS** (TM), **ES** (YA, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Mongolia, China (NE), Korean Peninsula, Japan, N America, Mexico, India.
- Diplazon scutatorius** Teunissen, 1943 (*Diplazon pilosus* Uchida, 1957; *D. tetragonopsis* Uchida, 1957). Parasitoid of *Allograpta obliqua* Say, *Episyrphus balteatus* Deg., *Pseudodorus clavatus* F. and *Sphaerophoria* sp. Russia: **EP** (N), **WS** (NS), **ES** (IR), **FE** (KH, PR). – Europe (WE, NE, EE), Caucasus, Turkey, Korean Peninsula, Japan.
- Diplazon tetragonus** (Thunberg, 1822) [Ichneumon] (*Ichneumon hortorius* Thunberg, 1822; *I. ustorius* Thunberg, 1822; *Bassus tricinctus* Gravenhorst, 1829; *B. nemorialis* Holmgren, 1858). Parasitoid of various syrphid hosts: *Betasyrphus* sp., *Episyrphus* sp., *Eupeodes* sp., *Meliscaeva* sp., *Pipiza* sp., *Platycheirus* sp., *Scaeva* sp., *Sphaerophoria* spp., *Syrphus* spp., etc. Russia: **EP** (N, NW), **WS** (TM), **ES** (TU, IR, BR, YA, ZB), **FE** (KH, KA). – Europe (WE, NE, SE, EE), Egypt, Caucasus, Turkey, Iran, Pakistan, China (NE, CC, SW, SE), Korean Peninsula, Japan, N America, India.
- Diplazon tibiatorius** (Thunberg, 1822) [Ichneumon] (*Bassus albosignatus* Gravenhorst, 1829). Parasitoid of *Episyrphus balteatus* Deg., *Eupeodes* spp., *Paragus* spp., *Platycheirus scutatus* Mg., *Scaeva pyrastris* L., *Syrphus* spp. and *Xanthogramma laetum* F. Russia: **EP** (N, NW), **ES** (TU, IR, BR, YA, ZB), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Mongolia, Japan (Hok, Hon), N America, Mexico.
- Diplazon urupensis** (Uchida, 1935) [Bassus]. Russia: **FE** (KU).
- Diplazon varicoxa** (Thomson, 1890) [Bassus] (*Bassus japonicus* Ashmead, 1906). Parasitoid of *Episyrphus balteatus* Deg. and *Eupeodes* spp. Russia: **EP** (N; without regions: Manukyan, 2007), **ES** (TU, IR, YA, ZB), **FE** (KU, KA). – Europe (WE, NE, SE, EE), Caucasus, ? Afghanistan, Mongolia, China (CC), Japan, India.
- Diplazon walleyi** Dasch, 1964. Russia: **ES** (ZB). – N America.
- Diplazon zetteli** Klopfstein, 2014. Russia: **ES** (IR). – Europe (WE).
- ENIZEMUM** Foerster, 1869. Type species: *Bassus tibialis* Cresson, 1868 (= *Pimpla petiolatus* Say, 1835). Predominantly Holarctic genus with a few species in the Oriental, Neotropical and Afrotropical regions. Number of species: World – 25, Palaearctic – 14, Russia – 3.
- Enizemum nigricorne** (Thomson, 1890). Russia: **EP** (N). – Europe (WE, NE, EE), Central Asia.
- Enizemum ornatum** (Gravenhorst, 1829) [Bassus] (*Bassus deplanatus* Gravenhorst, 1829; *B. carinulatus* Ruthe, 1859; *B. frenator* Desvignes, 1862; *Homocidus sumptuosus* Schmiedeknecht, 1926). Parasitoid of *Dasysyrphus venustus* Mg., *Episyrphus balteatus* Deg., *Eupeodes corollae* F., *E. lapponicus* Zett., *E. luniger* Mg., *Ischiodon scutellaris* F., *Scaeva pyrastris* L., *Syrphus ribesii* L. and *S. vitripennis* Mg.; also recorded from *Heringia* spp., *Platycheirus* spp. and *Sphaerophoria* spp. Russia: **EP** (without regions: Manukyan, 2007), **ES** (TU, IR, ZB), **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Afghanistan, Mongolia, China (NC/NW, Taiwan), Japan, N America, India.
- Enizemum tridentatum** Dasch, 1964. Russia: **EP** (S). – Tajikistan, N America.
- EPISEMURA** Kasparyan et Manukyan, 1987. Type species: *Sussaba ensata* Bauer, 1981. Palaearctic genus. Hosts unknown, but both species of the genus were collected on *Larix* spp. (Pinaceae). Number of species: World and Palaearctic – 2, Russia – 1.
- Episemura diodon** Kasparyan et Manukyan, 1987. Russia: **ES** (YA), **FE** (PR). – Europe (WE).
- EURYTYLOIDES** Nakanishi, 1978. Type species: *Eurytyloides kusigematii* Nakanishi, 1978. Palaearctic genus. Biology unknown. Number of species: World and Palaearctic – 5, Russia – 1.
- Eurytyloides zinovjevi** Manukyan, 1995. Russia: **FE** (MG).
- FOSSATYLOIDES** Klopfstein, Quicke, Kropf et Frick, 2011. Type species: *Bassus gracilentus* Holmgren, 1858. The genus was recently described for two species previously treated in the genus *Syrphoctonus*. Holarctic genus. Hosts unknown. Number of species: World – 2, Palaearctic and Russia – 1.

- Fossatyloides gracilentus** (Holmgren, 1858) [Bassus] (*Bassus pulcher* Holmgren, 1858, nom. praeocc., nec Zetterstedt, 1838). – Russia: **EP** (N), **ES** (BR, ZB), **FE** (KH). – Europe (WE, NE, SE, EE), Mongolia, N America.
- HOMOTROPUS** Foerster, 1869. Type species: *Bassus elegans* Gravenhorst, 1829. Predominantly Palaearctic genus with several species in Nearctic, Neotropical and Oriental regions. Number of species: World – about 30, Palaearctic – 27, Russia – 16.
- Homotropus areolaris** (Uchida, 1957) [Syrphoctonus]. Russia: **FE** (SA). – Korean Peninsula.
- Homotropus dimidiatus** (Schrank, 1802) [Ichneumon] (*Bassus planus* Desvignes, 1862; *Homotropus crassicornis* Thomson, 1890). Parasitoid of *Melanostoma* sp. and *Platycheirus* sp. Russia: **EP** (N, NW), **FE** (KA). – Europe (WE, NE, SE, EE), Caucasus, Afghanistan, Mongolia, Korean Peninsula, N America, India.
- Homotropus elegans** (Gravenhorst, 1829) [Bassus] (*Bassus rufonotatus* Holmgren, 1858; *Homotropus affinis* Szépligeti, 1898). Parasitoid of *Episyrphus balteatus* Deg. Russia: **EP** (N, NW), **FE** (SA, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Afghanistan, Mongolia, N America.
- Homotropus formosus** Klopstein, 2014. Russia: **FE** (KU). – Japan (Hok).
- Homotropus incisus** Thomson, 1890 (*Bassus pectoralis* Provancher, 1874, nom. praeocc., nec *Homotropus pectoralis* Gravenhorst, 1829; *Homotropus reflexus* Morley, 1906). Russia: **EP** (N, C), **ES** (IR, YA, ZB). – Europe (WE, NE, EE), Caucasus, N America.
- Homotropus longiventris** Thomson, 1890. Russia: **EP** (N, without regions: Manukyan, 2007), **ES** (YA), **FE** (KA). – Europe (WE, NE, SE, EE), Caucasus, Mongolia, Korean Peninsula.
- Homotropus megaspis** Thomson, 1890. Russia: **EP** (N), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Korean Peninsula.
- Homotropus melanogaster** (Holmgren, 1872) [Bassus]. Russia: **FE** (KA). – Europe (WE, NE, SE), Mongolia, N America.
- Homotropus nigratarsus** (Gravenhorst, 1829) [Bassus] (*Bassus picitans* Desvignes, 1862; *B. groenlandicus* Holmgren, 1872). Parasitoid of *Allograpta obliqua* Say, *Eupeodes corollae* F., *E. volucris* O. S., *Scaeva pyrastris* L. and *Sphaerophoria rueppellii* Wd. Russia: **EP** (N, NW, C), **WS** (NS), **ES** (TU, IR, ZB), **FE** (KH, PR, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, N America, Mexico.
- Homotropus pallipes** (Gravenhorst, 1829) [Bassus] (*Lissonota pectoralis* Gravenhorst, 1829; *Homocidus impolitus* Stelfox, 1941). Parasitoid of *Platycheirus* sp. Russia: **EP** (N; without regions: Manukyan, 2007), **ES** (IR), **FE** (KU, “everywhere except Kamchatka”: Manukyan, 2007). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Japan, N America, Mexico.
- Homotropus pictus** (Gravenhorst, 1829) [Bassus] (*Tryphon nigricornis* Zetterstedt, 1838; *Bassus pumilus* Holmgren, 1858; *B. thoracicus* Desvignes, 1862; *Homocidus brevis* Hedwig, 1938). Parasitoid of *Episyrphus balteatus* Deg., *Eupeodes luniger* Mg., *Neocnemodon* sp., *Platycheirus scutatus* Mg., *Sphaerophoria scripta* L. and *Syrphus ribesii* L. Russia: **EP** (N, NW), **ES** (YA, ZB), **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Turkey.
- Homotropus signatus** (Gravenhorst, 1829) [Bassus] (*Homotropus hygrobis* Thomson, 1890; *H. bifoveolatus* Kriechbaumer, 1894). Parasitoid of *Eupeodes corollae* F., *Neocnemodon* sp., *Paragus* sp., *Platycheirus* spp., *Scaeva* spp., *Sphaerophoria* spp. and *Syrphus* spp. Russia: **EP** (N, NW), **WS** (NS), **FE** (SA, KU, ? KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Mongolia, Japan (Hok), N America.
- Homotropus strigator** (Fabricius, 1793) [Ichneumon] (*Bassus ruficornis* Holmgren, 1858). Parasitoid of *Scaeva* sp. and *Syrphus* sp. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Homotropus sundevalli** (Holmgren, 1858) [Bassus] (*Bassus scabrosus* Desvignes, 1862). Russia: **FE** (KA). – Europe (WE, NE, EE), Caucasus.
- Homotropus venustus** Dasch, 1964. Russia: **ES** (IR, ZB). – Mongolia, N America.
- Homotropus vitreus** Dasch, 1964. Russia: **EP** (N), **FE** (KA). – Europe (NE), N America.
- PHTHORIMA** Foerster, 1869. Type species: *Bassus compressus* Desvignes, 1856. Holarctic genus. Number of species: World – 12, Palaearctic – 7, Russia – 3.
- Remarks.** *Phthorima rossica* Szépligeti, 1901 from the European part of Russia is not included to the catalogue because its type was lost and taxonomic status is unclear.
- Phthorima compressa** (Desvignes, 1856) [Bassus] (*Bassus ibalioidis* Kriechbaumer, 1878; *Homotropus niger* Morley, 1906). Parasitoid of *Heringia* spp. Russia: **EP** (N), **ES** (ZB), **FE** (KH, PR, KU, MG). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula, Japan, N America.
- Phthorima obscuripennis** (Hedwig, 1938) [Homocidus]. Russia: **WS** (AL). – Europe (WE, EE).
- Phthorima rugosa** (Uchida, 1957) [Syrphoctonus]. Russia: **FE** (SA).
- PROMETHES** Foerster, 1869. Type species: *Bassus sulcator* Gravenhorst, 1829. Holarctic and Oriental genus. Number of species: World – 16, Palaearctic – 9, Russia – 6.
- Promethes bridgmani** Fitton, 1976 (*Bassus scutellaris* Bridgman, 1886, nom. praeocc., nec Cresson, 1868; *Promethes persulcatus* Nakanishi, 1986). Russia: **EP** (N), **ES** (ZB), **FE** (KU). – Europe (WE, NE, EE), Japan (Hok, Hon, Shi, Kyu).
- Promethes compressus** Nakanishi, 1986. Russia: **FE** (PR). – Korean Peninsula, Japan (Hon, Kyu).

- Promethes melanaspis** (Thomson, 1890) [Promethus (sic!)] (*Promethes nigroscutellata* Habermehl, 1925; *P. gravenhorsti* Dasch, 1964). Russia: **EP** (N; without regions: Manukyan, 2007), **ES** (IR, ZB), **FE** (SA, KU). – Europe (WE, NE, EE), Mongolia, Japan (Hok, Hon, Shi, Kyu), N America.
- Promethes nigriventris** (Thomson, 1890) [Promethus (sic!)]. Parasitoid of *Epistrophe euchroma* Kowarz. Russia: **EP** (N, C), **ES** (IR). – Europe (WE, NE, SE, EE), Caucasus.
- Promethes okadai** Uchida, 1942. Russia: **ES** (ZB), **FE** (KH, PR). – China (NE), Japan (Hok, Hon).
- Promethes sulcator** (Gravenhorst, 1829) [Bassus] (*Bassus areolatus* Holmgren, 1856; *Orthopelma anomalum* Taschenberg, 1865; *Promethus dodsi* Morley, 1906). Widespread in the Holarctic region. Parasitoid of a variety of hosts: *Melanostoma mellinum* L., *Platycheirus* spp., *Sphaerophoria* spp., etc. Russia: **EP** (N, NW, C, E, S), **WS** (NS), **FE** (KU, KA). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Iran, Afghanistan, Tajikistan, China (NC/NW), Japan (Hok, Hon), N America, India.
- SUSSABA** Cameron, 1909. Type species: *Sussaba bicarinata* Cameron, 1909. Holarctic, Oriental and Neotropical genus. Number of species: World – 35, Palaearctic – 21, Russia – 15.
- Sussaba aciculata** (Ruthe, 1859) [Bassus]. Russia: **EP** (N, C), **ES** (YA), **FE** (KU, KA). – Europe (WE, NE, SE, EE), N America.
- Sussaba atra** Manukyan, 1988. Russia: **FE** (KU).
- Sussaba cognata** (Holmgren, 1858) [Bassus] (*Promethus albicoxa* Thomson, 1890). Parasitoid of *Sphaerophoria rueppellii* Wd. and *Syrpitta pipiens* L. Russia: **EP** (N, NW, NC, CR), **UR**, **WS** (NS), **ES** (IR, BR), **FE** (SA, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Mongolia, Korean Peninsula, Japan (Hon), N America, India.
- Sussaba dorsalis** (Holmgren, 1858) [Bassus] (*Bassus maculatus* Desvignes, 1862). Parasitoid of *Episyrphus balteatus* Deg. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (IR), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Mongolia, N America.
- Sussaba erigator** (Fabricius, 1793) [Ichneumon] (*Ichneumon festivus* Fabricius, 1798). Parasitoid of *Epistrophe* sp., *Melissaeva cinctella* Zett., *Pipizella* sp. and *Scaeva pyrastris* L. Russia: **EP** (N, NW, NC, CR), **ES** (IR), **FE** (KH, PR, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Afghanistan, Kyrgyzstan, Japan (Kyu).
- Sussaba etorofensis** (Uchida, 1957) [Promethes]. Russia: **FE** (SA, KU).
- Sussaba flavipes** (Lucas, 1849) [Bassus] (*Sussaba neopulchella* Diller, 1980). Parasitoid of *Episyrphus balteatus* Deg., *Melanostoma mellinum* L., *Neocnemodon vitripennis* Mg., *Paragus quadrifasciatus* Mg., *Scaeva pyrastris* L. and *Sphaerophoria scripta* L. Russia: **EP** (N, NC, CR), **UR**, **ES** (ZB), **FE** (SA, KU, KA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, N America.
- Sussaba hinzi** Diller, 1982. Russia: **EP** (N, NW), **WS** (TM), **ES** (YA, ZB), **FE** (KH, KU). – Europe (NE, SE).
- Sussaba lativentris** Manukyan, 1988. Russia: **EP** (N, NW), **ES** (ZB). – Europe (SE).
- Sussaba mongolica** Klopstein, 2011. Russia: **FE** (KU). – Mongolia.
- Sussaba montana** Manukyan, 1988. Russia: **EP** (NC). – Tajikistan.
- Sussaba pulchella** (Holmgren, 1858) [Bassus] (*Bassus monticola* Vollenhoven, 1880; *Promethus laticarpus* Thomson, 1890; *P. ruthe* Roman, 1931). Parasitoid of *Episyrphus balteatus* Deg., *Melanostoma mellinum* L., *Platycheirus* sp., *Scaeva pyrastris* L., *Sphaerophoria* spp. and *Syrphus* sp. Russia: **EP** (N, C, E, S, NC), **UR**, **WS** (TM, NS, AL), **ES** (TU, IR, BR, ZB), **FE** (SA, KU, ? KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, Mongolia, China (NC/NW), Japan, N America, India.
- Sussaba punctiventris** (Thomson, 1890) [Homotropus]. Russia: **EP** (N, NW). – Europe (WE, NE, EE), N America.
- Sussaba roberti** Klopstein, 2014. Russia: **ES** (IR). – Europe (WE, SE, EE), Turkey.
- Sussaba sugiharai** (Uchida, 1957) [Promethes]. Russia: **FE** (KH, PR, SA, KU). – China (SE), Korean Peninsula, Japan (Hon), Vietnam.
- SYRPHOCTONUS** Foerster, 1869. Type species: *Bassus exsultans* Gravenhorst, 1829 (= *Bassus tarsatorius* Panzer, 1809). Large genus distributed almost worldwide (except Australia). Number of species: World – about 80, Palaearctic – 21, Russia – 8.
- Syrphoctonus desvignesii** (Marshall, 1870) [Bassus] (*Homotropus recurvatus* Dasch, 1964; *H. neopulcher* Horstmann, 1968). Russia: **EP** (N). – Europe (WE, NE, SE, EE), N America.
- Syrphoctonus enizemopsis** Uchida, 1957. Russia: **FE** (KU). – Japan (Hon).
- Syrphoctonus fissorius** (Gravenhorst, 1829) [Bassus] (*Bassus punctatus* Bridgman, 1887; *Homotropus similis* Lange, 1911). Parasitoid of *Epistrophe* spp., *Episyrphus balteatus* Deg., *Melanosoma* sp., *Neocnemodon* sp., *Platycheirus scutatus* Mg., *Scaeva pyrastris* L., *Sphaerophoria* spp. and *Syrphus* spp. Russia: **EP** (NW), **ES** (IR, ZB), **FE** (AM, KH, SA). – Europe (WE, NE, SE, EE), Caucasus.
- Syrphoctonus idari** Diller, 1985. Russia: **EP** (N). – Europe (WE, NE).
- Syrphoctonus infuscatus** Uchida, 1957. Russia: **FE** (SA). – Japan (Hon).
- Syrphoctonus irinae** Manukyan, 1995. Russia: **EP** (N, NW), **ES** (YA).
- Syrphoctonus labradorensis** (Dasch, 1964) [Homotropus]. Russia: **EP** (N), **WS** (TM), **FE** (KA). – Caucasus, Mongolia, N America.
- Syrphoctonus tarsatorius** (Panzer, 1809) [Bassus] (*Bassus exsultans* Gravenhorst, 1829; *B. insignis* Gravenhorst, 1829; *B. flavus* Desvignes, 1862; *Homotropus eximius*

Habermehl, 1922; *H. flavitrochanterus* Uchida, 1956). Parasitoid of *Epistrophe* spp., *Episyrphus balteatus* Deg., *Eupeodes* spp., *Melanostoma* sp., *Neocnemodon* sp., *Paragus* sp., *Platycheirus* spp., *Scaeva pyrastris* L., *Sphaerophoria* spp. and *Syrphus* spp. Russia: **EP** (N, NW), ? **ES** (IR), **FE** (PR, KU, ? KA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Mongolia, China (SE), Korean Peninsula, Japan (Hok, Hon, Shi, Kyu, Ryu), N America, India.

SYRPHOPHILUS Dasch, 1964. Type species: *Bassus bizonarius* Gravenhorst, 1829. Holarctic and Oriental genus. Number of species: World – 6, Palearctic – 5, Russia – 4.

Syrphophilus asperatus Dasch, 1964. Russia: **EP** (N), **FE** (KA, CH). – Europe (WE, NE, EE), Turkey, N America.

Syrphophilus bizonarius (Gravenhorst, 1829) [Bassus] (*Bassus cingulatus* Holmgren, 1858; *B. frontalis* Brischke, 1878; *Homocidus iwataensis* Uchida, 1930; *H. satoi* Uchida, 1930). Parasitoid of *Episyrphus balteatus* Deg., *Eupeodes* spp., *Sphaerophoria* spp. and *Syrphus vitripennis* Mg. Widespread in the Palearctic region. Russia: **EP** (N, NW), **WS** (NS), **ES** (IR), **FE** (KU). – Europe (WE, NE, SE, EE), N Africa, Azerbaijan, Turkey, Israel, Iran, Mongolia, China (NE), Korean Peninsula, Japan, N America, India.

Syrphophilus scabriculus (Holmgren, 1858) [Bassus] (*Bioblapsis tricineta* Ashmead, 1902). Russia: **EP** (N), **FE** (KU, KA). – Europe (WE, NE), N America.

Syrphophilus tricinctorius (Thunberg, 1822) [Ichneumon] (*Bassus cinctus* Gravenhorst, 1829; *B. lateralis* Gravenhorst, 1829; *B. albicinctus* Desvignes, 1862; *Homocidus takaozanus* Uchida, 1930). Parasitoid of *Episyrphus balteatus* Deg., *Eupeodes* sp., *Platycheirus ambiguus* Fll., *Scaeva pyrastris* L. and *Syrphus* spp. Russia: **EP** (N, NW, C, S), **ES** (YA), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, EE), Turkey, Mongolia, Korean Peninsula, Japan (Hok, Hon, Shi), N America, India.

TYMMOPHORUS Schmiedeknecht, 1913. Type species: *Tymmophorus lacustris* Schmiedeknecht, 1913 (= *Tryphon erythrozonus* Foerster, 1850). Holarctic genus. Number of species: World – 8, Palearctic and Russia – 5.

Tymmophorus erythrozonus (Foerster, 1850) [Tryphon] (*Bassus rufiventris* Gravenhorst, 1829; *B. holmgreni* Bridgman, 1882; *Zootrephes antennatus* Davis, 1895; *Tymmophorus lacustris* Schmiedeknecht, 1913). Parasitoid of *Platycheirus* spp. Russia: **EP** (N, NW), **ES** (ZB), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Mongolia, Korean Peninsula, Japan (Hok), N America.

Remarks. Some records of this species may belong to *T. suspiciosus* (see remarks under this species).

Tymmophorus gelidus Dasch, 1964. Russia: **FE** (KU). – Europe (NE), N America.

Tymmophorus karafutensis (Uchida, 1957) [Zootrephes]. – Russia: **FE** (SA).

Tymmophorus obscuripes (Holmgren, 1858) [Bassus] (*Bassus rufocinctus* Desvignes, 1862; *B. arcticus* Holmgren, 1869; *Promethes luctuosus* Schmiedeknecht, 1926). Parasitoid of *Platycheirus albimanus* F. Russia: **ES** (BR), **FE** (KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, Mongolia, Korean Peninsula, N America.

Tymmophorus suspiciosus (Brischke, 1871) [Bassus]. Russia: **EP** (N; without regions: Manukyan, 2007a), **ES** (ZB), **FE** (KU). – Europe (WE, NE, EE).

Remarks. This species was recently removed from synonymy with *T. erythrozonus* on the basis of the material from the Kuril Is, therefore other distributional records of these species require revision (Klopfstein, 2014).

WOLDSTEDTIUS Carlson, 1979. Type species: *Bassus biguttatus* Gravenhorst, 1829. Almost worldwide genus (unknown from Afrotropical region). Number of species: World – 43, Palearctic – 16, Russia – 7.

Woldstedtius bauri Klopfstein, 2014. Russia: **EP** (N). – Europe (WE, NE).

Woldstedtius biguttatus (Gravenhorst, 1829) [Bassus] (*Bassus rufipes* Gravenhorst, 1829, nom. praeocc., nec Nees, 1812; *B. confusus* Woldstedt, 1874). Parasitoid of *Eupeodes lapponicus* Zett., *Platycheirus* sp. and *Sphaerophoria scripta* L. Russia: **EP** (N, NW, E), **WS** (NS, AL), **ES** (ZB), **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Korean Peninsula.

Woldstedtius citropectoralis (Schmiedeknecht, 1926) [Homocidus] (*Bassus abductor* Bridgman, 1886, nom. praeocc., nec Nees, 1812). Parasitoid of *Heringia vitripennis* Mg. and *Sphaerophoria scripta* L. Russia: **EP** (N; without regions: Manukyan, 2007), **WS** (NS), **ES** (ZB), **FE** (KH, SA, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Korean Peninsula, N America.

Woldstedtius flavolineatus Gravenhorst, 1829 (*Bassus bimaculatus* Holmgren, 1858; *B. interruptus* Holmgren, 1858). Parasitoid of *Allograpta obliqua* Say, *Baccha elongata* F., *Betasyrphus serarius* Wd., *Episyrphus balteatus* Deg., *Eupeodes* spp., *Heringia* spp., *Melanostoma* sp., *Ocyptamus lemur* O. S., *Platycheirus* spp., *Sphaerophoria* spp. and *Syrphus* spp. Russia: **EP** (N, NW), **WS** (NS), **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Turkey, Mongolia, China (Manukyan, 2007), Korean Peninsula, Japan, N America, Mexico, India, S America.

Woldstedtius holarcticus (Diller, 1969) [Syrphoctonus]. Parasitoid of *Episyrphus balteatus* Deg. Russia: **EP** (N, NW), **WS** (NS), **FE** (KU). – Europe (WE, NE, EE), Korean Peninsula, N America, India.

Woldstedtius karafutensis (Uchida, 1957) [Homocidus]. Russia: **FE** (KH, PR, SA, KU). – Korean Peninsula, Japan (Hok).

Woldstedtius patei (Dasch, 1964) [Syrphoctonus]. Russia: **EP** (N), **FE** (KA). – Europe (NE), N America.

XESTOPELTA Dasch, 1964. Type species: *Syrphoctonus vertebratus* Cushman, 1922. Holarctic and Afrotropical genus. Host unknown. Number of species: World – 6, Palaearctic – 3, Russia – 1.

Xestopelta gracillima (Schmiedeknecht, 1926) [Promethes] (*Homocidus amabilis* Habermehl, 1935). Russia: **EP** (NC). – Europe (WE, NE, SE, EE), Caucasus, Kyrgyzstan, China (NC).

Subfamily EUCEROTINAE

A.I. KHALAIM

Small ichneumonid subfamily represented by two genera: the almost cosmopolitan *Euceros* Gravenhorst, 1829 and the monotypic *Barronia* Gauld et Wahl, 2002 known only from Chile.

The biology of *Euceros* is very unusual for Ichneumonidae. The parasitoid female lays numerous and small stalked eggs on plants; highly specialized planidial first instar larvae attach to passing lepidopteran (Lepidoptera) or sawfly (Hymenoptera: Symphyta) larvae; finally the parasitoid larva completes its development as an obligatory secondary parasitoid (Tripp, 1961; Shaw, 2014).

Number of taxa: World – 2 genera and 51 species, Palaearctic – 1/15, Russia – 1/12.

References. Uchida, 1958c; Tripp, 1961; Barron, 1976, 1978; Kasparyan, 1999a; Gauld, Wahl, 2002; Kasparyan, Khalaim, 2007c; Shaw, 2014; Riedel, 2018d.

EUCEROS Gravenhorst, 1829 (*Eumesius* Westwood, 1840; *Omaloceros* Giraud, 1857; *Tautozelus* Foerster, 1869; *Pseudasthenara* Uchida, 1930). Type species: *Euceros crassicornis* Gravenhorst, 1829 (= *Tryphon pruinosus* Gravenhorst, 1829). Cosmopolitan genus. Number of species: World – 50, Palaearctic – 15, Russia – 12.

Euceros albibasalis Uchida, 1932 (*Euceros brevinervis* Barron, 1978). Russia: **FE** (SA, KU). – Japan (Hok).

Euceros albitarsus Curtis, 1837 (*Euceros dimidiatus* Brullé, 1846). Parasitoid of *Dusona* sp. and *Ophion* sp. (Hymenoptera: Ichneumonidae). Russia: **EP** (NC), **UR**, **FE** (PR). – Europe (WE, SE, EE), Japan.

Euceros dentatus Barron, 1978. Russia: **FE** (KU). – China (CC, SE), Korean Peninsula.

Euceros kiushuensis Uchida, 1958. Secondary parasitoid of *Calliteara pudibunda* L. and *Lymantria dispar* L. (Erebidae); from the latter host was reared from *Phobocampe uncinata* Grav. (Hymenoptera: Ichneumonidae). Russia: **EP** (without regions: Kasparyan, Khalaim, 2007c), **WS** (NS), **ES** (KR, ZB), **FE** (PR, SA, KU). – Europe (WE, SE, EE), China (NE, NC, CC, SE), Korean Peninsula, Japan.

Euceros pectinis Barron, 1978. Russia: **FE** (KU). – Japan (Hon).

Euceros pruinosus (Gravenhorst, 1829) [Tryphon] (*Euceros crassicornis* Gravenhorst, 1829; *E. morionellus* Holmgren, 1857; *E. unifasciatus* Vollenhoven, 1878; *E. nigritrochantellus* Uchida, 1932; *E. teshioensis* Uchida, 1932). Secondary parasitoid (e. g. Ichneumonidae) of Arctiidae, Erebidae, Geometridae, Lycaenidae and Noctuidae (Lepidoptera); also was recorded from sawfly families Cimbicidae, Diprionidae and Tenthredinidae (Hymenoptera). Widespread in the Palaearctic region. Russia: **EP** (N, NW, NC), **UR**, **WS** (NS), **ES** (KS, KR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, Mongolia, China (NE), Japan.

Euceros rufocinctus (Ashmead, 1906) [Asthenara] (*Euceros egawai* Uchida, 1955). Russia: **ES** (ZB), **FE** (AM, KH, PR). – Korean Peninsula, Japan (Hon).

Euceros sachalinensis Kasparyan, 1992. Russia: **FE** (SA).

Euceros schizophrenus Kasparyan, 1984. Russia: **ES** (ZB), **FE** (KH, PR). – Kazakhstan, Korean Peninsula.

Euceros sensibus Uchida, 1930. Russia: **FE** (SA, KU). – ? China (SE), Korean Peninsula, Japan, ? Nepal.

Euceros serricornis (Haliday, 1838) [Bassus] (*Euceros egregius* Holmgren, 1857; *E. grandicornis* Holmgren, 1857; *E. sapporensis* Uchida, 1932; *E. kinugawensis* Uchida, 1958). Secondary parasitoid of Tenthredinidae (Hymenoptera) and Geometridae (Lepidoptera). Russia: **EP** (N, C), **WS** (KM), **ES** (YA, ZB), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, China (NC), Korean Peninsula, Japan.

Euceros unispina Kasparyan, 1984. Russia: **FE** (KU). – ? Europe (EE).

Subfamily HYBRIZONTINAE (PAXYLOMMATINAE)

A.I. KHALAIM

Hybrizontinae is a small ichneumonid subfamily with a single extant Holarctic tribe, the Hybrizontini (with several species extending to Oriental China). Species of Hybrizontinae lack vein 2m-cu in the fore wing, and because of that Hybrizontinae was previously classified as a subfamily of Braconidae or treated as an independent family.

Members of the subfamily are usually small and rarely collected insects, which are most often observed (and swept) near ant nests. Koinobiont endoparasitoids of ant larvae (Hymenoptera: Formicidae), oviposition is into larvae transported by workers. The wing venation of Hybrizontinae resembles that of ants.

Number of taxa: World – 4 genera and 16 species, Palaearctic – 4/14, Russia – 3/10.

References. Watanabe, 1984; Tobias, 1988b, 2000; van Achterberg, 1999b; Komatsu, Konishi, 2010; Gómez-Durán, van Achterberg, 2011; Konishi et al., 2012; van Achterberg et al., 2013; Yu et al., 2016; Kolarov et al., 2018; Hisasue, Konishi, 2019; Liu et al., 2019.

Tribe HYBRIZONTINI

EURYPTERNA Foerster, 1863. Type species: *Paxillomma cremieri* Romand, 1838. Palaearctic genus. Number of species: World, Palaearctic and Russia – 3.

Eurypterna angustifacialis Tobias, 1988. Russia: **FE** (PR).

Eurypterna cremieri (Romand, 1838) [*Paxillomma* (sic!)] (*Pachylomma grandis* Rudow, 1883; *Eurypterna arakawa* Matsumura, 1912; *Ogkosoma schwarzi* Haupt, 1913). Recorded from nests of *Camponotus herculeanus* L., *Formica rufa* L. and *Lasius* spp. (Formicidae). Russia: **EP** (NW). – Europe (WE, SE, EE), Japan.

Eurypterna rufiventris Tobias, 1988. Russia: **FE** (PR).

GHILAROMMA Tobias, 1988. Type species: *Ghilaromma orientalis* Tobias, 1988. Palaearctic genus. Number of species: World, Palaearctic and Russia – 3.

Ghilaromma fuliginosi (Wilkinson, 1930) [*Paxylomma*]. ? Russia: **FE** (PR). – Europe (WE, EE).

Ghilaromma orientalis Tobias, 1988. Probably associated with *Lasius fuliginosus* Latr. (Formicidae). Russia: **FE** (SA). – Korean Peninsula, Japan (Hon).

Ghilaromma ussuriensis Tobias, 1988. Russia: **FE** (PR).

HYBRIZON Fallén, 1813 (*Paxylomma* Brébisson, 1817; *Planicus* Curtis, 1833; *Eupachylomma* Ashmead, 1894). Type species: *Hybrizon latebricola* Nees, 1834 (= *Paxylomma buccata* Brébisson, 1825). Holarctic and Oriental genus. Number of species: World – 9, Palaearctic – 7, Russia – 4.

Hybrizon buccatus (Brébisson, 1825) [*Paxylomma*] (*Planicus apicalis* Curtis, 1833; *Hybrizon latebricola* Nees, 1834). Recorded from the nests of *Formica* spp., *Lasius* spp., *Myrmica scabrinodis* Nylander and *Tapinoma erraticum* Latr. (Formicidae). Russia: **EP** (N, E, S, NC), **ES** (IR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NE, NC), Korean Peninsula, Japan (Hon, Shi, Kyu).

Hybrizon flavofacialis Tobias, 1988. Russia: **FE** (KH). – China (CC).

Hybrizon ghilarovi Tobias, 1988. Russia: **FE** (KH, PR). – Europe (EE), China (NE, NC, CC), Korean Peninsula, Japan (Hok, Hon).

Hybrizon pilialatus Tobias, 1988. Russia: **EP** (C). – Europe (WE, SE, EE).

Remarks. In the original description, Tobias (1988b) recorded *H. pilialatus* from Cherkasy Prov. of Ukraine, but this country record was skipped in further publications of other authors, including the World Catalogue (Yu et al., 2016).

Subfamily ICHNEUMONINAE

A.I. KHALAIM

Ichneumoninae is a large worldwide subfamily. All ichneumonines are parasitoids of Lepidoptera; the adult ichneumonine wasp always emerges from the host pupa. The fauna of this subfamily of Russia is very poorly known. The number of taxa is given approximately, following Taxapad (Yu et al., 2016).

Number of taxa: World – about 430 genera and 4300 species, Palaearctic – 153/about 1670, Russia – 109/about 550.

References. Heinrich, 1978; Rasnitsyn, 1984, 1986; Tereshkin, 1992, 1993, 1994, 1996, 2001, 2003a, 2003b, 2003c, 2004a, 2004b, 2009, 2015; Riedel, 2008a, 2008b, 2012, 2014, 2018a, 2018c; Riedel, Humala, 2009, 2018; Diller, Broad, 2014.

Subfamily LYCORININAE

A.I. KHALAIM

Lycorininae is a small monotypic subfamily of worldwide distribution. Members of the subfamily can be distinguished from most other ichneumonids by having metasomal tergites 1–4 dorsally with a central triangular area delimited by deep grooves.

Lycorinines are koinobiont ectoparasitoids of various concealed caterpillars (Lepidoptera). The egg of the parasitoid possesses an “anchor”. Oviposition is into the host anus where the parasitoid larva begins its development as an “internal ectoparasitoid”, but later completes its development externally, as a typical ectoparasitoid.

Number of taxa: World – 1 genus and 35 species, Palaearctic – 1/6, Russia – 1/2.

References. Uchida, Momoi, 1959; Chao, 1980; Wang, 1985; Coronado-Rivera et al., 2004; Shaw, 2004b; Kasparyan, Khalaim, 2007g; Choi et al., 2014a; Shimizu, Ogawa, 2018.

LYCORINA Holmgren, 1859. Type species: *Lycorina triangulifera* Holmgren, 1859. Number of species: World – 35, Palaearctic – 6, Russia – 2.

Lycorina ruficornis Kasparyan, 2007. Russia: **FE** (AM, PR). – Korean Peninsula.

Lycorina triangulifera Holmgren, 1859 (*Amyx flavilabris* Schiodte, 1839; *Glypta lycorinoides* Costa, 1886; *G. sarodoa* Costa, 1886). Parasitoid of *Anacampsis timidella* Wocke (Gelechiidae), *Archips rosana* L., *Epiblema* spp., *Epinotia brunnichana* L. (Tortricidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (N, NW, C, NC), **ES** (IR, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia, China (NE), Korean Peninsula, Japan (Hok, Hon, Shi).

Subfamily MESOCHORINAE

A.I. KHALAIM

Moderately large worldwide subfamily with twelve genera, including the exceptionally large and taxonomically difficult *Mesochorus* Gravenhorst, 1829, comprising almost 700 described species. Species of Mesochorinae are usually small and inconspicuous, but may easily be recognized by their characteristic habitus, long and slender antennae, confluent face and clypeus, rhombic and usually large areolet in the fore wing; males also possess a gonosquama produced into a long, narrow rod.

Mesochorinae are koinobiont hyperparasitoids of lepidopteran and sawfly (Hymenoptera: Symphyta) larvae via hymenopterian (Ichneumonoidea) and dipteran (Tachinidae) parasitoids; Coleoptera have been also recorded as primary hosts.

Number of taxa: World – 12 genera and about 860 species, Palaearctic – 8/410, Russia – 4/100.

References. Lee, 1991, 1992a, 1992b; Wahl, 1993; Schwenke, 1999, 2000, 2002, 2004; Suh et al., 1997, 1999; Horstmann, 2006; Kasparyan, Khalaim, 2007n; Riedel et al., 2014; Riedel, 2015b, 2018b, 2018g, 2019b; Riedel, Humala, 2016, 2017; Vikberg, Vårdal, 2017; Araujo et al., 2018; Riedel, Kasparyan, 2018; Broad, Watanabe, 2019.

ASTIPHROMMA Foerster, 1869 (*Pseudoacoenitus* Kiss, 1924; *Demophorellus* Hedwig, 1955). Type species: *Mesochorus scutellatus* Gravenhorst, 1829. Predominantly Holarctic genus with several species in the Oriental region. Subdivided into two subgenera, *Mesochorella* Szépligeti, 1911 and relatively large *Astiphromma* s. str. The *Dolichochoerus* Strobl, 1904 was considered to be a subgenus of *Astiphromma* but recently was raised to genus level, and the monotypic genus *Thamester* Wahl, 1993 was found to be its junior synonym (Broad, Watanabe, 2019). Hyperparasitoids of various insects; primary parasitoids are usually larvae of Lepidoptera and Symphyta (Hymenoptera). Number of species: World – 57, Palaearctic – 40, Russia – 26.

Astiphromma (Astiphromma) aggressor (Fabricius, 1804) [Ophion] (*Mesochorus marginellus* Holmgren, 1860; *Astiphromma barbatulum* Schwenke, 1999; *A. caecum* Schwenke, 1999). Parasitoid of *Croesus latipes* Villaret and *Periclista lineolata* Klug (Hymenoptera: Tenthredinidae). Russia: **EP** (N, NW, NC), **ES** (IR), **FE** (KH). – Europe (WE, NE, SE, EE), Turkey.

Astiphromma (Astiphromma) albitarse (Brischke, 1880) [Mesochorus] (*Astiphromma punctatum* Uchida, 1933). Russia: **EP** (NC), **FE** (KH, PR). – Europe (WE, NE, SE, EE).

Astiphromma (Astiphromma) alpinum (Roman, 1909) [Mesochorus]. Parasitoid of *Pachynematus imperfectus* Zaddah and *Pristiphora laricis* Hartig (Hymenoptera:

Tenthredinidae). Russia: **EP** (NW), **ES** (KR, IR), **FE** (KH, SA). – Europe (WE, NE, SE, EE).

Astiphromma (Astiphromma) anale (Holmgren, 1860) [Mesochorus]. Russia: **EP** (N, NW), **WS** (TM), **ES** (KR). – Europe (WE, NE, EE).

Astiphromma (Astiphromma) dorsale (Holmgren, 1860) [Mesochorus]. Parasitoid of *Panolis flammea* Den. et Schiff. (Lepidoptera: Noctuidae) via Tachinidae (Diptera); also recorded from *Ernestia rudis* Fll. (Tachinidae) and *Pieris brassicae* L. (Lepidoptera: Pieridae). Russia: **EP** (N, NW, C), **ES** (KR, IR), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE).

Astiphromma (Astiphromma) flagellator Riedel, 2015. Russia: **EP** (N, NW), **FE** (KH). – Europe (WE).

Astiphromma (Astiphromma) flavofacies Riedel et Kasparyan, 2018. Russia: **FE** (SA, KU).

Astiphromma (Astiphromma) flavoventrale Riedel, 2015. Russia: **EP** (N), **FE** (KA). – Europe (NE).

Astiphromma (Astiphromma) hirsutum (Bridgman, 1883) [Mesochorus]. Parasitoid of *Amphipyra pyramidea* L. (Lepidoptera: Noctuidae) via Tachinidae (Diptera) and *Alsophila aceraria* Den. et Schiff. (Lepidoptera: Geometridae) via *Phorocera obscura* Fll. (Tachinidae). Russia: **EP** (CR), **ES** (IR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Korean Peninsula.

Astiphromma (Astiphromma) japonense Lee, 1992. Russia: **FE** (KH, PR). – Japan (Hok).

Astiphromma (Astiphromma) leucogrammus (Holmgren, 1860) [Mesochorus]. Parasitoid of *Eupithecia* sp. (Lepidoptera: Geometridae) via various Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (N), **WS** (TM), **ES** (YA, ZB), **FE** (SA, KU, KA). – Europe (WE, NE, EE), N America.

Astiphromma (Astiphromma) luridum Schwenke, 1999. Russia: **ES** (KR). – Europe (WE, NE).

Astiphromma (Astiphromma) minimum Riedel et Kasparyan, 2018. Russia: **FE** (KH).

Astiphromma (Astiphromma) nigrocoxatum (Strobl, 1904) [Mesochorus]. Russia: **EP** (N, NW). – Europe (WE, NE, EE), Turkey.

Astiphromma (Astiphromma) paradorsale Riedel et Kasparyan, 2018. Russia: **FE** (PR). – Korean Peninsula.

Astiphromma (Astiphromma) rimosum Schwenke, 1999. Russia: **EP** (NW), **FE** (KH). – Europe (WE, NE, EE).

Astiphromma (Astiphromma) scutellatum (Gravenhorst, 1829) [Mesochorus]. Parasitoid of *Sparganothis pilleriana* Den. et Schiff. (Lepidoptera: Tortricidae) and *Diprion* sp. (Hymenoptera: Diprionidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Kazakhstan.

Astiphromma (Astiphromma) splenium (Curtis, 1833) [Mesochorus] (*Mesochorus sericans* Curtis, 1833; *M. strenuus* Holmgren, 1860; *M. plagiatus* Thomson, 1885; *Astiphromma kiotense* Uchida, 1933; *A. sachalinense* Uchida, 1933). Recorded as parasitoid of various hosts from the families Geometridae, Noctuidae and Zygaenidae

- (Lepidoptera) via Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (N, NW, ? S, NC, CR), **WS** (TM, TK), **ES** (KR, IR), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Korean Peninsula, Japan, N America.
- Astiphromma (Astiphromma) striatum** (Brischke, 1880) [Mesochorus] (*Mesochorus mandibularis* Thomson, 1886). Parasitoid of *Lacanobia oleacea* L. and *Mamestra brassicae* L. (Lepidoptera: Noctuidae); also recorded from Geometridae (Lepidoptera). Russia: **EP** (N, NW, NC), **WS** (TM), **FE** (PR, KU, KA). – Europe (WE, NE, EE), Korean Peninsula, Japan.
- Astiphromma (Astiphromma) styleator** Riedel et Kasparian, 2018. Russia: **FE** (PR).
- Astiphromma (Astiphromma) tenuicorne** (Thomson, 1886) [Mesochorus]. Parasitoid of *Dolerus genucinctus* Zaddach, *Monophadnus spinolae* Klug and *Siobla sturmi* Klug (Hymenoptera: Tenthredinidae). Russia: **EP** (N, NW), **ES** (KR). – Europe (WE, NE, EE), Azerbaijan.
- Astiphromma (Astiphromma) uliginosum** Schwenke, 1999. Parasitoid of *Pseudoips prasinana* L. (Lepidoptera: Noctuidae) and *Epione* sp. (Lepidoptera: Geometridae). Russia: **EP** (N), **ES** (ZB). – Europe (WE, NE, SE, EE).
- Astiphromma (Astiphromma) unicolor** Uchida, 1933. Russia: **FE** (KH, PR). – China (SE), Japan (Hok).
- Astiphromma (Astiphromma) varipes** (Holmgren, 1860) [Mesochorus]. Parasitoid of *Panolis flammea* Den. et Schiff. (Lepidoptera: Noctuidae) via *Meteorus* sp. (Hymenoptera: Braconidae) and *Bupalus* sp. (Lepidoptera: Geometridae) via *Campoplex* sp. (Hymenoptera: Ichneumonidae). Russia: **EP** (N), **WS** (TM), **ES** (IR). – Europe (WE, NE, SE, EE), Caucasus, Turkey.
- Astiphromma (Astiphromma) watanabei** (Uchida, 1929) [Mesochorus]. Russia: **FE** (SA). – China (NC), Korean Peninsula, Japan.
- Astiphromma (Mesochorella) nigriceps nigriceps** (Brischke, 1880) [Mesochorus]. Parasitoid of *Collaphellus sophiae* Schaller (Coleoptera: Chrysomelidae). Russia: **EP** (CR). – Europe (SE, EE), Turkey.
- Astiphromma (Mesochorella) nigriceps asiaticus** Riedel, 2015. Russia: **EP** (NC). – Uzbekistan, Kazakhstan.
- CIDAPHUS** Foerster, 1869. Type species: *Cidaphus thuringiacus* Brauns, 1889 (= *Mesochorus alarius* Gravenhorst, 1829). Adult parasitoids are nocturnal and attracted to light. Worldwide genus. Number of species: World – 20, Palaearctic – 6, Russia – 3.
- Cidaphus alarius** (Gravenhorst, 1829) [Mesochorus] (*Cidaphus thuringiacus* Brauns, 1889). Parasitoid of various hosts from the families Geometridae, Noctuidae, Notodontidae and Tortricidae (Lepidoptera) via Ichneumonidae (Hymenoptera) and Tachinidae (Diptera). Russia: ? **EP** (C, NC), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey, Iran, Japan, Nepal.
- Cidaphus areolatus** (Boie, 1850) [Paniscus] (*Mesochorus gigas* Kriechbaumer, 1897; *Plesiophthalmus brischkei* Szépligeti, 1911). Parasitoid of *Panolis flammea* Den. et Schiff. (Lepidoptera: Noctuidae) via *Banchus hastator* F. (Hymenoptera: Ichneumonidae). Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey.
- Cidaphus atricilla** (Haliday, 1838) [Cryptus] (*Cidaphus potanini* Kokujev, 1906; *Plesiophthalmus melanocephalus* Habermehl, 1909). Parasitoid of *Anarta myrtilli* L. (Lepidoptera: Noctuidae). Russia: ? **EP** (C, NC), ? **WS** (TK), **FE** (PR). – Europe (WE, NE, EE), Mongolia, China (NC/NW), Japan.
- MESOCHORUS** Gravenhorst, 1829. Type species: *Mesochorus splendidulus* Gravenhorst, 1829 (= *Ichneumon stigmator* Thunberg, 1822). Large worldwide genus. Number of species: World – 686, Palaearctic – 333, Russia – 70.
- Mesochorus abraxator** Schwenke, 1989. Parasitoid of *Abraxys* sp. (Lepidoptera: Geometridae). Russia: **EP** (N). – Europe (EE).
- Mesochorus acutus** Schwenke, 1999. Parasitoid of *Latentia* sp. (Lepidoptera: Geometridae) via *Sinophorus* sp. (Hymenoptera: Ichneumonidae) and of *Eurois* sp. (Lepidoptera: Noctuidae) via *Microgaster* sp. (Hymenoptera: Braconidae). Russia: **EP** (N). – Europe (WE).
- Mesochorus agnellonis** Schwenke, 1999. Russia: **FE** (without regions: Riedel, 2018a). – Europe (WE, SE, EE), Kyrgyzstan.
- Mesochorus americanus** Cresson, 1872 (*Mesochorus scitulus* Cresson, 1872; *M. aprilinus* Ashmead, 1896; *M. frontalis* Ashmead, 1899). Parasitoid of Bucculatricidae, Crambidae, Erebidae, Geometridae, Noctuidae, Pieridae and Sphingidae (Lepidoptera) via Braconidae (Hymenoptera). Russia: **FE** (KA). – Europe (WE, NE, SE), N America.
- Mesochorus arenarius** (Haliday, 1838) [Cryptus] (*Mesochorus melas* Fonscolombe, 1852; *M. nigripes* Ratzeburg, 1852; *M. gibbulus* Holmgren, 1856). ? Russia: **EP** (C). – Europe (WE, NE, SE, EE), Canary Is, N Africa, Turkey, Afghanistan, Central Asia, Greenland, N America.
- Mesochorus areolaris** Ratzeburg, 1852. ? Russia: **EP** (C). – Europe (WE).
- Mesochorus atriventris** Cresson, 1872. Parasitoid of *Acleris* sp. (Lepidoptera: Tortricidae). Russia: **EP** (N). – Europe (WE, NE, SE), N America.
- Mesochorus boreomontanus** Schwenke, 1999. Russia: **EP** (N). – Europe (WE, NE, SE).
- Mesochorus brevipetiolatus** Ratzeburg, 1844. Parasitoid of Geometridae, Noctuidae, Pieridae, Sphingidae, Tortricidae and Yponomeutidae (Lepidoptera); also recorded from *Oulema* sp. (Coleoptera: Chrysomelidae). ? Russia: **EP** (NW, E, S). – Europe (WE, NE, EE).
- Mesochorus britannicus** Schwenke, 1999. Parasitoid of *Eulithis populata* L. (Lepidoptera: Geometridae) via

- Cryptopimpla* sp. (Hymenoptera: Ichneumonidae). Russia: **EP** (N, C). – Europe (WE, NE, EE), Kyrgyzstan.
- Mesochorus cacuminis** Schwenke, 1999. Russia: **EP** (N). – Europe (WE).
- Mesochorus caucasicus** Riedel, 2018. Russia: **EP** (NC).
- Mesochorus cimbicis** Ratzeburg, 1844 (*Mesochorus confusus* Holmgren, 1860; *M. longicauda* Thomson, 1886; *M. columbinus* Schwenke, 1999). Parasitoid of *Trichiosoma nanae* Vikberg et Viitasaari and *Trichiosoma* sp. (Hymenoptera: Cimbicidae) via *Olesicampe pubescens* Ratz. (Hymenoptera: Ichneumonidae); there are many other records from various Lepidoptera and Cimbicidae via Braconidae, Ichneumonidae (Hymenoptera) and Tachinidae (Diptera). Russia: **EP** (N, ? NW, ? C, ? S), **FE** (KA). – Europe (WE, NE, SE, EE), Turkey, ? India.
- Mesochorus curvulus** Thomson, 1886 (*Mesochorus kincaidi* Ashmead, 1902; *M. bipartitus* Schwenke, 1999; *M. cinctus* Schwenke, 1999). Parasitoid of Crambidae, Geometridae, Noctuidae and Pieridae (Lepidoptera). Russia: **EP** (N), ? **WS** (OM). – Europe (WE, NE, SE, EE), Madeira Is, N America, Mexico.
- Mesochorus declinans** Habermehl, 1922. Parasitoid of *Pristiphora abietina* Christ (Hymenoptera: Tenthredinidae). Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Mesochorus dilutus** Ratzeburg, 1844. Parasitoid of Erebiidae, Gelechiidae, Geometridae and Tortricidae (Lepidoptera). Russia: **EP** (C). – Europe (WE).
- Mesochorus discitergus** (Say, 1835) [Cryptus] (*Mesochorus vitreus* Walsh, 1861; *M. obliquus* Cresson, 1872; *M. facialis* Bridgman, 1884; *M. pulchellus* Cook et Davis, 1891; *M. infernalis* Viereck, 1911; *M. nigrisignus* Viereck, 1911; *M. narangae* Uchida, 1930; *M. nigristemmaticus* Uchida, 1931; *M. baueri* Schwenke, 1999). Parasitoid of various Lepidoptera via Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (N, C), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey, Israel, China, Korean Peninsula, Japan, N America, India, SE Asia, Afrotropics, S America, Australia.
- Mesochorus dispar** Brischke, 1880. Parasitoid of Gracillariidae, Notodontidae and Sphingidae (Lepidoptera) via Braconidae (Hymenoptera). Russia: **EP** (N, ? NW). – Europe (WE, SE, EE).
- Mesochorus eichhorni** Schwenke, 1999. Russia: **EP** (N). – Europe (WE).
- Mesochorus errabundus** Hartig, 1838. Parasitoid of *Blondelia nigripes* Fll. and *B. piniariae* Hartig (Diptera: Tachinidae). Russia: **EP** (N). – Europe (WE, NE).
- Mesochorus formosus** Bridgman, 1882 (*Mesochorus convexicollis* Thomson, 1886; *M. turbidus* Schwenke, 1999). Parasitoid of *Gracillaria syringella* F. and *Phyllonorycter* spp. (Lepidoptera: Gracillariidae) via Braconidae (Hymenoptera). ? Russia: **EP** (S). – Europe (WE, NE, SE, EE).
- Mesochorus frondosus** Schwenke, 1999. Russia: **EP** (N). – Europe (WE).
- Mesochorus fulgurans** Curtis, 1833 (*Cryptus fulgurans* Haliday, 1838; *Mesochorus fulvus* Thomson, 1886; *M. pectinipes* Thomson, 1886; *M. suecicus* Dalla Torre, 1902; *M. minowai* Uchida, 1929). Parasitoid of *Abraxas grossulariata* L., *Eulithis populata* L., *Hydriomena impluviata* Den. et Schiff. and *Parectropis similaria* Hufn. (Lepidoptera: Geometridae) via Ichneumonidae (Hymenoptera) and Tachinidae (Diptera). Russia: **EP** (N, ? NW, ? NC), **FE** (? PR, ? KA; without regions: Riedel, 2018a). – Europe (WE, NE, SE, EE), Armenia, Turkey, Kyrgyzstan, China (NC/NW), Japan.
- Mesochorus fulgurator** Horstmann, 2006. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Turkey, China (SW).
- Mesochorus fuscicornis** Brischke, 1880. Parasitoid of *Abraxas* spp. (Lepidoptera: Geometridae) and *Strongylogaster* sp. (Hymenoptera: Tenthredinidae). ? Russia: **EP** (C). – Europe (WE, NE, SE, EE), Azerbaijan, China (NE).
- Mesochorus gemellus** Holmgren, 1860 (*Mesochorus brevicollis* Thomson, 1886). Parasitoid of various Lepidoptera via Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (N). – Europe (WE, NE, SE, EE), N America.
- Mesochorus giberius** (Thunberg, 1822) [Ichneumon] (*Mesochorus thoracicus* Gravenhorst, 1829; *M. sylvarum* Curtis, 1833). Parasitoid of several Chrysomelidae species (Coleoptera). Russia: **EP** (N, NW, ? C, ? S), **FE** (KA). – Europe (WE, NE, SE, EE), Turkey, Mongolia, China (NE), Korean Peninsula, Japan, Nepal.
- Mesochorus globulator** (Thunberg, 1822) [Ichneumon] (*Mesochorus sericeus* Brischke, 1880). Parasitoid of Tenthredinidae (Hymenoptera) via Braconidae and Ichneumonidae (Hymenoptera). ? Russia: **EP** (C). – Europe (WE, NE, EE), N America.
- Mesochorus haeselbarthi** Schwenke, 1999. Russia: **EP** (N). – Europe (WE, NE, SE).
- Mesochorus horstmanni** Schwenke, 1999. Russia: **EP** (N). – Europe (WE).
- Mesochorus hortensis** Schwenke, 1999. Russia: **EP** (N). – Europe (WE, EE).
- Mesochorus kuwayamae** Matsumura, 1926. Parasitoid of *Dendrolimus* spp. (Lepidoptera: Lasiocampidae) via Braconidae (Hymenoptera). Russia: **FE** (SA). – China (NC), Japan (Hok).
- Mesochorus lacassus** Schwenke, 1999. Russia: **EP** (N). – Europe (SE).
- Mesochorus lapponicus** Thomson, 1885. Russia: **EP** (N). – Europe (WE, NE, EE).
- Mesochorus laticis** Hartig, 1838 (*Mesochorus georgievi* Schwenke, 2004). Russia: **EP** (N), **FE** (without regions: Riedel, 2018a). – Europe (WE, NE, SE, EE), Georgia, Turkey.
- Mesochorus longistigma** Schwenke, 2002. Russia: **EP** (C).
- Mesochorus moskwanus** Schwenke, 1999. Russia: **EP** (C).
- Mesochorus olerum** Curtis, 1833 (*Mesochorus pectoralis* Ratzeburg, 1844; *M. rapae* Schwenke, 1999). Parasitoid

- of Erebididae and Pieridae (Lepidoptera) via Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (N, ? C), ? **ES** (IR). – Europe (WE, NE, SE, EE), Turkey.
- Mesochorus orbitalis** Holmgren, 1860. Parasitoid of *Emmelinea monodactyla* L. (Lepidoptera: Pterophoridae) and *Epinotia* sp. (Lepidoptera: Tortricidae) via Braconidae (Hymenoptera). ? Russia: **EP** (NW, C). – Europe (WE, NE, EE), Azerbaijan.
- Mesochorus ovimaculatus** Schwenke, 1999 (*Mesochorus diluvius* Schwenke, 1999). Russia: **EP** (N). – Europe (WE, NE, EE).
- Mesochorus pallipes** Brischke, 1880 (*Mesochorus brunneus* Brischke, 1880; *M. rufipes* Brischke, 1880; *M. stigmaticus* Brischke, 1880; *M. albipes* Thomson, 1886; *M. crassicornus* Thomson, 1886). Parasitoid of various Lepidoptera and Tenthredinidae (Hymenoptera). ? Russia: **EP** (S). – Europe (WE, NE, EE), Azerbaijan.
- Mesochorus pectinatus** Szépligeti, 1901. Russia: **EP** (E).
- Mesochorus pelvis** Schwenke, 2002 (*Mesochorus falcatus* Schwenke, 1999, nom. praeocc., nec Dasch, 1974; *M. pectinellus* Horstmann, 2006). Parasitoid of *Cymatophora* sp. (Lepidoptera: Drepanidae) via *Rogas* sp. (Hymenoptera: Braconidae). Russia: **EP** (NW), **FE** (without regions: Riedel, 2018a). – Europe (WE, NE, SE, EE), Japan.
- Mesochorus perticatus** Schwenke, 1999. Russia: **EP** (N). – Europe (WE).
- Mesochorus pictilis** Holmgren, 1860. Parasitoid of various Geometridae, also recorded from Erebididae and Tortricidae (Lepidoptera). Russia: **EP** (N, ? NC). – Europe (WE, NE, EE), Iran, N America.
- Mesochorus politus** Gravenhorst, 1829. Parasitoid of Geometridae (Lepidoptera) and Tenthredinidae (Hymenoptera) via Tachinidae (Diptera). Russia: **EP** (N, ? C), **FE** (PR). – Europe (WE, NE, EE), China (NC), Korean Peninsula, Japan, SE Asia.
- Mesochorus postfurcalis** Kokujev, 1927. Russia: **ES** (IR).
- Mesochorus propodealis** Riedel, 2018. Russia: **EP** (NW, S), **WS** (TM), **ES** (KR, YA, ZB). – Europe (SE), Turkey, Mongolia.
- Mesochorus pseudolapponicus** Riedel, 2018. Russia: **ES** (YA).
- Mesochorus punctipleuris** Thomson, 1886 (*Mesochorus nigriceps* Thomson, 1886, nom. praeocc., nec Brischke, 1880; *M. thomsonii* Dalla Torre, 1901; *M. thomsoni* Strobl, 1904; *M. amplitudinis* Schwenke, 1999). Parasitoid of Pieridae (Lepidoptera). Russia: **EP** (N, ? C, ? S). – Europe (WE, NE, SE, EE), Turkey, N America.
- Mesochorus rubeculus** Hartig, 1838 (*Mesochorus ocellatus* Brischke, 1880; *M. opacus* Schwenke, 1999). Parasitoid of *Bupalus* sp. (Lepidoptera: Geometridae) via *Campoplex* sp. (Hymenoptera: Ichneumonidae), *Semiothisa* sp. (Geometridae) via *Apanteles* sp. (Hymenoptera: Braconidae) and *Panolis* sp. (Lepidoptera: Noctuidae) via *Meteorus* sp. (Braconidae). Russia: **EP** (N, ? NW). – Europe (WE, NE, EE), Turkey.
- Mesochorus rufoniger** Brischke, 1880 (*Mesochorus brevigena* Thomson, 1886). Parasitoid of *Cydia* sp. (Tortricidae), *Leucoma* spp. (Erebidae) and *Zygaena* sp. (Zygaenidae). ? Russia: **EP** (NW). – Europe (WE, NE, EE).
- Mesochorus samarae** Schwenke, 1999. Russia: **EP** (E). – Iran.
- Mesochorus scandinavicus** Schwenke, 1999. Russia: **EP** (N). – Europe (NE).
- Mesochorus semirufus** Holmgren, 1860. Parasitoid of Erebididae, Noctuidae, Yponomeutidae (Lepidoptera) and Tenthredinidae (Hymenoptera). Russia: **EP** (N, ? C), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula, Japan, Nepal.
- Mesochorus skaneus** Schwenke, 1999. Russia: **EP** (N). – Europe (NE).
- Mesochorus stigmator** (Thunberg, 1822) [Ichneumon] (*Mesochorus splendidulus* Gravenhorst, 1829; *M. pallidus* Brischke, 1880; *M. stigmaticus* Thomson, 1886; *M. orgyiae* Dalla Torre, 1902). Parasitoid of various Lepidoptera and Symphyta. ? Russia: **EP** (N, NW, C, E, S). – Europe (WE, NE, SE, EE), Turkey.
- Mesochorus suomiensis** Schwenke, 1999 (*Mesochorus acutus* Schwenke, 1999). ? Russia: **EP** (N). – Europe (WE, NE).
- Mesochorus tachypus** Holmgren, 1860 (*Mesochorus macrurus* Thomson, 1886). Parasitoid of *Eupithecia lariciata* Freyer (Lepidoptera: Geometridae) and *Zeiraphera griseana* Hbn. (Lepidoptera: Tortricidae). Russia: **EP** (N). – Europe (WE, NE, EE).
- Mesochorus temporalis** Thomson, 1886. Parasitoid of Crambidae, Zygaenidae and Yponomeutidae (Lepidoptera). ? Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, China (NC).
- Mesochorus tenuiscapus** Thomson, 1886. Parasitoid of Pterophoridae (Lepidoptera). Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Mesochorus testaceus** Gravenhorst, 1829. Parasitoid of Choreutidae, Geometridae and Noctuidae (Lepidoptera) via Braconidae (Hymenoptera) and Tachinidae (Diptera). Russia: **EP** (N, ? S), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey.
- Mesochorus tetricoides** Riedel, 2017. Russia: **EP** (N).
- Mesochorus tetricus** Holmgren, 1860 (*Mesochorus curvicauda* Thomson, 1886). Recorded as parasitoid of several lepidopteran families. Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Remarks.** Riedel and Humala (2017) recorded separately *M. curvicauda* and *M. tetricus* from north Russia.
- Mesochorus townesi** Schwenke, 1999. Russia: **EP** (C).
- Mesochorus tuberculiger** Thomson, 1886 (*Mesochorus hinzi* Schwenke, 1999). Parasitoid of Crambidae and Pieridae (Lepidoptera). ? Russia: **EP** (C), **WS** (OM). – Europe (WE, NE, SE, EE).
- Mesochorus uncinctor** (Thunberg, 1822) [Ichneumon] (*Cryptus complanatus* Haliday, 1838; *Mesochorus aciculatus* Bridgman, 1881; *M. laticeps* Thomson, 1886). Parasitoid of Pieridae, Pterophoridae and Tortricidae

(Lepidoptera) via Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (N). – Europe (WE, NE, SE, EE), China (NE, NC).

Mesochorus velox Holmgren, 1860. Parasitoid of Crambidae, Plutellidae, Zygaenidae and Yponomeutidae (Lepidoptera) via *Cotesia* spp. (Hymenoptera: Braconidae). ? Russia: **WS** (OM). – Europe (WE, NE, SE, EE).

Mesochorus vittator (Zetterstedt, 1838) [Tryphon]. Parasitoid of various Lepidoptera and Tenthredinidae (Hymenoptera) via Braconidae, Ichneumonidae (Hymenoptera) and Tachinidae (Diptera). Russia: **EP** (N, ? C), ? **WS** (OM), **FE** (KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Korean Peninsula, Japan, N America, Mexico, Central America.

Mesochorus vitticollis Holmgren, 1860 (*Mesochorus hungaricus* Szépligeti, 1914). Parasitoid of Geometridae, Tortricidae, Yponomeutidae (Lepidoptera) and Tenthredinidae (Hymenoptera) via Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (N, ? NW). – Europe (WE, NE, SE, EE), Turkey.

STICTOPISTHUS Thomson, 1886. Type species: *Mesochorus bilineatus* Thomson, 1886. Worldwide genus. Number of species: World – 64, Palaearctic – 25, Russia – 1.

Stictopisthus clavatus (Brischke, 1880) [Mesochorus]. ? Russia: **EP** (S). – Europe (WE).

Subfamily METOPIINAE

A.I. KHALAIM

Moderately large subfamily with a worldwide distribution. Koinobiont solitary endoparasitoids of various Lepidoptera. Parasitoid females oviposit into the caterpillar, the adult parasitoids emerge from the pupa.

In the World catalogue Taxapad (Yu et al., 2016), many Palaearctic metopiine species were erroneously recorded from Ukraine, i. e. all species from the book “Fauna of Ukraine” (Tolkanitz, 1987) were treated as occurring in Ukraine, and there are many other errors in treatment of localities in V. Tolkanitz’s publications written in Russian. We provide here correct Russian distributions for all species.

The genera *Ischyrocnemis* Holmgren, 1858 and the monotypic *Apolophus* Townes, 1971 (unknown from Russia) are considered here within the Metopiinae (Kasparyan, 2019a).

Number of taxa: World – 26 genera and about 867 species, Palaearctic – 18/407, Russia – 16/214.

R e f e r e n c e s. Clément, 1930; Momoi, 1966b; Kusigemati, 1967a, 1967b, 1968, 1971, 1984b, 1987b; Momoi, Kusigemati, 1970; Aeschlimann, 1973a, 1973b, 1975, 1989; Tolkanitz, 1977, 1984, 1985, 1986, 1987, 1992a, 1992b, 1993a, 1993b, 1994, 1995a, 1995b, 1999a, 1999b, 1999c, 2003a, 2003b, 2004, 2006, 2007a, 2007b, 2010, 2011, 2012, 2014, 2015; Kasparyan, 1985, 2019a; Broad, Shaw, 2005; Tomkovich, Tolkanitz, 2013; Choi et al., 2014d, 2015b, 2016a,

2016c, 2017; Kolarov, 2014; Zhang et al., 2016; Watanabe, 2014; Choi, Lee, 2017a.

ACERATASPIS Uchida, 1934 (*Cerataspis* Uchida, 1934, nom. praeocc., nec Gray, 1828). Type species: *Cerataspis clavata* Uchida, 1934. East Palaearctic and Oriental genus. Number of species: World – 7, Palaearctic and Russia – 2.

Acerataspis clavata (Uchida, 1934) [Cerataspis]. Russia: **FE** (KU). – China, Korean Peninsula, Japan.

Acerataspis sinensis Michener, 1940. Russia: **FE** (KU). – China, Japan (Hok, Hon, Shi).

CARRIA Schmiedeknecht, 1924. Type species: *Carria paradoxa* Schmiedeknecht, 1924. Predominantly Holarctic genus with one species recorded in New Zealand. Number of species: World – 8, Palaearctic – 4, Russia – 3.

Carria incarinata Kusigemati, 1968. Russia: **FE** (PR). – Japan (Kyu).

Carria paradoxa Schmiedeknecht, 1924. Russia: **WS** (KM). – Europe (WE, NE, EE).

Carria shimamatsensis Kusigemati, 1968. **FE** (PR). – Japan (Hok).

CHORINAEUS Holmgren, 1858 (*Polyrhaddus* Walsh, 1873). Type species: *Exochus funebris* Gravenhorst, 1829. Predominantly Holarctic genus with several species in Oriental and Neotropical regions. Number of species: World – 45, Palaearctic – 36, Russia – 22.

Chorinaeus aizanensis Kusigemati, 1967. Russia: **FE** (AM, KH, PR). – China (SE), Japan (Hok, Hon).

Chorinaeus australis Thomson, 1887 (*Chorinaeus flavifrons* Schmiedeknecht, 1925; *Tricetes xanthopsis* Townes, 1946). Parasitoid of *Operophtera brumata* L. (Geometridae). Russia: **ES** (YA), **FE** (AM). – Europe (WE, NE, SE, EE).

Chorinaeus brevicar Thomson, 1887. Russia: **EP** (N, NW, NC), **ES** (IR). – Europe (WE, NE, SE, EE), Mongolia.

Chorinaeus brevis Tolkanitz, 1995. Russia: **FE** (KH, KU).

Chorinaeus clypeatus Kusigemati, 1967. Russia: **ES** (IR). – Europe (EE), Japan.

Chorinaeus cristator (Gravenhorst, 1829) [Exochus]. Parasitoid of lepidopterans *Acleris* sp., *Archips* sp., *Cnephasia* sp., *Exapate* sp., *Ptycholomoides* sp., *Sparganothis* sp., *Tortricodes* sp., *Tortrix* sp., *Zeiraphera* sp. (Tortricidae), *Agonopterix* spp. (Depressariidae), *Chloroclystis* sp., *Eupithecia* sp. (Geometridae), *Nonagria* sp. (Noctuidae), *Nothris* sp. (Gelechiidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (NW, C, CR), **WS** (AL), **ES** (BR, YA, ZB). – Europe (WE, NE, SE, EE), Caucasus, Turkey.

Chorinaeus ecarinatus Tolkanitz, 1992. Russia: **ES** (ZB).

Chorinaeus eniwanus Kusigemati, 1967. Russia: **FE** (PR, SA, KU). – Korean Peninsula, Japan (Hok, Hon).

Chorinaeus flavipes Bridgman, 1881. Parasitoid of *Rhodophaea formosa* Haw. (Pyrilidae) and *Zeiraphera griseana*

- Hbn. (Tortricidae). Russia: **EP** (N), **ES** (TU), **FE** (KH, KU). – Europe (WE, NE, EE), Turkey, Japan (Hok).
- Chorinaeus funebris** (Gravenhorst, 1829) [Exochus]. Parasitoid of lepidopterans *Acleris* spp., *Choristoneura* sp., *Clepsis* sp., *Epinotia* sp., *Eupoecilia* sp., *Exapate* sp., *Grapholita* sp., *Olethreutes* sp., *Ptycholomoides* sp., *Zeiraphera* sp. (Tortricidae), *Agonopterix* sp. (Depressariidae), *Eupithecia* sp. (Geometridae), *Teleiodes* sp. (Gelechiidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TK), **ES** (TU, IR, BR, ZB), **FE** (KH, SA, KU). – Europe (WE, NE, SE, EE), Turkey, Central Asia, Kazakhstan, Japan, N America.
- Chorinaeus gratus** Tolkantitz, 1995. Russia: **FE** (KH).
- Chorinaeus hastianae** Aeschlimann, 1975. Parasitoid of *Acleris hastiana* L. (Tortricidae). Russia: **EP** (N, NW). – Europe (WE, EE).
- Chorinaeus laricianae** Kusigemati, 1972. Parasitoid of *Cryptoblabes laricana* Mutsuura (Pyralidae). Russia: **FE** (KU). – Japan (Hon).
- Chorinaeus longicornis** Thomson, 1887. Parasitoid of lepidopterans *Archips rosana* L., *Choristoneura murinana* Hbn. (Tortricidae) and *Diurnea fagella* Den. et Schiff. (Lypusidae). Russia: **EP** (N, C, NC, CR), **ES** (ZB), **FE** (KH). – Europe (WE, NE, SE, EE), Caucasus, Central Asia, Kazakhstan.
- Chorinaeus rhenanus** Aeschlimann, 1981. Russia: **EP** (C). – Europe (WE, EE).
- Chorinaeus scitulus** Kusigemati, 1984. Russia: **ES** (ZB). – Mongolia.
- Chorinaeus scrobipalpa** Aeschlimann, 1983. Parasitoid of *Scrobipalpa nitentella* Fuchs (Gelechiidae). Russia: **EP** (E), **FE** (PR). – Europe (WE, NE, EE), Kazakhstan.
- Chorinaeus spiracularis** Tolkantitz, 1995. Russia: **FE** (KH).
- Chorinaeus subcarinatus** Holmgren, 1858 (*Chorinaeus longicalcar* Thomson, 1887). Parasitoid of lepidopterans *Choristoneura* spp. (Tortricidae), *Agonopterix* spp. (Depressariidae), *Caripeta* spp., *Hypagyrtis* spp., *Macaria* sp., *Protopoarmia* spp. (Geometridae) and *Yponomeuta* sp. (Yponomeutidae). Russia: **EP** (C), **ES** (IR, BR, YA), **FE** (AM, KH, SA, MG). – Europe (WE, NE, SE, EE), Armenia, Turkey, Central Asia, Kazakhstan, Korean Peninsula, Japan, N America.
- Chorinaeus taetricus** Tolkantitz, 1995. Russia: **UR**. – ? Europe (EE).
- Chorinaeus taigensis** Tolkantitz, 1995. Russia: **WS** (TM).
- Chorinaeus talpa** (Haliday, 1838) [Exochus]. Parasitoid of *Caloptilia semifascia* Haw. (Gracillariidae) and *Spilonota laricana* Heinem. (Tortricidae). Russia: **EP** (without regions: Tolkantitz, 2007a), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, EE), Central Asia.
- COLPOTROCHIA** Holmgren, 1856 (*Exochoides* Cresson, 1868; *Alcocerus* Foerster, 1869; *Scallama* Cameron, 1899; *Ischyrocnemopsis* Ashmead, 1900; *Aethris* Schulz, 1906; *Inoresa* Cameron, 1909; *Synchleteroides* Brèthes, 1909; *Colpotrochioides* Uchida, 1930). Type species: *Ichneumon elengatulus* Schrank, 1782 (= *Sphex cincta* Scopoli, 1763). Predominantly Holarctic, Oriental and Neotropical genus. Number of species: World – 62, Palaearctic – 22, Russia – 7.
- Colpotrochia cincta** (Scopoli, 1763) [Sphex] (*Ichneumon elegantulus* Schrank, 1781; *I. mandator* Fabricius, 1787; *Colpotrochia affinis* Vollenhoven, 1875). Parasitoid of lepidopterans *Acronicta* spp., *Aletia* sp., *Axylia* spp., *Mythimna turca* L. and *Papestra* sp. (Noctuidae). Russia: **EP** (N, NW, C, E, S, NC), **UR**, **ES** (IR, ZB), **FE** (AM, PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, Korean Peninsula, Japan.
- Colpotrochia fusca** Matsumura, 1931. Russia: **FE** (KU). – China (NE, NC), Korean Peninsula, Japan.
- Colpotrochia interrupta** Momoi, 1966. Russia: **FE** (SA). – Japan (Hon).
- Colpotrochia munda** Momoi, 1966. Russia: **FE** (PR). – China (NC), Japan (Hok, Hon, Kyu).
- Colpotrochia nipponensis** Uchida, 1930. Russia: **FE** (PR). – China (NE), Korean Peninsula, Japan (Hon, Shi).
- Colpotrochia politula** Kuzin, 1950. Russia: **FE** (PR).
- Colpotrochia rubella** (Kusigemati, 1971) [Triclistus]. Russia: **FE** (PR). – Japan (Hok, Hon, Kyu, Ryu).
- DREPANOCTONUS** Pfankuch, 1911 (*Zonopius* Benoit, 1961). Type species: *Drepanoctonus tibialis* Pfankuch, 1911. Palaearctic, Afrotropical and Australian genus. Number of species: World – 6, Palaearctic – 3, Russia – 2.
- Drepanoctonus bicolor** Kusigemati, 1971. Russia: **FE** (PR, KU). – Japan (Hok).
- Drepanoctonus tricoloratus** (Šedivý, 1971) [Hypsicera]. Russia: **ES** (ZB). – Europe (EE), Georgia, Turkey, Mongolia.
- EXOCHUS** Gravenhorst, 1829 (*Amesolytus* Foerster, 1869; *Mima* Davis, 1897; *Xanthexochus* Morley, 1913). Type species: *Ichneumon gravipes* Gravenhorst, 1820. Most described species are from the Holarctic region; the genus is also well represented in Neotropical, Afrotropical and Oriental regions. Mostly parasitoids of various Tortricidae and less commonly species of other lepidopteran families. Number of species: World – about 290 (taxonomical status of several species is unclear), Palaearctic – 157, Russia – 83.
- Exochus abdominalis** Tolkantitz, 2003. Russia: **FE** (PR).
- Exochus albicinctus** Holmgren, 1873 (*Exochus anospilus* Thomson, 1887; *Amesolytus nigricans* Szépligeti, 1898). Parasitoid of *Agonopterix assimilella* Tr. (Depressariidae) and *Cydia strobilella* L. (Tortricidae). Russia: **EP** (NC), **UR**, **WS** (TM), **ES** (IR), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Armenia, Iran, Central Asia, Kazakhstan, Mongolia.
- Exochus albomarginatus** Szépligeti, 1901. Russia: **EP** (E). – Europe (EE).

- Exochus alpinus** (Zetterstedt, 1838) [Bassus]. Parasitoid of *Archips oporana* L., *A. xylosteana* L. and *Hedya dimidiana* Cl. (Tortricidae). Russia: **EP** (N, S), **ES** (ZB), **FE** (KH, PR). – Europe (WE, NE, EE), Kazakhstan, Korean Peninsula.
- Exochus antennalis** Tolkanitz, 1992. Russia: **ES** (ZB).
- Exochus antis** Tolkanitz, 2003. Russia: **FE** (AM, KH, PR). – Korean Peninsula.
- Exochus argutus** Tolkanitz, 1993. Russia: **EP** (NW, C), **ES** (ZB), **FE** (SA). – Europe (EE), Mongolia, Korean Peninsula.
- Exochus assimilis** Kusigemati, 1984. Russia: **ES** (TU, ZB), **FE** (PR). – Mongolia.
- Exochus ater** Tolkanitz, 1993. Russia: **ES** (YA).
- Exochus atrofemoratus** Tolkanitz, 1993. Russia: **EP** (NC).
- Exochus belokobylskii** Tolkanitz, 2001. Russia: **FE** (PR).
- Exochus britannicus** Morley, 1911. Russia: **EP** (CR), **ES** (YA, ZB), **FE** (SA, KA). – Europe (WE, SE, EE), Turkey, Iran, Turkmenistan, Kazakhstan, Korean Peninsula.
- Exochus castaniventris** Brauns, 1896 (*Exochus meridionalis* Seyrig, 1927; *E. erkini* Kolarov, 1986). Russia: **EP** (S). – Europe (WE, SE, EE), Egypt, Georgia, Turkey, Iran, Uzbekistan, Kazakhstan.
- Exochus cephalotes** Tolkanitz, 2007. Russia: **ES** (YA).
- Exochus certus** Tolkanitz, 2003. Russia: **FE** (KU).
- Exochus citripes** Thomson, 1887. Russia: **EP** (N). – Europe (WE, SE, EE).
- Exochus concitus** Tolkanitz, 2001. Russia: **EP** (N).
- Exochus consimilis** Holmgren, 1858 (*Exochus parvispina* Thomson, 1887; *E. decoloratus* Schmiedeknecht, 1924; *E. subalpinus* Schmiedeknecht, 1924). Parasitoid of *Acrobasis tricolorella* Inoue, *Homoeosoma nimbella* Dup. (Pyralidae), *Ancylys myrtillana* Tr. (Tortricidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (N, NW, C, NC), **ES** (YA, ZB), **FE** (PR, SA, KA). – Europe (WE, NE, EE), N Africa, Central Asia, Kazakhstan, Mongolia, Korean Peninsula, Japan (Hon), Greenland.
- Exochus convexus** Tolkanitz, 2003. Russia: **FE** (KA).
- Exochus derasus** Tolkanitz, 2003. Russia: **FE** (KU).
- Exochus destitutus** Tolkanitz, 2003. Russia: **FE** (PR). – Korean Peninsula.
- Exochus dilatatus** Tolkanitz, 2003. Russia: **FE** (PR).
- Exochus erythronotus** (Gravenhorst, 1820) [Ichneumon] (*Exochus concinnus* Holmgren, 1858; *E. pumilus* Holmgren, 1873; *Amesolytus rufidorsum* Szépligeti, 1898; *Exochus ghigii* Ferrière, 1929). Parasitoid of *Plutella xylostella* L. (Plutellidae), *Euzophera bigella* Z. (Pyralidae) and *Lobesia botrana* Den. et Schiff. (Tortricidae). Russia: **EP** (C, CR). – Europe (WE, NE, SE, EE), Turkey.
- Exochus ferus** Tolkanitz, 1993. Parasitoid of *Exapate congelatella* Clerck (Tortricidae). Russia: **EP** (NW, C, NC), **WS** (without regions: Tolkanitz, 2007a), **ES** (IR, ZB), **FE** (SA). – Europe (NE, EE), Armenia, Turkey, Kazakhstan.
- Exochus fidus** Tolkanitz, 2003. Russia: **FE** (KA).
- Exochus flavomarginatus** Holmgren, 1856. Parasitoid of *Eudonia truncicolella* Stainton (Crambidae). Russia: **EP** (NW), **ES** (IR), **FE** (AM). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Mongolia, Korean Peninsula, Japan.
- Exochus flexus** Tolkanitz, 2003. Russia: **ES** (IR, ZB), **FE** (KH).
- Exochus foveolatus** Schmiedeknecht, 1924 (*Exochus foveolatus* Habermehl, 1925). Russia: **EP** (NC), **WS** (without regions: Tolkanitz, 2007a), **ES** (IR, BR, YA, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Exochus frontellus** Holmgren, 1858 (*Exochus shimamatsensis* Kusigemati, 1971). Russia: **FE** (AM, KH, PR). – Europe (WE, NE, EE), Korean Peninsula, Japan (Hok, Hon).
- Exochus grandis** Tolkanitz, 2003. Russia: **FE** (PR).
- Exochus gratus** Tolkanitz, 2003. Russia: **FE** (SA). – Korean Peninsula.
- Exochus gravipes** (Gravenhorst, 1820) [Ichneumon]. Parasitoid of *Acrobasis consociella* Hbn. (Pyralidae), *Sparganothis* sp. (Tortricidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (N, NW, C, NC), **ES** (IR, BR, YA, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, China (NE), Korean Peninsula, N America.
- Exochus gravis** Gravenhorst, 1829. Russia: **EP** (C, NW, S, CR). – Europe (WE, NE, SE, EE), Turkey.
- Exochus guttatus** Tolkanitz, 1999. Russia: **EP** (PR, KU). – Europe (EE), Korean Peninsula.
- Exochus hirsutus** Tolkanitz, 1993. Russia: **EP** (E). – Europe (EE).
- Exochus horridus** Tolkanitz, 2001. Russia: **EP** (N).
- Exochus incidens** Thomson, 1887. Russia: **EP** (N). – Europe (WE, NE, SE, EE).
- Exochus ignobilis** Tolkanitz, 2014. Russia: **FE** (PR).
- Exochus kasparyani** Tolkanitz, 2001. Russia: **EP** (N).
- Exochus kaszabi** Kusigemati, 1984. Russia: **ES** (ZB). – Mongolia.
- Exochus kusigematii** Tolkanitz, 2007 (*Exochus erythropus* Kusigemati, 1971, nom. praeocc., nec Cameron, 1902). Russia: **FE** (PR, KU). – Japan (Hok, Hon, Kyu).
- Exochus kuslitzkyi** Tolkanitz, 2003. Russia: **FE** (PR, SA, KU). – Europe (NE, EE).
- Exochus latiareolus** Tolkanitz, 2003. Russia: **FE** (KH, PR, SA). – Europe (EE).
- Exochus lenis** Tolkanitz, 2003. Russia: **FE** (PR).
- Exochus lentipes** Gravenhorst, 1829 (*Exochus cylindricus* Holmgren, 1858; *E. notatus* Holmgren, 1858; *E. woldstedtii* Holmgren, 1873; *E. nigroscutellatus* Kiss, 1926). Parasitoid of lepidopterans *Anacampsis* sp. (Gelechiidae), *Geometra* sp. (Geometridae), *Acleris* sp., *Ancylys* spp., *Archips* sp. (Tortricidae), *Prays oleae* Bernard (Praydidae) and *Yponomeuta padella* L. (Yponomeutidae). Russia: **EP** (N, NW), **ES** (IR, BR, YA, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), China (NC).

- Exochus lictor** Haliday, 1838 (*Exochus pectoralis* Haliday, 1838; *E. decoratus* Holmgren, 1873). Parasitoid of lepidopterans *Acleris* spp., *Ancylis* sp., *Archips* spp., *Argyrotaenia* spp., *Epinotia* spp., *Eudemis* sp., *Pseudexentera* sp., *Sparganothis* sp., *Zeiraphera* sp. (Tortricidae) and *Gelechia* sp. (Gelechiidae). Russia: **EP** (N, NW, C, NC), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, China (NE), Korean Peninsula, Japan (Hok, Hon), N America.
- Exochus limbatus** Tolkanitz, 1993. Russia: **EP** (N).
- Exochus lineifrons** Thomson, 1887. Russia: **ES** (IR, ZB), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, EE), Georgia, Turkey, Korean Peninsula.
- Exochus melanius** Tolkanitz, 1999. Russia: **EP** (N).
- Exochus mirus** Tolkanitz, 2003. Russia: **FE** (PR).
- Exochus mitratus** Gravenhorst, 1829 (*Exochus affinis* Holmgren, 1858; *E. australis* Thomson, 1894; *E. pseudaffinis* Strobl, 1903; *E. paradoxus* Schmiedeknecht, 1924; *E. punctifer* Schmiedeknecht, 1924). Parasitoid of *Eudemis porphyrana* Hbn. (Tortricidae), *Phycita roborella* Den. et Schiff. (Pyralidae), *Psoricoptera gibbosella* Z. (Gelechiidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (NW, C, E, S), **WS** (AL), **ES** (IR, ZB), **FE** (AM, PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NE), Japan (Hon), Korean Peninsula, N America.
- Exochus momoi** Tolkanitz, 2007 (*Exochus affinis* Momoi et Kusigemati, 1970, nom. praeocc., nec Holmgren, 1858). Russia: **FE** (PR). – Korean Peninsula, Japan (Hon, Shi, Kyu, Ryu).
- Exochus morionellus** Holmgren, 1858 (*Exochus gemniferanae* Hedwig, 1952). Parasitoid of *Cydia* spp. (Tortricidae) and *Parornix* sp. (Gracillariidae). ? Russia: **EP** (N), **ES** (YA). – Europe (WE, NE, EE), Caucasus, Turkey, Mongolia.
- Exochus nigrifaciatus** Momoi, Kusigemati et Nakanishi, 1968. Russia: **FE** (KH, PR). – Korean Peninsula, Japan (Hok, Kyu).
- Exochus pictus** Holmgren, 1858. Russia: **EP** (N), **WS** (TM), **FE** (KH, KU). – Europe (WE, NE, SE, EE), Caucasus, Japan (Hon), N America.
- Exochus pilosus** Tolkanitz, 2003. Russia: **FE** (PR).
- Exochus plicatus** Tolkanitz, 1999. Russia: **ES** (YA).
- Exochus prosopius** Gravenhorst, 1829 (*Exochus maculatus* Brischke, 1871; *E. procerus* Holmgren, 1873; *E. dioszeghyi* Kiss, 1926). Russia: **EP** (N, NW, NC, CR), **WS** (without regions: Tolkanitz, 2007a), **ES** (IR, ZB), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Turkey, Japan (Hok, Hon).
- Exochus punctus** Holmgren, 1858 (*Exochus melanarius* Holmgren, 1873). Russia: **EP** (N), **ES** (YA), **FE** (PR). – Europe (NE, EE).
- Exochus ratzeburgi** Holmgren, 1858. Russia: **EP** (? NW, C), **ES** (YA). – Europe (NE, EE).
- Exochus rectus** Tolkanitz, 1999. Russia: **FE** (PR). – Kazakhstan.
- Exochus selenanae** Tolkanitz, 1999. Parasitoid of *Ancylis selenana* Guenée and *Pandemis cerasana* Hbn. (Tortricidae). Russia: **EP** (CR), **FE** (AM). – Europe (EE), Korean Peninsula.
- Exochus semilividus** Vollenhoven, 1875 (*Exochus longicornis* Thomson, 1887). Parasitoid of *Argyrotaenia ljugiana* Thunb. (Tortricidae). Russia: **FE** (SA, KU). – Europe (WE, NE, SE, EE), Egypt, Caucasus, Turkey, China (NE), Korean Peninsula.
- Exochus similis** Tolkanitz, 1992. Russia: **EP** (without regions: Tolkanitz, 2007a), **ES** (YA, ZB), **FE** (PR, SA, MG). – Europe (EE).
- Exochus simulans** Tolkanitz, 2003. Russia: **FE** (PR).
- Exochus suborbitalis** Schmiedeknecht, 1924. Russia: **EP** (N; without regions: Tolkanitz, 2007a), **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, Mongolia, Korean Peninsula.
- Exochus synsialis** Tolkanitz, 1999. Russia: **EP** (C).
- Exochus szepligetii** Bajari, 1961 (*Amesolytus melanarius* Szépligeti, 1898, nom. praeocc., nec Holmgren, 1873). Russia: **EP** (without regions: Tolkanitz, 2007a), **WS** (AL), **ES** (ZB), **FE** (KA). – Europe (NE, EE), Azerbaijan, Kazakhstan.
- Exochus taigensis** Tolkanitz, 2001. Russia: **FE** (KH, PR).
- Exochus tectus** Tolkanitz, 1993. Russia: **WS** (without regions: Tolkanitz, 2007a), **ES** (BR), **FE** (KA).
- Exochus tenius** Tolkanitz, 2003. Russia: **FE** (KU).
- Exochus thomsoni** Schmiedeknecht, 1924 (*Exochus crassicornis* Thomson, 1894, nom. praeocc., nec Gravenhorst, 1829). Russia: **EP** (without regions: Tolkanitz, 2007a), **ES** (IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, EE), Caucasus, Turkey, Central Asia, Kazakhstan, Mongolia, China (NE), Korean Peninsula.
- Exochus tibialis** Holmgren, 1858. Parasitoid of *Epinotia* spp. and *Lobesia botrana* Den. et Schiff. (Tortricidae). ? Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Exochus turgidus** Holmgren, 1858 (*Exochus torrenti* Ceballos, 1960). Parasitoid of *Dioryctria* spp. (Pyralidae) and *Petrova albicapitana* Busck (Tortricidae). Russia: **FE** (PR). – Europe (WE, NE, SE), Japan (Hok), N America.
- Exochus unidentatus** Uchida, 1952. Russia: **EP** (without regions: Tolkanitz, 2007a), **FE** (SA). – Mongolia, China (NC), Japan (Hok).
- Exochus utilis** Tolkanitz, 2003. Russia: **FE** (KA).
- Exochus vafer** Holmgren, 1873. Russia: **ES** (ZB). – Europe (WE, NE, EE), Turkey.
- Exochus variegatus** Tolkanitz, 1993. Russia: **FE** (KU).
- Exochus varipes** Tolkanitz, 1993. Russia: **WS** (without regions: Tolkanitz, 2007a), **ES** (BR, ZB), **FE** (KH, SA).
- Exochus velatus** Tolkanitz, 2003. Russia: **FE** (PR). – Korean Peninsula.
- Exochus ventralis** Holmgren, 1858 (*Exochus geniculatus* Holmgren, 1858). Russia: **EP** (N, C, S), **WS** (without

- regions: Tolkanitz, 2007a), **ES** (YA, ZB), **FE** (KH, PR, MG). – Europe (WE, NE, EE), Korean Peninsula.
- Exochus vexator** Tolkanitz, 1993. Russia: **FE** (PR). – Europe (EE), Caucasus, Korean Peninsula.
- Exochus villosus** Tolkanitz, 2003. Russia: **FE** (PR). – Korean Peninsula.
- HYPSICERA** Latreille, 1829 (*Metacoelus* Foerster, 1869; *Plesioexochus* Cameron, 1905). Type species: *Ichneumon femoralis* Geoffroy, 1785. Worldwide genus. Number of species: World – 62, Palaearctic – about 23, Russia – 12.
- Hypsicera brevicornis** Momoi et Kusigemati, 1970. Russia: **FE** (KH). – Japan (Hok, Ryu).
- Hypsicera britannica** Tolkanitz, 2011 (*Metacoelus anglicus* Schmiedeknecht, 1925, nom. praeocc., nec *Polyclistus* ? *anglicus* Cockerell, 1921). Parasitoid of *Epicallima formosella* Den. et Schiff. (Oecophoridae). Russia: **EP** (CR). – Europe (WE, SE, EE), Turkey.
- Hypsicera carinata** Momoi et Kusigemati, 1970. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon, Kyu, Ryu).
- Hypsicera curvator** (Fabricius, 1793) [*Ichneumon*] (*Ichneumon mansuetor* Gravenhorst, 1807; *Bassus affinis* Zetterstedt, 1838). Parasitoid of various Tortricidae species and also *Aristotelia* sp., *Nothris* sp. (Gelechiidae), *Choreutis* sp. (Choreutidae), *Hofmanoniphila* sp., *Harpella* sp. (Oecophoridae), *Ostrinia* sp. (Crambidae), *Pyrallis* sp. (Pyralidae), *Tinea* spp., *Trichophaga* sp. (Tineidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (N, NW, C, E, ? S, NC, CR), **UR**, **ES** (YA, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), N Africa, Turkey, Central Asia, Kazakhstan, Mongolia, N America, S America.
- Hypsicera ecarinata** Tolkanitz, 1986. Russia: **EP** (CR). – Europe (WE, EE).
- Hypsicera femoralis** (Geoffroy, 1785) [*Ichneumon*]. Parasitoid of *Choristoneura murinana* Hbn. (Tortricidae), *Pyrallis farinalis* L. (Pyralidae), *Tinea pellionella* L. (Tineidae) and *Yponomeuta padella* L. (Yponomeutidae). Russia: **EP** (NW, C, E), **WS** (AL), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, China (NE, CC, SE), Korean Peninsula, Japan, N America, Afrotropics, S America, Australia, New Zealand.
- Hypsicera harrelli** Momoi et Kusigemati, 1970. Russia: **FE** (KH). – Korean Peninsula, Japan (Kyu, Ryu).
- Hypsicera lepida** Tolkanitz, 1995. Russia: **FE** (PR).
- Hypsicera nigribasis** Momoi et Kusigemati, 1970. Russia: **FE** (SA). – Korean Peninsula, Japan (Hon, Kyu, Ryu).
- Hypsicera orientalis** Tolkanitz, 1995. Russia: **FE** (KH, PR, KU).
- Hypsicera parva** Kusigemati, 1971. Russia: **FE** (PR, SA). – Japan (Hok, Kyu).
- Hypsicera spiracularis** Tolkanitz, 1995. Russia: **FE** (PR).
- ISCHYROCNEMIS** Holmgren, 1858. Type species: *Ischyrocnemis goesi* Holmgren, 1858. Palaearctic genus. Number of species: World and Palaearctic – 5, Russia – 2.
- Ischyrocnemis goesi** Holmgren, 1858. Russia: **EP** (E). – Europe (WE, NE, EE), Caucasus.
- Remarks.** Records of this species from Turkmenistan and Tajikistan actually belong to other species.
- Ischyrocnemis nigrans** Kasparyan, 2019. Russia: **EP** (E). – Europe (EE), Kazakhstan.
- LAPTON** Nees, 1816. Type species: *Lapton femoralis* Nees, 1816. Monotypic European genus.
- Lapton femoralis** Nees, 1816 (*Phaenolobus nigricornis* Kiss, 1929). Russia: **EP** (C, E). – Europe (WE, SE, EE), Turkey.
- METOPIUS** Panzer, 1806 (*Peltopius* Clément, 1927; *Clemonia* Michener, 1941; *Tylopius* Townes et Townes, 1959). Type species: *Sphex vespoideus* Scopoli, 1763. Worldwide genus subdivided into seven subgenera; five subgenera occur in the Palaearctic region, and four (*Ceratopius* Clément, 1927; *Metopius* s. str.; *Peltastes* Illiger, 1807 and *Peltocarus* Thomson, 1887) are recorded from Russia. Number of species: World – 152, Palaearctic – 65, Russia – 28.
- Metopius (Ceratopius) basarukini** Tolkanitz, 1993. Russia: **FE** (SA).
- Metopius (Ceratopius) carinatus** Tolkanitz, 1985. Russia: **FE** (PR).
- Metopius (Ceratopius) citratus** (Geoffroy, 1785) [*Ichneumon*] (*Ichneumon citrarius* Olivier, 1792; *I. dissectorius* Panzer, 1805; *Metopius sicarius* Gravenhorst, 1829; *Rysolabus purpureus* Matsumura, 1911; *Metopius zagoriensis* Hensch, 1928; *M. rufofemoralis* Kim, 1958). Parasitoid of various lepidopterans from the families Geometridae and Noctuidae. Russia: **EP** (NW, C), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Turkey, Israel, China (NE, NC, CC, SW, SE), Korean Peninsula, Japan, India, Nepal.
- Metopius (Ceratopius) elegans** Tolkanitz, 1985. Russia: **FE** (PR).
- Metopius (Ceratopius) fuscipennis** Wesmael, 1849 (*Metopius rufescens* Hensch, 1928). Parasitoid of *Ectropis crepuscularia* Den. et Schiff. (Geometridae), *Eriogaster* spp. (Lasiocampidae), *Leucoma* sp. and *Spilosoma* sp. (Erebidae). ? Russia: **EP** (S, NC, CR). – Europe (WE, NE, SE, EE), Japan (Hok).
- Metopius (Ceratopius) kiushuensis** Uchida, 1932. Russia: **FE** (PR). – Korean Peninsula, Japan.
- Metopius (Ceratopius) mediterraneus** Clément, 1930. Russia: **EP** (N, C, S, CR), **UR**, **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Armenia, Kazakhstan.
- Metopius (Ceratopius) scrobiculatus** Hartig, 1838. Russia: **EP** (NW, C, E), **FE** (PR). – Europe (WE, NE, EE), Kazakhstan.
- Metopius (Metopius) anxius** Wesmael, 1849. Parasitoid of lepidopterans *Calophasia* sp., *Orthosia* sp., *Simyra* sp. (Noctuidae), *Endromis* sp. (Endromidae), *Poecilocampa* sp., *Eriogaster* sp. (Lasiocampidae), *Zerynthia*

- sp. (Papilionidae) and *Abraxas* sp. (Geometridae). Russia: **EP** (N, C, E, S, CR). – Europe (WE, NE, SE, EE), Turkmenistan.
- Metopius (Metopius) kasparyani** Tolkanitz, 1985. Russia: **FE** (PR).
- Metopius (Metopius) laeviusculus** Dominique, 1898 (*Metopius velutinus* Clément, 1930). Russia: **EP** (S, NC). – Europe (SE), Central Asia, Kazakhstan.
- Metopius (Metopius) tauricus** Clément, 1930. Russia: **EP** (CR). – Central Asia.
- Metopius (Metopius) vespoides** (Scopoli, 1763) [Spheg] (*Ichneumon vespiformis* Schrank, 1781; *I. bimaculatus* Gmelin, 1790; *Metopius circumcinctus* Foerster, 1850; *M. nasutus* Giraud, 1857; *M. clypealis* Thomson, 1887). Parasitoid of *Dendrolimus pini* L., *Eriogaster* spp., *Malacosoma* sp., *Poecilocampa* sp. (Lasiocampidae), *Lymantria lapidicola* H.-Sch., *Spilosoma* sp. (Erebidae), *Orthosia* sp., *Shargacuculia* sp. (Noctuidae), *Stauropus* sp. (Notodontidae) and *Zerynthia* sp. (Papilionidae). Russia: **EP** (E, NC, ? CR). – Europe (WE, SE, EE), Israel.
- Metopius (Peltastes) brevispina** Thomson, 1887. Parasitoid of *Acronicta* spp. (Noctuidae) and *Harpyia hermelina* Goeze (Notodontidae). Russia: **EP** (N). – Europe (WE, NE, SE, EE), Turkey.
- Metopius (Peltastes) castiliensis** Clément, 1930. Russia: **ES** (ZB), **FE** (PR). – Europe (SE), ? Tajikistan, Kazakhstan.
- Metopius (Peltastes) certus** Tolkanitz, 1993. Russia: **ES** (YA).
- Metopius (Peltastes) contractus** Clément, 1930. Russia: **EP** (C), **FE** (PR). – Armenia.
- Metopius (Peltastes) leiopygus** Foerster, 1850 (*Metopius marchandi* Dominique, 1898; *M. krapinensis* Hensch, 1928). Parasitoid of several lepidopteran species from the families Erebidae, Lasiocampidae and Noctuidae. Russia: **EP** (N, C, ? CR), **ES** (KR). – Europe (WE, NE, SE, EE), ? Caucasus, Turkey, ? Central Asia, Kazakhstan.
- Metopius (Peltastes) longispina** Clément, 1930. Russia: **FE** (PR). – Europe (WE, EE).
- Metopius (Peltastes) necatorius** (Fabricius, 1793) [Ichneumon] (*Metopius connexorius* Wesmael, 1849). Parasitoid of *Cucullia asteris* Den. et Schiff., *Mamestra brassicae* L. and *Trachea atriplicis* L. (Noctuidae). Russia: **EP** (NW, C, S), **WS** (OM), **ES** (ZB), **FE** (PR). – Europe (WE, SE, EE), Kazakhstan.
- Metopius (Peltastes) pinatorius** Brullé, 1846 (*Metopius meridionalis* Hensch, 1928; *M. gracilis* Clément, 1930). Parasitoid of various Noctuidae species, also *Furcula bifida* Brahm, *Cerura erminea* Esper, *Stauropus fagi* L. (Notodontidae) and *Saturnia pyri* Den. et Schiff. (Saturniidae). Russia: **EP** (C, S, ? CR), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Turkmenistan.
- Metopius (Peltastes) venustus** Tosquinet, 1889. Russia: **FE** (KH).
- Metopius (Peltastes) victorovi** Tolkanitz, 1992. Russia: **ES** (ZB).
- Metopius (Peltocarus) alanicus** Tolkanitz, 2002 (*Metopius notabilis* Tolkanitz, 1999, nom. praeocc., nec Morley, 1912). Russia: **EP** (NC).
- Metopius (Peltocarus) continuus** Tolkanitz, 1979. Russia: **EP** (C, CR). – Armenia, Tajikistan, Kazakhstan.
- Metopius (Peltocarus) croceicornis** Thomson, 1887 (*Ichneumon chrysopus* Lewin, 1797, nom. praeocc., nec Gmelin, 1790; *Metopius vespulator* Aubert, 1979). Parasitoid of *Cerura vinula* L., *Stauropus fagi* L. (Notodontidae), *Lasiocampa* spp. (Lasiocampidae) and *Proserpinus proserpina* Pallas (Sphingidae). Russia: **EP** (S, NC). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Iran, Kazakhstan.
- Metopius (Peltocarus) dentatus** (Fabricius, 1779) [Ichneumon] (*Ichneumon micratorius* Fabricius, 1804; *Peltastes pini* Curtis, 1824; *Metopius incisus* Clément, 1930). Parasitoid of various lepidopteran hosts from the families Endromidae, Erebidae, Lasiocampidae, Noctuidae, Notodontidae, Saturniidae and Sphingidae. Russia: **EP** (N, NW, NC, ? CR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Central Asia.
- Metopius (Peltocarus) dirus** Mocsáry, 1883. Parasitoid of *Lasiocampa* sp. (Lasiocampidae). Russia: **EP** (NC, ? CR). – Europe (EE), N Africa, Georgia, Turkey, Tajikistan, Kazakhstan.
- PERIOPE** Haliday, 1838 (*Monoplectron* Holmgren, 1856; *Oligoplectron* Foerster, 1869; *Monoplectrochus* Heinrich, 1949). Type species: *Periope auscultator* Haliday, 1838. Holarctic genus. Number of species: World – 4, Palaearctic and Russia – 3.
- Periope auscultator** Haliday, 1838 (*Monoplectron zygaenator* Holmgren, 1856). Russia: **ES** (IR). – Europe (WE, NE, EE).
- Periope hoerhammeri** (Heinrich, 1949) [Monoplectrochus]. Russia: **FE** (PR). – Europe (WE, NE, EE), Korean Peninsula, Japan (Hok).
- Periope longiceps** Bauer, 1968 (*Periope shibuyai* Kusigemati, 1968). Russia: **ES** (ZB), **FE** (PR, SA, KA). – Europe (WE, NE, EE), China (NE), Japan (Hok).
- PSEUDOMETOPIUS** Davis, 1897 (*Odontotylocomnus* Uchida, 1940; *Tylocomnoides* Uchida, 1940). Type species: *Metopius hagenii* Cresson, 1872. Holarctic genus. Number of species: World – 3, Palaearctic – 2, Russia – 1.
- Pseudometopius egawai** (Uchida, 1940) [Tylocomnoides]. Russia: **FE** (KH, PR). – China (NE), Korean Peninsula, Japan (Hon).
- SPUDAEUS** Gistel, 1848 (*Trachyderma* Gravenhorst, 1829, nom. praeocc., nec Latreille, 1829; *Tylocomnus* Holmgren, 1873). Type species: *Trachyderma scabra* Gravenhorst, 1829. Holarctic genus. Number of species: World – 6, Palaearctic – 5, Russia – 3.

- Spudaeus orientalis** (Meyer, 1930) [Tylocomnus]. Russia: **ES** (IR, ZB), **FE** (PR, SA, KU). – Korean Peninsula.
- Spudaeus rossicus** (Kuzin, 1950) [Tylocomnus]. Russia: **EP** (E). – Kazakhstan.
- Spudaeus scaber** (Gravenhorst, 1829) [Trachyderma]. Parasitoid of *Orthosia stabilis* Den. et Schiff. and *Panolis flammea* Den. et Schiff. (Noctuidae). Russia: **EP** (N, NW, C, E, S), **UR**, **WS** (? TM), **ES** (BR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Kyrgyzstan, Kazakhstan, N America.
- STETHONCUS** Townes et Townes, 1959. Type species: *Stethoncus arcticus* Townes et Townes, 1959. Holarctic, Oriental and Neotropical genus. Number of species: World – 5, Palaearctic – 2, Russia – 1.
- Stethoncus sulcator** Aubert, 1963. Russia: **EP** (NC), **ES** (BR). – Europe (WE, SE, EE), Korean Peninsula, Japan (Hok).
- SYNOPSIS** Townes et Townes, 1959. Type species: *Synopsis clepsydra* Townes et Townes, 1959. Holarctic and Neotropical genus. Number of species: World – 17, Palaearctic – 11, Russia – 6.
- Synopsis dilatata** Tolkanitz, 1984. Russia: **FE** (KU).
- Synopsis distincta** Tolkanitz, 1986. Russia: **FE** (KU).
- Synopsis hayachinensis** Kusigemati, 1968. Russia: **FE** (KU). – Japan (Hon).
- Synopsis meridionalis** Tolkanitz, 1977. Russia: **EP** (CR), **ES** (ZB). – Europe (EE).
- Synopsis nakanishii** Kusigemati, 1971. Russia: **ES** (YA). – Europe (EE), Japan (Hok).
- Synopsis orientalis** Tolkanitz, 1984. Russia: **FE** (KU).
- TRICLISTUS** Foerster, 1869. Type species: *Exochus podagricus* Gravenhorst, 1829. Almost worldwide distributed genus, unknown only from Australia. Number of species: World – 93, Palaearctic – 43, Russia – 22.
- Triclistus aethiops** (Gravenhorst, 1829) [Exochus]. Parasitoid of *Lathronympha strigana* F. (Tortricidae), *Agonopterix alpigena* Frey and *Agonopterix hypericella* Hbn. (Depressariidae). Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- Triclistus aitkeni** (Cameron, 1897) [Exochus]. Parasitoid of *Cnaphalocrocis medinalis* Guenée (Crambidae). Russia: **FE** (PR, KU). – China (SW, SE), Korean Peninsula, Japan, India, Réunion I.
- Triclistus areolatus** Thomson, 1887. Parasitoid of *Earias clorana* L. and ? *E. vernana* F. (Nolidae). Russia: **EP** (CR), **FE** (KH, PR, KA). – Europe (WE, NE, EE), Turkey.
- Triclistus concitus** Tolkanitz, 1994. Russia: **FE** (KH, PR). – Japan (Hon).
- Triclistus congener** (Holmgren, 1858) [Exochus]. Parasitoid of *Choreutis pariana* Cl. (Choreutidae) and *Perizoma alchemillata* L. (Geometridae). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), N America.
- Triclistus crassus** Townes et Townes, 1959. Parasitoid of *Operophtera* spp., *Venusia* sp. (Geometridae), *Sparganothis* sp. and *Spilonota* sp. (Tortricidae). Russia: **FE** (SA, KU, KA). – Japan (Hok), N America.
- Triclistus dauricus** Tolkanitz, 1992. Russia: **ES** (ZB).
- Triclistus facialis** Thomson, 1887. Russia: **ES** (ZB). – Europe (WE, NE, EE).
- Triclistus globulipes** (Desvignes, 1856) [Exochus] (*Exochus holmgreni* Boheman, 1863; *Triclistus fuscoapicalis* Uchida, 1930). Parasitoid of lepidopterans *Anacampsis* sp. (Gelechiidae), *Archips* spp., *Argyrotaenia* sp., *Choristoneura* spp., *Cydia* sp., *Cymolomia* sp., *Epinotia* sp., *Ptycholomoides* sp., *Tortrix* sp. (Tortricidae), *Coleophora* sp. (Coleophoridae), *Patania* sp. (Crambidae) and *Phycita* sp. (Pyralidae). Russia: **EP** (N, NW, C, E, NC), **FE** (PR, KU). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, China (SE), Korean Peninsula, Japan.
- Triclistus japonicus** Kusigemati, 1971. Parasitoid of *Helcytogramma* spp. (Gelechiidae). Russia: **FE** (PR). – Mongolia, Korean Peninsula, Japan.
- Triclistus kamijoi** Momoi et Kusigemati, 1970. Russia: **FE** (PR). – China (SW), Japan (Hok, Hon, Kyu, Ryu).
- Triclistus kotenkoi** Tolkanitz, 1992. Russia: **UR**.
- Triclistus lativentris** Thomson, 1887. Parasitoid of *Agonopterix* sp. (Depressariidae), *Ethmia* spp. (Ethmiidae), *Perizoma* sp. (Geometridae) and *Ypsolopha* spp. (Ypsolophidae). Russia: **EP** (N). – Europe (WE, NE, SE, EE), Turkey.
- Triclistus niger** (Bridgman, 1883) [Exochus]. Parasitoid of *Epinotia nanana* Tr. (Tortricidae) and *Zygaena lonice-rae* Scheven (Zygaenidae). Russia: **EP** (NW, NC, CR). – Europe (WE, NE, SE, EE), Turkey.
- Triclistus nigripes** Momoi et Kusigemati, 1970. Parasitoid of *Anomis flava* F. (Erebidae). Russia: **FE** (PR). – Japan (Hok, Hon, Shi, Kyu, Ryu).
- Triclistus pallipes** Holmgren, 1873 (*Triclistus nitifrons* Thomson, 1887). Parasitoid of lepidopterans *Acleris* spp., *Archips* sp., *Epinotia* spp., *Episimus* sp., *Lobesia* sp., *Pam-mene* sp., *Rhopobota* sp., *Zeiraphera* sp. (Tortricidae), *Eupithecia* sp. (Geometridae), *Palpita* sp. (Crambidae), *Swammerdamia* sp. and *Yponomeuta* sp. (Yponomeutidae). Russia: **EP** (N, NW, NC, CR), **ES** (BR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Canary Is, Caucasus, Turkey, Mongolia, China (SE), Japan (Ryu), N America.
- Triclistus podagricus** (Gravenhorst, 1829) [Exochus] (*Triclistus nigrifrons* Holmgren, 1873). Parasitoid of various Tortricidae species; also was reared from Gelechiidae, Geometridae, Glyphipterigidae and Pyralidae. Russia: **EP** (N, NW, C, E, S, NC, ? CR), **UR**, **ES** (YA, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, Japan (Hok), N America.
- Triclistus pubiventris** Thomson, 1887. Parasitoid of *Acleris* sp. (Tortricidae) and *Choreutis pariana* Clerck (Choreutidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).

Triclistus pygmaeus (Cresson, 1864) [Exochus]. Parasitoid of lepidopteran *Acleris* spp., *Archips* sp., *Lobesia* sp., *Zeiraphera* sp. (Tortricidae), *Desmia* sp. (Crambidae) and *Yponomeuta* sp. (Yponomeutidae). Russia: **EP** (NW, NC, CR), **ES** (IR, BR, YA, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), China (SE), ? Japan, N America.

Triclistus spiracularis Thomson, 1887. Parasitoid of *Chloroclystis v-ata* Haw., *Eupithecia trisignaria* H.-Sch., *Perizoma albulata* Den. et Schiff. (Geometridae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (N), **ES** (IR), **FE** (AM, PR). – Europe (WE, NE, EE), Turkey.

Triclistus squalidus (Holmgren, 1858) [Exochus]. Parasitoid of *Acrobasis* sp. (Pyralidae) and *Anania terrealis* Tr. (Crambidae). Russia: **EP** (? C, NC, CR). – Europe (WE, NE, EE), ? Georgia, Mongolia.

Triclistus tauricus Tolkanitz, 2006. Russia: **EP** (CR).

TRIECES Townes, 1946. Type species: *Exochus texanus* Cresson, 1872. Number of species: World – 73, Palaearctic – 22, Russia – 15.

Trieces argutus Tolkanitz, 2007. Russia: **FE** (KH, PR).

Trieces bellulus Kusigemati, 1984. Russia: **ES** (TU, ZB), **FE** (PR, KA). – Mongolia, Korean Peninsula.

Trieces dinianae Aeschlimann, 1973. Parasitoid of *Zeiraphera griseana* Hbn. (Tortricidae). Russia: **WS** (AL). – Europe (WE, NE, EE).

Trieces femoralis Tolkanitz, 2004. Russia: **FE** (AM).

Trieces flavifaciatus Kusigemati, 1967. Russia: **FE** (SA, KU). – Japan (Hok).

Trieces genalis Tolkanitz, 1995. Russia: **ES** (YA).

Trieces hokkaidensis Kusigemati, 1967. Russia: **FE** (PR, SA, KU). – Japan (Hok).

Trieces homonae Kusigemati, 1967. Parasitoid of *Homona magnanima* Diakonoff (Tortricidae). Russia: **FE** (PR). – Korean Peninsula, Japan (Kyu).

Trieces kasparyani Tolkanitz, 2014. Russia: **EP** (C).

Trieces mandiblaris Kusigemati, 1971. Russia: **FE** (PR, SA, KU). – Japan (Hok).

Trieces rufimitranae Aeschlimann, 1973. Parasitoid of *Zeiraphera rufimitrana* H.-Sch. (Tortricidae). Russia: **EP** (C), **FE** (PR). – Europe (WE, NE, EE), Caucasus.

Trieces signatus Tolkanitz, 1995. Russia: **UR**. – Europe (EE).

Trieces thuringiacus (Schmiedeknecht, 1925) [Chorinaeus]. Russia: **ES** (ZB). – Europe (WE, NE, SE, EE).

Trieces tobiasi Tolkanitz, 2004. Russia: **FE** (PR).

Trieces tricarinatus tricarinatus (Holmgren, 1858) [Chorinaeus]. Parasitoid of *Choristoneura* spp. (Tortricidae) and *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (N, ? C, CR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan.

Trieces tricarinatus nigrofemur (Telenga, 1929) [Chorinaeus]. Parasitoid of *Yponomeuta* spp. (Yponomeutidae). Russia: **EP** (NC).

Subfamily MICROLEPTINAE

A.E. HUMALA

Small Holarctic and Oriental subfamily of unclear relationships. Two genera are included, *Microleptes* Gravenhorst, 1829 and *Cushmaniana* Humala, 2007, but the latter is sometimes considered to be a synonym of *Hyperacmus* Holmgren, 1858 (Cylloceriinae). Parasitoids of Stratiomyidae (Diptera: Orthorrhapha).

Number of taxa: World – 2 genera and 14 species, Palaearctic – 2/13, Russia – 1/10.

References. Schwarz, 1991; Humala, 2003, 2007b, 2019b; Watanabe, 2013.

MICROLEPTES Gravenhorst, 1829 (*Miomeris* Foerster, 1869; *Gnathoniella* Schmiedeknecht, 1924). Type species: *Microleptes splendidulus* Gravenhorst, 1829. Holarctic and Oriental genus. Number of species: World – 14, Palaearctic – 12, Russia – 10.

Microleptes aquisgranensis (Foerster, 1871) [*Miomeris*]. Russia: **ES** (ZB). – Europe (WE, NE, EE).

Microleptes belokobylskii Humala, 2003. Russia: **FE** (KH, PR).

Microleptes grandis Humala, 2003. Russia: **FE** (PR).

Microleptes minor Humala, 2003. Russia: **FE** (PR).

Microleptes orientalis Humala, 2003. Russia: **FE** (PR).

Microleptes rectangulus (Thomson, 1888) [*Miomeris*] (*Gnathoniella egregia* Schmiedeknecht, 1924). Russia: **EP** (N, NW, NC), **WS** (TM), **FE** (PR, SA, KU). – Europe (WE, NE, EE), Korean Peninsula, Japan (Hon).

Microleptes salisburgensis Schwarz, 1991. Russia: **ES** (ZB), **FE** (PR). – Europe (WE), Mongolia, China (NC).

Microleptes spasskii Humala, 2003. Russia: **FE** (PR).

Microleptes splendidulus Gravenhorst, 1829 (*Miomeris glabriventris* Thomson, 1888). Russia: **EP** (N, NW, S, NC, CR), **UR**, **ES** (ZB). – Europe (WE, NE, EE), Korean Peninsula, N America.

Microleptes tibialis Humala, 2003. Russia: **FE** (PR).

Subfamily NEORHACODINAE

A.I. KHALAIM

Small Holarctic and Neotropical subfamily with three genera: *Neorhacodes* Hedicke, *Eremura* Kasparyan and *Romaniella* Cushman. Parasitoids of wasps of the family Crabronidae (Hymenoptera).

Number of taxa: World – 3 genera and 6 species, Palaearctic – 2/3, Russia – 1/1.

References. Notton, Shaw, 1998; Kasparyan, Khalaim, 2007h; Konishi, Yoshida, 2013.

NEORHACODES Hedicke, 1922 (*Rhacodes* Ruschka, 1922, nom. praeocc., nec Koch, 1856). Type species:

Rhacodes enslini Ruschka, 1922. Holarctic genus. Number of species: World – 3, Palaearctic and Russia – 1.

Neorhacodes enslini (Ruschka, 1922) [Rhacodes]. Parasitoid of *Spilomena* spp. (Hymenoptera: Crabronidae). Russia: **EP** (NW), **FE** (SA). – Europe (WE, NE, SE, EE), Japan (Hok), N America.

Subfamily NESOMESOCHORINAE

A.I. KHALAIM

Small subfamily with a predominantly Oriental, Neotropical and Afrotropical distribution. The biology is unknown.

Number of taxa: World – 3 genera and 60 species, Palaearctic – 2/4, Russia – 1/1.

References. Gupta, 1980; Kusigemati, 1983; Kasparian, Dbar, 1985; Quicke et al., 2005, 2009; Choi, Lee, 2008.

KLUTIANA Betrem, 1933 (*Mavandiella* Seyrig, 1935). Type species: *Klutiana compressa* Betrem, 1933. Predominantly Oriental genus with one Afrotropical and several Palaearctic species. Number of species: World – 16, Palaearctic – 3, Russia – 1.

Klutiana jezoensis (Uchida, 1957) [Chriodes]. Russia: **FE** (PR). – Korean Peninsula, Japan (Hok, Hon).

Subfamily OPHIONINAE

A.I. KHALAIM

Worldwide subfamily subdivided into three tribes: the Enicospilini, Ophionini and Thyreodontini. The exceptionally large genus *Enicospilus* Stephens comprises over 700 species, or two-thirds of the total species of the subfamily. Endoparasitoids of open-living larvae of various Lepidoptera. Adult parasitoids are mostly nocturnal.

Members of Ophioninae are usually large and conspicuous insects with slender, often yellow and orange-coloured body, long antennae, slender first metasomal segment and characteristic fore wing venation.

The fauna of the Ophioninae of Russia is very poorly known and requires revision. Most records of ophionine species from Russia are based on old publications by Woldstedt, Szépligeti, Meyer, Kokujev and Viktorov. For this subfamily we provide here only a brief species list primarily based on the catalogue Taxapad (Yu et al., 2016). All genera are listed in alphabetical order and without tribal division.

Number of taxa: World – 31 genera and about 1050 species, Palaearctic – 12/207, Russia – 7/46.

References. Viktorov, 1957; Horstmann, 1981a; Kasparian, Khalaim, 2007k; Shimizu, Watanabe, 2015, 2017; Broad, Shaw, 2016; Rousse et al., 2016; Shimizu, 2017; Johansson, 2018; Lima, 2018; Shimizu, Lima, 2018; Johansson, Cederberg, 2019.

BARYTATOCEPHALUS Schulz, 1911. Type species: *Barycephalus mocsaryi* Brauns, 1895. Number of species: World and Palaearctic – 5, Russia – 3.

Barytatocephalus flavus (Meyer, 1935) [Barycephalus].

Barytatocephalus mocsaryi (Brauns, 1895) [Barycephalus] (*Ophion amnus* Tosquinet, 1900).

Barytatocephalus stshegolevi (Meyer, 1927) [Barycephalus].

DICTYONOTUS Kriechbaumer, 1894. Type species: *Ophion melanarius* Kriechbaumer, 1894. Number of species: World – 4, Palaearctic – 2, Russia – 1.

Dictyonotus purpurascens (Smith, 1874) [Thyreodon] (*Coracophion manganicolor* Shestakov, 1926).

ENICOSPILUS Stephens, 1835. Type species: *Ophion combustus* Gravenhorst, 1829. Number of species: World – about 700, Palaearctic – 83, Russia – 15.

Enicospilus ahngerii (Kokujev, 1907) [Henicospilus].

Enicospilus asiaticus Meyer, 1930.

Enicospilus cerebrator Aubert, 1966.

Enicospilus combustus (Gravenhorst, 1829) [Ophion].

Enicospilus cruciator Viktorov, 1957.

Enicospilus inflexus (Ratzeburg, 1844) [Allocamptus].

Enicospilus kokujevi Viktorov, 1957.

Enicospilus maruyamanus (Uchida, 1928) [Henicospilus].

Enicospilus merdarius (Gravenhorst, 1829) (*Ophion tournieri* Vollenhoven, 1879; *Henicospilus rossicus* Kokujev, 1907).

Enicospilus ocellatus Shestakov, 1926.

Enicospilus ramidulus (Linnaeus, 1758) [Ichneumon] (*Henicospilus instabilis* Kokujev, 1907).

Enicospilus repentinus (Holmgren, 1860) [Ophion].

Enicospilus undulatus (Gravenhorst, 1829) [Ophion].

Enicospilus unicallosus (Vollenhoven, 1878) [Ophion].

Enicospilus variicarpus (Kokujev, 1907) [Henicospilus].

EREMOTYLUS Foerster, 1869. Type species: *Anomalon marginatum* Jurine, 1807. Number of species: World – 16, Palaearctic – 9, Russia – 4.

Eremotylus boguschi (Meyer, 1935) [Ophion] (*Clistorapha ventosa* Viktorov, 1961).

Eremotylus curvinervis (Kriechbaumer, 1878) [Ophion] (*Eremotylus hungaricus* Szépligeti, 1905).

Eremotylus marginatus (Jurine, 1807) [Anomalon].

Eremotylus sibiricus Szépligeti, 1905.

HELLWIGIA Gravenhorst, 1823. Type species: *Hellwigia elegans* Gravenhorst, 1823. Number of species: World, Palaearctic and Russia – 2.

Hellwigia elegans Gravenhorst, 1823.

Hellwigia obscura Gravenhorst, 1823.

OPHION Fabricius, 1798. Type species: *Ichneumon luteus* Linnaeus, 1758. Number of species: World – about 160, Palaearctic – about 95, Russia – 20.

Ophion areolaris Brauns, 1889.

- Ophion costatus** Ratzeburg, 1848.
Ophion eremita Kokujev, 1906.
Ophion fuscomaculatus Cameron, 1899 (*Ophion orientalis* Uchida, 1928).
Ophion hokkaidonis Uchida, 1928.
Ophion lituratus Townes, Momoi et Townes, 1965 (*Ophion sibiricus* Szépligeti, 1905).
Ophion longigena Thomson, 1888.
Ophion luteus (Linnaeus, 1758) [Ichneumon].
Ophion minutus Kriechbaumer, 1879.
Ophion obscuratus Fabricius, 1798.
Ophion ocellaris Ulbricht, 1926.
Ophion parvulus Kriechbaumer, 1879.
Ophion pteridis Kriechbaumer, 1879 (*Ophion albistylus* Szépligeti, 1905).
Ophion scutellaris Thomson, 1888.
Ophion sibiricus (Szépligeti, 1905) [Stenophthalmus].
Ophion skorikovi Meyer, 1935.
Ophion takaozanus Uchida, 1928 (*Ophion japonicus* Uchida, 1928).
Ophion turcomanicus Szépligeti, 1905.
Ophion ventricosus Gravenhorst, 1829.
Ophion wuestneii Kriechbaumer, 1892.

STAUROPOCTONUS Brauns, 1889. Type species: *Ophion bombycivorus* Gravenhorst, 1829. Number of species: World – 11, Palaearctic – 2, Russia – 1.

Stauropoc-tonus bombycivorus (Gravenhorst, 1829) [Ophion] (*Nipponophion variegatus* Uchida, 1928; *Stauropoc-tonus nigrithorax* Lee et Kim, 2002).

Subfamily ORTHOCENTRINAE

A.E. HUMALA

Moderately large subfamily, distributed worldwide. Subdivided into two tribes, Helictini and Orthocentrini. Many species are characterized by considerable sexual dimorphism. Parasitoids of larvae of primitive dipterans of the superfamily Mycetophiloidea. Recently the genus *Hemiphanes* Foerster, 1869, undoubtedly not related to other orthocentrines, was transferred to the subfamily Cryptinae (Klopfstein et al., 2019a), although its exact relationship is still obscure. So we prefer here to consider *Hemiphanes* within the Orthocentrinae until its proper taxonomic position is clarified.

Number of taxa: World – 29 genera and over 500 species, Palaearctic – 24/about 325, Russia – 23/185.

References. Aubert, 1976, 1977, 1978, 1981; Rossem, 1981, 1982, 1985, 1987, 1988, 1990, 1991; Kolarov, 1986; Dasch, 1992; Horstmann, 1994; Humala, 1997b, 2003, 2004a, 2007b, 2010, 2019b; Jonaitis, Rimšaitė, 2002; Broad, 2004, 2010; Sun, Sheng, 2006; Mohammadi-Khoramabadi, Talebi, 2013, 2018; Choi et al., 2014b, 2015a; Sheng, Sun, 2014; Watanabe, Yamauchi, 2014; Humala et al., 2016, 2017; Watanabe, 2018, 2019b, 2019c; Choi, Lee, 2019.

Tribe HELICTINI

ANISERES Foerster, 1871. Type species: *Aniseres pallipes* Foerster, 1871. Holarctic genus. Number of species: World – 7, Palaearctic and Russia – 5.

Aniseres baikalensis Humala, 2007. Russia: **ES** (IR, BR).
Aniseres caudatus Humala, 1997. Russia: **EP** (N). – Europe (NE).

Aniseres latus Dasch, 1992. Russia: **WS** (TM), **FE** (PR). – N America.

Aniseres pallipes Foerster, 1871. Parasitoid of *Allodia lugens* Wd., *A. ornaticollis* Mg., *Dynatosoma fuscicornis* Mg., *Mycetophila fungorum* Deg., *M. ichneumonea* Say and *M. ruficollis* Mg. (Mycetophilidae). Russia: **EP** (N, NW, E), **WS** (TM, NS), **ES** (BR, YA, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, EE), N America.

Aniseres subarcticus Humala, 2007. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE), Japan.

APERILEPTUS Foerster, 1869. Type species: *Plectiscus albipalpus* Gravenhorst, 1829. Almost exclusively Holarctic genus with one species recorded in the Afro-tropical region. Number of species: World – 18, Palaearctic – 14, Russia – 13.

Aperileptus albipalpus (Gravenhorst, 1829) [*Plectiscus*] (*Aperileptus custoditor* Foerster, 1871; *A. fungicola* Foerster, 1871; *A. impacatus* Foerster, 1871). Parasitoid of *Mycetophila alea* Laffoon, *M. fungorum* Deg. and *M. pictula* Mg. (Mycetophilidae). Russia: **EP** (N, NW, C, NC, CR), **UR**, **WS** (TM), **ES** (KR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Kazakhstan, N America.

Aperileptus flavus Foerster, 1871. Russia: **EP** (N, NW), **FE** (PR). – Europe (WE, NE, EE).

Aperileptus impurus Foerster, 1871. Russia: **EP** (N). – Europe (WE, NE, EE).

Aperileptus infuscatus Foerster, 1871. Russia: **EP** (N, NW), **WS** (TM), **ES** (KR, YA). – Europe (WE, NE, SE, EE), Korean Peninsula.

Aperileptus melanopsis Foerster, 1871. Russia: **EP** (N, NW). – Europe (WE, NE, EE).

Aperileptus microspilus Foerster, 1871. Russia: **EP** (N, NW, CR), **FE** (PR). – Europe (WE, NE).

Aperileptus minimus Strobl, 1904. Russia: **FE** (KA). – Europe (WE, NE).

Aperileptus obscurus Humala, 2007. Russia: **EP** (N), **WS** (TM), **FE** (KH, PR, SA, KU). – Europe (NE, EE), Korean Peninsula.

Aperileptus plagiatius Foerster, 1871. Russia: **EP** (N). – Europe (WE, NE, SE, EE).

Aperileptus rossemi Jussila, 1994. Russia: **EP** (N, NW), **FE** (PR). – Europe (NE).

Aperileptus tricinctus Foerster, 1871. Russia: **EP** (N, CR). – Europe (WE, NE).

- Aperileptus vanus** Forster, 1781 (*Plectiscus obliquus* Thomson, 1888). Parasitoid of *Exechia bicincta* Staeger and *Mycetophila hetschkoi* Landrock (Mycetophilidae). Russia: **EP** (N, NW, C, NC, CR), **WS** (TM), **ES** (YA, ZB), **FE** (PR, SA, CH). – Europe (WE, NE, EE), Caucasus, China (NE, NC), Korean Peninsula, Japan, N America.
- Aperileptus viduatus** Foerster, 1871. Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- APOCLIMA** Foerster, 1869. Type species: *Apoclima signaticorne* Foerster, 1871. Holarctic genus. Number of species: World – 7, Palaearctic – 4, Russia – 3.
- Apoclima incisum** Dasch, 1992. Russia: **EP** (N). – N America.
- Apoclima rossicum** Humala, 2007. Russia **FE** (KH, PR). – Korean Peninsula.
- Apoclima signaticorne** Foerster, 1881. Russia: **EP** (N, NW), **UR**, **WS** (TM), **ES** (ZB), **FE** (PR, SA). – Europe (WE, NE, EE).
- CATASTENUS** Foerster, 1869. Type species: *Catastenus femoralis* Foerster, 1871. Number of species: World – 3, Palaearctic and Russia – 1.
- Catastenus femoralis** Foerster, 1871. Russia: **EP** (N, NW, C, E, CR), **UR**, **WS** (TM), **ES** (KS, BR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Japan, N America.
- DIALIPSIS** Foerster, 1869. Type species: *Dialipsis exilis* Foerster, 1871. Holarctic genus. Number of species: World and Palaearctic – 3, Russia – 2.
- Dialipsis dissimilis** Dasch, 1992. Russia: **ES** (ZB), **FE** (PR, KU). – Japan, N America.
- Dialipsis exilis** Foerster, 1871. Parasitoid of *Cordyla* sp. and *Exechia seriata* Mg. (Mycetophilidae). Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (AL), **ES** (IR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Kazakhstan, Korean Peninsula.
- ENTYPOMA** Foerster, 1869 (*Entelechia* Foerster, 1871). Type species: *Entypoma robustum* Foerster, 1871. Holarctic genus. Number of species: World and Palaearctic – 5, Russia – 4.
- Entypoma frontosum** Rossem, 1988. Russia: **FE** (MG).
- Entypoma robustator** Aubert, 1968. Russia: **EP** (NC). – Europe (WE, NE, SE, EE).
- Entypoma robustum** Foerster, 1871. Russia: **EP** (N, NW, NC, CR), **ES** (ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, N America.
- Entypoma suspiciosum** (Foerster, 1871) [Entelechia]. Russia: **EP** (NC, CR), **ES** (ZB). – Europe (WE, NE, EE).
- EUSTERINX** Foerster, 1869 (*Catomicrus* Thomson, 1888; *Strobilia* Schmiedeknecht, 1911; *Acanthostrobilia* Roman, 1925). Type species: *Eusterinx oligomera* Foerster, 1871. Holarctic, Oriental and Neotropical genus. Number of species: World – 56, Palaearctic – 34, Russia – 23.
- Eusterinx (Dallatorrea) circaeae** Rossem, 1982. Russia: **EP** (N). – Europe (WE, NE, SE), Kazakhstan.
- Eusterinx (Divinatrix) apophysa** Humala, 2004. Russia: **FE** (PR).
- Eusterinx (Divinatrix) inaequalis** Rossem, 1981. Russia: **EP** (N, NW), **WS** (TM), **ES** (BR, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Korean Peninsula, Japan, N America.
- Eusterinx (Divinatrix) inaspicua** Rossem, 1988. Russia: **FE** (PR).
- Eusterinx (Divinatrix) kurilensis** Humala, 2004. Russia: **FE** (KU). – Korean Peninsula.
- Eusterinx (Eusterinx) argutula** Foerster, 1871. Russia: **EP** (N, NW), **WS** (TM, AL), **ES** (BR, YA, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Korean Peninsula, N America.
- Eusterinx (Eusterinx) obscurella** Foerster, 1871. Russia: **EP** (N), **ES** (YA). – Europe (WE, NE, SE, EE).
- Eusterinx (Eusterinx) oligomera** Foerster, 1871 (*Eusterinx fulvicornis* Foerster, 1871; *E. moesta* Foerster, 1871). Russia: **EP** (N, NW), **WS** (TM, AL), **FE** (PR). – Europe (WE, NE, EE), N America.
- Eusterinx (Eusterinx) pseudoligomera** Gregor, 1941. Russia: **EP** (N), **WS** (TM). – Europe (WE, NE, SE, EE).
- Eusterinx (Eusterinx) subdola** Foerster, 1871 (*Eusterinx basalis* Foerster, 1871; *E. vigil* Foerster, 1871). Russia: **EP** (N, CR), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), N America.
- Eusterinx (Eusterinx) tobiasi** Humala, 2004. Russia: **WS** (TM).
- Eusterinx (Holomeristus) aquilonigena** Rossem, 1982. Russia: **EP** (N, NW, C), **ES** (ZB), **FE** (PR, KA). – Europe (NE).
- Eusterinx (Holomeristus) fennoscandica** Humala, 2008. Russia: **EP** (N). – Europe (NE).
- Eusterinx (Holomeristus) jakutica** Humala, 2004. Russia: **ES** (YA).
- Eusterinx (Holomeristus) simplicicornis** Humala, 2007. Russia: **FE** (PR).
- Eusterinx (Holomeristus) tenuicincta** (Foerster, 1871) [Holomeristus]. Russia: **EP** (N, NW, NC), **UR**, **WS** (TM), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, EE), Iran, Korean Peninsula, Japan (Hon), N America.
- Eusterinx (Ischyracis) bispinosa** (Strobl, 1901) [Hemiteles] (*Catomicrus alpigena* Strobl, 1904). Parasitoid of *Orfelina fultoni* Fisher (Keroplastidae). Russia: **EP** (N, NW), **ES** (KR), **FE** (KH, PR, SA, KU). – Europe (WE, NE, EE), N America.
- Eusterinx (Trestis) minima** (Strobl, 1903) [Holomeristus]. Russia: **EP** (N, NW), **WS** (TM), **ES** (BR, YA, ZB). – Europe (WE, NE).
- Eusterinx (Trestis) permiranda** (Rossem, 1988) [Catomicrus]. Russia: **FE** (KH, PR).
- Eusterinx (Trestis) similis** Rossem, 1991. Russia: **ES** (YA).
- Eusterinx (Trestis) trichops** (Thomson, 1888) [Catomicrus] (*Tryphon pusillus* Zetterstedt, 1838). Russia: **EP** (N, NW), **WS** (TM), **ES** (YA), **FE** (PR, CH). – Europe (WE, NE, EE), Mongolia.

- Eusterinx (Trestis) trifasciata** (Ashmead, 1899) [Catasenus] (*Eusterinx disparilis* Rossem, 1982). Russia: **EP** (N), **WS** (TM), **ES** (KR, YA), **FE** (KA). – Europe (NE), N America.
- Eusterinx (Trestis) truculenta** Rossem, 1991. Russia: **ES** (YA).
- GNATHOCHORISIS** Foerster, 1869 (*Blapticus* Foerster, 1869; *Laepserus* Foerster, 1869; *Acroblapticus* Schmiedeknecht, 1911). Type species: *Gnathochorisis flavipes* Foerster, 1871. Holarctic and Neotropical genus. Number of species: World – 23, Palaearctic – 7, Russia – 5.
- Gnathochorisis crassulus** (Thomson, 1888) [Blapticus]. Russia: **EP** (N, NW, C, NC, CR), **WS** (TM, AL), **ES** (KR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Abkhazia, Korean Peninsula, Japan, N America.
- Gnathochorisis dentifer** (Thomson, 1888) [Blapticus]. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (YA), **FE** (PR, CH). – Europe (WE, NE, EE), Korean Peninsula, Japan, N America.
- Gnathochorisis flavipes** Foerster, 1871. Parasitoid of *Neompheria striata* Mg. (Mycetophilidae). Russia: **EP** (N, S), **UR**, **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan, Korean Peninsula.
- Gnathochorisis kasparyani** Humala, 2007. Russia: **FE** (PR).
- Gnathochorisis meridianator** (Aubert, 1980) [Blapticus]. Russia: **FE** (KH, PR). – Europe (WE).
- HELICTES** Haliday, 1837 (*Idioxenus* Foerster, 1869; *Myriarthrus* Foerster, 1869). Type species: *Ichneumon erythrostoma* Gmelin, 1790. Holarctic and Neotropical genus. Number of species: World – 11, Palaearctic – 8, Russia – 5.
- Helictes borealis** (Holmgren, 1857) [Megastylus] (*Idioxenus coxalis* Foerster, 1871; *I. variator* Foerster, 1871; *Megastylus pilicornis* Thomson, 1888; *Helictes incongruens* Rossem, 1987). Russia: **EP** (N, NW, C, NC, CR), **WS** (TM), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Kyrgyzstan, Kazakhstan, N America.
- Helictes carinalis** Humala, 2007. Russia: **FE** (PR). – Europe (NE).
- Helictes erythrostoma** (Gmelin, 1790) [Ichneumon] (*Idioxenus mediator* Schiødte, 1838; *I. conspicuus* Foerster, 1871; *I. inaequalis* Foerster, 1871). Russia: **EP** (N, NW, C, E, NC), **WS** (NS), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), N America.
- Helictes fabularis** Rossem, 1987. Russia: **EP** (N). – Europe (WE, NE).
- Helictes meridianator** Aubert, 1961. Russia: **FE** (PR). – Europe (WE, NE, EE), Canary Is, Tajikistan, Kyrgyzstan, Kazakhstan.
- HEMIPHANES** Foerster, 1869. Type species: *Hemiphanes flavipes* Foerster, 1871. Small Palaearctic and Oriental genus. Number of species: World and Palaearctic – 7, Russia – 4.
- Hemiphanes erratum** Humala, 2007 (*Hemiphanes flavipes sensu* Rossem, 1981). Russia: **EP** (N, NW), **ES** (ZB), **FE** (PR, KU, KA). – Europe (WE, NE, EE).
- Hemiphanes flavipes** Foerster, 1871 (*Hemiphanes townesi sensu* Rossem, 1981). Russia: **EP** (N), **FE** (PR). – Europe (WE, NE), China (SE).
- Remarks.** Records of this species from Europe and China should be revised.
- Hemiphanes gravator** Foerster, 1871. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, EE).
- Hemiphanes performidatum** Rossem, 1988. Russia: **EP** (N, NW), **FE** (PR, SA). – Europe (NE, EE).
- MEGASTYLUS** Schiødte, 1838 (*Megalostylus* Schulz, 1906; *Miomeroides* Kiss, 1924). Type species: *Megastylus cruentator* Schiødte, 1838. Holarctic, Oriental, Afrotropical and Neotropical genus. Number of species: World – 37, Palaearctic – 14, Russia – 8.
- Megastylus (Dicolus) excubitor** (Foerster, 1871) [Dicolus]. Russia: **EP** (NC, CR), **FE** (KH, PR). – Europe (WE, NE, EE), Kazakhstan.
- Megastylus (Dicolus) impressor** Schiødte, 1838 (*Dicolus insectator* Foerster, 1871). Parasitoid of *Orfelina* sp. (Keroplataidae). Russia: **EP** (N, NW, C, NC, CR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Kazakhstan, N America.
- Megastylus (Dicolus) pectoralis** (Foerster, 1871) [Dicolus] (*Dicolus subtiliventris* Foerster, 1871). Parasitoid of *Macrocera stigma* Curt. (Keroplataidae). Russia: **EP** (N, NW, NC), **WS** (TM), **FE** (KH, PR). – Europe (WE, NE, EE), Armenia, Mongolia, Japan, N America.
- Megastylus (Dicolus) similis** Dasch, 1992. Russia: **EP** (N), **FE** (KH). – Europe (WE), N America.
- Megastylus (Megastylus) cruentator** Schiødte, 1838 (*Megastylus mediator* Schiødte, 1838; *M. fuscicornis* Foerster, 1871). Parasitoid of *Orfelina* sp. (Keroplataidae). Russia: **EP** (N, NW, C, E, S, NC, CR), **WS** (AL), **ES** (ZB), **FE** (KH, PR, KU, MG). – Europe (WE, NE, SE, EE), Caucasus, Pakistan, Kazakhstan, Japan (Hon).
- Megastylus (Megastylus) flavopictus** (Gravenhorst, 1829) [Plectiscus] (*Megastylus lineator* Schiødte, 1838; *Myriarthrus aemulus* Foerster, 1871; *M. cingulator* Foerster, 1871). Russia: **EP** (N, NW, C, S, NC, CR), **ES** (ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Abkhazia, Turkey, Iran, N America, Hawaii.
- Megastylus (Megastylus) kuslitzkii** Humala, 2007. Russia: **FE** (PR). – Korean Peninsula.
- Megastylus (Megastylus) orbitator** Schiødte, 1838 (*Megastylus leptoderus* Foerster, 1871; *Myriarthrus rufipleuris* Foerster, 1871). Parasitoid of *Orfelina inops* Coq. (Keroplataidae). Russia: **EP** (N, NW, S, CR), **WS** (AL), **ES** (YA, ZB), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Madeira Is, Canary Is, Azerbaijan, Afghanistan, Tajikistan, Mongolia, N America.
- PANTISARTHURUS** Foerster, 1871 Type species: *Pantisarthrus inaequalis* Foerster, 1871 (= *Aniseres*

- lubricus* Foerster, 1871). Predominantly Holarctic genus. Number of species: World – 6, Palaearctic – 5, Russia – 3.
- Pantisarthrus gracilis** Rossem, 1987. Russia: **EP** (N, NW), **WS** (TM). – Europe (NE, SE).
- Pantisarthrus lubricus** (Foerster, 1871) [Aniseres] (*Pantisarthrus inaequalis* Foerster, 1871; *P. ochropus* Foerster, 1871; *P. dispar* Rossem, 1981). Parasitoid of *Epicrypta aterrima* Zett. and *Phronia flavicollis* Winn. (Mycetophilidae). Russia: **EP** (N, NW, C, CR), **WS** (TM), **ES** (IR, YA), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Japan, Korean Peninsula, Greenland, N America.
- Pantisarthrus luridus** Foerster, 1871. Russia: **EP** (N, NW, C), **WS** (TM). – Europe (WE, NE, EE), Greenland.
- PLECTISCIDEA** Viereck, 1914. Type species: *Plectiscus collaris* Gravenhorst, 1829. Predominantly Holarctic genus with a few species in the Neotropical, Afrotropical and Oceanic regions. Number of species: World – 95, Palaearctic – 77, Russia – 33.
- Plectiscidea (Plectiscidea) communis** (Foerster, 1871) [Plectiscus]. Russia: **EP** (N, NW, NC, CR), **WS** (TM), **ES** (BR, ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Kazakhstan, Japan, N America.
- Plectiscidea (Plectiscidea) agitator** (Foerster, 1871) [Plectiscus]. Russia: **EP** (NC). – Europe (WE, NE, SE).
- Plectiscidea (Plectiscidea) amicalis** (Foerster, 1871) [Plectiscus] (*Plectiscidea sodalis* Foerster, 1871). Russia: **EP** (CR). – Europe (WE, NE, SE, EE), Madeira Is.
- Plectiscidea (Plectiscidea) aquilonia** Humala, 2008. Russia: **EP** (N), **FE** (KH, SA). – Europe (WE, NE).
- Plectiscidea (Plectiscidea) bistrata** (Thomson, 1888) [Plectiscus]. Russia: **EP** (N). – Europe (WE, NE, SE, EE), Greenland.
- Plectiscidea (Plectiscidea) canaliculata** (Foerster, 1871) [Plectiscus] (*Plectiscidea distincta* Foerster, 1871; *P. subtilis* Foerster, 1871). Parasitoid of *Allodia grata* Mg. (Mycetophilidae). Russia: **EP** (N, S, NC, CR), **UR**, **WS** (TM, AL), **ES** (KR, BR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Mongolia, Greenland, N America.
- Plectiscidea (Plectiscidea) capitosa** (Roman, 1909) [Plectiscus]. Russia: **EP** (N). – Europe (NE).
- Plectiscidea (Plectiscidea) cinctula** (Foerster, 1871) [Plectiscus] (*Plectiscidea curticauda* Thomson, 1888). Russia: **EP** (N). – Europe (WE, NE, EE).
- Plectiscidea (Plectiscidea) collaris** (Gravenhorst, 1829) [Plectiscus] (*Plectiscidea binodula* Foerster, 1871). Parasitoid of *Allodiopsis rustica* Edwards, *Exechia dorsalis* Staeger and *Mycetophila fungorum* Deg. (Mycetophilidae). Russia: **EP** (N, NW, C, NC, CR), **UR**, **WS** (TM, AL), **ES** (KR, BR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Georgia, Mongolia, Greenland, N America.
- Plectiscidea (Plectiscidea) conjuncta** (Foerster, 1871) [Plectiscus]. Russia: **EP** (CR). – Europe (WE, SE).
- Plectiscidea (Plectiscidea) crassicornis** (Foerster, 1871) [Plectiscus] (*Plectiscidea nefasta* Foerster, 1871). Russia: **EP** (N, NW, E, NC, CR), **WS** (TM), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia.
- Plectiscidea (Plectiscidea) erythropyga** (Foerster, 1871) [Plectiscus]. Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- Plectiscidea (Plectiscidea) eury stigma** (Thomson, 1888) [Plectiscus]. Russia: **FE** (KA). – Europe (WE, NE).
- Plectiscidea (Plectiscidea) faustus** (Rossem, 1988) [Atabulus]. Russia: **EP** (C).
- Plectiscidea (Plectiscidea) fuscifemur** Humala, 2008. Russia: **EP** (N). – Europe (NE).
- Plectiscidea (Plectiscidea) grossepunctata** (Strobl, 1904) [Plectiscus]. Russia: **EP** (C). – Europe (WE, EE).
- Plectiscidea (Plectiscidea) helvola** (Foerster, 1871) [Plectiscus] (*Plectiscidea petiolata* Foerster, 1871). Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.
- Plectiscidea (Plectiscidea) melanocera** (Foerster, 1871) [Plectiscus]. Russia: **EP** (N, NW), **ES** (YA). – Europe (WE, NE, EE).
- Plectiscidea (Plectiscidea) moerens** (Foerster, 1871) [Plectiscus]. Russia: **EP** (N). – Europe (WE, NE, EE).
- Plectiscidea (Plectiscidea) monticola** (Foerster, 1871) [Plectiscus]. Russia: **EP** (N), **FE** (KA). – Europe (WE, NE, SE, EE).
- Plectiscidea (Plectiscidea) nava** (Foerster, 1871) [Plectiscus]. Russia: **EP** (N, NC). – Europe (WE, NE, EE).
- Plectiscidea (Plectiscidea) nemorensis** Rossem, 1987. Russia: **EP** (N, NW), **ES** (YA), **FE** (KH). – Europe (WE, NE, SE, EE).
- Plectiscidea (Plectiscidea) obscura** Rossem, 1991. Russia: **ES** (YA).
- Plectiscidea (Plectiscidea) parvula** (Foerster, 1871) [Plectiscus] (*Plectiscidea nefasta* Foerster, 1871). Russia: **ES** (ZB). – Europe (WE, EE).
- Plectiscidea (Plectiscidea) posticata** (Foerster, 1871) [Plectiscus]. Russia: **EP** (N, NW, CR), **WS** (TM), **ES** (ZB), **FE** (KH, PR, SA). – Europe (WE, NE, EE), Georgia.
- Plectiscidea (Plectiscidea) prognathor** Aubert, 1968 (*Plectiscidea perfera* Rossem, 1988). Russia: **EP** (CR). – Europe (WE, SE, EE).
- Plectiscidea (Plectiscidea) quadrierosa** (Strobl, 1904) [Plectiscus]. Russia: **EP** (S). – Europe (WE, EE).
- Plectiscidea (Plectiscidea) spuria** Rossem, 1991. Russia: **EP** (N), **ES** (YA). – Europe (WE).
- Plectiscidea (Plectiscidea) subteres** (Thomson, 1888) [Plectiscus]. Russia: **ES** (YA). – Europe (WE, NE, EE).
- Plectiscidea (Plectiscidea) tenuicornis** (Foerster, 1871) [Plectiscus] (*Plectiscidea brachyura* Foerster, 1871). Russia: **EP** (NC). – Europe (WE, NE, EE), China (NC).
- Plectiscidea (Plectiscidea) terebrator** (Foerster, 1871) [Plectiscus]. Russia: **ES** (ZB). – Europe (WE, NE, SE, EE), Georgia.
- Plectiscidea (Plectiscidea) undulata** Dasch, 1992. Russia: **EP** (N, NC), **WS** (TM), **FE** (KH, SA). – Europe (NE), N America.

- Plectiscidea (Plectiscidea) zonata** (Gravenhorst, 1829) [Plectiscus] (*Plectiscidea exareolata* Aubert, 1979). Russia: **EP** (N, NW, NC, CR), **WS** (AL), **ES** (ZB), **FE** (KH, SA). – Europe (WE, NE, EE).
- PROCLITUS** Foerster, 1869 (*Clepticus* Haliday, 1838; *Aclastoneura* Kriechbaumer, 1896; *Mischoxorides* Ashmead, 1900). Type species: *Proclitus grandis* Foerster, 1871 (= *Cryptus praetor* Haliday, 1838). Predominantly Holarctic genus with a few species in the Oriental, Neotropical, Afrotropical and Oceanic regions. Number of species: World – 29, Palaearctic – 19, Russia – 10.
- Proclitus ardentis** Rossem, 1987. Parasitoid of *Allodia czernyi* Landrock and *Mycetophila laeta* Walk. (Mycetophilidae). Russia: **EP** (N, NW, C), **WS** (TM), **ES** (YA), **FE** (KH, PR, KA). – Europe (WE, NE, EE).
- Proclitus attentus** Foerster, 1871 (*Proclitus stenogaster* Foerster, 1871). Parasitoid of *Brachypeza armata* Winn. (Mycetophilidae). Russia: **EP** (N, NW, C, NC, CR), **WS** (TM), **ES** (IR, YA, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Armenia, Kazakhstan.
- Proclitus comes** (Haliday, 1838) [Cryptus] (*Proclitus caudiger* Foerster, 1871; *P. macrurus* Foerster, 1871; *P. pallens* Foerster, 1871). Parasitoid of *Cordyla* sp. (Mycetophilidae). Russia: **EP** (N, NW, C, S, NC, CR), **WS** (TM), **ES** (IR, YA), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Kyrgyzstan.
- Proclitus edwardsi** Roman, 1923. Parasitoid of *Brachypeza radiata* Jenk. (Mycetophilidae). Russia: **EP** (S), **FE** (PR, SA). – Europe (WE, NE), Armenia.
- Proclitus fulvicornis** Foerster, 1871 (*Proclitus cupidus* Foerster, 1871; *P. inquietus* Foerster, 1871; *P. periculosus* Foerster, 1871). Parasitoid of *Mycetophila strobli* Laštovka (Mycetophilidae). Russia: **EP** (N, NW, NC), **WS** (TM), **ES** (KR, BR), **FE** (PR, SA, KA). – Europe (WE, NE, EE), Georgia, Armenia, Japan, N America.
- Proclitus fulvipectus** Foerster, 1871 (*Proclitus fulvocingulatus* Strobl, 1904). Russia: **EP** (N, NW, CR), **WS** (TM, AL), **ES** (YA, ZB), **FE** (PR, CH). – Europe (WE, NE, SE, EE).
- Proclitus heteroceris** (Thomson, 1888) [Plectiscus]. Russia: **EP** (N), **WS** (TM), **FE** (PR, SA). – Europe (WE, NE, EE), ? Korean Peninsula.
- Proclitus paganus** (Haliday, 1838) [Cryptus]. Russia: **EP** (N, NW, C, CR), **WS** (TM), **ES** (YA), **FE** (PR, KA, CH). – Europe (WE, NE, SE, EE), Greenland, N America.
- Proclitus paradoxus** (Rossem, 1991) [Aniseres]. Russia: **ES** (YA).
- Proclitus praetor** (Haliday, 1838) [Cryptus] (*Proclitus grandis* Foerster, 1871). Parasitoid of *Allodiopsis rustica* Edw., *Brachypeza bisignata* Winn., *Mycetophila finlandica* Edw., *M. fungorum* Deg., *M. ornata* Steph. and *Tarnania tarnanii* Dziedzicki (Mycetophilidae). Russia: **EP** (N, NW, C, E, NC, CR), **WS** (TM, AL), **ES** (YA), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Greenland, N America.
- PROELIATOR** Rossem, 1982. Type species: *Proelicator proprius* Rossem, 1982. Holarctic genus. Number of species: World – 3, Palaearctic – 2, Russia – 1.
- Proelicator proprius** Rossem, 1982. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (ZB). – Europe (WE, NE).
- SYMPLECEIS** Foerster, 1869 (*Blapticus* Foerster, 1869). Type species: *Symplecis alpicola* Foerster, 1871. Predominantly Holarctic genus with a few species in the Afrotropical and Oriental regions. Number of species: World – 12, Palaearctic – 10, Russia – 8.
- Symplecis alpicola** Foerster, 1871 (*Symplecis zonaria* Foerster, 1871; *S. basalis* Brischke, 1880). Russia: **EP** (N, NW, C, NC), **WS** (TM), **ES** (KR, BR, ZB), **FE** (KH, PR, SA, CH). – Europe (WE, NE, EE), Armenia, Kyrgyzstan, Kazakhstan.
- Symplecis bicingulata** (Gravenhorst, 1829) [Mesoleptus]. Russia: **EP** (N, NW, C, E, NC, CR), **ES** (ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Kyrgyzstan, Korean Peninsula, Japan, N America.
- Symplecis breviscula** Roman, 1923 (*Symplecis infavorens* Rossem, 1981). Parasitoid of *Diadocidia ferruginosa* Mg. (Diadocidiidae). Russia: **EP** (N), **FE** (KA). – Europe (WE, NE, EE), N America.
- Symplecis carinulata** Dasch, 1992. Russia: **EP** (N), **WS** (TM), **FE** (KA). – N America.
- Symplecis clipeator** (Lundbeck, 1897) [Hemiteles]. Russia: **EP** (N), **ES** (KR, YA). – Europe (NE), Greenland, N America.
- Symplecis glabra** Dasch, 1992. Russia: **EP** (N), **FE** (PR). – Europe (EE), N America.
- Symplecis invisitata** Rossem, 1981. Russia: **EP** (N, NW), **WS** (TM), **FE** (PR, SA, KA, CH). – Europe (NE, SE, EE), Korean Peninsula, N America.
- Symplecis leucostoma** (Foerster, 1871) [Blapticus] (*Symplecis xanthostoma* Foerster, 1871). Russia: **EP** (N, NW, NC), **WS** (TM), **ES** (YA), **FE** (SA). – Europe (WE, NE, EE).
- TERMINATOR** Humala, 2007. Type species: *Terminator orientalis* Humala, 2007. Palaearctic genus. Number of species: World, Palaearctic and Russia – 2.
- Terminator notabilis** Humala, 2007. Russia: **FE** (PR). – Japan (Hok).
- Terminator orientalis** Humala, 2007. Russia: **FE** (PR).
- Tribe ORTHOCENTRINI
- BATAKOMACRUS** Kolarov, 1986. Type species: *Batakoma-crussicaudatus* Kolarov, 1986. Holarctic genus. Number of species: World – 8, Palaearctic – 7, Russia – 4.
- Batakoma-crussicaudatus** (Holmgren, 1858) [Orthocentrus] (*Batakoma-crussicaudatus* Kolarov, 1986). Russia: **EP** (N, NW, CR), **FE** (SA). – Europe (WE, NE, SE, EE), Azerbaijan, Iran, N America.

- Batakomacrus karelicus** Humala, 2010. Russia: **EP** (N, NW). – Europe (NE).
- Batakomacrus subarcticus** Humala, 2010. Russia: **EP** (N, NW), **WS** (TM). – Europe (WE, NE).
- Batakomacrus sylvicola** Humala, 2010. Russia: **EP** (N). – Europe (WE, NE).
- NEURATELES** Ratzeburg, 1848. Type species: *Neurateles papyraceus* Ratzeburg, 1848. Holarctic genus. Number of species: World – 7, Palaearctic – 5, Russia – 3.
- Neurateles compressus** (Thomson, 1897) [Orthocentrus]. Russia: **EP** (N, NW), **FE** (CH). – Europe (WE, NE, EE).
- Neurateles falcatus** (Thomson, 1897) [Orthocentrus]. Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, EE).
- Neurateles papyraceus** Ratzeburg, 1848. Parasitoid of *Plastosciara pictiventris* Kieffer and *Xylosciara lignicola* Winn. (Sciaridae). Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- ORTHOCENTRUS** Gravenhorst, 1829. Type species: *Orthocentrus anomalus* Gravenhorst, 1829. Large worldwide distributed genus. Number of species: World – 97, Palaearctic – 36, Russia – 18.
- Orthocentrus asper** (Gravenhorst, 1829) [Exochus]. Parasitoid of *Sciophila lutea* Macquart (Mycetophilidae). Russia: **EP** (N, NW, C, S), **WS** (AL). – Europe (WE, NE, SE, EE), Iran, Korean Peninsula, N America.
- Orthocentrus attenuatus** Holmgren, 1858. Russia: **EP** (NW, C, NC). – Europe (WE, NE, EE).
- Orthocentrus consobrinus** Humala et Lee, 2019. Russia: **FE** (PR). – Korean Peninsula.
- Orthocentrus corrugatus** Holmgren, 1858. Parasitoid of *Sciophila lutea* Macquart (Mycetophilidae). Russia: **EP** (NW, C, E), **UR**, **WS** (AL), **ES** (YA). – Europe (WE, NE, EE).
- Orthocentrus frontator** (Zetterstedt, 1838) [Tryphon]. Russia: **EP** (N, NW), **UR**. – Europe (WE, NE, SE, EE), N America.
- Orthocentrus fulvipes** Gravenhorst, 1829. Russia: **EP** (N, NW, C, E, CR), **ES** (BR), **FE** (KH, SA). – Europe (WE, NE, SE, EE), Canary Is, Turkey, Iran, Mongolia, China (NE, SW, SE), Korean Peninsula, Japan (Hok).
- Orthocentrus hirsutor** Aubert, 1969. Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, EE), Iran, Korean Peninsula.
- Orthocentrus longicornis** Holmgren, 1858. Russia: **EP** (N). – Europe (WE, NE).
- Orthocentrus marginatus** Holmgren, 1858. Russia: **EP** (N), **ES** (YA). – Europe (WE, NE, EE), Madeira Is, Korean Peninsula.
- Orthocentrus monilicornis** Holmgren, 1858. Parasitoid of *Sciophila* sp. (Mycetophilidae). Russia: **EP** (N). – Europe (WE, NE, EE), Madeira Is.
- Orthocentrus orbitator** Aubert, 1963. Russia: **EP** (N). – Europe (WE, NE, SE).
- Orthocentrus patulus** Holmgren, 1858. Russia: **EP** (NW). – Europe (WE, NE, SE, EE), Korean Peninsula.
- Orthocentrus protervus** Holmgren, 1858. Parasitoid of *Sciophila hirta* Mg. (Mycetophilidae). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Iran, Korean Peninsula.
- Orthocentrus radialis** Thomson, 1897. Russia: **EP** (N, ? NC). – Europe (WE, NE, SE, EE), Turkey.
- Orthocentrus sannio** Holmgren, 1858. Russia: **EP** (N, NW, C, E), **UR**, **WS** (TM, NS), **ES** (YA, ZB), **FE** (SA, KU). – Europe (WE, NE, SE, EE), ? Iran, Korean Peninsula, N America.
- Orthocentrus spurius** Gravenhorst, 1829 (*Orthocentrus protuberans* Holmgren, 1858). Russia: **EP** (N, NW), **ES** (KR), **FE** (SA, KA). – Europe (WE, NE, SE, EE), China (NE), Korean Peninsula, N America.
- Orthocentrus strigatus** Holmgren, 1858. Russia: **EP** (N, NW), **FE** (KH). – Europe (WE, NE, SE, EE), ? Iran.
- Remarks.** Record this species from Iran is most probably refers to *O. fulvipes* Gravenhorst.
- Orthocentrus winnertzii** Foerster, 1850 (*Orthocentrus stigmaticus* Holmgren, 1858). Parasitoid of *Sciophila rufa* Mg. (Mycetophilidae). Russia: **EP** (N, NW, C, S), **UR**, **WS** (TM), **ES** (KR, IR, YA), **FE** (SA). – Europe (WE, NE, SE, EE), Iran, Korean Peninsula, N America.
- PICROSTIGEUS** Foerster, 1869. Type species: *Orthocentrus setiger* Brischke, 1871. Holarctic genus. Number of species: World and Palaearctic – 8, Russia – 4.
- Picrostigeus antennalis** Roman, 1909. Russia: **EP** (N). – Europe (NE, EE), N America.
- Picrostigeus debilis** (Gravenhorst, 1829) [Orthocentrus]. Russia: **EP** (N, C). – Europe (WE, NE, EE).
- Picrostigeus obscurus** Horstmann, 1994. Russia: **EP** (N). – Europe (WE, NE, EE).
- Picrostigeus recticauda** (Thomson, 1897) [Orthocentrus]. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Canary Is, Korean Peninsula.
- PLECTISCUS** Gravenhorst, 1829. Type species: *Plectiscus impurator* Gravenhorst, 1829. Predominantly Holarctic genus with one species in the Afrotropical region. Number of species: World – 11, Palaearctic – 8, Russia – 7.
- Plectiscus agilis** (Holmgren, 1858) [Orthocentrus]. Russia: **EP** (NW, C, E). – Europe (WE, NE, EE), Iran.
- Plectiscus callidulus** (Holmgren, 1858) [Orthocentrus] (*Stenomacrus morio* Holmgren, 1858). Russia: **EP** (N, NW, C), **UR**, **WS** (AL). – Europe (WE, NE, EE), Greenland.
- Plectiscus exilis** (Holmgren, 1858) [Orthocentrus]. Russia: **UR**, **ES** (KR). – Europe (WE, NE, EE).
- Plectiscus impurator** Gravenhorst, 1829. Russia: **EP** (N, NW, C), **WS** (AL), **FE** (PR, SA). – Europe (WE, NE, EE), Madeira Is, Mongolia.
- Plectiscus minutus** (Holmgren, 1858) [Orthocentrus]. Russia: **EP** (N, NW, C, CR), **UR**, **WS** (TM), **ES** (KR, YA). – Europe (WE, NE, EE), ? Iran, Mongolia, Greenland.

- Plectiscus oeklandi** (Roman, 1924) [Stenomacrus]. Russia: **EP** (N).
- Plectiscus ridibundus** Gravenhorst, 1829. Parasitoid of *Sciara nigripennis* Brunetti (Sciaridae). Russia: **EP** (N, NW). – Europe (WE, NE, EE).
- STENOMACRUS** Foerster, 1869. Type species: *Orthocentrus silvaticus* Holmgren, 1858. Large worldwide genus requiring taxonomical revision. Number of species: World – 72, Palaearctic – 52, Russia – 19.
- Stenomacrus celer** (Holmgren, 1858) [Orthocentrus]. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE).
- Stenomacrus cognatus** (Holmgren, 1858) [Orthocentrus] (*Orthocentrus tristis* Holmgren, 1858). Russia: **EP** (NW). – Europe (WE, NE, EE).
- Stenomacrus cubiceps** (Thomson, 1897) [Orthocentrus]. Russia: **EP** (N). – Europe (WE, NE, EE).
- Stenomacrus curvicaudatus** (Brischke, 1871) [Orthocentrus]. Russia: **EP** (NW). – Europe (WE, NE, EE), Iran.
- Stenomacrus dendrolimi** (Matsumura, 1926) [Chorinaeus]. Russia: **FE** (KU).
- Stenomacrus exserens** (Thomson, 1898) [Orthocentrus]. Russia: **EP** (N). – Europe (WE, NE, SE, EE), Iran.
- Stenomacrus hilaris** (Holmgren, 1883) [Orthocentrus]. Russia: **EP** (N). – Greenland.
- Stenomacrus holmgreni** (Kirchner, 1867) [Orthocentrus] (*Orthocentrus intermedius* Holmgren, 1858; *Stenomacrus lapponicus* Horstmann et Yu, 1999). Russia: **EP** (C). – Europe (WE, NE, EE).
- Stenomacrus laricis** (Haliday, 1838) [Bassus]. Parasitoid of *Bradysia confinis* Winn. (Sciaridae). Russia: **EP** (N, NC). – Europe (WE, NE, SE, EE).
- Stenomacrus laticollis** (Holmgren, 1883) [Orthocentrus]. Russia: **EP** (N). – Europe (WE, NE, EE), Greenland.
- Stenomacrus merula** (Gravenhorst, 1829) [Orthocentrus] (*Stenomacrus femoralis* Holmgren, 1858). Russia: **EP** (N, NW, C), **UR**, **ES** (YA, KA). – Europe (WE, NE, SE, EE), Iran, N America.
- Stenomacrus molestus** (Holmgren, 1858) [Orthocentrus]. Russia: **EP** (N, NW, C), **ES** (KR, YA), **FE** (PR). – Europe (WE, NE).
- Stenomacrus palustris** (Holmgren, 1858) [Orthocentrus]. Russia: **EP** (NW, C), **UR**. – Europe (WE, NE, EE).
- Stenomacrus rivosus** (Holmgren, 1883) [Orthocentrus]. Russia: **EP** (N).
- Stenomacrus solitarius** (Holmgren, 1883) [Orthocentrus]. Russia: **EP** (N).
- Stenomacrus terrestris** Roman, 1914. Russia: **ES** (KR).
- Stenomacrus ungula** (Thomson, 1898) [Orthocentrus]. Russia: **EP** (N), **WS** (TM). – Europe (WE, NE, EE).
- Stenomacrus vafer** (Holmgren, 1858) [Orthocentrus]. Russia: **ES** (KR, YA). – Europe (WE, NE, SE, EE).
- Stenomacrus validicornis** (Boheman, 1866) [Orthocentrus] (*Orthocentrus dispar* Holmgren, 1883; *O. hirticornis* Holmgren, 1883). Russia: **EP** (N), **ES** (KR). – Europe (NE).

Subfamily ORTHOPELMATINAE

A.I. KHALAIM

Small Holarctic subfamily comprising a single genus. Parasitoids of gall wasps of the family Cynipidae (Hymenoptera); most host records are from the genera *Diastrophus* Hartig and *Diplolepis* Geoffr.

Number of taxa: World – 1 genus and 10 species, Palaearctic – 1/7, Russia – 1/3.

References. Kusigemati, 1974; Kasparyan, Khalaim, 2007o; Kasparyan, 2011c.

ORTHOPELMA Taschenberg, 1865 (*Proedrus* Foerster, 1869). Type species: *Hemiteles luteolator* Gravenhorst, 1829 (= *Ichneumon mediator* Thunberg, 1822). Holarctic genus. Number of species: World – 10, Palaearctic – 7, Russia – 3.

Orthopelma brevicorne Morley, 1907. Parasitoid of *Diplolepis* spp. (Cynipidae). Russia: **EP** (without regions: Kasparyan, Khalaim, 2007o), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey, ? Kazakhstan, Korean Peninsula.

Orthopelma caucasicum Kasparyan, 2011. Russia: **EP** (NC). – Armenia, Azerbaijan.

Orthopelma mediator (Thunberg, 1822) [Ichneumon] (*Hemiteles luteolator* Gravenhorst, 1829; *Porizon rufinus* Gravenhorst, 1829; *Hemiteles pavoniae* Rondani, 1877). Parasitoid of *Aylax* sp., *Diastrophus* spp., *Diplolepis* spp. and *Dryocosmus kuriphilus* Yasumatsu (Cynipidae). Russia: **EP** (N; without regions: Kasparyan, Khalaim, 2007o), **ES** (? IR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, ? Central Asia, N America.

Subfamily OXYTORINAE

A.E. HUMALA

Small subfamily of unclear systematic position comprising a single worldwide genus. Biology is unknown.

Number of taxa: World – 1 genus and 25 species, Palaearctic – 1/14, Russia – 1/8.

References. Kerrich, 1939; Momoi, 1965; Humala, 2003, 2007a, 2019b; Kasparyan et al., 2014; Sheng, Sun, 2014; Watanabe, 2016b.

OXYTORUS Foerster, 1869 (*Callidiotes* Foerster, 1869). Type species: *Oxytorus armatus* Thomson, 1883. Number of species: World – 25, Palaearctic – 14, Russia – 7.

Oxytorus areolator Lee et Kasparyan, 2014. Russia: **FE** (PR). – Korean Peninsula, Japan (Hon).

Oxytorus armatus Thomson, 1883. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).

Oxytorus confusus Humala, 2003. Russia: **FE** (PR).

Oxytorus corniger (Momoi, 1965) [Callidiotes] (*Pseudalomya takeii* Kusigemati, 1984). Russia: **FE** (KH, PR, SA). – China (NE), Japan (Hon).

- Oxytorus diceratops** Lee et Kasparyan, 2014. Russia: **FE** (PR). – Korean Peninsula, Japan (Hon).
Oxytorus kamikochianus (Momoi, 1965) [Callidiotes]. Russia: **FE** (AM, KH, PR). – Japan (Hon).
Oxytorus luridator (Gravenhorst, 1820) [Ichneumon] (*Meso-leptus coxator* Gravenhorst, 1829). Russia: **EP** (N, NW, C, NC), **WS** (NS). – Europe (WE, NE, SE, EE), Georgia.
Oxytorus obtusus (Momoi, 1965) [Callidiotes]. Russia: **FE** (PR). – Japan (Hok).

Subfamily PIMPLINAE

A.I. KHALAIM

Large worldwide subfamily which is subdivided into four tribes, the Delomeristini, Ephialtini, Pimplini and Theroniini. The Pimplinae is biologically an exceptionally diverse group of Ichneumonidae. The subfamily comprises ecto- and endoparasitoid taxa, as well as idio- and koinobionts, pseudohyperparasitoids, cleptoparasitoids and solitary and gregarious species. The host range of Pimplinae includes various insects (mainly species of Coleoptera, Lepidoptera and Hymenoptera) and spiders and their egg-sacs.

Number of taxa: World – 78 genera and about 1665 species, Palaearctic – 46/375, Russia – 39/196.

References. Momoi, 1961; Kasparyan, 1973b, 1973c, 1974a, 1974b, 1976a, 1977, 1979, 1981a; Gauld, Dubois, 2006; Kasparyan, Khalaim, 2007a; Choi et al., 2016a; Matsumoto, 2016, 2018; Choi, Lee, 2017b; Gadallah, El-Hennawy, 2017; Song, Lee, 2017.

Tribe DELOMERISTINI

ATRACTOGASTER Kriechbaumer, 1872. Type species: *Atractogaster semisculptus* Kriechbaumer, 1872. Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.

Atractogaster semisculptus Kriechbaumer, 1872. Parasitoid of *Melanophila picta* Pall. (Buprestidae), *Acanthocinus aedilis* L. (Cerambycidae), etc. Russia: **EP** (without regions: Kasparyan, Khalaim, 2007a), **ES** (TU, YA), **FE** (PR). – Europe (WE, NE, EE).

DELOMERISTA Foerster, 1869. Type species: *Pimpla mandibularis* Gravenhorst, 1829. Predominantly Holarctic genus; one species is also known from India. Number of species: World – 18, Palaearctic – 12, Russia – 9.

Delomerista borealis Walkley, 1960. Russia: **EP** (N, NW), **ES** (BR, YA, ZB), **FE** (KU, KA). – Europe (WE, NE, EE), N America.

Delomerista frigida Kasparyan, 1977. Russia: **EP** (N), **WS** (TM), **ES** (YA), **FE** (MG). – Europe (WE, NE).

Delomerista japonica Cushman, 1937. Parasitoid of Diprionidae (Hymenoptera). Russia: **EP** (N), **ES** (IR, YA), **FE** (SA, KU, CH). – Europe (NE, EE), Japan, N America.

Delomerista laevis (Gravenhorst, 1829) [Pimpla] (*Lissonota suborbitalis* Gravenhorst, 1829; *Pimpla texana* Cresson, 1870; *P. laevifrons* Thomson, 1877). Parasitoid of *Rhyacionia buoliana* Den. et Schiff. (Lepidoptera: Tortricidae) and sawflies (Hymenoptera: Symphyta). Russia: **EP** (N), **WS** (TM), **ES** (KR, IR, YA, ZB), **FE** (SA, CH). – Europe (WE, NE, SE, EE), Mongolia, N America.

Delomerista longicauda Kasparyan, 1973. Russia: **UR**, **WS** (TM), **ES** (IR, YA), **FE** (AM, KH, PR). – Europe (WE, NE), China (NE), N America.

Delomerista mandibularis (Gravenhorst, 1829) [Pimpla] (*Delomerista gelida* Walkley, 1960). Parasitoid of Symphyta (Hymenoptera); recorded as hyperparasitoid of Lasiocampidae (Lepidoptera) via Braconidae (Hymenoptera). Russia: **EP** (N, NW, C, S), **UR**, **WS** (TM, TK), **ES** (KR, BR, ZB), **FE** (KH, KU, MG). – Europe (WE, NE, SE, EE), Turkey, Japan, N America.

Delomerista novita (Cresson, 1870) [Pimpla]. Parasitoid of Curculionidae (Coleoptera), Phycitidae (Lepidoptera) and Symphyta (Hymenoptera). Russia: **EP** (N, NW), **ES** (IR, BR, ZB), **FE** (AM, KH). – Europe (WE, NE, EE), China (NE), N America.

Delomerista pfankuchi Brauns, 1905 (*Troctocerus unicolor* Hedwig, 1959). Parasitoid of families Diprionidae (Hymenoptera), Psychidae and Gelechiidae (Lepidoptera). Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, EE), Turkey.

Delomerista strandi Ulbricht, 1911. Russia: **EP** (N, NW), **FE** (CH). – Europe (WE, NE, SE, EE), ? N America.

PERITHOUS Holmgren, 1859 (*Hybomischos* Baltazar, 1961). Type species: *Ephialtes albicinctus* Gravenhorst, 1829. Holarctic and Oriental genus. Number of species: World – 18, Palaearctic – 10, Russia – 5.

Perithous albicinctus (Gravenhorst, 1829) [Ephialtes]. Parasitoid of *Ectemnius nigritarsus* H.-Sch. (Crabronidae). Russia: **EP** (N, C, S), **ES** (BR), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Japan.

Perithous divinator (Rossi, 1790) [Ichneumon] (*Pimpla amoena* Rudow, 1881; *Perithous melanarius* Kiss, 1929; *P. pimplarius* Haupt, 1938). Parasitoid of various Crabronidae (Hymenoptera) and other insects. Russia: **EP** (“except north”: Kasparyan et al., 1981). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Kazakhstan, China (NE), N America, India.

Perithous scurra (Panzer, 1804) [Ichneumon] (*Pimpla media* Fabricius, 1804; *Ichneumon asilator* Thunberg, 1822; *I. modulator* Thunberg, 1822; *Pimpla senator* Haliday, 1838; *P. decorata* Ratzeburg, 1848; *Perithous longiseta* Haupt, 1954). Parasitoid of various Crabronidae (Hymenoptera) and other insects. Russia: **EP** (N, NW, S), **ES** (KR, IR, BR, YA), **FE** (SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, China (NE), Korean Peninsula, Japan, N America.

Remarks. The species comprises five subspecies, including *P. scurra japonicus* Uchida, 1928 recorded from the Russian Far East.

Perithous septemcinctorius (Thunberg, 1822) [Ichneumon] (*Ephialtes varius* Gravenhorst, 1829; *Pimpla marginellatoria* Dufour et Perris, 1840; *Perithous brunnescens* Koornneef, 1951; *P. exiguus* Haupt, 1954; *P. meridionator* Aubert, 1963). Parasitoid of Crabronidae (Hymenoptera), etc. Russia: **EP** (NW, C, E, S, NC). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Kazakhstan, China (NE, NC, NW).

Perithous speculator Haupt, 1954. Russia: **FE** (PR). – Europe (WE, NE, EE).

PSEUDORHYSSA Merrill, 1915. Type species: *Pseudorhyssa sternata* Merrill, 1915 (= *Rhyssa nigricornis* Ratzeburg, 1852). Holarctic genus. Hyperparasitoids of xylophagous sawflies, mainly from the families Siricidae and Xiphydriidae (Hymenoptera) via Rhyssinae (Hymenoptera: Ichneumonidae). Number of species: World and Palaearctic – 4, Russia – 2.

Pseudorhyssa alpestris (Holmgren, 1860) [Rhyssa] (*Rhyssa ruficoxis* Kriechbaumer, 1887; *Rh. hungarica* Mocsáry, 1905). Parasitoid of *Sirex* sp., *Urocetus* sp. (Hymenoptera: Cimbicidae) and *Xiphydria* spp. (Hymenoptera: Xiphydriidae); hyperparasitoid of *Xiphydria* species via *Rhyssella* Rohwer (Hymenoptera: Ichneumonidae). Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, SE, EE), Japan (Hon), N America.

Pseudorhyssa nigricornis (Ratzeburg, 1852) [Rhyssa] (*Rhyssa maculicoxis* Kriechbaumer, 1889; *Pseudorhyssa sternata* Merrill, 1915; *Rhyssa praealpina* Gyorfi, 1946). Parasitoid of horntail sawflies (Hymenoptera: Siricidae) via *Rhyssa persuasoria* L. (Hymenoptera: Ichneumonidae). Russia: **EP** (N, NW), **FE** (PR, KA). – Europe (WE, NE, SE, EE), China (NE), Japan (Kyu), N America.

Tribe EPHIALTINI

ACRODACTYLA Haliday, 1838 (*Barypus* Haliday, 1837, nom. praeocc., nec Laporte, 1834; *Colpomeria* Holmgren, 1859; *Symphylus* Foerster, 1871; *Pantomima* Rossem, 1990). Type species: *Pimpla degener* Haliday, 1838. Holarctic, Oriental and Australasian genus. Parasitoids of adult spiders. Number of species: World – 30, Palaearctic – 12, Russia – 6.

Acrodactyla carinator (Aubert, 1965) [Colpomeria] (*Acrodactyla braconiformis* Kolarov, 1990). Parasitoid of *Tetragnatha montana* Simon (Tetragnathidae). Russia: **EP** (N, NC), **FE** (KH). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Mongolia.

Acrodactyla degener (Haliday, 1838) [Pimpla] (*Symphylus hadrodactylus* Foerster, 1871; *S. politus* Foerster, 1871; *Pantomima festata* Rossem, 1990). Parasitoid of various

spiders. Russia: **EP** (N, NW, CR), **WS** (AL), **ES** (ZB), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey, N America.

Acrodactyla lydia Kasparyan, 1979. Russia: **FE** (PR).

Acrodactyla mitis Kasparyan, 1976. Russia: **FE** (KU).

Acrodactyla mixta Kasparyan, 1976. Russia: **FE** (KU).

Acrodactyla quadrisculpta (Gravenhorst, 1820) [Ichneumon] (*Colpomeria laevigata* Holmgren, 1859). Parasitoid of various spiders. Russia: **EP** (N, NW, C, NC), **ES** (BR, YA, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, China (CC, SW), N America, Australia.

Acrodactyla trochanterata Kasparyan, 1976. Russia: **FE** (KH).

ACROPIMPLA Townes, 1960 (*Selenaspis* Roman, 1910). Type species: *Charitopimpla leucostoma* Cameron, 1907. Predominantly Oriental genus. Number of species: World – 45, Palaearctic – 4, Russia – 3.

Acropimpla didyma (Gravenhorst, 1829) [Pimpla] (*Pimpla jezoensis* Matsumura, 1926). Parasitoid of Erebiidae, Lasiocampidae and Noctuidae (Lepidoptera). Russia: **EP** (N, C, S), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Turkey, China (NC), Japan.

Acropimpla persimilis (Ashmead, 1906) [Epiurus]. Parasitoid of various Lepidoptera. Russia: **FE** (SA, KU). – China, Korean Peninsula, Japan.

Acropimpla pictipes (Gravenhorst, 1829) [Pimpla] (*Pimpla gravenhorstii* Taschenberg, 1863; *P. stenostigma* Thomson, 1877; *P. ratzeburgii* Kriechbaumer, 1887). Parasitoid of Curculionidae (Coleoptera) and several lepidopteran families. Russia: **EP** (N, NW, C, S, NC, CR), **ES** (TU, IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, Mongolia, China (NE, NC, CC), Japan.

ALOPHOSTERNUM Cushman, 1933. Type species: *Alophosternum foliicola* Cushman, 1933. Holarctic genus. Number of species: World – 3, Palaearctic and Russia – 2.

Alophosternum albofaciale Kasparyan, 1981. Parasitoid of *Heterarthrus* spp. (Tenthredinidae). Russia: **EP** (NW, NC). – Europe (WE, SE, EE), Caucasus.

Alophosternum nigracoxis Zwakhals, 1987. Russia: **FE** (PR, KU). – Europe (EE), China (NE).

BRACHYZAPUS Gauld et Dubois, 2006. Type species: *Polysphincta tenuiabdominalis* Uchida, 1941. Palaearctic, Oriental and Afrotropical genus. Number of species: World – 14, Palaearctic – 5, Russia – 3.

Brachyzapus nikkoensis (Uchida, 1928) [Polysphincta]. Parasitoid of *Agelena limbata* Thorell and *Tegenaria domestica* Clerck (Araneae). Russia: **FE** (PR). – Japan.

Brachyzapus tenuiabdominalis (Uchida, 1941) [Polysphincta]. Russia: **EP** (NC), **FE** (PR). – Japan.

Brachyzapus unicarinata (Uchida et Momoi, 1958) [Polysphincta]. Russia: **FE** (PR). – China (CC, SE), Korean Peninsula, Japan.

- CLISTOPYGA** Gravenhorst, 1829. Type species: *Ichneumon incitator* Fabricius, 1793. Almost world-wide genus (unknown from Australia). Parasitoids of adult spiders and probably spider egg-sacs (Araneae); numerous records of *Clistopyga* species from other hosts (Coleoptera, Lepidoptera, etc.) are incorrect. Number of species: World – 66, Palaearctic – 9, Russia – 5.
- Clistopyga canadensis** Provancher, 1880 (*Clistopyga sauberi* Brauns, 1898; *C. terebralis* Shestakov, 1927). Russia: **EP** (N, NW, C, E), **FE** (MG). – Europe (WE, NE, EE), Turkey, N America.
- Clistopyga incitator** (Fabricius, 1793) [Ichneumon] (*Clistopyga haemorrhoidalis* Gravenhorst, 1829; *Polysphincta elegans* Ratzeburg, 1848; *P. excavata* Telenga, 1930; *Clistopyga temporalis* Hellén, 1949). Parasitoid of *Segetria senoculata* L. (Segestriidae). Russia: **EP** (N, NW, C, S), **FE** (PR). – Europe (WE, NE, SE, EE), Canary Is, N Africa, Caucasus, Israel, Iran, Mongolia, China (NC).
- Clistopyga laevis** Kasparyan, 1981. Russia: **FE** (SA, KU). – Iran.
- Clistopyga rufator** Holmgren, 1856. Parasitoid of *Clubiona juvenis* Simon (Clubionidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Clistopyga sziladyi** Kiss, 1959 (*Clistopyga sziladyi* Kiss, 1933; *C. nagatomii* Kusigemati, 1984). Russia: **FE** (PR). – Europe (WE, EE), Japan (Hon), India, Thailand.
- DOLICHOMITUS** Smith, 1877 (*Closterocerus* Hartig, 1847; *Exeristoidea* Viereck, 1924; *Tuberculephialtes* Ozols, 1962). Type species: *Dolichomitus longicauda* Smith, 1877. Parasitoids of larvae of the xylophagous insects. Number of species: World – 79, Palaearctic – 42, Russia – 22.
- Remarks.** Record of *Dolichomitus atratus* (Rudow, 1881) (as *Ephialtes tschitscherini* Kokujev, 1904) from “Ural” belongs to Kazakhstan, not to Russia (Kasparyan, Khalaim, 2007a: 284).
- Dolichomitus aciculatus** (Hellén, 1915) [Ephialtes] (*Ephialtes nodosus* Gyorfi, 1941). Parasitoid of *Tetropium gabrieli* Weise (Coleoptera: Cerambycidae). Russia: **EP** (without regions: Kasparyan, Khalaim, 2007a), **FE** (PR, CH). – Europe (WE, NE, SE, EE), Caucasus, Mongolia, Japan, N America.
- Dolichomitus cephalotes** (Holmgren, 1860) [Ephialtes] (*Ephialtes longicauda* Mocsary, 1897; *Ichneumon watsoni* Viereck, 1924). Parasitoid of Cerambycidae (Coleoptera) and Xiphydriidae (Hymenoptera). Russia: **EP** (NW, C, S, NC), **ES** (KR, YA), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Caucasus, China (NE, NC/NW), N America.
- Dolichomitus cognator** (Thunberg, 1822) [Ichneumon] (*Ephialtes macrurus* Thomson, 1894; *E. speciosus* Hellén, 1915). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Dolichomitus curticornis** (Perkins, 1943) [Ephialtes] (*Ephialtes brevicornis* Tschek, 1869, nom. praeocc., nec Gravenhorst, 1829). Parasitoid of Cerambycidae (Coleoptera), Siricidae and Xiphydriidae (Hymenoptera). Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Korean Peninsula.
- Dolichomitus diversicostae** (Perkins, 1943) [Ephialtes]. Parasitoid of *Acanthocinus aedilis* L. and *Saperda scalaris* L. (Cerambycidae). Russia: **EP** (without regions: Kasparyan, Khalaim, 2007a), **ES** (TU), **FE** (PR, MG). – Europe (WE, NE, SE, EE), China (NE), Korean Peninsula.
- Dolichomitus dux** (Tschek, 1869) [Ephialtes] (*Ephialtes crassiceps* Thomson, 1877). Parasitoid of various Cerambycidae (Coleoptera). Russia: **EP** (N, NW), **ES** (KR, IR), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, China (NE), Korean Peninsula.
- Dolichomitus elongatus** (Uchida, 1928) [Ephialtes]. ? Russia: **FE** (KH). – Korean Peninsula, Japan.
- Dolichomitus imperator** (Kriechbaumer, 1854) [Ephialtes] (*Ephialtes occidentalis* Cresson, 1865). Parasitoid of Cerambycidae (Coleoptera). Russia: **EP** (N, NW), **WS** (AL). – Europe (WE, NE, SE, EE), Caucasus, Iran, China (NE), Korean Peninsula, N America.
- Dolichomitus kriechebaumeri** (Schulz, 1906) [Ephialtes] (*Ephialtes geniculatus* Kriechbaumer, 1896, nom. praeocc., nec Brischke, 1865; *E. kriechebaumeri* Schmiedeknecht, 1934; *E. subglabratus* Perkins, 1943). Parasitoid of Buprestidae (Coleoptera). Russia: **EP** (NC), **WS** (OM). – Europe (WE, NE, SE, EE), Egypt, Turkey, Israel, Iran, Central Asia, Korean Peninsula.
- Dolichomitus matsumurai** (Uchida, 1928) [Ephialtes] (*Ephialtes nonmanifestator* Uchida, 1936). Russia: **FE** (SA). – Japan.
- Dolichomitus melanomerus macropunctatus** Uchida, 1928. Parasitoid of *Megopsis sinica* White and *Prionus insularis* Motsch. (Cerambycidae). Russia: **FE** (KU). – China (NE, CC), Japan.
- Dolichomitus mesocentrus** (Gravenhorst, 1829) [Ephialtes] (*Ephialtes rex* Kriechbaumer, 1854; *E. insignis* Habermehl, 1903; *E. krapinensis* Hensch, 1930; *E. gaurotii* Gregor, 1941; *E. tetrica* Gregor, 1941). Parasitoid of various Cerambycidae (Coleoptera) and other insects. Russia: **EP** (N, without regions: Kasparyan, Khalaim, 2007a), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, China, Korean Peninsula, Japan, N America.
- Dolichomitus messor** (Gravenhorst, 1829) [Ephialtes] (*Ephialtes continuus* Ratzeburg, 1848; *Pimpla reissigii* Ratzeburg, 1848; *Ephialtes pusillus* Ratzeburg, 1852; *E. heteropus* Thomson, 1888; *E. simillimus* Hensch, 1930; *E. zagoriensis* Hensch, 1930). Parasitoid of Cerambycidae (Coleoptera), etc. Russia: **EP** (NC), **ES** (IR), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Kazakhstan, China (NE, NC, NW), Korean Peninsula, N America.
- Dolichomitus milleri** Zwickhals, 2010. Parasitoid of *Xiphydria camelus* L. (Xiphydriidae). Russia: **EP** (S). – Europe (WE, EE).

- Dolichomitus mordator** (Aubert, 1965) [Ephialtes]. Parasitoid of *Coraeus florentinus* Hbst., *Poecilonota variolosa* Payk. (Buprestidae), *Hesperophanes pallidus* Oliv. (Cerambycidae) and *Xiphydria camelus* L. (Xiphydriidae). Russia: **EP** (without regions: Kasparyan, Khalaim, 2007a), **FE** (PR). – Europe (WE, SE, EE), Korean Peninsula.
- Dolichomitus populneus** (Ratzeburg, 1848) [Ephialtes] (*Ephialtes abbreviatus* Thomson, 1877). Parasitoid of Cerambycidae (Coleoptera), Sesiidae (Lepidoptera), etc. Russia: **EP** (N, C), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, China, Korean Peninsula, N America.
- Dolichomitus pterelas** (Say, 1829) [Ichneumon] (*Ephialtes discrepans* Hensch, 1929). Parasitoid of Cerambycidae (Coleoptera), etc. Russia: **EP** (without regions: Kasparyan, Khalaim, 2007a), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Caucasus, China (NE), Korean Peninsula, Japan, N America.
- Dolichomitus quercicolus** Zwakhals, 2010. Parasitoid of *Phymatodes testaceus* L., *Plagionotus arcuatus* L., *Pyriridium sanguineum* L. and *Stenostola* sp. (Cerambycidae). Russia: **EP** (NC). – Europe (WE, EE).
- Dolichomitus scutellaris** (Thomson, 1877) [Ephialtes] (*Ephialtes atricoxatus* Strobl, 1902). Russia: **FE** (KH). – Europe (WE, NE, SE, EE).
- Dolichomitus sericeus** (Hartig, 1847) [Closterocerus]. Parasitoid of *Chrysobothris orono* Frost (Buprestidae) and *Tetropium* spp. (Cerambycidae). Russia: **ES** (KR). – Europe (WE, NE, SE, EE), Turkey, Iran, China (WP), Korean Peninsula, N America.
- Dolichomitus terebrans** (Ratzeburg, 1844) [Pimpla] (*Ephialtes planifrons* Thomson, 1877; *E. borealis* Hellén, 1915; *Pimpla kangasi* Gyorfi, 1941). Parasitoid of Buprestidae, Cerambycidae, Curculionidae (Coleoptera) and Sesiidae (Lepidoptera). Russia: **EP** (N, C, NC). – Europe (WE, NE, SE, EE), Turkey, N America.
- Dolichomitus tuberculatus** (Geoffroy, 1785) [Ichneumon] (*Ephialtes parallelus* Thomson, 1888; *E. scapularis* Ulbricht, 1910; *E. dentiventris* Hellén, 1915; *E. pfefferi* Habermehl, 1917). Parasitoid of various insects, mainly Cerambycidae (Coleoptera). Russia: **EP** (N, NW, E, S), **UR**, **WS** (OM), **ES** (IR, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Central Asia, Kazakhstan, China (NE, CC), Korean Peninsula, Japan, N America.
- DREISBACHIA** Townes, 1962 (*Laufeia* Tosquinet, 1903, nom. praeocc., nec Simon, 1889). Type species: *Laufeia mira* Tosquinet, 1903. Holarctic, Oriental and Australasian genus. Number of species: World – 11, Palaearctic – 4, Russia – 3.
- Dreischbachia amurensis** Kasparyan, 1976. Russia: **FE** (KH).
- Dreischbachia flavifrontalis** (Uchida et Momoi, 1959) [Laufeia]. Russia: **FE** (PR, SA). – Japan (Hok).
- Dreischbachia punctata** (Uchida et Momoi, 1959) [Laufeia]. Russia: **FE** (PR, KU). – China (SE), Japan (Hok).
- ENDROMOPODA** Hellén, 1939. Type species: *Pimpla melanopyga* Gravenhorst, 1829 (= *Pimpla arundinator* Fabricius, 1804). Predominantly Holarctic genus. Number of species: World – 11, Palaearctic – 7, Russia – 5.
- Endromopoda annulitarsis** (Ashmead, 1906) [Epiurus] (*Lissonota japonica* Matsumura, 1912; *Epiurus kuwayamai* Uchida, 1928). Parasitoid of Crambidae, Gelechiidae and Psychidae (Lepidoptera). Russia: **FE** (SA, KU). – Japan.
- Endromopoda arundinator** (Fabricius, 1804) [Pimpla] (*Pimpla melanopyga* Gravenhorst, 1829; *P. erythrosoma* Rudow, 1883; *P. nigricans* Ulbricht, 1913; *Epiurus culpator* Morley, 1914). Parasitoid of Chloropidae (Diptera) and various Lepidoptera. Russia: **EP** (N, NW, C, E, S, NC), **WS** (TK). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Mongolia.
- Endromopoda detrita** (Holmgren, 1860) [Pimpla] (*Ichneumon punctator* Müller, 1766; *Pimpla laevidorsum* Vollenhoven, 1873; *P. brunnea* Brischke, 1880). Parasitoid of Chloropidae (Diptera), Cephidae (Hymenoptera), various Lepidoptera, etc. Russia: **EP** (N, C, CR), **UR**, **FE** (KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Central Asia, Mongolia, China (SE), Japan (Hon), N America.
- Endromopoda nitida** (Brauns, 1898) [Pimpla] (*Pimpla deplanata* Morley, 1908). Russia: **EP** (N). – Europe (WE, NE, EE), Kazakhstan.
- Endromopoda phragmitidis** (Perkins, 1957) [Ephialtes] (*Scambus rufipes* Aubert, 1963). Parasitoid of *Lipara* spp. (Diptera: Chloropidae), *Lixus bardanae* F. (Coleoptera: Curculionidae) and *Malacosoma neustria* L. (Lepidoptera: Lasiocampidae). Russia: **EP** (N); without regions: Kasparyan, Khalaim, 2007a). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia.
- EPHIALTES** Gravenhorst, 1829. Type species: *Ichneumon manifestator* Linnaeus, 1758. Holarctic and Oriental genus. Parasitoids of wasps nesting in the wood (Hymenoptera: Aculeata) and xylophagous insects. Number of species: World – about 12, Palaearctic – 8, Russia – 4.
- Ephialtes brevis** Morley, 1914 (*Ephialtes cholodkovskii* Meyer, 1924; *E. polytauma* Heinrich, 1949). Parasitoid of *Coelioxys inermis* Kirby and *Megachile nivalis* Friese (Hymenoptera: Megachilidae). Russia: **EP** (NW), **ES** (KR). – Europe (WE, NE, EE), Mongolia, N America.
- Ephialtes duplicauda** Heinrich, 1949 (*Pimpla spatulata* Townes, 1960). Parasitoid of *Ptosima gibbicollis* Say (Buprestidae), *Tetropium cinnamopterum* Kirby (Cerambycidae) and *Ancistrocerus* sp. (Vespidae). Russia: **EP** (without regions: Kasparyan, Khalaim, 2007). – Europe (WE, NE, EE), Caucasus, N America, India.
- Ephialtes hokkaidonis** Uchida, 1928. Parasitoid of coleopterans *Eutetrappa sedecimpunctata* Motsch. (Cerambycidae) and *Pissodes* spp. (Curculionidae), *Symmorphus* sp. (Hymenoptera: Vespidae). Russia: **FE** (KH, PR, SA). – China (NE, NC), Korean Peninsula, Japan.

- Ephialtes manifestator** (Linnaeus, 1758) [Ichneumon] (*Ichneumon carbonarius* Christ, 1791; *I. gracilis* Schrank, 1802; *I. nepotor* Thunberg, 1822). Parasitoid of various Coleoptera, Lepidoptera and Symphyta (Hymenoptera). Russia: **EP** (N, NW, C, E, S), **UR**, **FE** (SA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, China (NC, NW), Japan, N America, India.
- EXERISTES** Foerster, 1869 (*Eremochila* Foerster, 1869). Type species: *Ichneumon roborator* Fabricius, 1793. Predominantly Holarctic genus. Number of species: World – 9, Palaearctic – 7, Russia – 3.
- Exeristes arundinis** (Kriechbaumer, 1887) [Ephialtes] (*Ephialtes niger* Ulbricht, 1913). Parasitoid of *Lipara* spp. (Diptera: Chloropidae). Russia: **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NC).
- Exeristes longiseta** (Ratzeburg, 1844) [Pimpla] (*Ephialtes haemorrhoidalis* Tschek, 1871; *E. pubescens* Hellén, 1915). Parasitoid of *Pissodes* sp. (Curculionidae) and various Tortricidae (Lepidoptera). Russia: **EP** (N, NW), ? **ES** (IR), ? **FE** (KH). – Europe (WE, NE, SE, EE), Mongolia, Japan.
- Exeristes roborator** (Fabricius, 1793) [Ichneumon] (*Ichneumon instigator* Rossi, 1790; *Pimpla longicauda* Brullé, 1832; *P. flavipennis* Rudow, 1883; *P. nodosa* Rudow, 1883; *P. robusta* Rudow, 1883; *P. schmiedeknechti* Kriechbaumer, 1888; *P. brachycera* Thomson, 1894; *P. punctata* Thomson, 1894; *P. divaricata* Strobl, 1901). Parasitoid of various Curculioninae (Coleoptera) and Lepidoptera; also recorded from other insects. Russia: **EP** (C, S, NC), **WS** (NS), **ES** (ZB), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Jordan, Israel, Iran, Pakistan, Central Asia, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, N America (introduced).
- FREDEGUNDA** Fitton, Shaw et Gauld, 1988. Type species: *Pimpla diluta* Ratzeburg, 1852. Palaearctic and Oriental genus. Number of species: World – 2, Palaearctic and Russia – 1.
- Fredegunda diluta** (Ratzeburg, 1852) [Pimpla] (*Pimpla nigriceps* Taschenberg, 1863; *P. media* Verhoeff, 1891; *P. taschenbergii* Dalla Torre, 1901). Parasitoid of several lepidopteran species. Russia: **EP** (NW, C, S). – Europe (WE, NE, SE, EE), Caucasus, Turkey.
- GREGOPIMPLA** Momoi, 1965. Type species: *Pimpla kuwanae* Viereck, 1912. Palaearctic and Oriental genus. Gregarious parasitoids of Lepidoptera. Number of species: World – 8, Palaearctic and Russia – 6.
- Gregopimpla bernuthii** (Hartig, 1838) [Pimpla]. Parasitoid of *Dendrolimus pini* L. (Lasiocampidae) and *Acrobasis pirivorella* Mats. (Pyralidae). Russia: **EP** (C), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey.
- Gregopimpla himalayensis** (Cameron, 1899) [Pimpla] (*Epiurus hakonensis* Ashmead, 1906; *Pimpla japonica* Ulbricht, 1911; *Itoplectis attaci* Habermehl, 1917). Parasitoid of various Lepidoptera. Russia: **FE** (AM, KH, PR). – China, Korean Peninsula, Japan, India.
- Gregopimpla inquisitor** (Scopoli, 1763) [Ichneumon] (*Ichneumon visitator* Scopoli, 1763; *I. scanicus* Geoffroy, 1785; *I. pennator* Fabricius, 1793; *Pimpla flavipes* Gravenhorst, 1829; *P. pini* Hartig, 1838; *P. pudibundae* Ratzeburg, 1848). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, E, S, NC, CR), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Central Asia, Korean Peninsula.
- Gregopimpla kuwanae** (Viereck, 1912) [Pimpla] (*Epiurus satanas* Morley, 1913; *E. nankingensis* Uchida, 1931; *E. mencianae* Uchida, 1935; *E. kimishimai* Uchida, 1942). Parasitoid of various Lepidoptera. Russia: **FE** (PR). – China, Korean Peninsula, Seyrig, 1927).
- Gregopimpla malacosomae** (Seyrig, 1927) [Epiurus]. Parasitoid of *Malacosoma castrense* L. and *M. neustria* L. (Lasiocampidae). Russia: **EP** (S). – Europe (WE, SE, EE), Turkey, Iran, Central Asia.
- Gregopimpla ussuriensis** Kasparyan, 2007. Parasitoid of *Rhodinia fugax diana* Oberth. (Saturniidae). Russia: **FE** (PR).
- IANIA** Matsumoto, 2016. Type species: *Pimpla pictifrons* Thomson, 1877. Monotypic Palaearctic genus; Matsumoto (2016) mentioned also the second, undescribed species from Japan.
- Iania pictifrons** (Thomson, 1877) [Pimpla] (*Pimpla bridgmani* Bignell, 1894; *Polysphincta stigmata* Uchida, 1941). Parasitoid of *Drassodes lapidosus* Walck. (Gnaphosidae). Russia: **EP** (N, NW, NC), **UR**, **ES** (ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey, Japan.
- ISEROPUS** Foerster, 1869. Type species: *Ichneumon graminellae* Schrank, 1802 (= *Ichneumon stercorator* Fabricius, 1793). Holarctic and Neotropical genus. Number of species: World – 9, Palaearctic and Russia – 2.
- Iseropus orientalis** Uchida, 1928 (*Iseropus epicnapterus* Uchida, 1928). Parasitoid of *Dendrolimus spectabilis* Butler, *Euthrix albomaculata* Bremer and *Phyllodesma ilicifolia* L. (Lasiocampidae). Russia: **FE** (AM, KU). – Korean Peninsula, Japan.
- Iseropus stercorator stercorator** (Fabricius, 1793) [Ichneumon] (*Ichneumon graminellae* Schrank, 1802; *Pimpla mussii* Hartig, 1838; *P. holmgreni* Schmiedeknecht, 1888). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, E, S, CR), **UR**, **WS** (NS), **ES** (IR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NW), Japan, N America.
- Iseropus stercorator rubrofascialis** (Meyer, 1921) [Pimpla]. Russia: **EP** (C).
- LIOTRYPHON** Ashmead, 1900 (*Liogaster* Kriechbaumer, 1890, nom. praeocc., nec Meyer, 1844; *Apistes* Seyrig,

- 1927; *Apistephialtes* Seyrig, 1928; *Neoephialtes* Constantineanu et Pisica, 1970). Type species: *Liogaster longulus* Kriechbaumer, 1890 (= *Pimpla punctulata* Ratzeburg, 1848). Holarctic, Oriental and Neotropical genus. Parasitoids of various Lepidoptera. Number of species: World – 25, Palaearctic – 13, Russia – 5.
- Liotryphon arcticus** (Roman, 1926) [Ephialtes]. Russia: **ES** (YA). – Europe (WE, NE), N America.
- Liotryphon caudatus** (Ratzeburg, 1848) [Pimpla] (*Ephialtes brevivialis* Hensch, 1929; *E. incertus* Hensch, 1929). Parasitoid of Tortricidae (Lepidoptera). Russia: **EP** (without regions: Kasparyan, Khalaim, 2007a), **ES** (BR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, N America (introduced).
- Liotryphon laspeyresiae** (Uchida, 1932) [Ephialtes]. Parasitoid of *Grapholita molesta* Busck (Tortricidae). Russia: **ES** (ZB), **FE** (KH, PR, SA). – Japan.
- Liotryphon punctulatus** (Ratzeburg, 1848) [Pimpla] (*Ephialtes discolor* Brischke, 1880; *Epiurus macrurus* Foerster, 1888; *Liogaster longulus* Kriechbaumer, 1890; *Ephialtes tener* Hensch, 1929; *E. vernalis* Hensch, 1929). Parasitoid of lepidopteran families Sesiidae, Tortricidae, etc. Russia: **EP** (without regions: Kasparyan, Khalaim, 2007a), **ES** (YA, ZB). – Europe (WE, NE, SE, EE), Turkey, Iran, Central Asia, Mongolia, China (NE, NC).
- Liotryphon strobilellae** (Linnaeus, 1758) [Ichneumon] (*Ichneumon resinosus* Retzius, 1783; *I. strobilator* Thunberg, 1822; *Ephialtes glabratus* Ratzeburg, 1852; *E. zhedenevskensis* Shestakov, 1927; *E. discedens* Hensch, 1930). Parasitoid of Tortricidae (Lepidoptera). Russia: **EP** (N, NW, C, E, S), **WS** (TK), **ES** (KR, IR), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Kazakhstan, N America.
- MEGAETAIRA** Gauld et Dubois, 2006. Type species: *Pimpla madida* Haliday, 1838. Palaearctic genus. Number of species: World and Palaearctic – 3, Russia – 2.
- Megaetaira madida** (Haliday, 1838) [Pimpla] (*Polysphincta clypeata* Holmgren, 1860). Parasitoid of spiders from the family Tetragnathidae. Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Armenia, Turkey, Iran.
- Megaetaira varicarinata** (Uchida et Momoi, 1958) [Polysphincta]. Russia: **FE** (KU). – Japan (Hok).
- OXYRRHEXIS** Foerster, 1869. Type species: *Cryptus carbonator* Gravenhorst, 1807. Holarctic genus. Number of species: World and Palaearctic – 4, Russia – 2.
- Oxyrrhexis carbonator** (Gravenhorst, 1807) [Cryptus] (*Polysphincta velata* Hartig, 1838; *P. pusilla* Fonscolombe, 1854; *P. morio* Kiss, 1929). Parasitoid of Araneidae, Linyphiidae, Titanoecidae and Theridiidae (Araneae). Russia: **EP** (N, NW, C), **WS/ES** (“Siberia up to Lake Baikal and Lena River”: Kasparyan, Khalaim, 2007a). – Europe (WE, NE, SE, EE), Egypt, Turkey, Mongolia, N America.
- Oxyrrhexis eurus** Kasparyan, 1977 (*Oxyrrhexis chinensis* He, 1996). Russia: **ES** (BR, ZB), **FE** (KH, PR, SA, KU). – Mongolia, China (NE, NC, NW, CC, SW).
- PARAPERITHOUS** Haupt, 1954 (*Gnathaulax* Townes, 1964). Type species: *Perithous aterrimus* Haupt, 1954 (= *Ephialtes gnathaulax* Thomson, 1877). Palaearctic and Oriental genus. Number of species: World – 6, Palaearctic – 3, Russia – 2.
- Paraperithous chui** (Uchida, 1934) [Ephialtes]. Parasitoid of *Diaphania pyloalis* Hmps. (Crambidae). Russia: **FE** (SA). – China (NE, CC), Korean Peninsula, Japan.
- Paraperithous gnathaulax** (Thomson, 1877) [Ephialtes] (*Ephialtes luteipes* Thomson, 1877; *E. ruficollis* Rudow, 1881; *Perithous aterrimus* Haupt, 1954). Parasitoid of Cerambycidae (Coleoptera). Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran.
- PIMPLAETUS** Seyrig, 1932. Type species: *Pimplaetus nataliae* Seyrig, 1932. East Palaearctic, Oriental and Afrotropical genus. Number of species: World – 6, Palaearctic – 2, Russia – 1.
- Pimplaetus crassigenus** (Uchida, 1928) [Ephialtes]. Russia: **FE** (SA, KU). – Japan.
- PIOGASTER** Perkins, 1958. Type species: *Piogaster rugosa* Perkins, 1958 (= *Polysphincta pilosator* Aubert, 1958). Holarctic genus. Number of species: World – 7, Palaearctic – 6, Russia – 2.
- Piogaster pilosator caucasica** Kasparyan, 1981. Russia: **EP** (NC).
- Piogaster ussuriensis** Kasparyan et Khalaim, 2007. Russia: **FE** (PR). – Korean Peninsula.
- POLYSPHINCTA** Gravenhorst, 1829. Type species: *Polysphincta tuberosa* Gravenhorst, 1829. Holarctic, Oriental and Neotropical genus. Number of species: World – about 22, Palaearctic – 7, Russia – 5.
- Polysphincta boops** Tschek, 1869 (*Polysphincta eltschinnovi* Shestakov, 1927; *P. asiatica* Kusigemati, 1984). Parasitoid of *Araniella* spp. (Araneidae) and *Theridion* sp. (Theridiidae). Russia: **EP** (C, NC), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, China (NC, WP, SE), Japan.
- Polysphincta longa** Kasparyan, 1976. Parasitoid of *Araneus angulatus* Clerck (Araneidae). Russia: **UR**, **FE** (AM, PR). – Europe (WE, SE, EE), Caucasus, Thailand.
- Polysphincta rufipes** Gravenhorst, 1829 (*Polysphincta drewseni* Holmgren, 1860). Parasitoid of *Araneus* spp. and *Larinioides cornutus* Clerck (Araneidae). Russia: **EP** (N, NW, C, S, NC), **ES** (IR, YA), **FE** (AM, KH, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Mongolia.
- Polysphincta tuberosa** Gravenhorst, 1829 (*Polysphincta taschenbergi* Woldstedt, 1877; *P. sculpturata* Roman, 1931). Parasitoid of various spiders. Russia: **EP** (N, NC),

- ES** (ZB), **FE** (KH, KA). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, N America.
- Polysphincta vexator** Fitton, Shaw et Gauld, 1988. Parasitoid of *Araneus quadratus* Clerck and *Larinioides cornutus* Clerck (Araneidae). Russia: **EP** (N). – Europe (WE, NE).
- RECLINERVELLUS** He et Ye, 1998. Type species: *Reclinervellus dorsiconcavus* He et Ye, 1998. Palaearctic and Oriental genus. Number of species: World – 4, Palaearctic – 3, Russia – 2.
- Reclinervellus nielsenii** (Roman, 1923) [Polysphincta]. Parasitoid of *Cyclosa* spp. (Araneidae). Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, EE), Georgia, Japan.
- Reclinervellus tuberculatus** (Uchida, 1932) [Polysphincta]. Parasitoid of *Cyclosa octotuberculata* Karsch (Araneidae). Russia: **ES** (BR, ZB), **FE** (KH, PR, SA, KU). – ? Europe (EE), Japan.
- SCAMBUS** Hartig, 1838. Type species: *Pimpla sagax* Hartig, 1838. Holarctic, Oriental and Neotropical genus. Parasitoids of various insects, mainly Lepidoptera. Number of species: World – about 90, Palaearctic – 42, Russia – 18.
- Scambus alpestrator** Aubert, 1966. Parasitoid of *Rhyacionia* spp. (Tortricidae). Russia: **EP** (N, NW), **ES** (YA), **FE** (KA). – Europe (WE, NE, SE, EE).
- Scambus atrocotalis** (Ashmead, 1902) [Epiurus]. Parasitoid of *Choristoneura fumiferana* Clemens (Tortricidae). Russia: **EP** (N, C). – Europe (NE, EE), N America.
- Scambus brevicornis** (Gravenhorst, 1829) [Pimpla] (*Pimpla concolor* Ratzeburg, 1848; *P. nigriscaposa* Thomson, 1877; *P. punctiventris* Thomson, 1877; *Phthorimus anomalus* Morley, 1906; *Pimpla pratensis* Pfankuch, 1921; *P. terrestris* Pfankuch, 1921; *Epiurus rivalis* Habermehl, 1923; *Pimpla ribesii* Hensch, 1929). Parasitoid of Curculionidae (Coleoptera) and various Lepidoptera. Russia: **EP** (NW, C, E, S, CR), **WS** (NS), **FE** (KA, “almost everywhere, except CH”: Kasparyan, Khalaim, 2007a). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NC, NW), Japan, N America.
- Scambus buolianae** (Hartig, 1838) [Pimpla] (*Pimpla triangularis* Verhoeff, 1890; *P. flavotrochanterata* Pfeffer, 1913). Parasitoid of lepidopteran families Gelechiidae, Tortricidae, etc. Russia: **EP** (N, NW, C, S, NC), **WS/ES** (without regions: Kasparyan, Khalaim, 2007a), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Mongolia, China (NE, WP), Japan (Hon).
- Scambus calobatus** (Gravenhorst, 1829) [Pimpla] (*Pimpla planata* Hartig, 1838; *P. ghilianii* Spinola, 1843; *P. nucum* Ratzeburg, 1844; *P. longiventris* Ratzeburg, 1848; *P. cingulata* Ratzeburg, 1852; *P. ventricosa* Tschek, 1871; *P. gallicola* Giraud, 1872; *P. stramentaria* Kriechbaumer, 1890; *P. zonata* Habermehl, 1903; *P. calobataria* Kokujev, 1913; *P. zonatella* Schmiedeknecht, 1914; *Epiurus nigricoxis* Habermehl, 1918; *E. glycinivorellae* Kuwayama, 1928; *E. glycinivorellae* Uchida, 1928). Parasitoid of Curculionidae (Coleoptera) and various Lepidoptera. Russia: **EP** (N, NW, S, NC, CR), **UR, WS** (OM, AL), **ES** (IR, ZB), **FE** (PR, KA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Mongolia, China (NE, WP), Korean Peninsula, Japan, N America.
- Scambus capitator** Aubert, 1965. Parasitoid of Tortricidae, Pyralidae (Lepidoptera) and *Pisodes validirostris* Gyll. (Curculionidae). Russia: **EP** (N/NW), **FE** (KH). – Europe (WE, NE, SE, EE).
- Scambus elegans** (Woldstedt, 1877) [Troctocerus] (*Ephialtes albicrus* Rondani, 1877; *Pimpla cingulatella* Costa, 1885; *Epiurus erythronotus* Foerster, 1888; *Pimpla ulicicida* Morley, 1911; *P. cottei* Seyrig, 1926; *P. dumeticola* Hensch, 1929; *Troctocerus zagoriensis* Hensch, 1929). Parasitoid of various Lepidoptera and Cynipidae (Hymenoptera). Russia: **EP** (NC, CR). – Europe (WE, NE, SE, EE), Egypt, Caucasus, Turkey, Israel.
- Scambus eucosmidarum** (Perkins, 1957) [Ephialtes]. Parasitoid of various Tortricidae (Lepidoptera). Russia: **EP** (N, NW), **FE** (KH). – Europe (WE, NE, SE, EE).
- Scambus foliae** (Cushman, 1938) [Epiurus]. Parasitoid of *Heterarthrus* spp. (Hymenoptera: Tenthredinidae). Russia: **EP** (N), **FE** (SA). – Europe (WE, NE, SE, EE), Turkey, Iran, Japan (Hok).
- Scambus gallicerator** Kasparyan, 1974. Parasitoid of *Hoplocampoides xylostei* Vallot (Hymenoptera: Tenthredinidae). Russia: **EP** (NC), **ES** (ZB). – Europe (WE), Caucasus.
- Scambus inanis** (Schränk, 1802) [Ichneumon] (*Epiurus depositor* Foerster, 1888; *Pseudopoemenia annulata* Kiss, 1924; *Epiurus lativentris* Ulbricht, 1926; *Pimpla trilobatus* Keler, 1937). Parasitoid of Curculionidae (Coleoptera), gall-forming Cynipidae and Tenthredinidae (Hymenoptera) and various Lepidoptera. Russia: **EP** (N, C), **ES** (IR, ZB), ? **FE** (KA). – Europe (WE, NE, SE, EE), Caucasus, Kazakhstan, Mongolia, Japan, N America.
- Scambus kamtschaticus** (Roman, 1931) [Epiurus]. Russia: ? **EP** (N), **FE** (KA). – Japan (Hon).
- Scambus nigricans** (Thomson, 1877) [Pimpla] (*Pimpla similis* Bridgman, 1884; *P. fulva* Szépligeti, 1898; *P. lucens* Szépligeti, 1898; *P. interruptecalloso* Strobl, 1902; *P. affinis* Habermehl, 1903; *P. kriechebaumeri* Habermehl, 1903; *P. habermehli* Schmiedeknecht, 1908; *P. robusta* Morley, 1908; *P. obscuripes* Hensch, 1929; *P. singularis* Hensch, 1929; *Scambus sparsator* Aubert, 1965). Parasitoid of various families of Lepidoptera, Cephidae (Hymenoptera) and Chloropidae (Diptera). Russia: **EP** (N, S, NC), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, Korean Peninsula.
- Scambus pomorum** (Ratzeburg, 1848) [Pimpla]. Parasitoid of Curculionidae (Coleoptera), Tenthredinidae

- (Hymenoptera) and various Lepidoptera. Russia: **EP** (NW, C, NC, CR). – Europe (WE, NE, SE, EE), Caucasus, Turkey.
- Scambus sagax** (Hartig, 1838) [Pimpla] (*Pimpla linearis* Ratzeburg, 1844; *P. atrocoxatus* Pfeffer, 1913; *Epiurus suecicus* Roman, 1917; *Ephialtes sanctacrucianus* Glowacki, 1967). Parasitoid of various Lepidoptera (mostly Tortricidae) and Coleoptera. Russia: **EP** (N, NW, C, E), **ES** (IR), **FE** (AM, KH, SA). – Europe (WE, NE, SE, EE), Turkey, Central Asia, Kazakhstan, China (NC/NW), Japan (Hok).
- Scambus signatus** (Pfeffer, 1913) [Pimpla]. Parasitoid of various Lepidoptera and Diprionidae (Hymenoptera). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran.
- Scambus strobilorum** (Ratzeburg, 1848) [Pimpla] (*Pimpla laticeps* Ratzeburg, 1848). Parasitoid of Tortricidae (Lepidoptera). Russia: **EP** (NW, S), **WS** (AL), **FE** (KH). – Europe (WE, NE, EE), Turkey, Japan.
- Scambus vesicarius** (Ratzeburg, 1844) [Pimpla] (*Pimpla cryptocampi* Boie, 1857; *P. euurae* Ashmead, 1890; *P. gallicola* Morley, 1908; *P. salicicola* Hensch, 1929; *P. morleyi* Schmiedeknecht, 1934). Parasitoid of gall-forming Tenthredinidae (Hymenoptera). Russia: **EP** (N, NW, C, S), **UR**, **WS** (AL), **ES** (YA, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, Korean Peninsula, Japan, N America.
- SCHIZOPYGA** Gravenhorst, 1829. Type species: *Schizopyga podagrica* Gravenhorst, 1829. Predominantly Holarctic genus; also known in the Neotropical, Oriental and Afrotropical regions. Parasitoids of spiders with most host records from the family Clubionidae. Number of species: World – 12, Palaearctic – 7, Russia – 6.
- Schizopyga (Schizopyga) circulator circulator** (Panzer, 1800) [Ichneumon] (*Schizopyga analis* Gravenhorst, 1829). Parasitoid of spiders of the family Clubionidae. Russia: **EP** (E, S). – Europe (WE, NE, SE, EE), Turkey.
- Schizopyga (Schizopyga) circulator pulchra** Walley, 1936. Russia: **ES** (YA), **FE** (KH, SA, KU). – Japan, N America.
- Schizopyga (Schizopyga) flavifrons** Holmgren, 1856. Russia: **EP** (N, NW, ? C), **ES** (BR, ZB), **FE** (PR). – Europe (WE, NE), Israel, Iran, China (NE, CC).
- Schizopyga (Schizopyga) frigida** Cresson, 1870 (*Schizopyga atra* Kriechbaumer, 1887; *Acrogonia varipes* Matsumura, 1912; *Schizopyga nipponica* Uchida, 1928; *S. matsumurai* Matsumura, 1931). Parasitoid of *Clubiona* spp. (Clubionidae). Russia: **EP** (N, NW, C, NC), **WS** (TM), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, China (NC), Japan, N America.
- Schizopyga (Schizopyga) podagrica** Gravenhorst, 1829 (*Schizopyga minuta* Gravenhorst, 1829; *Polysphincta silbernageli* Kiss, 1933). Parasitoid of spider *Cheiracanthium erraticum* Walckenaer (Eutichuridae). Russia: **EP** (NW, NC), **UR**, **WS** (AL), **ES** (YA), **FE** (SA, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia.
- Schizopyga (Schizopyga) varipes** Holmgren, 1856. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Schizopyga (Schizopygoides) nitida** Kasparyan, 1976. Russia: **FE** (PR).
- SINARACHNA** Townes, 1960. Type species: *Polysphincta pallipes* Holmgren, 1860. Holarctic and Oriental genus. Number of species: World – 5, Palaearctic and Russia – 2.
- Sinarachna nigricornis** (Holmgren, 1860) [Polysphincta] (*Polysphincta caudata* Thomson, 1888). Parasitoid of *Araneus diadematus* Clerck and *A. sturmi* Hahn (Araneidae). Russia: **EP** (N, NW), **WS** (KM), **ES** (ZB), **FE** (KU). – Europe (WE, NE, EE), China (NE).
- Sinarachna pallipes** (Holmgren, 1860) [Polysphincta] (*Polysphincta strigis* Howard, 1892). Parasitoid of spider families Araneidae, Theridiidae, etc. Russia: **EP** (N), **WS/ES** ("South Siberia": Kasparyan, Khalaim, 2007a), **FE** (PR, KU). – Europe (WE, NE, EE), Georgia, Mongolia, N America.
- TOWNESIA** Ozols, 1962. Type species: *Ephialtes tenuiventris* Holmgren, 1860. Holarctic and Oriental genus. Number of species: World – 4, Palaearctic – 2, Russia – 1.
- Townesia tenuiventris** (Holmgren, 1860) [Ephialtes] (*Ephialtes geniculatus* Brischke, 1865; *E. antefurcalis* Thomson, 1877). Parasitoid of various insects: Buprestidae and Cerambycidae (Coleoptera), Tortricidae (Lepidoptera), Tenthredinidae and Xiphydriidae (Hymenoptera), etc. Russia: **EP** (NW, NC), **WS** (NS), ? **FE** (KH). – Europe (WE, NE, SE, EE), ? Japan, N America.
- TROMATOBIA** Foerster, 1869. Type species: *Pimpla variabilis* Holmgren, 1856. Almost worldwide genus, the most species rich in the Holarctic and Neotropical regions. Parasitoids (predators) in spider egg-sacs. Number of species: World – about 30, Palaearctic – 11, Russia – 4.
- Tromatobia forsiusi** (Hellén, 1915) [Polysphincta]. Russia: **EP** (N), **FE** (KA). – Europe (WE, NE, EE).
- Tromatobia ornata** (Gravenhorst, 1829) [Pimpla] (*Polysphincta soror* Ratzeburg, 1848; *Tromatobia arachnicida* Foerster, 1888; *Pimpla concors* Kriechbaumer, 1890; *P. semivaria* Kriechbaumer, 1894; *P. tricolor* Kriechbaumer, 1894; *P. kriegbaumeri* Dalla Torre, 1901). Parasitoid of spider families Araneidae and Theridiidae. Russia: **EP** (E). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Israel, Iran, Pakistan, Central Asia, Kazakhstan, Korean Peninsula.
- Tromatobia ovivora** (Boheman, 1821) [Pimpla] (*Ichneumon armillatorius* Thunberg, 1822; *I. vexatorius* Thunberg, 1822; *Pimpla angens* Gravenhorst, 1829; *P. parallela* Thomson, 1877; *P. rufipleura* Bignell, 1889; *P. albipes* Brischke, 1891; *P. defensator* Davis, 1898; *P. brischkei*

- Dalla Torre, 1901; *P. simulans* Hensch, 1929). Parasitoid of spider families Araneidae, Theridiidae, Thomisidae, etc. Russia: **EP** (N, C), **WS** (TK), **ES** (IR, YA, ZB), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Central Asia, Kazakhstan, Mongolia, Korean Peninsula, Japan, N America.
- Tromatobia variabilis** (Holmgren, 1856) [Pimpla] (*Pimpla abdominalis* Brullé, 1846, nom. praeocc., nec Gravenhorst, 1829; *P. epeirae* Bignell, 1893; *P. hibernica* Morley, 1908; *P. ruficoxa* Kokujev, 1913; *P. inornata* Ulbricht, 1926; *Tromatobia sapporensis* Uchida, 1928). Parasitoid of various spiders. Russia: **EP** (without regions: Kasparyan, Khalaim, 2007a), **WS** (AL), **ES** (ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Egypt, Caucasus, Turkey, Afghanistan, Central Asia, Kazakhstan, Mongolia, Korean Peninsula, Japan, N America.
- ZABRACHYPUS** Cushman, 1920. Type species: *Zabrachypus primus* Cushman, 1920. Holarctic genus. Number of species: World and Palaearctic – 3, Russia – 1.
- Zabrachypus primus** Cushman, 1920 (*Zabrachypus gregori* Šedivý, 1961). Russia: **ES** (ZB), **FE** (PR). – Europe (WE, EE), Armenia, Iran, Mongolia, N America.
- ZAGLYPTUS** Foerster, 1869. Type species: *Polysphincta varipes* Gravenhorst, 1829. Worldwide genus. Parasitoids (predators) in spider egg-sacs. Number of species: World – 26, Palaearctic – 5, Russia – 4.
- Zaglyptus iwatai** (Uchida, 1936) [Polysphincta]. Parasitoid of *Clubiona japonicola* Bösenberg et Strand (Clubionidae). Russia: **FE** (SA, KU). – Japan.
- Zaglyptus multicolor** (Gravenhorst, 1829) [Polysphincta] (*Pimpla fairmairii* Laboulbène, 1858; *P. ephippium* Rudow, 1883; *Polysphincta moldavica* Constantineanu, 1929; *Zaglyptus rufus* Aubert, 1959). Parasitoid of spider families Araneidae, Clubionidae, Tetragnathidae and Theridiidae. Russia: **EP** (N, NC), **ES** (BR, ZB), **FE** (KH, PR). – Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NE, CC, SW).
- Zaglyptus semirufus marginatus** Kasparyan, 1981. Russia: **FE** (KH, PR, KU). – Japan.
- Zaglyptus varipes** (Gravenhorst, 1829) [Polysphincta] (*Schizopyga tricingulata* Gravenhorst, 1829; *Pimpla cingulata* Kriechbaumer, 1894; *Polysphincta rufithorax* Habermehl, 1917; *P. silbernageli* Kiss, 1926). Parasitoid of spiders from the families Araneidae, Clubionidae and Salticidae. Russia: **EP** (N, NW, C), **UR**, **WS** (TM), **ES** (BR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Afghanistan, Central Asia, Kazakhstan, China (NE), Japan, N America.
- ZATYPOTA** Foerster, 1869 (*Polysphinctopsis* Habermehl, 1917; *Lycorinopsis* Haupt, 1954). Type species: *Ichneumon percontatorius* Müller, 1776. Worldwide genus. Parasitoids of spiders. Number of species: World – about 52, Palaearctic – 19, Russia – 5.
- Zatypota albicoxa** (Walker, 1874) [Glypta] (*Pimpla colorata* Rudow, 1883; *Polysphincta eximia* Schmiedeknecht, 1907; *Polysphinctopsis nigriventris* Habermehl, 1917; *Polysphincta japonica* Uchida, 1927; *Polysphinctopsis nigrithorax* Uchida, 1936). Parasitoid of spiders from the families Agelenidae and Theridiidae. Russia: **EP** (N), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), China, Korean Peninsula, Japan, India, Indonesia.
- Zatypota anomala** (Holmgren, 1860) [Polysphincta] (*Zatypota meridionator* Aubert, 1960; *Sinarachna minor* Kolarov, 1982). Parasitoid of spider family Dictynidae. Russia: **EP** (C), **ES** (BR, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey, Israel, Korean Peninsula, N America.
- Zatypota bohemani** (Holmgren, 1860) [Polysphincta]. Parasitoid of *Neottiura bimaculata* L. and *Theridion mystaceum* Kokh (Theridiidae). Russia: **EP** (N, S). – Europe (WE, NE, SE, EE), Canary Is, Armenia, Turkey, Iran, Central Asia, Kazakhstan, N America.
- Zatypota gracilipes** Uchida et Momoi, 1958. Russia: **FE** (KU). – Korean Peninsula, Japan (Hok).
- Zatypota percontatoria** (Müller, 1776) [Ichneumon] (*Pimpla phoenicea* Haliday, 1838; *Polysphincta gracilis* Holmgren, 1860; *P. scutellaris* Holmgren, 1860; *P. pulchrator* Thomson, 1877; *Lycorinopsis rhombifer* Haupt, 1954). Parasitoid of spiders from the family Theridiidae. Russia: **EP** (N, C, NC), **ES** (BR, ZB), **FE** (AM, KH, PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Kazakhstan, Mongolia, Japan (Hok), N America.

Tribe PIMPLINI

- APECHTHIS** Foerster, 1869 (*Taiwatheronia* Sonan, 1936). Type species: *Ichneumon rufatus* Gmelin, 1790. Holarctic, Oriental and Neotropical genus. Parasitoids of pupae of various Lepidoptera. Number of species: World – 18, Palaearctic and Russia – 6.
- Apechthis capulifera** (Kriechbaumer, 1887) [Pimpla] (*Pimpla japonica* Dalla Torre, 1901; *Apechthis* (sic!) *orbitalis* Ashmead, 1906; *A. sapporoensis* Ashmead, 1906; *A. japonica* Morley, 1914; *Apechthis nigriorbitalis* Uchida, 1928). Parasitoid of many Lepidopteran families. Russia: **EP** (N, C, S), **WS** (NS), **ES** (KR, IR, BR), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, EE), Caucasus, Central Asia, China, Korean Peninsula, Japan.
- Apechthis compunctor** (Linnaeus, 1758) [Ichneumon] (*Ichneumon brassicae* Poda, 1761; *I. vigilans* Christ, 1791; *I. varicornis* Fabricius, 1793; *I. conjunctor* Panzer, 1804; *Pimpla lativentris* Rudow, 1881; *P. rufipes* Rudow, 1883). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, S, NC, CR), **UR**, **WS** (TK, KM, AL), **ES** (KR, IR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Central Asia, Kazakhstan.
- Apechthis orientalis** Kasparyan, 1973. Parasitoid of several species of Pieridae and Nymphalidae. Russia: **ES** (IR, YA,

- ZB), **FE** (AM, KH, PR, SA, KU, KA, MG). – Mongolia, China (NE), Korean Peninsula, ? Japan.
- Remarks.** *Apechthis orientalis* is considered to be a distinct species after Kasparyan and Khalaïm (2007a).
- Apechthis quadridentata** (Thomson, 1877) [Pimpla] (*Pimpla dendrolimi* Matsumura, 1926; *P. dendrolimusi* Matsumura, 1926). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, S, NC, CR), **UR**, **WS** (KM), **ES** (KR, IR, BR), **FE** (AM, KH, PR, SA, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, Mongolia, China (NE, CC), Korean Peninsula, Japan.
- Apechthis rapae** (Uchida, 1925) [Pimpla]. Parasitoid of *Ptycholomoides* sp. (Tortricidae) and *Pieris* spp. (Pieridae). ? Russia: **FE** (KA). – China (SW), Korean Peninsula, Japan.
- Apechthis rufata** (Gmelin, 1790) [Ichneumon] (*Pimpla flavonotata* Holmgren, 1860; *P. rufithorax* Strobl, 1902; *Apechthis geometriæ* Uchida, 1928). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, NC, CR), **WS** (TK, NS), **ES** (IR, ZB), **FE** (KH, PR, SA, KU, ? KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Kazakhstan, China, Korean Peninsula, Japan.
- ITOPLECTIS Foerster**, 1869 (*Nesopimpla* Ashmead, 1906; *Exeristesoides* Uchida, 1928). Type species: *Ichneumon scanicus* Villers, 1789. Almost worldwide genus, unknown only from Australia. Parasitoids of various insects, mainly Lepidoptera. Number of species: World – about 56, Palaearctic – about 19, Russia – 15.
- Itoplectis alternans alternans** (Gravenhorst, 1829) [Pimpla] (*Pimpla examinanda* Ratzeburg, 1852; *P. tricolor* Ratzeburg, 1852; *P. spiracularis* Morley, 1908). Parasitoid of various Lepidoptera and other insects. Russia: **EP** (N, NW, C, NC, CR), **UR**, **WS** (KM). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, ? Tajikistan, ? Mongolia.
- Itoplectis alternans epinotiae** Uchida, 1928 (*Pimpla spectabilis* Matsumura, 1926, nom. praecox., nec Szépligeti, 1908; *Itoplectis nigribasalis* Uchida, 1937). Parasitoid of various Lepidoptera and other insects. Russia: **FE** (AM, KH, PR, SA, KU). – Mongolia, China, Korean Peninsula, Japan.
- Itoplectis aterrima** Jussila, 1965 (*Itoplectis ultimator* Aubert, 1966). Parasitoid of several lepidopteran species. Russia: **EP** (N, NW, C), **UR**, **WS** (TK, NS, KM, AL), **ES** (IR, BR, YA, ZB), **FE** (KH, SA). – Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, Mongolia.
- Itoplectis clavicornis** (Thomson, 1889) [Pimpla]. Parasitoid of Lepidoptera; reared from cocoons of Braconidae and Ichneumonidae (Hymenoptera). Russia: **EP** (N), **ES** (KR, IR), **FE** (PR). – Europe (WE, NE, SE, EE), Turkey.
- Itoplectis cristatae** Iwata, 1961 (*Itoplectis cristatae* Momoi, 1961). Parasitoid of various Lepidoptera. Russia: **FE** (KH, PR). – China (NE, NC), Japan.
- Itoplectis curticauda** (Kriechbaumer, 1887) [Pimpla]. Parasitoid of several Lepidopteran species. Russia: **EP** (C), **UR**, **WS** (NS, KM), **ES** (KR, IR, YA, ZB), **FE** (KH, KA, MG). – Europe (WE, NE, SE, EE), N America.
- Itoplectis enslini** (Ulbricht, 1911) [Pimpla] (*Pimpla ignalinensis* Strand, 1918; *Itoplectis griseanae* Perkins, 1957). Parasitoid of *Lymantria dispar* L. (Erebidae) and *Zeiraphera griseana* Hbn. (Tortricidae). Russia: **EP** (C), **UR**. – Europe (WE, NE, SE, EE), Caucasus, Kyrgyzstan, Mongolia.
- Itoplectis insignis** Perkins, 1957 (*Itoplectis lapponicus* Hedqvist, 1972). Parasitoid of *Coleophora saturatella* Stain. (Coleophoridae), *Epinotia nanana* Tr. and *Zeiraphera griseana* Hbn. (Tortricidae). Russia: **EP** (N, C). – Europe (WE, NE, SE, EE).
- Itoplectis maculator** (Fabricius, 1775) [Ichneumon] (*Ichneumon scanicus* Villers, 1789; *I. lateratorius* Thunberg, 1822; *Pimpla vineta* Vollenhoven, 1873). Parasitoid of *Tortrix viridana* L. (Tortricidae) and other lepidopteran hosts. Russia: **EP** (NW, C, S, NC, CR), **WS** (TK, AL). – Europe (WE, NE, SE, EE), Canary Is, N Africa, Caucasus, Turkey, Iran, Mongolia.
- Itoplectis melanocephala** (Gravenhorst, 1829) [Pimpla] (*Pimpla ephippium* Brullé, 1846; *P. bicolor* Boie, 1855; *P. ragusae* de Stefani, 1885; *P. cleopatra* Schmiedeknecht, 1897; *P. burtoni* Morley, 1946). Parasitoid of various Lepidoptera. Russia: **EP** (C, S, NC). – Europe (WE, NE, SE, EE), Egypt, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NC).
- Itoplectis naranyae** (Ashmead, 1906) [Nesopimpla] (*Itoplectis immigrans* Timberlake, 1920; *Nesopimpla rufiventris* Sonan, 1939). Parasitoid of various Lepidoptera and other insects. Russia: **FE** (PR, SA, KU). – China, Korean Peninsula, Japan, ? Mexico.
- Itoplectis quadricingulata** (Provancher, 1880) [Pimpla] (*Pimpla kolthoffi* Aurivillius, 1890). Parasitoid of various Lepidoptera and other insects. Russia: **FE** (KA). – Europe (WE, NE, EE), Caucasus, N America.
- Itoplectis tabatai** (Uchida, 1930) [Pimpla]. Parasitoid of *Dendrolimus superans* Butler (Lepidoptera: Lasiocampidae). Russia: **FE** (KH, SA, KU).
- Itoplectis triannulata** Uchida, 1928. Parasitoid of *Ypsolopha amoenella* Chr. (Lepidoptera: Plutellidae). Russia: **FE** (PR, SA, KU). – Japan.
- Itoplectis tunetana** (Schmiedeknecht, 1914) [Pimpla] (*Itoplectis haemorrhoidalis* Habermehl, 1918; *I. europeator* Aubert, 1958; *I. alternoides* Aubert, 1959; *I. mediorufa* Aubert, 1959). Parasitoid of various Lepidoptera and other insects. Russia: **EP** (N, C, S, NC, CR), **WS** (AL). – Europe (WE, SE, EE), Canary Is, N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NC).
- Itoplectis viduata** (Gravenhorst, 1829) [Pimpla] (*Pimpla ovalis* Thomson, 1877; *P. meridionalis* Kriechbaumer, 1887). Parasitoid of various Lepidoptera and other insects. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (TK, NS, AL), **ES** (TU), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia, China (NE, NC), N America.

- PIMPLA** Fabricius, 1804 (*Coccygomimus* Saussure, 1892; *Lissotheronia* Cameron, 1905; *Pimplidea* Viereck, 1914; *Oxyimpla* Noskiewicz et Chudoba, 1951). Type species: *Ichneumon instigator* Fabricius, 1793 (= *Ichneumon rufipes* Miller, 1759). Worldwide genus. Parasitoids of Lepidopteran pupae; also recorded from the cocoons of Symphyta (Hymenoptera). Number of species: World – about 173, Palaearctic – about 50, Russia – 25.
- Pimpla aethiops** Curtis, 1828 (*Pimpla aterrima* Gravenhorst, 1829; *P. parnarae* Viereck, 1912). Parasitoid of various Lepidoptera and other insects. Russia: **EP** (NC), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Kazakhstan, China, Korean Peninsula, Japan.
- Pimpla alboannulata** Uchida, 1928. Parasitoid of *Carposina sasakii* Mats. (Carposinidae). Russia: **FE** (PR). – China, Korean Peninsula, Japan.
- Pimpla albociliata** Kasparyan, 1974. Russia: **FE** (PR). – China (NE).
- Pimpla aquilonia** Cresson, 1870. Parasitoid of various Lepidoptera. Russia: **EP** (NC), **UR**, **FE** (KH, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Japan, N America.
- Pimpla arcadica** Kasparyan, 1973. Parasitoid of *Cydia pomonella* L. and *Lobesia botrana* Den. et Schiff. (Tortricidae). Russia: **EP** (CR). – Europe (NE, EE), Turkey, Iran.
- Pimpla arctica** Zetterstedt, 1838 (*Pimpla heraclii* Boie, 1855; *P. coxator* Ruthe, 1859). Parasitoid of Geometridae, Lasio-campidae, Noctuidae, Tortricidae, etc. (Lepidoptera) and Cimbicidae (Hymenoptera). Russia: **EP** (N, NW, C, E, S), **UR**, **WS** (TM, OM, TK), **ES** (IR, BR, YA, ZB), **FE** (AM, KH, KA). – Europe (WE, NE, SE, EE), Pakistan, Kazakhstan, Mongolia, Japan, India.
- Pimpla artemonis** Kasparyan, 1973. Russia: **EP** (NC). – Europe (NE, SE, EE), Caucasus, Turkey.
- Pimpla caucasica** Kasparyan, 1974. Russia: **EP** (NC). – Turkey.
- Pimpla contemplator** (Müller, 1776) [Ichneumon] (*Pimpla rufistigma* Morley, 1908; *P. rufitibia* Morley, 1908; *P. melanaria* Uchida, 1928). Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, C, S, NC, CR). – Europe (WE, NE, SE, EE), Canary Is, Egypt, Caucasus, Turkey, Iran, Central Asia, Mongolia, ? Japan.
- Pimpla disparis** Viereck, 1911 (*Pimpla porthetriae* Viereck, 1911). Parasitoid of various Lepidoptera. Russia: **ES** (IR, BR, ZB), **FE** (AM, KH, PR, SA). – Mongolia, China, Korean Peninsula, Japan, N America (introduced), India.
- Pimpla femorella** Kasparyan, 1974. Russia: **ES** (IR, BR, ZB), **FE** (KH, PR, SA, KU, KA). – China (NE).
- Pimpla flavicoxis** Thomson, 1877. Parasitoid of various Lepidoptera. Russia: **EP** (N, NW, E, S, NC, CR), **UR**, **WS** (KM), **ES** (IR). – Europe (WE, NE, SE, EE), Caucasus, Iran.
- Pimpla illecebrator** (Villers, 1789) [Ichneumon] (*Pimpla caligata* Vollenhoven, 1877; *P. meridionalis* Seyrig, 1927). Parasitoid of various Lepidoptera. Russia: **EP** (NW, C, NC), **WS** (OM, ? AL). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Central Asia, Kazakhstan, China, Japan.
- Pimpla inopinata** Kasparyan, 1974. Russia: **ES** (BR, ZB). – Mongolia, ? China.
- Pimpla insignatoria** (Gravenhorst, 1807) [Cryptus] (*Pimpla mixta* Ratzeburg, 1848; *P. coxalis* Habermehl, 1917; *P. scutellaris* Habermehl, 1917; *P. conmixta* Kiss, 1929). Parasitoid of various Lepidoptera. Russia: **EP** (N, C, S, NC, CR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran.
- Pimpla kaszabi** (Momoi, 1973) [Coccygomimus] (*Pimpla confinis* Kasparyan, 1974). Russia: **ES** (IR, BR, YA, ZB), **FE** (AM, PR). – Iran, Mongolia, China (NE, NC).
- Pimpla luctuosa** Smith, 1874 (*Coccygomimus madecassus* Saussure, 1892; *Pimpla maculiscaposa* Seyrig, 1932). Parasitoid of various Lepidoptera. Russia: **FE** (PR, SA, KU). – China, Korean Peninsula, Japan.
- Pimpla melanacrias** Perkins, 1941 (*Pimpla geniculata* Hensch, 1929, nom. praeocc., nec Geoffroy, 1785). Parasitoid of several Tortricidae species (Lepidoptera). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (NS, KM, AL), **ES** (KR, IR, BR, YA, ZB), **FE** (AM, KH, PR, KA, MG). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Central Asia, Kazakhstan, Mongolia.
- Pimpla murinanae** Fahringer, 1943 (*Coccygomimus nigricoxus* Oehlke, 1967). Parasitoid of *Choristoneura murinana* Hbn. (Tortricidae). Russia: **EP** (C). – Kazakhstan, Mongolia.
- Pimpla nipponica** Uchida, 1928. Parasitoid of various Lepidoptera and other insects. Russia: **FE** (KH, PR, SA, KU). – China, Korean Peninsula, Japan, India, Vietnam.
- Pimpla pluto** Ashmead, 1906. Parasitoid of various Lepidoptera. Russia: **WS** (NS, AL), **ES** (IR), **FE** (AM, KH, PR, SA, KU). – Kazakhstan, China, Korean Peninsula, Japan.
- Pimpla rufipes** (Miller, 1759) [Ichneumon] (*Ichneumon hypochondriacus* Retzius, 1783; *I. compunctor* Geoffroy, 1785; *I. instigator* Fabricius, 1793; *Pimpla intermedia* Holmgren, 1860; *P. aegyptiaca* Schmiedeknecht, 1897; *P. scutellaris* Ulbricht, 1909; *Apechthis flavipes* Matsumura, 1912; *Pimpla sibirica* Meyer, 1926; *P. ruficoxa* Gregor, 1928). Parasitoid of various Lepidoptera, also recorded from other insects. Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (AL), **ES** (IR, BR, YA, ZB), **FE** (AM, KH, PR, SA). – Europe (WE, NE, SE, EE), Canary Is, N Africa, Caucasus, Turkey, Iran, Afghanistan, Central Asia, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, N America (introduced).
- Pimpla sodalis** Ruthe, 1859 (*Pimpla cheloniae* Giraud, 1869; *P. nordenskiöldii* Holmgren, 1872; *P. longiceps* Thomson, 1877). Parasitoid of Lepidopteran families Arctiidae, Geometridae, Noctuidae, etc. Russia: **EP** (N), **ES** (YA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Afghanistan, Central Asia, Kazakhstan, Mongolia, N America.
- Pimpla spuria** Gravenhorst, 1829 (*Pimpla bilineata* Brullé, 1846; *P. strigipleuris* Thomson, 1877; *P. dubitata* Perez,

1895; *P. nilotica* Schmiedeknecht, 1914; *P. turionelloides* Aubert, 1959). Parasitoid of various Lepidoptera. Russia: **EP** (N, C, E, S, NC, CR), **WS** (OM, AL). – Europe (WE, NE, SE, EE), Canary Is, N Africa, Caucasus, Turkey, Israel, Iran, Afghanistan, Central Asia, Kazakhstan, Mongolia, ? China (SE), ? Japan.

Pimpla turionellae (Linnaeus, 1758) [Ichneumon] (*Cryptus examinitor* Fabricius, 1804; *Ichneumon cingulator* Thunberg, 1822; *Pimpla pubescens* Hellén, 1915; *P. padellae* Torka, 1918; *P. rufoannulus* Schmiedeknecht, 1934; *P. freyi* Hellén, 1949). Parasitoid of lepidopteran families Choreutidae, Erebidae, Geometridae, Tortricidae, Yponomeutidae, etc. Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (TM, OM, TK), **ES** (KS, TU, KR, IR, BR), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel, Iran, Afghanistan, Central Asia, Kazakhstan, Mongolia, China (NE, CC, SW), Korean Peninsula, Japan, N America (introduced), India.

STRONGYLOPSIS Brauns, 1896. Type species: *Strongylopsis anomala* Brauns, 1896. Palearctic genus. Number of species: World and Palearctic – 7, Russia – 3.

Strongylopsis abdominalis Kasparyan, 1974. Russia: **EP** (NC). – Europe (EE).

Strongylopsis anomala Brauns, 1896. Russia: **EP** (E, S), **UR**. – Europe (SE, EE), Mongolia.

Strongylopsis belua Kuzin, 1950. Russia: **EP** (C, S, NC), **ES** (TU, KR, BR). – Europe (EE), Caucasus, Turkey, Iran, Central Asia, Kazakhstan, Mongolia.

Tribe THERONIINI

THERONIA Holmgren, 1859 (*Pseudacoenites* Kriechbaumer, 1892; *Poecilopimpla* Cameron, 1903; *Erythrotheronia* Cameron, 1905; *Orientotheronia* Morley, 1913). Type species: *Ichneumon flavicans* Fabricius, 1793 (= *Ichneumon atalantae* Poda, 1761). Predominantly tropical genus. Hyperparasitoids in pupae of various Lepidoptera and other insects. Number of species: World – 42, Palearctic – about 5, Russia – 2.

Theronia atalantae atalantae (Poda, 1761) [Ichneumon] (*Ichneumon acuminator* Müller, 1776; *I. melanops* Schrank, 1781; *I. nigroculus* Schrank, 1781; *I. quadripunctatus* Schrank, 1781; *I. vinctus* Schrank, 1781; *I. scutellatus* Geoffroy, 1785; *I. sulcatus* Razoumowsky, 1789; *I. crassipes* Rossi, 1790; *I. superbus* Christ, 1791; *I. vulpes* Christ, 1791; *I. flavicans* Fabricius, 1793; *I. varius* Fabricius, 1793; *Cryptus variatorius* Fabricius, 1804). Parasitoid of Noctuidae and other Lepidopteran families via Braconidae, Ichneumonidae (Hymenoptera) and Tachinidae (Diptera). Russia: **EP** (NW, S, NC). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Turkmenistan, N America.

Theronia atalantae gestator (Thunberg, 1822) [Ichneumon] (*Theronia japonica* Ashmead, 1906). Parasitoid

of various Lepidopteran families. Russia: **WS** (NS), **FE** (KH). – China, Korean Peninsula, Japan, India.

Theronia laevigata laevigata (Tschek, 1869) [Pimpla] (*Pseudacoenites moravicus* Kriechbaumer, 1892). Russia: **EP** (NW, NC), **ES** (IR), **FE** (AM). – Europe (WE, NE, SE, EE).

Theronia laevigata nigra Uchida, 1928. Parasitoid of Lasio-campidae and Papilionidae (Lepidoptera). Russia: **FE** (KH, PR). – China (NE), Korean Peninsula, Japan.

Subfamily POEMENIINAE

A.I. KHALAIM

Historically, poemeniines were treated as a tribe within the subfamily Pimplinae s. l., but subsequently were placed in a separate subfamily. The genus *Pseudorhyssa* Merrill, 1915, previously treated within the Poemeniinae (Wahl, Gauld, 1998), is listed here in the subfamily Pimplinae (Bennett et al., 2019; Klopstein et al., 2019a).

The Poemeniinae is subdivided into two tribes, the Poemenini and the Rodrigamini. The former tribe occurs in Russia, and the latter tribe comprises a single genus, *Rodrigama* Gauld, 1991, which was described from Central America and recently recorded from the Eastern Palearctic (Broad, Kuslitzky, 2019) and Israel (Matsumoto, Broad, 2011), but is unknown from Russia.

Species of the subfamily are idiobiont parasitoids of xylophagous Coleoptera and Hymenoptera (Symphyta).

Number of taxa: World – 10 genera and 93 species, Palearctic – 8/35, Russia – 6/15.

References. Oehlke, 1966b; Kasparyan, 1976a; Kusigemati, 1984a; Kasparyan, Khalaim, 2007a; Matsumoto, Broad, 2011; Varga, 2015a; Sun et al., 2017; Watanabe, 2017c; Boparai et al., 2019; Broad, Kuslitzky, 2019.

Tribe POEMENIINI

CNASTIS Townes, 1957. Type species: *Neoxorides longicaudis* Baltazar, 1955. Palearctic and Oriental genus. Number of species: World – 8, Palearctic – 5, Russia – 1.

Cnastis tinctor Kasparyan et Khalaim, 2007. Russia: **FE** (KH).

DEUTEROXORIDES Viereck, 1914. Type species: *Xorides albitarsus* Gravenhorst, 1829. Palearctic and Oriental genus. Number of species: World – 5, Palearctic – 3, Russia – 2.

Deuteroxorides elevator (Panzer, 1799) [Ichneumon]. Parasitoid of coleopterans (mainly Cerambycidae) and *Synanthedon formicaeformis* Esper (Lepidoptera: Sesiidae). Russia: **EP** (N). – Europe (WE, NE, SE, EE), Azerbaijan.

Deuteroxorides orientalis (Uchida, 1928) [Xorides] (*Deuteroxorides atratus* Kasparyan, 1976). Parasitoid of

Agrilus spp. (Buprestidae) and *Pissodes nitidus* Roelofs (Curculionidae). Russia: **FE** (KH, PR, KU). – China (NE), Korean Peninsula, Japan.

EUGALTA Cameron, 1899. Type species: *Eugalta strigosa* Cameron, 1899. Predominantly Oriental genus with several species in the Palaearctic and Australasian regions. Number of species: World – 33, Palaearctic – 5, Russia – 2.

Eugalta albimarginalis (Uchida, 1928) [Xorides] (*Xorides albifacies* Meyer, 1930). Russia: **FE** (KH, PR). – Japan (Hok, Shi).

Eugalta propodeator Kasparyan et Khalaim, 2007. Russia: **FE** (PR).

NEOXORIDES Clément, 1938. Type species: *Xorides nitens* Gravenhorst, 1829. Holarctic genus. Number of species: World – 10, Palaearctic – 7, Russia – 4.

Neoxorides collaris (Gravenhorst, 1829) [Xorides] (*Xorides harpii* Fahringer, 1935; *Neoxorides picicoxis* Clément, 1938). Parasitoid of various Cerambycidae (Coleoptera). Russia: **EP** (N, NW, C, E), **WS** (OM), **FE** (SA). – Europe (WE, NE, SE, EE), China (NE, WP), Japan.

Neoxorides montanus Oehlke, 1966. Russia: **EP** (N, NW). – Europe (WE, NE, EE).

Neoxorides nitens (Gravenhorst, 1829) [Xorides] (*Xorides opacus* Kokujev, 1903; *X. kissi* Ulbricht, 1911; *Neoxorides albicollis* Clément, 1938). Parasitoid of various species of Cerambycidae, *Gasterocercus depressirostris* F. (Curculionidae) and *Xiphydria longicollis* Geoffr. (Hymenoptera: Xiphydriidae). Russia: **EP** (C, S), **ES** (IR). – Europe (WE, NE, SE, EE), Turkey.

Neoxorides varipes niger Kasparyan, 1976. Parasitoid of Cerambycidae (Coleoptera). Russia: **ES** (TU), **FE** (PR). – China (NE), Japan (Hok).

Neoxorides varipes varipes (Holmgren, 1860) [Xorides]. Russia: **EP** (N, C). – Europe (WE, NE, EE).

PODOSCHISTUS Townes, 1957. Type species: *Xorides vittifrons* Cresson, 1868. Holarctic and Oriental genus. Number of species: World – 6, Palaearctic – 5, Russia – 3.

Podoschistus alpenis (Uchida, 1928) [Xorides]. Parasitoid of *Eutetrappa sedecimpunctata* Motsch., *Mesosa myops* Dalm. and *Phymatodes maaki* Kr. (Cerambycidae). Russia: **FE** (PR). – China (NE, NC), Japan.

Podoschistus caudatus Kasparyan, 1976. Russia: **FE** (KU).

Podoschistus scutellaris (Desvignes, 1856) [Xorides] (*Xorides wahlbergi* Holmgren, 1860; *X. erosus* Tschek, 1869). Parasitoid of *Lamprodila mirifica* Muls. (Buprestidae), *Pissodes* sp. (Curculionidae), *Saperda carcharias* L. and *Tetropium castaneum* L. (Cerambycidae). ? Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), India.

POEMENIA Holmgren, 1859. Type species: *Poemenia notata* Holmgren, 1859. Predominantly Holarctic genus

with several species in the Oriental region. Number of species: World – 15, Palaearctic – 7, Russia – 3.

Poemenia brachyura Holmgren, 1860 (*Calliclisis patria* Shestakov, 1927; *Poemenia hokkaidensis* Kusigemati, 1984). Russia: **EP** (C, S, NC), **FE** (PR). – Europe (WE, NE, EE), Kazakhstan, Mongolia, Japan.

Poemenia hectica (Gravenhorst, 1829) [Ephialtes] (*Ophiodes montanus* Hartig, 1847; *Poemenia tipularia* Holmgren, 1860). Parasitoid of *Passaloecus monilicornis* Dhlb. (Hymenoptera: Crabronidae), *Xeris spectrum* L. (Hymenoptera: Siricidae), *Tortrix viridana* L. (Lepidoptera: Tortricidae) and *Xylariopsis mimica* Bates (Coleoptera: Cerambycidae). Russia: **EP** (N, NW, C, E), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, China (NE, NC/NW), Japan.

Poemenia notata Holmgren, 1859 (*Poemenia novakii* Strobl, 1902; *Lissonotopsis rufa* Habermehl, 1918; *Xorides rufus* Habermehl, 1918). Parasitoid of Buprestidae and Cerambycidae species (Coleoptera), *Rhyacionia* spp. (Lepidoptera: Tortricidae), *Passaloecus* spp. and *Trypoxylon* sp. (Hymenoptera: Crabronidae), species of Cynipidae (Hymenoptera). Russia: **EP** (N, E, NC). – Europe (WE, NE, SE, EE), N Africa, Israel.

Subfamily RHYSSINAE

A.I. KHALAIM

Worldwide subfamily. Historically, rhyssines were treated as a tribe within the Pimplinae, but subsequently were raised to subfamily level. Rhyssines, especially species of the genus *Megarhyssa*, are the largest and most spectacular insects among the family Ichneumonidae and can easily be recognized by the mesoscutum with transverse rugae and the last visible metasomal tergite of the female with an apically truncate cornus. Females of Rhyssinae possess very long and flexible ovipositors whose length often exceeds the body length.

Parasitoids of larvae of xylophagous insects; recorded from the families Siricidae, Xiphydriidae (Hymenoptera: Symphyta) and Cerambycidae (Coleoptera).

Number of taxa: World – 8 genera and 259 species, Palaearctic – 5/41, Russia – 5/19.

References. Horstmann, 1998; Kasparyan, Khalaim, 2007a; Kim et al., 2018b; Pham et al., 2018a.

EPIRHYSSA Cresson, 1865 (*Rhyssonota* Kriechbaumer, 1890; *Hierax* Tosquinet, 1903; *Sychnostigma* Baltazar, 1961). Type species: *Epirhyssa speciosa* Cresson, 1865. Worldwide, almost exclusively tropical genus. Number of species: World – 128, Palaearctic – 11, Russia – 4.

Epirhyssa atrata Kasparyan, 2007. Russia: **FE** (PR).

Epirhyssa japonica Cameron, 1886 (*Epirhyssa chichibensis* Uchida, 1928; *E. rossica* Meyer, 1930). Russia: **FE** (PR, SA, KU). – Japan (Hok, Hon).

- Epirhyssa kurilensis** Kasparyan, 2007. Russia: **FE** (KU).
Epirhyssa sapporensis Uchida, 1928. Russia: **FE** (PR). – China (NC), Korean Peninsula, Japan.
- MEGARHYSSA** Ashmead, 1900 (*Thalessa* Holmgren, 1859, nom. praeocc., nec Adams, 1853; *Eurhyssa* Derksen, 1941). Type species: *Ichneumon clauatus* Fabricius, 1798. Number of species: World – 37, Palaearctic – 12, Russia – 7.
- Megarhyssa gloriosa** (Matsumura, 1912) [Thalessa]. Parasitoid of *Anoplophora glabripennis* Motsch., *Monochamus grandis* Waterh. (Coleoptera: Cerambycidae) and *Tremex fuscicornis* F. (Hymenoptera: Siricidae). Russia: **FE** (SA, KU). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan.
- Megarhyssa jezoensis** (Matsumura, 1912) [Thalessa] (*Rhyssa otanegawana* Matsumura, 1912; *Thalessa maruyamana* Uchida, 1928). Parasitoid of *Anoplophora glabripennis* Motsch. (Coleoptera: Cerambycidae), *Tremex fuscicornis* F. and *T. longicollis* Konow (Hymenoptera: Siricidae). Russia: **ES** (IR), **FE** (KH, PR). – China (NE, NC, CC), Korean Peninsula, Japan.
- Megarhyssa perlata** (Christ, 1791) [Ichneumon] (*Ichneumon gigas* Laxmann, 1770, nom. praeocc., nec Linnaeus, 1758; *I. histrio* Christ, 1791; *I. clavatus* Fabricius, 1798; *Rhyssa insignis* Jaroschewsky, 1890). Parasitoid of *Cerambyx cerdo* L., *Tremex* spp., *Urocetus gigas* L. (Hymenoptera: Siricidae) and *Xiphydria camelus* L. (Hymenoptera: Xiphydriidae). Russia: **EP** (without regions: Kasparyan, Khalaim, 2007a), **WS** (NS, AL), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, China (NE, CC).
- Megarhyssa praecellens** (Tosquinet, 1889) [Thalessa] (*Megarhyssa japonica* Ashmead, 1906; *Thalessa gigantea* Matsumura, 1912; *Th. superbiens* Morley, 1913; *Th. coreana* Uchida, 1928; *Rhyssa maculipennis* Meyer, 1934). Parasitoid of *Anoplophora glabripennis* Motsch., *Neocerambyx raddei* Blesig et Solsky (Coleoptera: Cerambycidae), *Sirex nitobei* Mats., *Tremex fuscicornis* F. and *Urocetus japonicus* Smith (Hymenoptera: Siricidae). Russia: **FE** (KH, PR). – China (NE, NC, CC, SW, SE), Korean Peninsula, Japan, SE Asia.
- Megarhyssa rixator** (Schellenberg, 1802) [Ichneumon] (*Ichneumon emarginatorius* Thunberg, 1822; *Rhyssa leucographa* Gravenhorst, 1829; *Thalessa emarginata* Holmgren, 1860; *Th. austriaca* Tschek, 1869; *Th. flavonotata* Kriechbaumer, 1896; *Rhyssa paucimaculata* Fahringer, 1950). Parasitoid of *Sirex* spp., *Urocetus* spp. and *Xerix* sp. (Hymenoptera: Siricidae). Russia: **EP** (N, NW, C), **ES** (ZB). – Europe (WE, NE, EE), Japan (Hok).
- Megarhyssa superba** (Schränk, 1781) [Ichneumon] (*Ichneumon maculatus* Christ, 1791; *Banchus quadrator* Schellenberg, 1802; *Ichneumon geminatorius* Panzer, 1804). Parasitoid of *Tremex* spp., *Urocetus gigas* L. (Hymenoptera: Siricidae) and *Xiphydria camelus* L. (Hymenoptera: Xiphydriidae). Russia: **EP** (N, NW, S), **UR**, **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Iran, China (NE, NC), Japan (Hok).
- Megarhyssa vagatoria** (Fabricius, 1793) [Ichneumon] (*Thalessa nigricans* Bischoff, 1925). Parasitoid of *Tremex fuscicornis* F. and *T. magus* F. (Hymenoptera: Siricidae). Russia: **EP** (N, NC), **WS** (OM, AL), **ES** (YA), **FE** (PR). – Europe (WE, SE, EE), Caucasus.
- RHYSSA** Gravenhorst, 1829 (*Cryptocentrum* Kirby, 1837; *Pararhyssa* Walsh, 1873). Type species: *Ichneumon persuasorius* Linnaeus, 1758. Predominantly Holarctic and Oriental genus. Number of species: World – 16, Palaearctic – 7, Russia – 3.
- Rhyssa amoena** Gravenhorst, 1829 (*Rhyssa jozana* Matsumura, 1912). Parasitoid of *Sirex* spp., *Urocetus* spp. (Hymenoptera: Siricidae) and species of Cerambycidae (Coleoptera). Russia: **EP** (N, NW, C), **ES** (IR, ZB), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), Iran, China (NE, NC, NW), Korean Peninsula, Japan, Australia (introduced).
- Rhyssa kriebbaumeri** Ozols, 1973 (*Rhyssa lineolata* Kriechbaumer, 1887, nom. praeocc., nec Kirby, 1837). Russia: **FE** (MG). – Europe (WE, EE).
- Rhyssa persuasoria** (Linnaeus, 1758) [Ichneumon] (*Ichneumon matutinus* Christ, 1791; *Rhyssa marginalis* Brullé, 1846). Parasitoid of *Sirex* spp., *Urocetus* spp., *Xerix* sp. (Hymenoptera: Siricidae) and species of Cerambycidae (Coleoptera). Russia: **EP** (N, NW, C, S, NC), **UR**, **WS** (NS), **ES** (IR), **FE** (SA, KU, KA). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Mongolia, China (NE, NC, NW, SW, WP), Korean Peninsula, Japan, N America, Nepal, India, Australia (introduced), New Zealand (introduced).
- Remarks.** Taxonomic status of the subspecies *Rhyssa persuasoria nigrofacialis* Meyer, 1922 from Astrakhan Prov. of Russia is unclear, and it is not included to the catalogue.
- RHYSELLA** Rohwer, 1920. Type species: *Rhyssa nitida* Cresson, 1864. Predominantly Holarctic genus. Number of species: World – 10, Palaearctic – 6, Russia – 3.
- Rhyssella approximator** (Fabricius, 1793) [Ichneumon] (*Rhyssa curvipes* Gravenhorst, 1829; *Rh. bellator* Schiödte, 1839; *Rh. silbernageli* Kiss, 1926). Parasitoid of *Sirex* spp. (Hymenoptera: Siricidae), *Xiphydria* spp. (Hymenoptera: Xiphydriidae) and various species of Cerambycidae (Coleoptera). Russia: **EP** (N, C, S, NC), **UR**, **WS** (TK, AL), **ES** (IR, ZB), **FE** (AM, KH, SA, KA). – Europe (WE, NE, SE, EE), Mongolia, China (NE, NC, NW, CC), Korean Peninsula, Japan.
- Rhyssella furanna** (Matsumura, 1912) [Rhyssa] (*Rhyssa dubiosus* Matsumura, 1912). Russia: **FE** (KU). – China (NC), Korean Peninsula, Japan.
- Rhyssella oblitterata** (Gravenhorst, 1829) [Rhyssa] (*Megarhyssa areolata* Mocsáry, 1905; *Calliclisis hungarica*

Kiss, 1924; *Thalessa parvula* Meyer, 1924). Parasitoid of *Xiphydria* spp. (Hymenoptera: Xiphydriidae). Russia: **EP** (NC), **FE** (PR). – Europe (WE, NE, SE, EE), Caucasus.

TRIANCYRA Baltazar, 1961. Type species: *Triancyra scabra* Baltazar, 1961. Predominantly Oriental genus. Number of species: World – 38, Palaearctic – 5, Russia – 2.

Triancyra galloisi (Uchida, 1928) [Epirhyssa]. Parasitoid of *Moechotypa diphysis* Pascoe and *Rhodopina lewisii* Bates (Coleoptera: Cerambycidae). Russia: **FE** (PR). – China (NE), Korean Peninsula, Japan.

Triancyra macula Kasparyan, 2007. Russia: **FE** (PR) – Japan (Hon).

Subfamily SISYROSTOLINAE (BRACHYSCLEROMATINAE)

A.I. KHALAIM

Small, almost exclusively tropical subfamily. Several former Phrudinae genera (e. g. *Notophrudus* Porter, 1993, *Peucobius* Townes, 1971) may also belong to Sisyröstolinae (Bennett et al., 2013), thus the taxonomic composition of the subfamily requires further study.

Number of taxa: World – 6 genera and 49 species, Palaearctic and Russia – 1/2.

References. Kasparyan, 1983a; Chiu, Wong, 1987; Kasparyan, Khalaim, 2007j; Bennett et al., 2013.

LYGURUS Kasparyan, 1983. Type species: *Lygurus townesi* Kasparyan, 1983. East Palaearctic genus. Number of species: World, Palaearctic and Russia – 2.

Lygurus marjoriae Chiu, 1987. Russia: **FE** (PR). – China (SE).

Lygurus townesi Kasparyan, 1983. Russia: **FE** (KH). – China (NE).

Subfamily STILBOPINAE

A.I. KHALAIM

Small subfamily with three genera: one monotypic Neotropical, one small Palaearctic and one moderately large Holarctic and Oriental. Parasitoids of larvae of primitive Lepidoptera of the families Adelidae, Incurvariidae and Prodoxidae.

Number of taxa: World – 3 genera and 30 species, Palaearctic – 2/24, Russia – 2/16.

References. Kasparyan, 1984, 1999b, 2007b; Watanabe, Maeto, 2012.

PANTELES Foerster, 1869. Type species: *Brachypimpla schützeanae* Roman, 1925. Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.

Panteles areolaris Kasparyan, 1999. Russia: **FE** (KU).

STILBOPS Foerster, 1869 (*Aphanoroptrum* Foerster, 1869; *Eritrachynus* Schmiedeknecht, 1913). Type species:

Pimpla vetula Gravenhorst, 1829. Predominantly Palaearctic genus with several species in the Oriental region and two in North America; the genus is most species rich in the East Palaearctic region. Number of species: World – 27, Palaearctic – 22, Russia – 15.

Stilbops belokobylskii Kasparyan et Kuslitzky, 1999. Russia: **FE** (PR).

Stilbops cavigena Kasparyan, 1984. Russia: **FE** (KH, PR). – Japan (Hok, Hon).

Stilbops femoralis Kasparyan, 1999. Russia: **FE** (KU).

Stilbops fuscipennis Kasparyan, 1984. Russia: **FE** (KH, PR).

Stilbops kunashiricus Kasparyan, 1999. Russia: **FE** (KU). – Japan (Hok, Hon, Shi, Kyu).

Stilbops kuslitzkii Kasparyan, 1984. Russia: **FE** (PR).

Stilbops limneriaeformis (Schmiedeknecht, 1888) [Pimpla]. Parasitoid of *Nematopogon schwarziellus* Z. (Adelidae). Russia: **EP** (N), **ES** (BR), **FE** (KH, KA). – Europe (WE, NE, SE, EE).

Stilbops mandibularis Kasparyan, 1999. Russia: **FE** (PR). – Japan (Hon).

Stilbops orientalis Kasparyan, 1984. Russia: **FE** (PR, KU). – Japan (Hok, Hon).

Stilbops plementaschi Hensch, 1930. Russia: **EP** (C). – Europe (WE, SE, EE).

Stilbops pronotalis Kasparyan, 1984. Russia: **FE** (KH, PR).

Stilbops quercicola Kasparyan, 1999. Russia: **EP** (CR). – Europe (EE).

Stilbops robustus Kasparyan, 1984. Russia: **FE** (KH, PR). – Europe (WE, EE).

Stilbops ruficornis (Gravenhorst, 1829) [Lissonota] (*Pimpla abdominalis* Gravenhorst, 1829; *P. nematorum* Rudow, 1881; *Polyblastus longiceps* Strobl, 1903). Parasitoid of *Nemophora metallica* Poda (Adelidae). Russia: **EP** (N, C, NC), **UR**. – Europe (WE, NE, SE, EE), Turkey.

Stilbops vetulus (Gravenhorst, 1829) [Pimpla] (*Lissonota pallipes* Gravenhorst, 1829; *Phytodietus chrysostomus* Gravenhorst, 1829; *Pimpla varicauda* Capron, 1888). Parasitoid *Adela reaumurella* L. (Adelidae). Russia: **EP** (S, NC). – Europe (WE, NE, SE, EE), Azerbaijan, Iran.

Subfamily TERSILOCHINAE

A.I. KHALAIM

Moderately large cosmopolitan subfamily. Five “microphrudine” genera (*Astrenis* Foerster, 1869; *Earobia* Townes et Townes, 1951; *Phaestacoenitus* Smits van Burgst, 1913; *Phrudus* Foerster, 1869; *Pygmaeolus* Hellén, 1958) are treated here in this subfamily (Tersilochinae s. l.), and the subfamily Phrudinae is considered a synonym of Tersilochinae.

Tersilochinae are koinobiont endoparasitoids of larvae of various Coleoptera, except for the genus *Gelanes* Horstmann, 1981 parasitizing xyelid sawflies (Hymenoptera: Xyelidae) and several records of other tersilochine species from

leaf-mining lepidopteran hosts (Lepidoptera) and tenthredinid sawflies (Hymenoptera: Tenthredinidae).

The Tersilochinae fauna of Russia is generally well-studied but two subgenera, *Euporizon* Horstmann (genus *Probles* Foerster, 1869) and *Tersilochus* s. str. (genus *Tersilochus* Holmgren, 1859), and especially their Eastern Palaearctic faunas, still require further study.

Number of taxa: World – 32 genera and 590 species, Palaearctic – 19/301, Russia – 15/171.

References. Horstmann, 1971, 1981b; Chiu, Wong, 1987; Notton, Shaw, 1998; Vikberg, Koponen, 2000; Khalaim, 2002a, 2002b, 2003, 2004a, 2004b, 2005, 2007, 2011, 2012, 2014, 2015, 2016, 2017a, 2017b, 2018; Kasparyan, Khalaim, 2007j; Khalaim et al., 2009, 2017; Khalaim, Blank, 2011; Khalaim, Yurtcan, 2011; Khalaim, Sheng, 2015; Kolarov, 2017; Kasparyan, Kuslitzky, 2018b; Khalaim, Tereshkin, 2018a, 2018b, 2019a, 2019b; Khalaim, Várkonyi, 2018; Vas, 2019c.

ALLOPHROIDES Horstmann, 1971. **Type species:** *Porizon boops* Gravenhorst, 1829. Holarctic genus. Number of species: World – 13, Palaearctic – 7, Russia – 4.

Allophroides acutatus Khalaim, 2007. Russia: **FE** (SA).

Allophroides boops (Gravenhorst, 1829) [*Porizon*] (*Porizon italicus* Gravenhorst, 1829; *Allophrys breviventris* Hellén, 1958). Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), ? Turkey.

Allophroides platyurus (Strobl, 1904) [*Tersilochus*]. Russia: **EP** (without regions: Khalaim, 2007), **FE** (PR). – Europe (WE, NE, EE).

Allophroides rufobasalis Horstmann et Kolarov, 1988. Russia: **ES** (BR), **FE** (KH). – Europe (EE), Kazakhstan, Mongolia.

ANEUCLIS Foerster, 1869 (*Sathropterus* Foerster, 1869). **Type species:** *Isurgus rufipes* Szépligeti, 1899 (= *Tersilochus maritimus* Thomson, 1889). Number of species: World – 34, Palaearctic – 19, Russia – 14.

Aneucelis aciculifera Khalaim, 2004. Russia: **ES** (ZB).

Aneucelis anterior Horstmann, 1971. Russia: **EP** (C). – Europe (WE, SE, EE), Turkey, Kazakhstan.

Aneucelis atra Khalaim, 2004. Russia: **EP** (CR). – Europe (EE), Georgia.

Aneucelis brevicauda (Thomson, 1889) [*Tersilochus*]. Parasitoid of *Phyllotreta nemorum* L. (Chrysomelidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Israel, Turkmenistan, Kazakhstan.

Aneucelis denticauda (Khalaim, 2005) [*Diaparsis*]. Russia: **FE** (PR).

Aneucelis horstmanni Khalaim, 2004. Russia: **ES** (ZB). – Kazakhstan, Mongolia.

Aneucelis incidens (Thomson, 1889) [*Tersilochus*]. Parasitoid of *Meligethes* spp. (Nitidulidae). Russia: **EP** (NW, S, NC, CR), **UR**, **ES** (TU, BR, ZB), **FE** (PR). – Europe (WE, ? NE, SE, EE), Madeira Is, Caucasus, Turkey, Israel, Iran, Central Asia, Kazakhstan, Mongolia.

Aneucelis luteola Khalaim, 2004. Russia: **FE** (KH, PR).

Aneucelis maritima (Thomson, 1889) [*Tersilochus*] (*Isurgus rufipes* Szépligeti, 1899). Russia: **EP** (NW, C, S, NC, CR), **ES** (BR). – Europe (WE, SE, EE), ? Canary Is, Caucasus, Kazakhstan.

Aneucelis melanaria (Holmgren, 1860) [*Tersilochus*] (*Isurgus diversus* Szépligeti, 1899; *I. petiolaris* Szépligeti, 1899). Parasitoid of *Ceutorhynchus pleurostigma* Marsh. (Curculionidae) and *Psylliodes chrysocephala* L. (Chrysomelidae). Russia: **EP** (NW, C, S, NC, CR), **UR**. – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, ? Iran, Afghanistan, Central Asia, Mongolia.

Aneucelis minutissima (Khalaim, 2005) [*Diaparsis*]. Russia: **WS** (TM), **ES** (BR), **FE** (KU, KA). – Uzbekistan, Kazakhstan, Mongolia.

Aneucelis pumilus (Holmgren, 1860) [*Tersilochus*]. Cosmopolitan species, probably with European origin. Russia: **EP** (NW, C, E, NC, CR), **ES** (KS, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Caucasus, Central Asia, Mongolia, N America, India, SE Asia, Australia.

Aneucelis stigmata Khalaim, 2004. Russia: **EP** (E, S), **WS** (AL), **ES** (TU, BR, ZB). – Central Asia, Kazakhstan, Mongolia.

Aneucelis unica Khalaim, 2004. Russia: **ES** (ZB). – Mongolia.

ASTRENIS Foerster, 1869. **Type species:** *Hambergiella sinuata* Roman, 1909. Predominantly Holarctic genus. Number of species: World – 7, Palaearctic – 4, Russia – 3.

Astrenis brunneofacies Vikberg, 2000. Russia: **EP** (N). – Europe (WE, NE, SE).

Astrenis nigrifacies Vikberg, 2000. Russia: **EP** (N). – Europe (WE, NE).

Astrenis sinuata (Roman, 1909) [*Hambergiella*]. Russia: **EP** (N). – Europe (WE, NE).

BARYCNEMIS Foerster, 1869 (*Leptopygus* Foerster, 1869; *Cratophion* Thomson, 1889; *Cyrtophion* Thomson, 1889; *Zasternaulax* Viereck, 1912; *Porizonidea* Viereck, 1914). **Type species:** *Porizon claviventris* Gravenhorst, 1829. Predominantly Holarctic genus. Number of species: World – 38, Palaearctic – 26, Russia – 15.

Barycnemis angustipennis (Holmgren, 1860) [*Porizon*]. Parasitoid of *Byrrhus* sp. (Byrrhidae). Russia: **EP** (N, NW, C, NC), **WS** (AL), **ES** (KR, ZB), **FE** (MG). – Europe (WE, NE, SE, EE), Turkey, ? N America.

Barycnemis asiatica Khalaim, 2004. Russia: **WS** (AL). – Kazakhstan, Mongolia.

Barycnemis bellator (Müller, 1776) [*Ichneumon*] (*Porizon laeviceps* Thomson, 1889). Russia: **EP** (N, NW, C, E, NC), **UR**, **WS** (TM), **ES** (KS, KR, BR, YA), **FE** (PR, KU, KA, MG). – Europe (WE, NE, EE), Azerbaijan, Kyrgyzstan, Kazakhstan, Mongolia, China (NC), Korean Peninsula, N America.

Barycnemis claviventris (Gravenhorst, 1829) [*Porizon*] (*Porizon anurus* Thomson, 1889). Russia: **EP** (C), **WS**

- (AL), **ES** (YA, ZB), **FE** (KA, MG). – Europe (WE, NE, EE), Kazakhstan, Mongolia.
- Barycnemis confusa** Horstmann, 1981. Russia: **EP** (N, NW, C), **WS** (AL), **ES** (KS, YA, ZB), **FE** (KA, MG). – Europe (WE, NE, EE), Mongolia, N America.
- Barycnemis deserta** Schwarz, 2003. Russia: **WS** (TM), **ES** (KR). – Europe (WE, NE).
- Barycnemis dissimilis** (Gravenhorst, 1829) [Porizon] (*Porizon erythrurus* Strobl, 1904; *Barycnemis funiuensis* Sheng, 2002). Widespread Holarctic and Oriental species. Russia: **EP** (NW, NC), **ES** (BR, ZB), **FE** (KH, PR, MG). – Europe (WE, NE, SE, EE), Georgia, Mongolia, China (NC), Korean Peninsula, Japan (Hon, Shi, Kyu), N America, SE Asia.
- Barycnemis exhaustator** (Fabricius, 1798) [Ichneumon] (*Ophion obtusator* Panzer, 1809). Russia: **EP** (C). – Europe (WE, NE, EE), Kazakhstan.
- Barycnemis gracillima** (Thomson, 1889) [Porizon]. Russia: **EP** (NW, C, S, E, NC). – Europe (WE, NE, SE, EE), Caucasus, Kazakhstan.
- Barycnemis gravipes** (Gravenhorst, 1829) [Porizon] (*Porizon hostilis* Gravenhorst, 1829). Russia: **EP** (N, NW, C), **WS** (TM). – Europe (WE, NE, SE, EE), Kazakhstan, N America.
- Barycnemis guttulator** (Thunberg, 1822) [Ichneumon] (*Porizon caudatulus* Thomson, 1889). Russia: **EP** (N, C), **ES** (ZB). – Europe (WE, NE, SE, EE).
- Barycnemis harpura** (Schränk, 1802) [Ichneumon]. Widespread and common Holarctic species. Russia: **EP** (N, NW, C, S, NC, CR), **UR**, **WS** (TM), **ES** (KS, KR, YA), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Central Asia, Kazakhstan, Mongolia, Japan (Hok, Hon), N America.
- Barycnemis punctifrons** Horstmann, 1981. Russia: **EP** (C), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan.
- Barycnemis sugonyaevi** Khalaim, 2015. Russia: **FE** (PR). – Japan (Hon).
- Barycnemis tobiasi** Khalaim, 2004. Russia: **WS** (TM), **ES** (BR), **FE** (SA, KU). – Mongolia, Japan (Hok, Hon), Nepal.
- DIAPARSIS** Foerster, 1869 (*Luchatema* Walkley, 1956; *Pseudaneuclis* Horstmann, 1971). Type species: *Ophion nutritor* Fabricius, 1804. Large almost worldwide genus (unknown only from South America) subdivided into five subgenera; four subgenera are small and restricted to the Palaearctic region, while the *Diaparsis* s. str. is extremely species-rich and distributed almost worldwide. Number of species: World – 91, Palaearctic – 38, Russia – 28.
- Diaparsis (Diaparsis) carinifer** (Thomson, 1889) [Thersilochus] (*Thersilochus carinatus* Bridgman, 1889; *Th. vernalis* Szépligeti, 1899). Parasitoid of *Lema cyanella* L., *Oulema gallaeciana* Heyd., *O. melanopus* L. and *Psylliodes chrysocephala* L. (Chrysomelidae). Russia: **EP** (N, NW, C, NC, CR), **UR**, **FE** (PR, KU). – Europe (WE, NE, SE, EE), Turkey, Jordan, Iran, Central Asia, Korean Peninsula, N America (introduced).
- Diaparsis (Diaparsis) convexa** Khalaim, 2005. Russia: **FE** (PR). – Korean Peninsula, Vietnam.
- Diaparsis (Diaparsis) ecarinata** Khalaim, 2005. Russia: **FE** (PR).
- Diaparsis (Diaparsis) egregia** Khalaim, 2005. Russia: **FE** (PR). – Korean Peninsula.
- Diaparsis (Diaparsis) flaventis** Khalaim, 2005. Russia: **FE** (PR).
- Diaparsis (Diaparsis) hyperae** Kusigemati, 1980. Parasitoid of *Hypera nigrirostris* F. (Curculionidae). Russia: **FE** (AM, PR). – Korean Peninsula, Japan (Hok).
- Diaparsis (Diaparsis) jucunda** (Holmgren, 1860) [Thersilochus]. Parasitoid of *Liliocercus lilii* Scop., *L. merdigera* L. and *L. tibialis* Villa (Chrysomelidae). Russia: **EP** (N, NW, C), **UR**, **FE** (KH, KA). – Europe (WE, NE, SE, EE), Iran, Korean Peninsula.
- Diaparsis (Diaparsis) mendeleevi** Khalaim, 2005. Russia: **FE** (KU).
- Diaparsis (Diaparsis) neoplicator** Khalaim, 2005. Russia: **FE** (PR). – Korean Peninsula.
- Diaparsis (Diaparsis) nitida** Horstmann, 1981. Russia: **EP** (CR), **FE** (KH, PR). – Europe (EE), Azerbaijan, Turkey, Israel, Kazakhstan.
- Diaparsis (Diaparsis) nutritor** (Fabricius, 1804) [Ophion] (*Thersilochus gemina* Holmgren, 1860; *Th. genalis* Thomson, 1889; *Temelucha rugosa* Szépligeti, 1905). Russia: **EP** (NW, C, S). – Europe (WE, NE, EE), Caucasus, Turkey, Kazakhstan.
- Diaparsis (Diaparsis) parabasalis** Khalaim, 2005. Russia: **FE** (PR).
- Diaparsis (Diaparsis) platyura** Khalaim, 2005. Russia: **FE** (PR).
- Diaparsis (Diaparsis) pulchra** Khalaim, 2011. Russia: **FE** (KH, PR). – China (NE), Korean Peninsula.
- Diaparsis (Diaparsis) punctipleuris** Horstmann, 1981. Russia: **EP** (NC). – Europe (WE, NE, EE), Abkhazia.
- Diaparsis (Diaparsis) rara** (Horstmann, 1971) [Pseudaneuclis]. Russia: **EP** (NW, C, NC), **ES** (ZB), **FE** (AM, KH, PR). – Europe (WE, NE, EE), Turkey, Kazakhstan, China (NC).
- Diaparsis (Diaparsis) temporalis rufigaster** Horstmann, 1979. Parasitoid of *Oulema melanopus* L. (Chrysomelidae). Russia: **EP** (NW, NC). – Europe (WE, SE, EE), Caucasus, Kazakhstan.
- Diaparsis (Diaparsis) truncata** (Gravenhorst, 1829) [Porizon] (*Diaparsis genalis gallicator* Aubert, 1964). Parasitoid of *Crioceris duodecimpunctata* L. (Chrysomelidae). Russia: **EP** (S). – Europe (WE, EE), Kazakhstan, N America (introduced, not established).
- Diaparsis (Diaparsis) ultimator** Khalaim, 2005. Russia: **UR**. – Europe (NE, SE), Kazakhstan.

- Diaparsis (Diaparsis) valvator** Khalaim, 2005. Russia: **FE** (KH, PR). – China (NE).
- Diaparsis (Ischnobatis) stramineipes** (Brischke, 1880) [Thersilochus] (*Thersilochus rufiventris* Brischke, 1880; *Th. flavicornis* Thomson, 1889; *Th. petiolatus* Szépligeti, 1899). Parasitoid of gall-forming sawflies *Pontania bridgmanii* Cameron, *P. pedunculi* Hartig and *P. proxima* Audinet-Serville (Hymenoptera: Tenthredinidae) and/or inquilines in their galls, weevils *Archarius crux* F. and *A. salicivorus* Payk. (Coleoptera: Curculionidae); also reported as parasitoid of the leaf-folder sawfly *Phyllocolpa erythropygia* Foerst. (Hymenoptera: Tenthredinidae). Russia: **EP** (NW, C, S), **ES** (BR, ZB), **FE** (KH, PR, KU). – Europe (WE, NE, EE), Kazakhstan.
- Diaparsis (Lanugoparsis) clavata** Khalaim, 2002. Russia: **EP** (S). – Kazakhstan, Mongolia.
- Diaparsis (Nanodiaparsis) aperta** (Thomson, 1889) [Thersilochus]. Parasitoid of *Anthaxia tuerki* Ganglb. (Buprestidae). Russia: **EP** (NC, CR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Kyrgyzstan, Kazakhstan.
- Diaparsis (Nanodiaparsis) clypeata** Khalaim, 2002. Russia: **EP** (NW). – Europe (EE).
- Diaparsis (Nanodiaparsis) frontella** (Holmgren, 1860) [Thersilochus]. Parasitoid of *Scolytus rugulosus* Müll. (Curculionidae). Russia: **EP** (NC, CR), **ES** (ZB). – Europe (WE, NE, ? SE, EE), Caucasus, Turkey, Israel, Kazakhstan.
- Diaparsis (Nanodiaparsis) manukyani** Khalaim, 2002. Russia: **FE** (SA, KU).
- Diaparsis (Nanodiaparsis) ussuriensis** Khalaim, 2002. Russia: **FE** (PR).
- Diaparsis (Pectinoparsis) improvisator** Khalaim, 2005. Russia: **FE** (PR). – Korean Peninsula, Japan (Hon).
- Remarks.** Record of this species from Iran is incorrect.
- EPISTATHMUS** Foerster, 1869. Type species: *Epistathmus crassicornis* Horstmann, 1971. Monotypic Palaearctic genus.
- Epistathmus crassicornis** Horstmann, 1971. Russia: **EP** (N, NW, C, CR), **WS** (TM), **ES** (KR, IR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Caucasus.
- GELANES** Horstmann, 1981. Type species: *Thersilochus fuscus* Holmgren, 1860. Parasitoids of *Xyela* spp. (Hymenoptera: Xyelidae) whose larvae develop in staminate cones on *Pinus* spp. Holarctic genus. Number of species: World – 34, Palaearctic – 20, Russia – 8.
- Gelanes belokobylskii** Khalaim, 2002. Russia: **FE** (PR). – Korean Peninsula.
- Gelanes bidentatus** Khalaim, 2002. Russia: **FE** (KH, PR, SA).
- Gelanes clypeatus** (Horstmann, 1971) [Thersilochus]. Russia: **FE** (KH). – Europe (WE, EE), Japan (Hok).
- Gelanes cuspidatus** Khalaim, 2002 (*Gelanes tootsae* Khalaim, 2002). Parasitoid of *Xyela alpigena* Strobl (Xyelidae). Russia: **FE** (KH, PR). – Europe (WE, EE), China (NE), Korean Peninsula, Japan (Kyu).
- Gelanes fuscus** (Holmgren, 1860) [Thersilochus]. Parasitoid of *Xyela obscura* Strobl, *X. julii* Brebisson and probably *X. alpigena* Strobl (Xyelidae). Russia: **EP** (N, NW, NC, CR), **ES** (IR), **FE** (KU). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Gelanes provectus** Balueva et Lee, 2013. Russia: **FE** (PR). – China (NE), Korean Peninsula.
- Gelanes simillimus** Horstmann, 1981. Parasitoid of *Xyela julii* Brebisson (Xyelidae). Russia: **EP** (N, C, NC, CR), **UR**, **ES** (IR), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Turkey, Israel, Korean Peninsula.
- HETEROCOLA** Foerster, 1869. Type species: *Thersilochus proboscidalis* Thomson, 1889. Predominantly Palaearctic genus with one species in Afrotropical region. Number of species: World – 8, Palaearctic – 7, Russia – 3.
- Heterocola (Heterocola) proboscidalis** (Thomson, 1889) (*Thersilochus monticola* Thomson, 1889; *Th. pallicarpus* Thomson, 1889). Russia: **EP** (NW, C, E, CR), **ES** (IR, BR, YA), **FE** (PR). – Europe (WE, NE, SE, EE), ? N Africa, Georgia, ? Iran, Kazakhstan, Mongolia.
- Heterocola (Heterocola) rufiventris** Horstmann, 1971. Russia: **EP** (E, NC, CR), **UR**. – Europe (WE, EE), Caucasus, Kazakhstan.
- Heterocola (Heterocoloides) linguaria** (Haliday, 1838) [Porizon] (*Ischnobatis punctulatus* Szépligeti, 1899). Russia: **EP** (C, S, CR). – Europe (WE, SE, EE), N Africa, Caucasus, Turkey, Kazakhstan.
- PHAESTACOENITUS** Smits van Burgst, 1913. Type species: *Phaestacoenitus de-meyerei* Smits van Burgst, 1913. Palaearctic genus. Number of species: World and Palaearctic – 7, Russia – 1.
- Phaestacoenitus niger nitidus** Kasparyan, 1983. Russia: **EP** (NC). – Caucasus, Turkey, Iran.
- PHRADIS** Foerster, 1869 (*Eutomus* Foerster, 1869, nom. praeocc., nec Hope, 1838 nec Lacordaire, 1866; *Isurgus* Foerster, 1869). Type species: *Thersilochus (Phradis) brevis* Brischke, 1880. Almost worldwide genus with most species in the Holarctic region. Species of the genus are known as parasitoids of sap beetles (Coleoptera: Nitidulidae). Number of species: World – 64, Palaearctic – 40, Russia – 29.
- Phradis arivienae** Khalaim, 2007. Russia: **ES** (KR, ZB). – Kazakhstan.
- Phradis brachyarthrus** Khalaim, 2007. Russia: **FE** (PR).
- Phradis brevicornis** Horstmann, 1971 (*Thersilochus sulcatus* Hellén, 1958, nom. praeocc., nec *Gonolochus sulcatus* Smith van Burgst, 1913). Russia: **EP** (N, NW, C, NC, CR), **UR**, **WS** (AL), **ES** (KR, ZB), **FE** (AM, KH, PR, KU, MG, CH). – Europe (WE, NE, SE, EE), Kazakhstan.
- Phradis brevis** (Brischke, 1880) [Thersilochus] (*Thersilochus temporalis* Thomson, 1899; *Th. styriacus* Strobl, 1904). Parasitoid of *Meligethes difficilis* Heer (Nitidulidae).

- Russia: **EP** (N, NW, C, E, NC), **ES** (IR, ZB), **FE** (KH, PR, KU, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Kazakhstan, Mongolia.
- Phradis brevitemporalis** Khalaim, 2007. Russia: **FE** (PR).
- Phradis caudator** Khalaim, 2007. Russia: **FE** (KH).
- Phradis decameron** Khalaim, 2004. Russia: **EP** (NC). – Europe (EE), Armenia.
- Phradis decrescens** (Thomson, 1889) [Thersilochus]. Russia: **EP** (NW). – Europe (WE, EE), Georgia, Turkey, Kazakhstan.
- Phradis denticulatus** Khalaim, 2007. Russia: **UR**. – Europe (SE, EE), Kazakhstan.
- Phradis flavoclypeatus** Khalaim, 2007. Russia: **FE** (KH, PR). – Japan (Kyu).
- Phradis gibbus** (Holmgren, 1860) [Thersilochus] (*Phradis grandis* Hellén, 1958). Russia: **EP** (N, NW), **FE** (PR). – Europe (WE, NE, SE, EE), ? China (NC).
- Phradis interstitialis** (Thomson, 1889) [Thersilochus] (*Isurgus brachygaster* Szépligeti, 1899). Parasitoid of *Meligethes* spp. (Nitidulidae). Russia: **EP** (NW, NC). – Europe (WE, NE, SE, EE), Georgia, Israel, Tajikistan.
- Phradis kharimkotanicus** Khalaim, 2007. Russia: **FE** (KU).
- Phradis longibasalis** Khalaim, 2007. Russia: **EP** (C), **FE** (KH, PR, KU). – Europe (NE, EE).
- Phradis mesopleurator** Khalaim, 2007. Russia: **FE** (PR).
- Phradis minutus** (Bridgman, 1889) [Thersilochus]. Russia: **EP** (C, E, NC, CR). – Europe (WE, NE, SE, EE), Caucasus, Turkey.
- Phradis molestus** Khalaim, 2007. Russia: **ES** (ZB), **FE** (PR, SA).
- Phradis monticola** Szépligeti, 1899. Russia: **EP** (NC, CR). – Europe (WE, SE, EE).
- Phradis morionellus** (Holmgren, 1860) [Thersilochus] (*Isurgus lanceolatus* Szépligeti, 1899; *I. oudemansi* Smits van Burgst, 1913). Parasitoid of *Meligethes* spp. (Nitidulidae). Russia: **EP** (NW, C, NC, CR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), ? N Africa, Azerbaijan, Turkey, Turkmenistan, Kazakhstan.
- Phradis nigrutilus** (Gravenhorst, 1829) [Porizon] (*Ischnobatis albipennis* Szépligeti, 1899). Russia: **EP** (N, NW, C), **UR**, **WS** (AL), **ES** (KR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan, Mongolia.
- Phradis nikishenae** Khalaim, 2007. Russia: **FE** (PR). – Mongolia, Korean Peninsula, Japan (Kyu).
- Phradis ovipositor** Khalaim, 2007. Russia: **FE** (PR).
- Phradis pesenkoi** Khalaim, 2007. Russia: **EP** (CR).
- Phradis polonicus** Horstmann, 1981. Russia: **EP** (NW, C), **FE** (KH, PR). – Europe (WE, NE, EE), Armenia.
- Phradis punctipleuris** Horstmann, 1971. Russia: **EP** (NC, CR), **UR**. – Europe (WE, ? NE, SE, EE), Caucasus, Kyrgyzstan, Kazakhstan.
- Phradis pusillus** Khalaim, 2007. Russia: **FE** (PR).
- Phradis rufiventris** Horstmann, 1981. Russia: **EP** (C), **WS** (KM), **ES** (IR). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.
- Phradis terebrator** Horstmann, 1981. Russia: **EP** (CR), **UR**. – Europe (WE, NE, EE), Kyrgyzstan, Kazakhstan.
- Phradis thyridialis** Horstmann, 1981. Russia: **EP** (N, C), **UR**. – Europe (WE, SE, EE), Georgia, Kazakhstan.
- Phradis vespertinus** Khalaim, 2007. Russia: **FE** (PR).
- PHRUDUS** Foerster, 1869 (*Phrudus* Bridgman, 1886; *Ktenostilpnus* Strobl, 1901; *Vendolus* Roman, 1914). Type species: *Phrudus monilicornis* Bridgman, 1886. Predominantly Holarctic genus. Number of species: World – 10, Palaearctic – 4, Russia – 3.
- Phrudus badensis** Hilpert, 1987. Russia: **EP** (NW), **FE** (PR). – Europe (WE, NE, SE, EE).
- Phrudus compressus** Vikberg, 2000. Russia: **EP** (N). – Europe (NE).
- Phrudus defectus** Stelfox, 1966. Russia: **EP** (N). – Europe (WE, NE, EE).
- Phrudus monilicornis** Bridgman, 1886 (*Ktenostilpnus aequalatus* Strobl, 1901; *Vendolus stilpninus* Roman, 1914). Collected from the nests of *Bombus pascuorum* Scop. and *B. lapidarius* L. (Hymenoptera: Apidae). Russia: **EP** (N, NC). – Europe (WE, NE, EE), Kyrgyzstan, China (SE).
- PROBLES** Foerster, 1869. Type species: *Probles melanarius* Szépligeti, 1899 (= *Porizon erythrostomus* Gravenhorst, 1829). Predominantly Holarctic genus subdivided into five subgenera. The largest subgenus, *Euporizon* Horstmann, comprising almost 3/4 of the total number of species, requires revision. Number of species: World – 74, Palaearctic – 51, Russia – 21.
- Probles (Euporizon) carinator** Khalaim, 2014. Russia: **FE** (PR).
- Probles (Euporizon) dmitrii** Khalaim, 2014. Russia: **FE** (PR).
- Probles (Euporizon) exilis** (Holmgren, 1860) [Thersilochus]. Reared from fungi with bark beetles (Curculionidae: Scolytinae). ? Russia: **EP** (NW), **WS** (OM). – Europe (WE, NE, SE, EE), Turkey.
- Probles (Euporizon) gilvipes** (Gravenhorst, 1829) [Porizon] (*Thersilochus pallipes* Holmgren, 1860; *Th. orchesiae* Morley, 1915). Parasitoid of *Orchesia micans* Pz. and *Abdera affinis* Payk. (Coleoptera: Melandryidae). ? Russia: **EP** (NW). – Europe (WE, NE, EE).
- Probles (Euporizon) hankaensis** Khalaim, 2014. Russia: **FE** (PR).
- Probles (Euporizon) korusa** Khalaim et Kim, 2013. ? Russia: **FE** (PR). – Korean Peninsula.
- Probles (Euporizon) pygmaeus** (Zetterstedt, 1838) [Porizon]. ? Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).
- Probles (Euporizon) rufipes** (Holmgren, 1860) [Thersilochus] (*Ischnobatis flavigaster* Szépligeti, 1899). Parasitoid of mining weevils (Curculionidae). Russia: ? **EP** (NW), **WS** (without regions: Horstmann, 1981). – Europe (WE, NE, SE, EE), Turkey.
- Probles (Euporizon) sibirica** Khalaim, 2007. Russia: **ES** (BR, YA, ZB), **FE** (MG). – Mongolia.

- Probles (Euporizon) thomsoni** (Schmiedeknecht, 1911) [Thersilochus]. ? Russia: **EP** (NW). – Europe (WE, NE).
- Probles (Euporizon) truncorum** (Holmgren, 1860) [Thersilochus]. Parasitoid of *Ceutorhynchus pleurostigma* Marsh. (Curculionidae). Russia: **EP** (? N, ? NW, C). – Europe (WE, NE, SE, EE).
- Probles (Euporizon) vietnamica** Khalaim, 2011. ? Russia: **FE** (PR). – ? China (CC), SE Asia.
- Probles (Microdiaparsis) caudiculata** Khalaim, 2007. Russia: **EP** (NC), **ES** (BR, YA), **FE** (KH, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Mongolia, China (NC).
- Probles (Microdiaparsis) kasparyator** Khalaim, 2007. Russia: **FE** (KU).
- Probles (Microdiaparsis) microcephala** (Gravenhorst, 1829) [Porizon] (*Thersilochus quercetorum* Szépligeti, 1899; *Diaparsis ruficoxis* Seyrig, 1927). Parasitoid of *Crioceris duodecimpunctata* L. (Chrysomelidae). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE), Turkey, Iran.
- Probles (Microdiaparsis) neoversuta** (Horstmann, 1967) [Diaparsis] (*Thersilochus parviceps* Szépligeti, 1899, nom. praeocc., nec Thomson, 1889). Russia: **EP** (NW, C, E), **UR**, **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Turkey.
- Probles (Microdiaparsis) versuta** (Holmgren, 1860) [Thersilochus] (*Thersilochus parviceps* Thomson, 1889). Russia: **EP** (without regions: Khalaim, 2007), **FE** (SA, KU). – Europe (WE, NE, SE, EE), Turkey.
- Probles (Probles) flavipes** (Szépligeti, 1889) [Ichnobatis]. Russia: **EP** (C). – Europe (WE, NE, EE), Turkey.
- Probles (Rhynchoproble) longisetosa** (Hedwig, 1956) [Paracremastus]. Parasitoid of *Dichotrachelus manueli* Marseul (Curculionidae). Russia: **ES** (YA). – Europe (WE, SE, EE), Mongolia.
- Probles (Rugodiaparsis) kunashirica** Khalaim, 2003. Russia: **FE** (KH, KU). – Japan (Hok, Hon).
- Probles (Rugodiaparsis) ruficornis** (Szépligeti, 1899) [Leptopygus] (*Leptopygus nigricornis* Szépligeti, 1899). Russia: **EP** (NW, NC, CR), **UR**, **ES** (BR), **FE** (KH, SA). – Europe (WE, NE, SE, EE).
- PYGMAEOLUS** Hellén, 1958. Type species: *Thersilochus nitidus* Bridgman, 1889. Palaearctic genus. Number of species: World and Palaearctic – 2, Russia – 1.
- Pygmaeolus nitidus** (Bridgman, 1889) [Thersilochus]. Parasitoid of *Ceutorhynchus pleurostigma* Marsh. (Curculionidae). Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE).
- SPINOLOCHUS** Horstmann, 1971. Type species: *Thersilochus laevifrons* Holmgren, 1860. Holarctic genus. Number of species: World – 3, Palaearctic and Russia – 2.
- Spinolochus agilis** (Holmgren, 1860) [Porizon]. Russia: **EP** (N, NW), **WS** (TM), **ES** (ZB), **FE** (KU, KA, MG). – Europe (WE, NE, EE), ? Iran, Kyrgyzstan, Mongolia, N America.
- Spinolochus laevifrons** (Holmgren, 1860) [Thersilochus]. Russia: **EP** (N, NW, C), **ES** (TM), **FE** (PR, KU). – Europe (WE, NE, EE), Kyrgyzstan, Japan (Hok), N America.
- TERSILOCHUS** Holmgren, 1859 (*Thersilochus* Holmgren, 1860, unjustified emendation). Type species: *Tersilochus jocator* Holmgren, 1859 (= *Thersilochus cognatus* Holmgren, 1860). Number of species: World – 74, Palaearctic – about 67 (taxonomical status of several species is unclear), Russia – 37.
- Tersilochus (Gonolochus) caudatus** (Holmgren, 1860) [Thersilochus] (*Thersilochus pratensis* Szépligeti, 1899; *Temelucha salinus* Kiss, 1924). Parasitoid of *Dorytomus* sp., *Ceutorhynchus pleurostigma* Marsh. (Curculionidae), *Lema* sp. (Chrysomelidae) and *Orchesia* sp. (Melandryidae). Russia: **EP** (N, NW, C, E, S, NC, CR), **UR**, **WS** (KM, AL), **ES** (TU, KR, IR, BR, YA, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey, Caucasus, Central Asia, Kazakhstan, Mongolia, Korean Peninsula.
- Tersilochus (Gonolochus) fenestralis** (Thomson, 1869) [Thersilochus] (*Thersilochus punctatissimus* Strobl, 1904). Russia: **EP** (NC, CR). – Europe (WE, EE), Turkey.
- Tersilochus (Gonolochus) nitens** Horstmann et Kolarov, 1988. Russia: **EP** (NC, CR). – Europe (WE, EE), Caucasus, Turkey.
- Tersilochus (Gonolochus) rugulosus** Horstmann, 1981. Parasitoid of *Ceutorhynchus horridus* Panzer (Curculionidae). Russia: **EP** (NC). – Europe (WE, SE, EE), Turkey.
- Tersilochus (Gonolochus) stenocari** (Gregor, 1941) [Thersilochus]. Parasitoid of *Ceutorhynchus picitarsis* Gyllenhal, *Phrydiuchus topiarius* Germar, *Stenocarus cardui* Herbst and *S. ruficornis* Stephens (Curculionidae). Russia: **EP** (E, CR). – Europe (WE, SE, EE).
- Tersilochus (Pectinolochus) acutangulus** Khalaim, 2007. Russia: **EP** (N), **ES** (TU), **FE** (PR). – Europe (NE), Mongolia.
- Tersilochus (Pectinolochus) apicator** Khalaim, 2007. Russia: **FE** (PR, SA).
- Tersilochus (Pectinolochus) coeliodicola** (Silvestri, 1917) [Thersilochus] (*Tersilochus pteronidearum* Hellén, 1958). Parasitoid of *Coeliodes ruber* Marsham (Coleoptera: Curculionidae) and probably *Nematus ribesii* Scop. (Hymenoptera: Tenthredinidae). Russia: **EP** (NW, C, E, S), **UR**, **FE** (KH). – Europe (WE, NE, SE, EE), Mongolia.
- Tersilochus (Pectinolochus) ensifer** (Brischke, 1880) [Thersilochus] (*Thersilochus crassicauda* Thomson, 1889). Russia: **EP** (N, NW, NC). – Europe (WE, NE, EE).
- Tersilochus (Pectinolochus) intermedius** Horstmann, 1981. Russia: **EP** (N, C). – Europe (EE).
- Tersilochus (Pectinolochus) lapponicus** Hellén, 1958. Russia: **EP** (N, NW, NC). – Europe (WE, NE, EE), Georgia.
- Tersilochus (Pectinolochus) luteicornis** (Hellén, 1958) [Aneucelis]. Russia: **EP** (N, NW). – Europe (NE, EE).

- Tersilochus (Pectinolochus) spiracularis** Horstmann, 1971. Russia: **EP** (N, NW, C). – Europe (WE, NE, EE), Kazakhstan.
- Tersilochus (Pectinolochus) striola** (Thomson, 1889) [Thersilochus] (*Tersilochus unguiculator* Aubert, 1960). Russia: **EP** (NW, C, NC), **ES** (YA), **FE** (SA, KA, MG). – Europe (WE, NE, SE, EE), ? Iran, N America.
- Tersilochus (Pectinolochus) terebrator** (Horstmann, 1971). Russia: **EP** (NW, C), **FE** (PR, MG). – Europe (WE, NE, EE).
- Tersilochus (Tersilochus) cognatus** (Holmgren, 1860) [Thersilochus] (*Tersilochus jocator* Holmgren, 1859, unavailable name). Russia: **EP** (N, NW, C, NW, C, S, NC, CR), **UR**, **WS** (OM, AL). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan.
- Tersilochus (Tersilochus) curvator** Horstmann, 1981 (? *Ichneumon saltator* Fabricius, 1971, nom. praeocc., nec Müller, 1776). Parasitoid of *Eriocrania cicatricella* Zett. (Lepidoptera: Eriocraniidae). Russia: **EP** (C), **FE** (PR, SA, KU, KA). – Europe (WE, NE, SE, EE), China (WP).
- Tersilochus (Tersilochus) filicornis** (Thomson, 1889) [Thersilochus] (*Aneucelis affinis* Hellén, 1958). ? Russia: **EP** (NW). – Europe (WE, NE, ? SE, EE).
- Tersilochus (Tersilochus) fulvipes** (Gravenhorst, 1829) [Porizon] (*Tersilochus gallicator* Aubert, 1959). Parasitoid of *Ceutorhynchus* spp. (Curculionidae). Russia: **EP** (S, NC), **FE** (KU). – Europe (WE, SE, EE), Armenia.
- Tersilochus (Tersilochus) grandiculus** Khalaim, 2012. Russia: **ES** (IR), **FE** (KH, PR).
- Tersilochus (Tersilochus) heterocerus** (Thomson, 1889) [Thersilochus] (*Tersilochus stanionyteus* Jonaitis, 1974; *T. vicinus* Jonaitis, 1974). Parasitoid of sap beetles of the genus *Meligethes* Stephens (Nitidulidae), especially the pollen beetle *M. aeneus* F., serious pests on oilseed (winter) rape in Europe. Russia: **EP** (N). – Europe (WE, NE, EE), ? Azerbaijan, Turkey.
- Tersilochus (Tersilochus) hokkaidoensis** Khalaim, 2012. Russia: **FE** (KU). – Japan (Hok, Hon).
- Tersilochus (Tersilochus) impunctator** Khalaim, 2012. Russia: **FE** (PR).
- Tersilochus (Tersilochus) juxtus** Khalaim, 2012. Russia: **FE** (SA, KU).
- Tersilochus (Tersilochus) liopleuris** (Thomson, 1889) [Thersilochus]. Parasitoid of *Hadrobregmus pertinax* L. (Anobiidae). Russia: ? **EP** (NW), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, EE).
- Tersilochus (Tersilochus) longicornis** (Thomson, 1889) [Thersilochus]. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Tersilochus (Tersilochus) microgaster** (Szépligeti, 1899) [Isurgus]. Parasitoid of *Psylliodes chrysocephala* L. (Chrysomelidae). Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Tersilochus (Tersilochus) nitidipleuris** Horstmann, 1971. Russia: **EP** (NW). – Europe (WE, EE).
- Tersilochus (Tersilochus) obliquus** (Thomson, 1889) [Thersilochus]. Russia: **EP** (C). – Europe (WE, EE).
- Tersilochus (Tersilochus) obscurator** (Aubert, 1959) [Thersilochus]. Parasitoid of *Ceutorhynchus pallidactylus* Marsham (Curculionidae). Russia: **EP** (C). – Europe (WE, NE, SE, EE), Turkey.
- Tersilochus (Tersilochus) offrenatus** Khalaim, 2012. Russia: **FE** (KU, KA).
- Tersilochus (Tersilochus) petiolaris** Horstmann, 1981. Russia: **EP** (C, NC). – Europe (SE, EE).
- Tersilochus (Tersilochus) rufovarius** Horstmann, 1981. Russia: **EP** (NW, C).
- Tersilochus (Tersilochus) scutatus** Khalaim et Sheng, 2015. Russia: **FE** (PR). – China (NE).
- Tersilochus (Tersilochus) spasskensis** Khalaim, 2012. Russia: **FE** (KH, PR). – China (NE), Japan (Hok, Hon, Kyu).
- Tersilochus (Tersilochus) subdepressus** (Thomson, 1889) [Thersilochus] (*Isurgus major* Szépligeti, 1899). Russia: **EP** (NW, NC). – Europe (WE, NE, EE).
- Tersilochus (Tersilochus) triangularis** (Gravenhorst, 1807) [Ophion] (*Isurgus minutus* Szépligeti, 1899). Parasitoid of *Ceutorhynchus* spp. and *Stenocarus ruficornis* Stephens (Curculionidae). Russia: **EP** (NW, C, E). – Europe (WE, NE, EE), Turkey.

Subfamily TOWNESIONINAE

A.I. KHALAIM AND D.R. KASPARYAN

The subfamily was described by Kasparyan (1993) for two genera, the Oriental *Sachtlebenia* Townes, 1963 and Eastern Palaearctic *Townesion* Kasparyan, 1993. Gauld et Wahl (2000) on the basis of cladistic analysis synonymized the Townesioninae with Glyptini (Banchinae). Quicke et al. (2009) noted that the *Townesion* is almost unique within the Ichneumonidae, and recently (Quicke, 2015) erected in Banchinae a fourth tribe, Townesionini, for the two townesionine genera. Here we consider townesionines as a separate subfamily. Nothing is known about the biology of this group.

Number of taxa: World – 2 genera and 5 species, Palaearctic and Russia – 1/2.

References. Kasparyan, 1993, 2007c; Gauld, Wahl, 2000; Broad, 2014; Li et al., 2019.

TOWNESION Kasparyan, 1993. Type species: *Townesion ussuriensis* Kasparyan, 1993. East Palaearctic genus. Number of species: World, Palaearctic and Russia – 2.

Townesion japonicus Kasparyan, 1999. Russia: **FE** (SA). – Japan (Hok, Hon).

Townesion ussuriensis Kasparyan, 1993. Russia: **FE** (PR).

Subfamily TRYPHONINAE

D.R. KASPARYAN

Tryphoninae is a large worldwide subfamily subdivided into eight tribes, of them seven (all except the Australasian

Ankylophonini, with one known species) occur in the Palearctic region and are known from Russia. The tribe Exenterini was recently synonymized with Tryphonini (Bennett, 2015), but here we treat it as a separate tribe.

Tryphoninae are koinobiont ectoparasitoids. The female attaches an anchored egg on the active host larva; the parasitoid larva begins feeding after the host conceals itself or pupates.

Most tryphonine genera are distributed in the Holarctic and parasitize sawfly larvae (Hymenoptera: Tenthredinoidea), but species of the tribes Oedemopsini, Phytodietini and Sphinctini are found worldwide and attack caterpillars of Lepidoptera.

Number of taxa: World – 57 genera and about 1250 species, Palearctic – 43/580, Russia – 38/403.

R e f e r e n c e s. Uchida, 1930; Meyer, 1936a, 1936b; Townes, Townes, 1949, 1950; Kerrich, 1952; Mason, 1962, 1966; Oehlke, 1966a; Kasparyan, 1973a, 1981b, 1990b, 2013a, 2013b, 2016, 2019d; Tolkanitz, 1973, 1974, 1976, 1981; Kaur, Jonathan, 1979; Gupta, 1983, 1988, 1990, 1991; Konishi, 1985, 1986a, 1986b, 1991, 1992; Townes et al., 1992; Lee, Cha, 1993; Lee et al., 1995; Kasparyan, Tolkanitz, 1999; Kasparyan, Khalaim, 2007b; Kolarov, 2013; Bennett, 2015; Yu et al., 2016; Kasparyan et al., 2017.

Tribe ECLYTINI

Monotypic Holarctic tribe. Parasitoids of the sawflies mainly of the family Tenthredinidae, but also Argidae. Number of species: World – 23, Palearctic and Russia – 17.

ECLYTUS Holmgren, 1857. **Type species:** *Eclytus ornatus* Holmgren, 1857. Holarctic genus subdivided into three subgenera: *Eclytus* s. str. and *Zapedias* Foerster parasitizing sawflies of the subfamily Nematinae (Tenthredinidae) and *Anoplectes* Kriechbaumer, the parasitoids of Argidae. Number of species: World – 23, Palearctic and Russia – 17.

Eclytus (Anoplectes) multicolor (Kriechbaumer, 1896) [Anoplectes]. Parasitoid of Argidae. Russia: **EP** (N, NW), **ES** (KR, IR), **FE** (KA). – Europe (WE, NE, EE).

Eclytus (Eclytus) abdominalis Kasparyan, 1977. Russia: **EP** (N), **WS** (TM), **ES** (YA). – Europe (NE), N America.

Eclytus (Eclytus) cephalotes Kasparyan, 1977. Russia: **FE** (SA, KU).

Eclytus (Eclytus) clementinus Kasparyan, 1977. Russia: **WS** (TM). – Europe (NE, EE), USA.

Eclytus (Eclytus) coccineus Kasparyan, 1977. Russia: **EP** (N), **WS** (TM), **ES** (YA), **FE** (MG). – Europe (NE), N America.

Eclytus (Eclytus) difficilis Kasparyan, 1977. Russia: **EP** (N), **WS** (TM). – Europe (NE), N America.

Eclytus (Eclytus) egregius Kasparyan, 1977. Russia: **EP** (N), **ES** (BR, YA, ZB), **FE** (AM). – Europe (WE, NE, EE), Azerbaijan, Kazakhstan, Mongolia, N America.

Eclytus (Eclytus) fabaceus Kasparyan, 1977. Russia: **FE** (KU).

Eclytus (Eclytus) gelidus Kasparyan, 1977. Russia: **EP** (N), **WS** (TM), **FE** (MG). – USA.

Eclytus (Eclytus) gorodkovi Kasparyan, 1977. Russia: **ES** (YA, ZB). – Mongolia.

Eclytus (Eclytus) haemorrhoidicus Kasparyan, 1977. Russia: **ES** (BR), **FE** (KH, PR). – Mongolia.

Eclytus (Eclytus) haustoriatus Kasparyan, 1977. Russia: **EP** (N, NW), **ES** (ZB), **FE** (KU). – Europe (NE, EE).

Eclytus (Eclytus) ornatus Holmgren, 1857. Russia: **EP** (N), **FE** (KA). – Europe (WE, NE, EE), N America.

Eclytus (Eclytus) rubridorsum Kasparyan, 1977. Russia: **EP** (N), **FE** (MG). – Europe (NE).

Eclytus (Eclytus) sibiricus Kasparyan, 1999. Russia: **ES** (ZB).

Eclytus (Eclytus) similis Kasparyan, 1977. Russia: **EP** (N), **WS** (TM), **ES** (KR, IR, ZB), **FE** (KA, CH). – Europe (NE), Mongolia, USA.

Eclytus (Zapedias) exornatus (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of *Pristiphora abietina* Christ, *P. moesta* Zaddach and *P. saxeseni* Hartig (Tenthredinidae). Russia: **EP** (NW), **ES** (KR), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Turkey, Turkmenistan.

Tribe EXENTERINI (CTENISCINI)

Holarctic tribe with several species recorded in the Oriental and Neotropical regions. Parasitoids of sawfly families Cimbicidae, Diprionidae and Tenthredinidae (Hymenoptera). Palearctic species were revised by Kasparyan (1990). Number of taxa: World – 16 genera and about 240 species, Palearctic – 15/150, Russia – 11/119.

ACROTOMUS Holmgren, 1857. **Type species:** *Tryphon lucidulus* Gravenhorst, 1829. Palearctic genus. Predominantly parasitoids of the genus *Cladius* Ill. (Tenthredinidae: Nematinae: Cladiini). Number of species: World and Palearctic – 5, Russia – 3.

Acrotomus albidulus Kasparyan, 1986. Russia: **FE** (KH, PR).

Acrotomus lucidulus (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C, NC, CR), **ES** (BR, YA, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Iran, Kazakhstan, Mongolia, Korean Peninsula, Japan.

Acrotomus succinctus (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (NW, C, NC), **WS** (TM), **ES** (TU, KR, IR, BR, YA, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Jordan, Iran, Kazakhstan, Mongolia, Korean Peninsula, N America (introduced), India.

CTENISCUS Haliday, 1832. **Type species:** *Tryphon sexlitturatus* Gravenhorst, 1829 (= *Bassus pedatorius* Panzer, 1809). Holarctic genus subdivided into two subgenera. Number of species: World – 22, Palearctic – 13, Russia – 10.

- Cteniscus (Cteniscus) amurensis** Kasparyan, 1990. Russia: **FE** (AM, KH).
- Cteniscus (Cteniscus) devius** (Mason, 1955) [Eudioborus]. Russia: **EP** (N), **ES** (YA), **FE** (KU). – Europe (WE, NE), N America.
- Cteniscus (Cteniscus) dorsalis** Cresson, 1864. Russia: **EP** (C), **ES** (IR, YA). – Europe (WE, NE), N America.
- Cteniscus (Cteniscus) glutiniatus** (Roman, 1909) [Diaborus]. Russia: **EP** (N), **WS** (TM), **ES** (IR, ZB), **FE** (KA). – Europe (NE), N America.
- Cteniscus (Cteniscus) inversus** (Roman, 1909) [Diaborus]. Russia: **ES** (KR, YA). – Europe (NE, EE).
- Cteniscus (Cteniscus) maculiventris** (Ashmead, 1896) [Diaborus]. Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, EE), N America.
- Cteniscus (Cteniscus) nigrifrons** (Thomson, 1883) [Diaborus]. Russia: **EP** (N), **FE** (PR). – Europe (WE, NE, SE, EE).
- Cteniscus (Cteniscus) pedatorius** (Panzer, 1809) [Bassus] (*Tryphon sexlituratus* Gravenhorst, 1829). Russia: **EP** (N, NW, C), **ES** (IR, BR, YA, ZB). – Europe (WE, NE, EE).
- Cteniscus (Cteniscus) scalaris** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N), **ES** (IR, YA), **FE** (KU, KA, MG). – Europe (WE, NE, EE), Kyrgyzstan, Mongolia.
- Cteniscus (Cteniscus) tarsatorius** Kasparyan, 1990. Russia: **ES** (IR, BR, YA). – Mongolia.
- CYCASIS** Townes, 1965. Type species: *Tryphon rubiginosa* Gravenhorst, 1829. Palaearctic genus. Number of species: World, Palaearctic and Russia – 2.
- Cycasis rubiginosa** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Cladius difformis* Pz. and *Monophadnoides alternipes* Klug (Tenthredinidae). Russia: **EP** (N, NW, C, E, NC), **UR**, **WS** (KM), **ES** (IR, BR, YA, ZB), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), Azerbaijan, Turkey, Turkmenistan, Kyrgyzstan, Kazakhstan, Mongolia.
- Cycasis trochanterata** Kasparyan, 1976. Russia: **FE** (KH, PR, KU).
- ERIDOLIUS** Foerster, 1869 (*Anisoctenion* Foerster, 1869). Type species: *Exenterus pygmaeus* Holmgren, 1857. Number of species: World – 58, Palaearctic – 52, Russia – 43.
- Eridolius alacer** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Tenthredopsis nassata* L. (Tenthredinidae). Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia.
- Eridolius albilineatus** Kasparyan, 1990. Russia: **FE** (KU).
- Eridolius astenoctenus** Kasparyan, 1984. Russia: **ES** (BR, ZB).
- Eridolius aurifluus** (Haliday, 1838) [Tryphon]. Russia: **EP** (N, NW, C, E, S), **ES** (YA), **FE** (KH, KU). – Europe (WE, NE, EE), Kazakhstan, Mongolia.
- Eridolius basalis** (Stephens, 1835) [Tryphon]. Russia: **EP** (N, NW, C), **UR**, **ES** (IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Mongolia.
- Eridolius bimaculatus** (Holmgren, 1856) [Exenterus]. Russia: **EP** (N, NW, C, E, S), **ES** (KR, IR, BR, YA, ZB), **FE** (KH, KA). – Europe (WE, NE, EE), Georgia, Mongolia.
- Eridolius brevicornis** Kasparyan, 1985. Parasitoid of *Poly-nematus* sp. (Tenthredinidae) on *Polygonum bistorta* L. Russia: **EP** (N, NC), **UR**, **WS** (AL), **FE** (KH, KA). – Europe (WE, NE, EE), Abkhazia, Mongolia.
- Eridolius clauseni** (Kerrich, 1962) [Anisoctenion]. Russia: **FE** (KU). – Europe (? NE), China, Korean Peninsula, Japan.
- Eridolius consobrinus** (Holmgren, 1857) [Exenterus]. Russia: **EP** (N), **ES** (IR, YA), **FE** (KU, KA, CH). – Europe (WE, NE, EE).
- Eridolius curtisii** (Haliday, 1838) [Tryphon]. Parasitoid of *Hemichroa australis* Lep. (Tenthredinidae). Russia: **EP** (NW, C), **ES** (IR, ZB), **FE** (AM, KU). – Europe (WE, NE, SE, EE).
- Eridolius dahlbomi** (Holmgren, 1857) [Exenterus]. Russia: **EP** (N, NW), **ES** (KR), **FE** (KU). – Europe (WE, NE, EE).
- Eridolius deletus** (Thomson, 1883) [Cteniscus]. Russia: **EP** (N). – Europe (NE, EE).
- Eridolius dorsator** (Thunberg, 1822) [Ichneumon]. Parasitoid of *Nematus ribesii* Scop., etc. (Tenthredinidae). Russia: **EP** (N, NW, C), **WS** (TM), **ES** (KR, IR, YA, ZB), **FE** (SA, KA, MG). – Europe (WE, NE, SE, EE), Armenia, Turkey, Kazakhstan, Mongolia.
- Eridolius elegans** (Stephens, 1835) [Tryphon]. Russia: **EP** (NC, CR). – Europe (WE, NE, SE, EE), N Africa, Armenia.
- Eridolius ermolenkoi** Kasparyan, 1990. Parasitoid of *Pristiphora wesmaeli* Tischb. (Tenthredinidae) on *Larix*. Russia: **ES** (IR, ZB), **FE** (KU). – Europe (WE).
- Eridolius flavicoxator** Kasparyan, 1990. Russia: **EP** (N, NW). – Europe (WE, EE).
- Eridolius flavomaculatus** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C, NC), **WS** (TM), **ES** (KR, IR, BR, YA, ZB), **FE** (KH, PR, KU, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Kyrgyzstan, Mongolia, N America.
- Eridolius foveator** Kasparyan, 1990. Russia: **FE** (KA).
- Eridolius frontator** Kasparyan, 1985. Parasitoid of *Phyllocolpa plicaglauca* Kopelke (Tenthredinidae) on *Salix glauca*. Russia: **EP** (NW), **ES** (ZB). – Europe (NE).
- Eridolius gibbulus** (Holmgren, 1857) [Exenterus]. Russia: **EP** (NW, C), **FE** (SA, KU). – Europe (WE, NE, EE), Georgia.
- Eridolius gnathoxanthus** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Nematus luteus* Pz. (Tenthredinidae) on *Alnus glutinosa*. Russia: **EP** (N, NW, C, E, CR), **WS** (TM), **ES** (ZB), **FE** (PR, KA). – Europe (WE, NE, SE, EE), Georgia, Mongolia, N America.
- Eridolius hofferi** (Gregor, 1937) [Cteniscus]. Parasitoid of sawfly genera *Craesus* Leach, *Hemichroa* Steph., *Nematus* Pz. and *Pristiphora* Latr. (Tenthredinidae). Russia: **EP** (N, NW, C), **ES** (ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Kazakhstan.

- Eridolius kamikochi** (Mason, 1962) [Cteniscus]. Russia: **FE** (KH, SA, KU). – Japan.
- Eridolius lineiger** (Thomson, 1883) [Cteniscus]. Parasitoid of *Nematus melanaspis* Hartig and *N. pavidus* Lep. (Tenthredinidae) on Salix. Russia: **EP** (N, NW, E), **ES** (KR, ZB), **FE** (KA). – Europe (WE, NE, EE).
- Eridolius lionyx** Kasparyan, 1984. Russia: **ES** (BR), **FE** (MG). – Mongolia.
- Eridolius mongolicus** Kasparyan, 1985. Russia: **ES** (BR), **FE** (MG). – Mongolia.
- Eridolius orientalis** Kasparyan, 1990. Russia: **FE** (KH).
- Eridolius pachysoma** (Stephens, 1835) [Tryphon]. Parasitoid of *Craesus latipes* Vill. and *C. septentrionalis* L. (Tenthredinidae) on Alnus and Betula. Russia: **EP** (NW, E), **UR**. – Europe (WE, NE, SE, EE), Kazakhstan.
- Eridolius pallicoxator** Kasparyan, 1990. Russia: **FE** (KU).
- Eridolius paululus** Kasparyan, 1990. Russia: **FE** (PR).
- Eridolius pictus** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Pachynematus clitellatus* Lep., *P. extensorius* Nort. and *P. kirbyi* Dhlb. (Tenthredinidae) on Gramineae. Russia: **EP** (N, NW, E, NC), **WS** (AL), **ES** (KR, IR, BR, YA, ZB), **FE** (KH, PR, KU, KA, CH). – Europe (WE, NE, EE), Kazakhstan, Mongolia, USA.
- Eridolius pullus** (Holmgren, 1857) [Exenterus]. Russia: **EP** (N, NW), **ES** (KR, IR, BR, YA), **FE** (KH, KU, KA). – Europe (WE, NE, EE), Mongolia.
- Eridolius pygmaeus** (Holmgren, 1857) [Exenterus]. Parasitoid of *Pontania* spp. (Tenthredinidae) in galls on Salix. Russia: **EP** (N), **ES** (BR, ZB), **FE** (MG). – Europe (WE, NE, EE), Mongolia.
- Eridolius rubricoxa** Kasparyan, 1990. Russia: **FE** (PR). – Europe (WE, NE), Korean Peninsula.
- Eridolius rufilabris** (Holmgren, 1857) [Exenterus]. Russia: **EP** (N, NW, C), **ES** (IR, YA, ZB), **FE** (KH, KU). – Europe (WE, NE, EE), Mongolia.
- Eridolius rufonotatus** (Holmgren, 1857) [Exenterus]. Parasitoid of *Caliroa cerasi* L. (Tenthredinidae) on Cerasus. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Azerbaijan.
- Eridolius schiodtei** (Holmgren, 1857) [Exenterus]. Russia: **EP** (N), **WS** (TM, KM), **ES** (KR), **FE** (KA). – Europe (NE).
- Eridolius similis** (Holmgren, 1857) [Exenterus]. Russia: **EP** (N, NW, C), **ES** (BR, YA), **FE** (MG). – Europe (WE, NE, SE, EE), Azerbaijan, Kyrgyzstan.
- Eridolius taigensis** Kasparyan, 1985. Russia: **EP** (N, NW), **ES** (YA, ZB), **FE** (MG). – Europe (WE, NE).
- Eridolius tobiasi** Kasparyan, 1985. Parasitoid of *Stromboceros delicatulus* Fll. (Tenthredinidae) on ferns. Russia: **ES** (IR, YA). – Kazakhstan.
- Eridolius unguularis** Kasparyan, 1984. Russia: **EP** (N), **ES** (KR), **FE** (KA). – Europe (WE, EE), Mongolia, N America.
- Eridolius ussuriensis** Kasparyan, 1990. Russia: **FE** (KH, PR, SA, KU).
- Eridolius verzhtzkii** Kasparyan, 1990. Russia: **ES** (IR, ZB).
- EXCAVARUS** Davis, 1897. Type species: *Cteniscus annulipes* Cresson, 1868. Holarctic and Oriental genus. Number of species: World – 8, Palaearctic – 3, Russia – 2.
- Excavarus apiarius** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C), **UR**. – Europe (WE, NE, SE, EE).
- Excavarus sibiricola** Kasparyan, 1990. Russia: **WS** (AL), **ES** (KR), **FE** (PR, KU).
- EXENTERUS** Hartig, 1837. Type species: *Ichneumon marginatorius* Fabricius, 1793 (= *Ichneumon amiculatorius* Panzer, 1801). Predominantly Holarctic genus. Parasitoids of sawfly species from the family Diprionidae (Hymenoptera). Number of species: World – 29, Palaearctic – 10, Russia – 7.
- Exenterus abruptorius** (Thunberg, 1822) [Ichneumon]. Principal host *Neodiprion sertifer* Geoffroy. Russia: **EP** (N, NW, C, S). – Europe (WE, NE, SE, EE), Georgia, Turkey, Korean Peninsula, Japan, N America.
- Exenterus adspersus** Hartig, 1838. Parasitoid of *Diprion simile* Hartig, *Gilpinia pallida* Klug, *G. socia* Klug and *Neodiprion sertifer* Geoffr. on Pinus. Russia: **EP** (N, NW, C, E, S, NC), **ES** (ZB). – Europe (WE, NE, SE, EE), China, Korean Peninsula, Japan, N America.
- Exenterus amictorius** (Panzer, 1801) [Ichneumon]. Parasitoid of *Diprion simile* Hartig, *Gilpinia socia* Klug and *Neodiprion sertifer* Geoffr. on Pinus. Russia: **EP** (N, NW, C, E, S, NC), **ES** (KR). – Europe (WE, NE, SE, EE), Kazakhstan, N America.
- Exenterus confusus** Kerrich, 1952. Parasitoid of *Gilpinia hercyniae* Hartig and *G. polytoma* Hartig on Picea; *Neodiprion sertifer* Geoffr. on Pinus. Russia: **EP** (N, NW, C), **ES** (YA), **FE** (KH, PR). – Europe (WE, NE, EE), N America.
- Exenterus ictericus** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Monoctenus juniperi* L. on Juniperus. Russia: **EP** (N, NW, C, NC), **UR**. – Europe (WE, NE, SE, EE), Armenia, Turkey.
- Exenterus oriolus** Hartig, 1838. Parasitoid of *Diprion pini* L. and *D. simile* Hartig on Pinus. Russia: **EP** (NW, C, S). – Europe (WE, NE, SE, EE).
- Exenterus tricolor** Roman, 1913. Parasitoid of *Gilpinia abieticola* D.-T., *G. hercyniae* Hartig and *G. polytoma* Hartig on Picea. Russia: **EP** (N, NW), **FE** (KH, PR). – Europe (WE, NE, EE), N America.
- EXYSTON** Schiødte, 1839. Type species: *Ichneumon cinctulus* Gravenhorst, 1820 (= *Ichneumon sponsorius* Fabricius, 1781). Holarctic genus. Parasitoids of Tenthredinidae sawflies from the subfamily Nematinae: genera *Anoplonyx* Marlatt, *Pachynematus* Konow, *Phyllocolpa* Benson, *Pristiphora* Latr., etc.; also was reared from the family Argidae (Hymenoptera). Number of species: World – 33, Palaearctic – 15, Russia – 12.
- Exyston aculeolatus** Kasparyan, 1975. Russia: **ES** (BR, ZB). – Mongolia, China.

- Exyston albicinctus** (Gravenhorst, 1820) [Ichneumon]. Russia: **EP** (NW). – Europe (WE, NE, SE, EE).
- Exyston bursosus** Kasparyan, 1975. Russia: **ES** (IR, BR, YA, ZB), **FE** (KH, KA). – Mongolia.
- Exyston calcaratus** Thomson, 1883. Parasitoid of gall-forming *Phyllocolpa* Benson and *Pontania* Costa (Tenthredinidae) on *Salix*. Russia: **EP** (N, NW, C), **ES** (ZB). – Europe (WE, NE, SE, EE).
- Exyston clementi** (Kerrich, 1952) [Smicroplectrus]. Parasitoid of *Anoplonyx* sp., *Pachynematus* sp. and *Pristiphora* sp. (Tenthredinidae) – all from Larix. Russia: **ES** (IR, BR, ZB), **FE** (AM, KH). – Europe (WE, NE, EE), Korean Peninsula.
- Exyston genalis** Thomson, 1883. Parasitoid of *Pachynematus clitellatus* Lep. (Tenthredinidae) on Gramineae. Russia: **EP** (N, NW, C), **WS** (AL). – Europe (WE, NE, SE, EE), Kazakhstan.
- Remarks.** Record of this species from the Korean Peninsula was incorrect (Kasparyan, 2019c).
- Exyston pratorum** (Woldstedt, 1874) [Exenterus]. Recorded as parasitoid of *Arge ustulata* L. (Argidae). Russia: **EP** (N, NW, C, NC), **WS** (KM). – Europe (WE, NE, SE, EE), Georgia, Iran.
- Exyston salebroon** Kasparyan, 1975. Russia: **EP** (N, NW).
- Exyston sibiricus** (Kerrich, 1952) [Smicroplectrus]. Russia: **ES** (KR, IR, BR, YA, ZB), **FE** (KH, PR, SA, KU, KA). – Mongolia, Korean Peninsula, Japan.
- Exyston spinulosus** Mason, 1959. Russia: **FE** (KA). – N America.
- Exyston sponsorius** (Fabricius, 1781) [Ichneumon]. Russia: **EP** (N, NW, C, E, NC), **WS** (KM), **ES** (IR, BR, YA, ZB), **FE** (KH, PR, KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kyrgyzstan, Kazakhstan, Mongolia.
- Exyston subnitidus** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (E, S, NC). – Europe (WE, SE, EE), Azerbaijan, Turkey.
- KRISTOTOMUS** Mason, 1962. Type species: *Tryphon ridibundus* Gravenhorst, 1829. Palaearctic and Oriental genus. Parasitoids of sawflies from the family Tenthredinidae (Hymenoptera). Number of species: World – 39, Palaearctic – 19, Russia – 13.
- Kristotomus buccatus** Kasparyan, 1976. Russia: **FE** (KH, PR, SA, KU). – China (SE).
- Kristotomus ctenonyx** Kasparyan, 1976. Russia: **FE** (PR).
- Kristotomus foveolatus** Kasparyan, 1976. Russia: **FE** (PR). – China (SE), Philippines.
- Kristotomus guptai** Mason, 1968 (*Kristotomus abdominalis* Kasparyan, 1976). Russia: **FE** (KU). – Korean Peninsula, India.
- Kristotomus kamikochi** Mason, 1962. Russia: **FE** (KH, PR, SA). – China, Japan.
- Kristotomus laetus** (Gravenhorst, 1829) [Mesoleptus]. Parasitoid of tenthredinids *Monsoma pulveratum* Retz. (Allantinae), *Nematus ribesii* Scop. (Nematinae) and *Aneugmenus padi* L. (Selandriinae). Russia: **EP** (N, NW, C, E, NC), **ES** (IR, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Iran, Mongolia.
- Kristotomus laticeps** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (NW, C, S, NC), **UR**. – Europe (WE, NE, SE, EE), Azerbaijan, Mongolia.
- Kristotomus planiceps** Mason, 1962. Russia: **FE** (PR). – Japan.
- Kristotomus pumilio** (Holmgren, 1857) [Exenterus]. Russia: **EP** (NW, C, E). – Europe (WE, NE, SE, EE), Turkey.
- Kristotomus ridibundus** (Gravenhorst, 1829) [Tryphon]. Parasitoid of tenthredinid *Pachyprotasis rapae* L. (Tenthredininae). Russia: **EP** (NW, C, E, NC), **ES** (IR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, EE), Kazakhstan, China, Korean Peninsula, Japan.
- Kristotomus tenuis** (Kerrich, 1952) [Anisoctenion]. Russia: **FE** (KU). – China, Myanmar.
- Kristotomus triangulatorius** (Gravenhorst, 1829) [Tryphon]. Parasitoid of tenthredinids *Apethimus* spp. (Allantinae). Russia: **EP** (N, C, E). – Europe (WE, NE, SE, EE), Azerbaijan, China.
- Kristotomus yakui** (Uchida, 1932) [Acrotomus]. Russia: **FE** (PR, KU). – Japan.
- ORTHODOLIUS** Kasparyan, 2019. Type species: *Cteniscus pectoralis* Hellén, 1951. Palaearctic genus. Number of species: World, Palaearctic and Russia – 2.
- Orthodolius amurensis** (Kasparyan, 1986) [Orthomiscus]. Russia: **FE** (KH).
- Orthodolius pectoralis** (Hellén, 1951) [Cteniscus]. Gregarious parasitoid of *Trichiosoma tibiale* Steph. and *T. lucorum* L. (Cimbicidae). Russia: **EP** (N, NW), **ES** (IR, ZB), **FE** (KH, PR, SA, KU). – Europe (NE, EE).
- ORTHOMISCUS** Mason, 1955. Type species: *Orthomiscus platyura* Mason, 1955. Holarctic genus. Number of species: World – 5, Palaearctic – 4, Russia – 3.
- Orthomiscus eridolius** Kasparyan, 1990. Russia: **ES** (KR), **FE** (KH, PR).
- Orthomiscus medusae** Kasparyan, 1976. Russia: **FE** (PR, KU). – Korean Peninsula, Japan.
- Orthomiscus unicinctus** (Holmgren, 1857) [Exenterus]. Russia: **EP** (NW, C, NC), **FE** (KH, PR, SA). – Europe (WE, NE, EE), Korean Peninsula, Japan, N America.
- SMICROPLECTRUS** Thomson, 1883. Type species: *Exenterus jucundus* Holmgren, 1857. Holarctic genus. Parasitoids of Nematinae (Tenthredinidae). Number of species: World – 32, Palaearctic – 24, Russia – 22.
- Smicroplectrus acauliscoon** Kasparyan, 1976. Russia: **EP** (C), **WS** (KM), **ES** (IR YA), **FE** (KA, MG). – N America.
- Smicroplectrus actenon** Kasparyan, 1976. Parasitoid of *Pachynematus imperfectus* Zaddach et Brischke. Russia: **ES** (IR, BR), **FE** (KH, MG). – Korean Peninsula.

- Smicroplectrus bohemani** (Holmgren, 1857) [Exenterus]. Parasitoid of *Nematus melanaspis* Hartig and *N. pavidus* Lep. Russia: **EP** (N, NW, C), **UR**, **ES** (ZB), **FE** (PR, KA, MG). – Europe (WE, NE, EE), Kazakhstan, Mongolia.
- Smicroplectrus borealis** Kasparyan, 1984. Russia: **EP** (N, NW), **ES** (KR, ZB), **FE** (KH, KA). – N America.
- Smicroplectrus bucculatus** Kasparyan, 1976. Russia: **ES** (ZB), **FE** (MG). – Europe (WE, EE), Kazakhstan.
- Smicroplectrus cornutus** Kasparyan, 1990. Russia: **FE** (PR, KA, MG). – Kazakhstan.
- Smicroplectrus costulatus** Thomson, 1883. Russia: **EP** (N, NW), **ES** (KR, ZB), **FE** (KH, KA). – Europe (WE, EE), Mongolia, N America.
- Smicroplectrus erosus** (Holmgren, 1857) [Exenterus]. Russia: **EP** (NW, C). – Europe (WE, NE, SE, EE), Iran.
- Smicroplectrus excisus** Kerrich, 1952. Russia: **EP** (N, C). – Europe (WE, NE, EE).
- Smicroplectrus hamatus** Kasparyan, 1977. Russia: **ES** (BR, ZB), **FE** (KH)
- Smicroplectrus heinrichi** Kerrich, 1952. Parasitoid of *Amauronematus* sp. Russia: **EP** (N, NW), **ES** (IR, YA), **FE** (KA). – Europe (WE, NE, EE).
- Smicroplectrus inversus** Kasparyan, 1976. Russia: **ES** (IR, YA, ZB), **FE** (KA).
- Smicroplectrus irroratus** Kasparyan, 1990. Russia: **FE** (KH, PR).
- Smicroplectrus jucundus** (Holmgren, 1857) [Exenterus]. Parasitoid of *Amauronematus amplius* Konow. Russia: **EP** (N, C, E), **ES** (IR, YA, ZB). – Europe (WE, NE, EE), Mongolia, N America.
- Smicroplectrus modestus** Kasparyan, 1976. Russia: **FE** (KU).
- Smicroplectrus nigricornis** Kasparyan, 1976. Parasitoid of *Amauronematus viduatus* Zett. Russia: **EP** (NW, C), **ES** (IR, YA), **FE** (KA). – Europe (WE, EE).
- Smicroplectrus palliatus** Kasparyan, 1977. Russia: **ES** (ZB).
- Smicroplectrus parvipecten** Kasparyan, 1990. Russia: **FE** (KA).
- Smicroplectrus paulipecten** Kasparyan, 1990. Russia: **FE** (PR).
- Smicroplectrus pedicellatus** Kasparyan, 2017. Russia: **FE** (KH). – Korean Peninsula.
- Smicroplectrus perkinsorum** Kerrich, 1952. Russia: **EP** (N, NW, NC), **ES** (IR, ZB), **FE** (KH, KA). – Europe (WE, NE, EE), Kazakhstan.
- Smicroplectrus quinquecinctus** (Gravenhorst, 1820) [Ichneumon]. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE), Mongolia.

Tribe IDIOGRAMMATINI

Highly specialised tribe with a single Holarctic genus. Parasitoids of sawflies of the family Xyelidae (Hymenoptera) whose larvae feed in male staminate cones on *Pinus*. Number of taxa: see data for the genus.

IDIOGRAMMA Foerster, 1869. Type species: *Idiogramma euryops* Foerster, 1888. Holarctic genus. Number of species: World – 7, Palaearctic and Russia – 3.

Idiogramma alysiina (Thomson, 1888) [Macrochasmus]. Russia: **EP** (NW). – Europe (WE, NE, EE).

Idiogramma eurum Kasparyan, 1992. Russia: **FE** (PR).

Idiogramma euryops Foerster, 1888. Russia: **EP** (N, NW, C), **FE** (KH). – Europe (WE, NE, EE), N America.

Tribe OEDEMOPSINI

Worldwide tribe. Most hosts records are from microlepidopteran larvae. Number of taxa: World – 12 genera and about 90 species, Palaearctic – 6/32, Russia – 6/25.

ATOPOTROPHOS Cushman, 1940. Type species: *Atopognathus collaris* Cushman, 1919 (= *Mesoleptus* ? *bucephalus* Cresson, 1868). Predominantly Holarctic and Neotropical genus. Number of species: World – 9, Palaearctic – 4, Russia – 2.

Atopotrophos mandibularis Kasparyan, 1975. Russia: **FE** (KH, PR, SA, KU).

Atopotrophos victorovi Kasparyan, 1975. Russia: **FE** (KH, PR, KU).

CLADEUTES Townes, 1969. Type species: *Cladeutes lepidus* Townes, 1969 (= *Perilissus discedens* Woldstedt, 1874). Palaearctic genus. Number of species: World, Palaearctic and Russia – 2.

Cladeutes discedens (Woldstedt, 1874) [Perilissus] (*Eclytus haematothorax* Strobl, 1903; *Cladeutes lepidus* Townes, 1969). Parasitoid of lepidopteran *Ypsolopha nemorella* L. (Ypsolophidae). Russia: **EP** (N, NW, C), **ES** (BR), **FE** (KH, PR, SA). – Europe (WE, NE, EE), Turkey, China, Japan.

Cladeutes minor Kasparyan, 1994. Russia: **FE** (KH, PR, KU).

HERCUS Townes, 1969. Type species: *Orthocentrus pleuralis* Provancher, 1875. Holarctic and Neotropical genus. Number of species: World – 7, Palaearctic and Russia – 2.

Hercus fontinalis (Holmgren, 1857) [Eclytus] (*Bassus frontalis* Zetterstedt, 1838, nomen oblitum). Parasitoid of lepidopterans from the genera *Acleris* Hbn., *Ancylis* Hbn., *Argyrotaenia* Steph., *Choristoneura* Lederer, *Epinotia* Hbn., *Griselda* Hein., *Tortrix* L. and *Zeiraphera* Tr. (Tortricidae). Russia: **EP** (N, NW, NC), **UR**, **ES** (IR, BR, ZB), **FE** (KH, KU). – Europe (WE, NE, SE, EE), N America.

Hercus tibialis Kasparyan, 1994. Russia: **FE** (PR).

NELIOPISTHUS Thomson, 1883. Type species: *Phytodiaetus elegans* Ruthe, 1855. Predominantly Holarctic genus with several species recorded in the Afrotropical and Neotropical regions. Number of species: World – 18, Palaearctic – 7, Russia – 5.

Neliopisthus clypeator Kasparyan, 1994. Russia: **FE** (PR).

Neliopisthus elegans (Ruthe, 1855) [Phytodiaetus] (*Oedemopsis ops* Morley, 1908). Parasitoid of lepidopterans *Coleophora* spp. (Coleophoridae), *Mirificarma mulinella* Z. and *Recurvaria leucatella* Cl. (Gelechiidae). Russia: **EP** (NW, S), **WS** (AL), **ES** (ZB), **FE** (AM, KH, PR, KU). – Europe (WE, NE, SE, EE), Caucasus, Mongolia, China, Japan, N America.

Neliopisthus minutus Kasparyan, 1981. Russia: **FE** (PR).

Neliopisthus nigricornis Kasparyan, 1994. Russia: **FE** (PR).

Neliopisthus pectoralis Kasparyan, 1994. Russia: **FE** (KH, PR).

OEDEMOPSIS Tschek, 1869. Type species: *Oedemopsis rogenhoferi* Tschek, 1869 (= *Tryphon scabriculus* Gravenhorst, 1829). Predominantly Holarctic and Neotropical genus. Number of species: World – 18, Palaearctic and Russia – 4.

Oedemopsis admirabilis (Kasparyan, 1977). Russia: **FE** (KH, PR).

Oedemopsis angusta (Momoi, 1970). Russia: **FE** (KH, PR, KU). – Japan.

Oedemopsis interstitis Kasparyan, 1994. Russia: **FE** (PR).

Oedemopsis scabricula (Gravenhorst, 1829) [Tryphon] (*Oedemopsis rodenhoferi* Tschek, 1869; *O. limbata* Thomson, 1883; *Hybophanes scabriculus rufidorsalis* Uchida, 1932; *H. ops meridionator* Aubert, 1961). Parasitoid of various lepidopterans from the genera *Acleris*, *Aleima*, *Ancylys*, *Archips*, *Choristoneura*, *Clepsis*, *Croesia*, *Ditula*, *Epinotia*, *Epiphyas*, *Pandemis*, *Ptycholoma*, *Rhyacionia*, *Selania*, *Spilonota* and *Tortrix viridana* L. (Tortricidae), as well as *Blastobasis lignea* Wals. (Blastobasidae). Russia: **EP** (N, NW, C, S, NC, CR), **ES** (IR, YA, ZB), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan, China, Japan, N America.

THYMARIS Foerster, 1869. Type species: *Thymaris pulchricornis* Brischke, 1880 (= *Mesoleptus tener* Gravenhorst, 1829). Parasitoids of microlepidopterans from the families Tineidae and Pyralidae. Holarctic, Neotropical and Oriental genus. Number of species: World – 26, Palaearctic – 14, Russia – 10.

Thymaris caudatus Kasparyan, 1993. Russia: **FE** (PR).

Thymaris clypeator Kasparyan, 1993. Russia: **FE** (KH, PR).

Thymaris collaris (Thomson, 1883) [Thymarus]. Russia: **EP** (N, NW), **ES** (ZB). – Europe (WE, NE, EE).

Thymaris levigatus Kasparyan, 1993. Russia: **FE** (KH, PR).

Thymaris longicornis Kasparyan, 1993. Russia: **FE** (PR).

Thymaris maurus Kasparyan, 1993. Russia: **FE** (KH, PR).

Thymaris niger (Taschenberg, 1865) [Hemiteles] (*Thymaris fenestralis* Morley, 1908; *Th. modestus* Schmiedeknecht, 1912; *Th. pulchricornis nigrifemur* Kiss, 1924; *Th. simplicicornis* Kiss, 1924; *Th. tristrigator* Aubert, 1960). Parasitoid of *Triaxomera parasitella* Hbn. (Tineidae) and *Perinephela lancealis* Den. et Schiff. (Pyralidae).

Russia: **EP** (N, E, S), **FE** (KH, PR). – Europe (WE, NE, SE, EE), Georgia.

Thymaris srikem Fitton et Ficken, 1990. Russia: **EP** (NW, CR). – Europe (WE, NE, EE).

Thymaris tener (Gravenhorst, 1829) [Mesoleptus] (*Hemiteles contaminatus* Gravenhorst, 1829; *Thymaris pulchricornis* Brischke, 1880). Russia: **EP** (N, C, NC), **UR**, **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan.

Thymaris ussuriensis Kasparyan, 1993. Russia: **FE** (KH, PR).

Tribe PHYTODIETINI

Worldwide tribe. Larval parasitoids of Lepidoptera. Number of taxa: World – 2 genera and about 450 species, Palaearctic – 2/125, Russia – 2/63.

NETELIA Gray, 1860 (*Paniscus* auct.). Type species: *Paniscus inquinatus* Gravenhorst, 1829 (= *Ichneumon vinulae* Scopoli, 1763). Parasitoids of openly living, usually naked caterpillars of the families Noctuidae (about 100 species), Geometridae (35 species), Notodontidae (15 species), Sphingidae (6 species), etc. Adults of many parasitoids species are nocturnal. The genus is widely distributed in desert and semi-desert territories where most other tryphonines are rare. A very large genus comprising 12 subgenera: *Amebachia* Uchida, 1928 (5 species in China and Japan); *Apatagium* Enderline (16 species in China, Japan, SE Asia and India); *Bessobates* Townes, Townes et Gupta, 1961 (23 species in the Holarctic and Oriental regions); *Longiterebrates* Kaur et Jonathan, 1976 (7 species in India and the Korean Peninsula); *Monomacrodon* Cushman, 1934 (2 species in China, SE Asia and India); *Netelia* s. str. (190 species, worldwide); *Parabates* Foerster, 1869 (6 species, mainly in the Holarctic region); *Paropheltes* Cameron, 1907 (46 species, almost worldwide); *Prosthodocis* Enderlein, 1912 (14 species, almost worldwide); *Protonetelia* Konishi, 1986 (2 species in the Australasian and Oriental regions); *Toxilis* Townes, 1939 (6 species in the Nearctic region) and *Toxochiloides* Tolkanitz, 1974 (11 species, almost worldwide). The fauna of Russia was revised by Kasparyan and Tolkanitz (1999). Number of species: World – 330, Palaearctic – about 100, Russia – 38.

Netelia (Bessobates) comitor Tolkanitz, 1974. Russia: **FE** (PR, KU). – Japan.

Netelia (Bessobates) cristata (Thomson, 1888) [Parabatus]. Parasitoid of various lepidopterans from the families Geometridae, Noctuidae, Nolidae (*Bena prasinana* L.), etc. Russia: **EP** (N, NW, C, E, S, NC), **UR**, **WS** (TK), **ES** (KR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Iran, Kyrgyzstan, Kazakhstan, China, Korean Peninsula, Japan.

Netelia (Bessobates) frenata Tolkanitz, 1981. Russia: **FE** (PR, KU). – Japan.

- Netelia (Bessobates) gansuanus** (Kokujev, 1906) [Parabatus]. Russia: **FE** (PR, KU). – Tajikistan, Kyrgyzstan, Kazakhstan, China, Japan.
- Netelia (Bessobates) latungula** (Thomson, 1888) [Parabatus]. Parasitoid of lepidopterans from the genera *Cabera* Tr., *Eupithecia* Curt., *Ligdia* Guen., *Operophtera* Hbn. (Geometridae), etc. Russia: **EP** (N, C, NC, CR), **UR**, **WS** (OM), **ES** (KR, IR), **FE** (KH, PR, KU). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, Kyrgyzstan, Kazakhstan, China, Korean Peninsula, Japan, N America.
- Netelia (Bessobates) virgata** (Geoffroy, 1785). Parasitoid of lepidopterans from the genera *Biston*, *Bupalus*, *Cabera*, *Eupithecia* and *Odontopera* (Geometridae), *Cosmia exigua* Butler and *C. trapezina* L. (Noctuidae), etc. Russia: **EP** (N, C, NC, CR), **WS** (TK), **ES** (IR, BR), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Iran, China, Korean Peninsula, Japan, India.
- Netelia (Netelia) atra** Tolkantitz, 1999. Russia: **FE** (PR).
- Netelia (Netelia) dilatata** (Thomson, 1888) [Paniscus]. Russia: **EP** (C, E, S, NC, CR), **WS** (TK, AL), **ES** (KR, ZB), **FE** (PR). – Europe (WE, SE, EE), N Africa, Caucasus, Turkey, Iran, Central Asia, Kazakhstan, China.
- Netelia (Netelia) exareolata** (Meyer, 1933) [Paniscus]. Russia: **FE** (PR).
- Netelia (Netelia) fulvator** Delrio, 1971. Parasitoid of *Acronicta rumicis* L., *Clostera anachoreta* Den. et Schiff., *C. curtula* L., *Shargacucullia verbasci* L. (Noctuidae) and *Smerinthus ocellatus* L. (Sphingidae). Russia: **EP** (CR), **FE** (PR, KU). – Europe (WE, SE, EE), N Africa, Armenia, Japan, India.
- Netelia (Netelia) fuscicornis** (Holmgren, 1860) [Paniscus]. Parasitoid of *Acronicta* spp., *Agrotis exclamatoris* L., *A. segetum* Den. et Schiff., *Anarta* sp., *Cucullia* sp., *Leucania* sp. (Noctuidae), etc. Russia: **EP** (N, C, E, S, NC, CR), **UR**, **WS** (OM, TK, AL), **ES** (KR, IR, ZB), **FE** (KH, PR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Iran, Afghanistan, Pakistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China, India, Nepal, Bhutan.
- Netelia (Netelia) infractor** Delrio, 1971. Parasitoid of *Acronicta psi* L. and *Ipimorpha subtusa* Den. et Schiff. (Noctuidae). Russia: **EP** (C, CR), **UR**, **FE** (PR, SA). – Europe (WE, SE, EE), Georgia, Tajikistan, Japan.
- Netelia (Netelia) melanura** (Thomson, 1888) [Paniscus] (*Paniscus testaceus nigronotatus* Uchida, 1928). Parasitoid of *Acronicta tridens* Den. et Schiff. and *Drymonia ruficornis* Hufn. (Noctuidae). Russia: **EP** (NW, C, E, NC, CR), **ES** (KR), **FE** (PR, SA, KU). – Europe (WE, NE, SE, EE), N Africa, Canary Is, Georgia, Turkey, Uzbekistan, Japan. **Remarks.** Considered by Tolkantitz (Kasparyan, Tolkantitz, 1999) as a junior synonym of *Paniscus testaceus* Gravenhorst, 1829.
- Netelia (Netelia) ocellaris** (Thomson, 1888) [Paniscus]. Parasitoid of lepidopterans from the genera *Cossus* (Cossidae), *Achaea*, *Acronicta*, *Agrapha*, *Agrotis*, *Anarta*, *Arcte*, *Clostera*, *Coenophila*, *Cucullia*, *Drymonia*, *Helicoverpa*, *Lacanobia*, *Mamestra* and *Pseudaletia* (Noctuidae), *Cerura*, *Harpyia* (Notodontidae); also *Lycia hirtaria* Clerck, *Phigalia pilosaria* Den. et Schiff. (Geometridae), *Dendrolimus pini* L., *D. punctatus* Walk., *D. spectabilis* Butler (Lasiocampidae), *Orgyia antiqua* L. (Lymantriidae), *Nomis albopedalis* Motsch. (Pyrilidae) and *Smerinthus ocellatus* L. (Sphingidae). Russia: **EP** (NW, C, E, NC, CR), **UR**, **ES** (IR, BR), **FE** (KH, PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Cyprus, Iran, Afghanistan, Pakistan, China, Korean Peninsula, Japan, India, Sri Lanka, Bhutan.
- Netelia (Netelia) opacula** (Thomson, 1888) [Paniscus]. Parasitoid of *Agrotis segetum* Den. et Schiff., *Anarta myrtili* L., *Drymonia ruficornis* Hufn., *Heliothis virescens* Hufn. (Noctuidae), *Bena prasinana* L. (Nolidae), *Cerura vinula* L. (Notodontidae) and *Loxostege sticticalis* L. (Pyrilidae). Russia: **EP** (NW, C, E, S, NC, CR), **UR**, **WS** (OM, AL), **ES** (KR, IR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Afghanistan, Pakistan, Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China, Korean Peninsula, Japan, India. **Remarks.** Considered by Tolkantitz (Kasparyan, Tolkantitz, 1999) as a junior synonym of *Paniscus testaceus* Gravenhorst, 1829.
- Netelia (Netelia) paramelanura** Tolkantitz, 1981. Parasitoid of *Bena prasinana* L. (Nolidae). Russia: **EP** (C, NC, CR), **UR**, **ES** (ZB), **FE** (PR, KU). – Europe (WE, SE, EE), Caucasus, Afghanistan, Kazakhstan, Korean Peninsula, Japan.
- Netelia (Netelia) praevalvator** Delrio, 1971. Russia: **EP** (CR). – Europe (SE, EE), N Africa, Armenia, Turkey, Israel.
- Netelia (Netelia) rapida** Tolkantitz, 1981. Russia: **FE** (PR, KU). – Japan.
- Netelia (Netelia) savchenkoi** Tolkantitz, 1981. Russia: **FE** (PR, SA, KU). – Japan.
- Netelia (Netelia) silantjewi** (Kokujev, 1899) [Paniscus] (*Paniscus minor* Szépligeti, 1899; *P. rossicus* Kokujev, 1899). Parasitoid of *Euplagia quadripunctaria* Poda (Arctiidae), *Lycia hirtaria* Clerck, *Phigalia pilosaria* Den. et Schiff. (Geometridae) and *Mamestra brassicae* L. (Noctuidae). Russia: **EP** (C, E, S, NC), **ES** (KR, ZB), **FE** (PR, KU). – Europe (WE, SE, EE), Georgia, Azerbaijan, Turkey, Cyprus, Afghanistan, Central Asia, Kazakhstan, Japan, India.
- Netelia (Netelia) testacea** (Gravenhorst, 1829) [Paniscus]. Recorded as parasitoid of about 50 lepidopteran species from the families Noctuidae (30 species), Geometridae (3), Lasiocampidae (3), Lymantriidae (1), Notodontidae (7), Sphingidae (4), etc. Russia: **EP** (N, NW, C, E, S, NC), **ES** (IR), **FE** (AM, PR, SA, KU). – Europe (WE, NE, SE, EE), N Africa, Armenia, Azerbaijan, Turkey, Cyprus, Jordan, Israel, Iran, Central Asia, Kazakhstan,

- Mongolia, China, Korean Peninsula, Japan, India, SE Asia, S America, Fiji, Australia.
- Netelia (Netelia) thoracicus** Woldstedt, 1880. Russia: **EP** (E, S), **FE** (KU). – N Africa, Armenia, Azerbaijan, Turkey, Israel, Iran, Afghanistan, Central Asia, Kazakhstan, China, Japan, India.
- Netelia (Netelia) vegeta** Tolkanitz, 1981. Russia: **FE** (PR). – Japan.
- Netelia (Netelia) vinulae** Scopoli, 1763. Parasitoid of various Lepidoptera (over 30 species from the families Noctuidae, Notodontidae, etc.). Russia: **EP** (N, NW, C, E, S), **UR**, **WS** (TM), **FE** (KU). – Europe (WE, NE, SE, EE), Azerbaijan, Israel, Iran, Afghanistan, Kazakhstan, China, Japan, India.
- Netelia (Parabates) nigricarpus** (Thomson, 1888). Parasitoid of *Ancylis gemiana* Donovan. (Tortricidae). Russia: **EP** (N, C), **ES** (IR), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Japan.
- Netelia (Paropheltes) arcanus** Tolkanitz, 1980. Russia: **ES** (TU). – Tajikistan.
- Netelia (Paropheltes) caucasicus** (Kokujev, 1899) [Paniscus] (*Paniscus nigrithorax* Habermehl, 1922; *P. nigrus* Uchida, 1928; *P. caucasicus nigrocincta* Ozols, 1959). Russia: **EP** (C), **UR**, **ES** (TU, KR, ZB), **FE** (AM, KH, PR, SA, KU). – Europe (WE, NE, EE), Georgia, Armenia, Kazakhstan, China, Japan.
- Netelia (Paropheltes) contiguator** Delrio, 1975. Russia: **ES** (ZB), **FE** (KA). – Europe (WE, NE, EE).
- Netelia (Paropheltes) elevator** Aubert, 1971. Russia: **EP** (CR). – Europe (WE, SE, EE), Morocco, Armenia, Turkey, Israel.
- Netelia (Paropheltes) ermolenkoi** Tolkanitz, 1981. Russia: **FE** (PR, KU).
- Netelia (Paropheltes) incognitor** Delrio, 1971. Russia: **EP** (NC), **UR**, **ES** (TU). – Europe (WE, SE, EE), Azerbaijan, Tajikistan, Kyrgyzstan, Kazakhstan.
- Netelia (Paropheltes) longipes** (Brauns, 1889) [Paniscus] (*Paniscus catagraphus* Kokujev, 1915; *P. ignobilis* Kokujev, 1915). Russia: **EP** (C), **ES** (ZB). – Europe (WE, SE, EE), Tajikistan, Kyrgyzstan, Kazakhstan, China.
- Netelia (Paropheltes) millieratae** (Kriechbaumer, 1897) [Parabatus]. Parasitoid of *Caenopelte millerata* Staud. (Geometridae). Russia: **EP** (CR). – Europe (WE, SE, EE), N Africa.
- Netelia (Paropheltes) parvula** (Meyer, 1927) [Paniscus]. Russia: **EP** (C, E, S, NC). – Europe (EE), N Africa, Turkey, Central Asia.
- Netelia (Paropheltes) tarsata** (Brischke, 1880) [Paniscus]. Parasitoid of lepidopterans *Eupithecia* spp. (13 species), *Anticollis sparsata* Tr., *Electrophaes corylata* Thunb. (Geometridae), *Drepana falcata* L. and *Watsonalla cultraria* F. (Drepanidae). Russia: **EP** (NW, C, CR), **UR**, **ES** (IR, ZB), **FE** (AM, PR). – Europe (WE, NE, EE), Georgia, Armenia, Turkey, Iran, China, Korean Peninsula, Japan, N America.
- Netelia (Paropheltes) terebrator** (Ulbricht, 1922) [Parabatus]. Parasitoid of *Anticollis sparsata* Tr. (Geometridae). Russia: **ES** (ZB). – Europe (WE, EE), Turkey, Japan.
- Netelia (Paropheltes) thomsonii** (Brauns, 1889) [Paniscus] (*Paniscus ineditus* Kokujev, 1899). Parasitoid of *Eupithecia innotata* Hufn., *E. puillata* Den. et Schiff., *Horisme corticata* Tr. (Geometridae) and *Drymonia ruficornis* Hufn. (Notodontidae). Russia: **EP** (C, CR), **UR**, **ES** (IR, ZB), **FE** (AM, SA, KA). – Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Israel, Iran, Kazakhstan, Mongolia, China, Korean Peninsula, India.
- Netelia (Paropheltes) turanica** (Kokujev, 1899) [Paniscus]. Russia: **ES** (TU). – Armenia, Azerbaijan, Turkey, Iran, Central Asia, Kazakhstan, China.
- PHYTODIETUS** Gravenhorst, 1829. Type species: *Phytodietus astutus* Gravenhorst, 1829. The hosts are predominantly naked semi-concealed caterpillars from the families Tortricidae, Pyralidae, Gelechiidae, Depressariidae, etc. Almost worldwide genus subdivided into four subgenera. Number of species: World – about 120, Palaearctic – 33, Russia – 25.
- Phytodietus (Neuchorus) albitarsis** Kasparyan, 1993. Russia: **FE** (PR). – Europe (EE).
- Phytodietus (Neuchorus) elongator** Aubert, 1963. Parasitoid of *Pempelia formosa* Haw. (Pyralidae). Russia: **EP** (N, NC), **ES** (ZB), **FE** (AM, PR). – Europe (WE, SE, EE).
- Phytodietus (Neuchorus) kunashiricus** Tolkanitz, 1976. Russia: **ES** (ZB), **FE** (PR, KU).
- Phytodietus (Neuchorus) longicauda** Uchida, 1931. Russia: **FE** (KU). – China, Korean Peninsula, Japan, India, Myanmar.
- Phytodietus (Neuchorus) maculator** Kasparyan et Shaw, 2008. Russia: **UR**. – Europe (WE).
- Phytodietus (Neuchorus) obscurus** Ratzeburg, 1852 (*Phytodietus rufipes* Holmgren, 1860). Parasitoid of *Pyrausta sticticalis* L. (Pyraustidae). Russia: **EP** (C, E, S, NC), **UR**, **WS** (KM, AL), **ES** (YA, ZB), **FE** (AM, KU). – Europe (WE, NE, SE, EE), Georgia, Kazakhstan, Mongolia, N America.
- Phytodietus (Neuchorus) tauricus** Kasparyan et Shaw, 2008. Russia: **EP** (NC, CR).
- Phytodietus (Phytodietus) alpinator** Aubert, 1969. Parasitoid of *Exapate duratella* Heyd. and *Zeiraphera griseana* Hbn. (Tortricidae). Russia: **EP** (NW), **WS** (TM), **ES** (IR). – Europe (WE, EE).
- Phytodietus (Phytodietus) antennator** Kasparyan, 1993. Russia: **ES** (ZB), **FE** (AM, KH, PR). – Europe (EE).
- Phytodietus (Phytodietus) arcuatorius** (Thunberg, 1822) [Ichneumon] (*Phytodietus crassitarsis* Thomson, 1877). Parasitoid of *Choristoneura murinana* Hbn., *Grapholita molesta* Busck, *Sparganothis pilleriana* Den. et Schiff. and *Zeiraphera rufimitrana* H.-Sch. (Tortricidae). Russia: **EP** (NW), **ES** (IR, BR, ZB), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Mongolia, China.

- Phytodietus (Phytodietus) basalis** Kasparyan, 1993. Russia: **EP** (N, NW, C, CR), **FE** (KH, PR, KU). – Europe (WE, NE, EE), Georgia, Armenia.
- Phytodietus (Phytodietus) dauricus** Kasparyan, 2016. Russia: **ES** (ZB).
- Phytodietus (Phytodietus) continuus** Thomson, 1877 (*Phytodietus obscurus* Desvignes, 1856, nom. praeocc., nec Ratzeburg, 1852). Parasitoid of *Choristoneura murinana* Hbn. (Tortricidae). Russia: **EP** (C, NC), **WS** (AL). – Europe (WE, NE, SE, EE), Abkhazia, Armenia.
- Phytodietus (Phytodietus) femoralis** Holmgren, 1860. Parasitoid of *Zeiraphera rufimitrana* H.-Sch. (Tortricidae). Russia: **EP** (C), **ES** (KR), **FE** (KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE).
- Phytodietus (Phytodietus) gelitorius** (Thunberg, 1822) [Ichneumon] (*Phytodietus coryphaeus* Gravenhorst, 1829; *Ph. carinatus* Hellén, 1915; *Lathrolestes coxator* Aubert, 1963). Parasitoid of lepidopterans from the genera *Acleris*, *Epinotia*, *Exapate*, *Fulvoclysia*, *Loxostege*, *Ptycholomoides* and *Tortrix* (Tortricidae) and *Rhizedra lutosus* Hbn. (Noctuidae). Russia: **EP** (N, NW, C, S), **FE** (KA). – Europe (WE, NE, SE, EE), Mongolia, India.
- Phytodietus (Phytodietus) geniculatus** Thomson, 1877. Parasitoid of lepidopterans from the genera *Acleris*, *Apotomis*, *Archips*, *Epinotia*, *Pandemis*, *Tortrix*, *Zeiraphera* (Tortricidae) and *Agonopterix* (Geometridae). Russia: **EP** (N, NW, C, S, NC, CR), **ES** (IR, BR, YA, ZB), **FE** (AM, KH, PR, SA, KA, MG). – Europe (WE, NE, SE, EE), Caucasus, Mongolia.
- Phytodietus (Phytodietus) griseanae** Kerrich, 1962. Parasitoid of *Exapate duratella* Heyd. and *Zeiraphera griseana* Hbn. (Tortricidae). Russia: **ES** (BR), **FE** (KH, MG). – Europe (WE, SE, EE), Turkey, Mongolia, Korean Peninsula.
- Phytodietus (Phytodietus) incognitus** Tolkanitz, 1973. Russia: **EP** (N), **ES** (YA), **FE** (KH, PR).
- Phytodietus (Phytodietus) intermedius** Kasparyan, 2016. Russia: **FE** (PR).
- Phytodietus (Phytodietus) laevis** Kasparyan, 1993. Russia: **FE** (AM, KH, PR).
- Phytodietus (Phytodietus) melanopus** Kasparyan, 2016. Russia: **FE** (PR). – Korean Peninsula.
- Phytodietus (Phytodietus) montanus** Tolkanitz, 1979. Parasitoid of *Archips rosana* L. (Tortricidae). Russia: **EP** (N, NW, NC, CR), **ES** (YA), **FE** (KH, PR). – Europe (WE, EE), Azerbaijan, Kazakhstan, Mongolia.
- Phytodietus (Phytodietus) ornatus** Desvignes, 1856. Parasitoid of *Anacampsis populella* Cl. (Gelechiidae), *Dichelia histrionana* Fröl., *Diurnea flagella* Den. et Schiff. (Tortricidae) and *Synanthedon flaviventris* Stgr. (Sesiidae). Russia: **ES** (ZB), **FE** (AM, KU). – Europe (WE, NE, SE, EE), Azerbaijan.
- Phytodietus (Phytodietus) pallipes** Kasparyan, 1993. Russia: **FE** (KH, PR).

Phytodietus (Phytodietus) polyzonias (Forster, 1771) [Ichneumon] (*Phytodietus segmentator* Gravenhorst, 1829; *Ph. segmentator ibericus* Habermehl, 1917; *Ph. segmentator fennicus* Hellén, 1939). Parasitoid of lepidopterans *Epirrhoe* sp. (Geometridae), *Drymonia* sp. (Notodontidae), *Loxostege sticticalis* L., *Ostrinia nubilalis* Hbn. (Pyralidae), *Yponomeuta malinella* Z., *Y. padella* L. (Yponomeutinae) and 25 species of the genera *Acleris*, *Aleimma*, *Ancylicis*, *Archips*, *Choristoneura*, *Cnaemidophorus*, *Cydia*, *Diurnea*, *Epinotia*, *Eudemis*, *Lobesia*, *Notoceilia*, *Pandemis*, *Rhyacionia*, *Sparganohis*, *Spilonota* and *Tortrix* (Tortricidae); also recorded from *Anthonomus pomorum* L. (Coleoptera: Curculionidae). Russia: **EP** (N, NW, C, CR), **FE** (KH, PR, KU). – Europe (WE, NE, EE), Georgia, Armenia.

Tribe SPHINCTINI

Monotypic tribe predominantly distributed in the Eastern Palaearctic and Oriental regions.

SPHINCTUS Gravenhorst, 1829. Type species: *Sphinctus serotinus* Gravenhorst, 1829. Parasitoids of Limacodidae (Lepidoptera). Predominantly Eastern Palaearctic and Oriental genus. Number of species: World – 16, Palaearctic – 13, Russia – 6.

Sphinctus nigrithorax Uchida, 1931. Russia: **FE** (KH, PR). – Korean Peninsula, Japan.

Sphinctus rufiventris Meyer, 1930. Russia: **FE** (PR). – Korean Peninsula.

Sphinctus serotinus Gravenhorst, 1829. Russia: **EP** (C). – Europe (WE, SE, EE), Georgia.

Sphinctus specularis Kasparyan, 1992. Russia: **FE** (KH).

Sphinctus tobiasi Kasparyan, 1992. Russia: **FE** (KH, PR).

Sphinctus vitripennis Kasparyan, 1992. Russia: **FE** (KH, PR).

Tribe TRYPHONINI

Predominantly Holarctic tribe with several species recorded in the Oriental and Neotropical regions. Parasitoids of sawfly families Cimbicidae, Diprionidae and Tenthredinidae (Hymenoptera). Palaearctic species were revised by Kasparyan (Kasparyan, 1973; Kasparyan, Tolkanitz, 1999). Number of taxa: World – 24 genera and 428 species, Palaearctic – 17/240, Russia – 16/170.

ADERAEON Townes et Townes, 1949. Type species: *Errormenus bedardi* Provancher, 1879. Predominantly Holarctic genus. Number of species: World – 5, Palaearctic and Russia – 2.

Aderaeon hamatus Kasparyan, 1971. Russia: **EP** (S, NC). – Europe (EE), Caucasus, Turkey, Iran.

Aderaeon kozlovi Kasparyan, 1973. Russia: **FE** (AM, MG). – Mongolia, N America.

- BOETHUS** Foerster, 1869. Type species: *Boethus howardi* Davis, 1897 (= *Eubadizon schizoceri* Riley et Howard, 1888). Holarctic and Neotropical genus. Number of species: World – 15, Palaearctic and Russia – 1.
- Boethus thoracicus** (Giraud, 1872) [Diplomorphus]. Russia: **EP** (E, S). – Europe (WE, SE, EE), Armenia, Azerbaijan, Turkey, Tajikistan, Kazakhstan.
- COSMOCONUS** Foerster, 1869. Type species: *Ichneumon elongator* Fabricius, 1775. Holarctic and Oriental genus subdivided into three subgenera. Number of species: World – 28, Palaearctic – 14, Russia – 11.
- Cosmoconus (Cosmoconus) caudator** Kasparyan, 1971. Russia: **FE** (KH, PR, SA).
- Cosmoconus (Cosmoconus) ceratophorus** (Thomson, 1888) [Tryphon]. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (KM, AL), **ES** (KR, IR), **FE** (AM). – Europe (WE, NE, SE, EE), Caucasus, Turkey.
- Cosmoconus (Cosmoconus) certus** Kasparyan, 1999. Russia: **FE** (KH, PR). – Japan.
- Cosmoconus (Cosmoconus) dlabolai** Šedivý, 1971. Russia: **ES** (ZB). – Mongolia.
- Cosmoconus (Cosmoconus) elongator** (Fabricius, 1775) [Ichneumon]. Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TM, AL), **ES** (IR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Kazakhstan.
- Cosmoconus (Cosmoconus) hinzi** Kasparyan, 1971. Russia: **EP** (N, C). – Europe (WE, NE, EE).
- Cosmoconus (Cosmoconus) meridionator** Aubert, 1963. Russia: **EP** (N, NW, C), **WS** (TM, AL), **ES** (IR, ZB). – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Mongolia, China.
- Cosmoconus (Cosmoconus) modestus** Kasparyan, 1973. Russia: **FE** (PR).
- Cosmoconus (Cosmoconus) nigriventris** Kasparyan, 1971. Russia: **EP** (N, NW, C), **UR**, **WS** (AL), **ES** (BR), **FE** (AM). – Europe (WE, NE, SE, EE), China.
- Cosmoconus (Otitoconus) tacitus** Kasparyan, 1976. Russia: **FE** (PR, KU). – Korean Peninsula.
- Cosmoconus (Otitoconus) tibeticus** Kasparyan, 1971. Russia: **FE** (KU). – China.
- CTENOCHIRA** Foerster, 1855 (Foerster, 1869; *Gemophaga* Foerster, 1869; *Scopiorus* Foerster, 1869; *Ctenacmus* Thomson, 1883; *Ctenacma* Schulz, 1906; *Pauroctenus* Cameron, 1909; *Exochoblastus* Schmiedeknecht, 1912; *Scopimemus* Roman, 1937; *Coeloprosopon* Bauer, 1958). Type species: *Ctenochira bisinuata* Foerster, 1855. Large Holarctic and Oriental genus. One Eastern Palearctic and Oriental species, *C. orientalis* Kasparyan, is considered here within the monotypical subgenus *Praectenochira* Kasparyan, 2019. Number of species: World – about 100, Palaearctic – about 70, Russia – 61.
- Ctenochira (Ctenochira) albomaculata** Kasparyan, 1976. Russia: **FE** (KU).
- Ctenochira (Ctenochira) albosignata** Kasparyan, 2013. Russia: **EP** (N), **WS** (TM), **ES** (KR).
- Ctenochira (Ctenochira) anabar** Kasparyan, 2013. Russia: **WS** (TM), **ES** (KR, YA), **FE** (MG).
- Ctenochira (Ctenochira) angulata** (Thomson, 1883) [Polyblastus]. Russia: **EP** (NW, C, CR), **ES** (KR, YA, ZB), **FE** (KA). – Europe (WE, NE, SE, EE), Caucasus, Turkey.
- Ctenochira (Ctenochira) angustata** (Roman, 1909) [Polyblastus]. Russia: **FE** (KA). – Europe (NE, EE), Mongolia.
- Ctenochira (Ctenochira) annulata** (Holmgren, 1857) [Polyblastus]. Russia: **EP** (NW), **UR**, **ES** (YA, ZB), **FE** (KH, PR, KU, KA, MG). – Europe (WE, NE, EE), N America.
- Ctenochira (Ctenochira) antennata** Kasparyan, 1999. Russia: **FE** (PR, KU).
- Ctenochira (Ctenochira) aperta** Kasparyan, 1972. Russia: **EP** (C), **ES** (ZB), **FE** (AM, PR, SA, KU). – Mongolia.
- Ctenochira (Ctenochira) arcuata** (Holmgren, 1857) [Polyblastus]. Russia: **EP** (N, NW, C, S), **ES** (IR, YA), **FE** (KH, MG). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Iran, Kyrgyzstan, Mongolia, N America.
- Ctenochira (Ctenochira) bisinuata** Foerster, 1855. Russia: **EP** (S). – Europe (WE, NE, SE, EE), Kyrgyzstan.
- Ctenochira (Ctenochira) breviseta** (Ratzeburg, 1852) [Pimpla]. Russia: **EP** (N), **ES** (YA), **FE** (MG). – Europe (WE, NE, EE).
- Ctenochira (Ctenochira) caucasica** Kasparyan, 1999. Russia: **EP** (NC). – Armenia.
- Ctenochira (Ctenochira) clara** Kasparyan, 1973. Russia: **EP** (C). – Europe (EE).
- Ctenochira (Ctenochira) epipleuralis** Kasparyan, 2013. Russia: **EP** (N), **FE** (CH).
- Ctenochira (Ctenochira) fecula** Kasparyan, 1973. Russia: **EP** (N). – Europe (NE).
- Ctenochira (Ctenochira) flavicauda** (Roman, 1912) [Scopiorus]. Parasitoid of *Pristiphora abietina* Christ and *P. palmeni* Forsius (Tenthredinidae). Russia: **ES** (ZB), **FE** (KH). – Europe (WE, NE, EE).
- Ctenochira (Ctenochira) flavipes** Kasparyan, 1976. Russia: **FE** (PR, KU).
- Ctenochira (Ctenochira) galla** Kasparyan, 1973. Russia: **FE** (KH, PR).
- Ctenochira (Ctenochira) gelida** Kasparyan, 1973. Russia: **EP** (N), **WS** (TM), **ES** (IR, YA, ZB), **FE** (CH). – Europe (WE, NE, EE), Mongolia.
- Ctenochira (Ctenochira) genalis** (Thomson, 1883) [Polyblastus]. Russia: **EP** (N, NW, NC, CR), **FE** (AM). – Europe (WE, NE, SE, EE).
- Ctenochira (Ctenochira) gilvipes** (Holmgren, 1857) [Polyblastus]. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (KR, IR, YA), **FE** (CH). – Europe (WE, NE, SE, EE), Mongolia.
- Ctenochira (Ctenochira) gracilicornis** Kasparyan, 2013. Russia: **FE** (CH).
- Ctenochira (Ctenochira) grossa** (Brischke, 1871) [Polyblastus]. Russia: **FE** (KU).

- Ctenochira (Ctenochira) haemosterna** (Haliday, 1838) [Tryphon] (*Bassus frigidus* Cresson, 1868). Russia: **EP** (N, NW, C), **WS** (TM), **ES** (KR, IR, YA), **FE** (CH). – Europe (WE, NE, EE), N America.
- Ctenochira (Ctenochira) helveticator** Aubert, 1965. Russia: **EP** (N). – Europe (WE, NE, EE).
- Ctenochira (Ctenochira) hyperborea** Kasparyan, 2013. Russia: **ES** (KR, YA).
- Ctenochira (Ctenochira) infesta** (Holmgren, 1857) [Polyblastus]. Russia: **EP** (N, NW, C), **WS** (KM), **ES** (KR, IR, YA), **FE** (KU, KA, MG, CH). – Europe (WE, NE, EE), Kazakhstan, Mongolia.
- Ctenochira (Ctenochira) inversa** Kasparyan, 1972. Russia: **ES** (IR, BR, YA).
- Ctenochira (Ctenochira) irrisa** Kasparyan, 1973. Russia: **WS** (TM), **ES** (IR). – Europe (WE).
- Ctenochira (Ctenochira) kerzhneri** Kasparyan, 2013. Russia: **WS** (TM), **FE** (KA, CH).
- Ctenochira (Ctenochira) laticauda** Kasparyan, 2013. Russia: **EP** (N), **ES** (YA).
- Ctenochira (Ctenochira) longicauda** Kasparyan, 1976. Russia: **FE** (KU).
- Ctenochira marginata** (Holmgren, 1857) [Polyblastus]. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (KR, IR, YA), **FE** (CH). – Europe (WE, NE, SE, EE), Caucasus, Iran, Mongolia.
- Ctenochira (Ctenochira) meridionator** Aubert, 1969. Russia: **EP** (N, NW, C, NC), **WS** (TM), **ES** (ZB), **FE** (KH, KU). – Europe (WE, SE, EE), Georgia, Azerbaijan.
- Ctenochira (Ctenochira) minuta** Kasparyan, 2013. Russia: **EP** (N), **WS** (TM), **ES** (KR, YA).
- Ctenochira (Ctenochira) nata** Kasparyan, 1973. Russia: **WS** (AL), **ES** (ZB).
- Ctenochira (Ctenochira) nigronitens** Kasparyan, 2013. Russia: **FE** (CH).
- Ctenochira (Ctenochira) oreophila** (Schmiedeknecht, 1912) [Exochoblastus]. Russia: **EP** (NW). – Europe (WE, NE, EE).
- Ctenochira (Ctenochira) pallistigma** Kasparyan, 2013. Russia: **WS** (TM), **ES** (YA), **FE** (CH).
- Ctenochira (Ctenochira) pastoralis** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C, S, CR), **UR**, **WS** (TM), **ES** (KR, IR, YA), **FE** (KU, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.
- Ctenochira (Ctenochira) pectinata** (Bauer, 1958) [Trichocalymmus]. Russia: **EP** (NC), **ES** (ZB). – Europe (WE, EE), Kyrgyzstan, Kazakhstan, Mongolia.
- Ctenochira (Ctenochira) phyllocolpae** Kasparyan, 2013. Parasitoid of *Phyllocolpa carinifrons* Benson (Tenthredinidae). Russia: **EP** (N), **ES** (YA, ZB). – Europe (WE, NE).
- Ctenochira (Ctenochira) pratensis** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NC). – Europe (EE), Caucasus, Mongolia.
- Ctenochira (Ctenochira) propinqua** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C, E), **WS** (TM), **ES** (KR, IR, YA, ZB), **FE** (KU, KA, MG). – Europe (WE, NE, SE, EE), Caucasus, Iran, Kazakhstan.
- Ctenochira (Ctenochira) punctata** Kasparyan, 1972. Russia: **WS** (TM, AL), **ES** (KR, IR, YA, ZB). – Mongolia.
- Ctenochira (Ctenochira) romani** (Pfankuch, 1925) [Polyblastus] (*Scopimenus pygobarbus* Roman, 1937). Parasitoid of *Pontania lapponica* Malaise and *P. proxima* Lep. (Tenthredinidae). Russia: **EP** (N). – Europe (WE, NE).
- Ctenochira (Ctenochira) rubella** Kasparyan, 1972. Russia: **EP** (N), **ES** (BR), **FE** (KA). – Europe (EE).
- Ctenochira (Ctenochira) rubranator** Aubert, 1965. Russia: **EP** (N), **ES** (ZB), **FE** (KU). – Europe (WE, EE), Georgia.
- Ctenochira (Ctenochira) rufipes** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C), **WS** (TM), **ES** (KR, YA, ZB), **FE** (CH). – Europe (WE, NE, EE), Mongolia.
- Ctenochira (Ctenochira) sanguinatoria** (Ratzeburg, 1852) [Tryphon]. Russia: **EP** (NW, S), **ES** (ZB). – Europe (WE, NE, EE).
- Ctenochira (Ctenochira) sculpturata** Kasparyan, 1972. Russia: **WS** (AL), **FE** (KA). – Kazakhstan, Mongolia.
- Ctenochira (Ctenochira) sphaerocephala** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C, S), **UR**, **WS** (TM), **ES** (KR, YA), **FE** (KH, PR, MG). – Europe (WE, NE, EE), Iran, Mongolia.
- Ctenochira (Ctenochira) subarctica** Kasparyan, 1999. Russia: **EP** (N), **WS** (TM). – Mongolia.
- Ctenochira (Ctenochira) taiga** Kasparyan, 1972. Parasitoid of nematine sawflies (Tenthredinidae: Nematinae) on Larix. Russia: **EP** (N), **ES** (IR, BR, YA). – Europe (WE, EE).
- Ctenochira (Ctenochira) tarsata** Kasparyan, 1972. Russia: **ES** (BR). – Europe (WE), Mongolia.
- Ctenochira (Ctenochira) tixi** Kasparyan, 2013. Russia: **ES** (YA).
- Ctenochira (Ctenochira) trochanterata** Kasparyan, 2013. Russia: **ES** (YA).
- Ctenochira (Ctenochira) uzon** Kasparyan, 2013. Russia: **FE** (KA).
- Ctenochira (Ctenochira) validicornis** (Brischke, 1871) [Polyblastus]. Russia: **EP** (NW, NC), **ES** (IR). – Europe (WE, NE, SE, EE).
- Ctenochira (Ctenochira) xanthopyga** (Holmgren, 1857) [Polyblastus]. Russia: **EP** (N, NW, C), **ES** (KR, IR, BR, YA, ZB). – Europe (WE, NE, SE, EE).
- Ctenochira (Praectenochira) orientalis** Kasparyan, 1993 (*Ctenochira basipectinata* Lee et Cha, 1993). Russia: **FE** (PR). – China (SE), Korean Peninsula.
- DYSPETES** Foerster, 1869. Type species: *Dyspetes fracticeps* Townes et Townes, 1950 (= *Dyspetes luteomarginata* Habermehl, 1925). Parasitoids of sawflies from the subfamily Tenthredininae (Tenthredinidae). Holarctic and Oriental genus. Number of species: World – 14, Palearctic – 10, Russia – 2.

- Dyspetes arrogator** Heinrich, 1949. Parasitoid of sawfly genera *Aglaostigma* Kirby, *Tenthredo* L. and *Tenthredopsis* Costa (Tenthredinidae). Russia: **EP** (N, NW, C), **WS** (TK, KM, AL), **ES** (ZB), **FE** (AM, KH, PR, SA, KU, KA). – Europe (WE, NE, SE, EE), Armenia, Iran, China, Korean Peninsula.
- Dyspetes orientalis** Kasparyan, 1976. Russia: **FE** (SA, KU). – China, Japan, India.
- ERROMENUS** Holmgren, 1857. Type species: *Tryphon brunnicans* Gravenhorst, 1829. Holarctic genus. Parasitoids of sawflies from the subfamily Nematinae (Tenthredinidae). Number of species: World – 36, Palaearctic – 18, Russia – 12.
- Remarks.** *Erromenus fumatus* Brischke, 1871 was recorded from the North Caucasus of Russia (Meyer, 1927a), but taxonomic status of this species is unclear and it is not included in this catalogue.
- Erromenus analis** Brischke, 1871. Parasitoid of gall-forming sawflies of the genera *Phyllocolpa* Benson and *Pontania* Costa. Russia: **EP** (NW), **ES** (ZB), **FE** (KH, PR, SA). – Europe (WE, NE, EE), Korean Peninsula, N America.
- Erromenus bibulus** Kasparyan, 1973. Russia: **EP** (N, NW, C), **ES** (BR, YA, ZB), **FE** (KH, PR, SA). – Europe (WE, NE, EE), Georgia, Turkey, Kazakhstan, Mongolia.
- Erromenus brunnicans** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C, NC), **ES** (KR, ZB), **FE** (PR, SA). – Europe (WE, NE, SE, EE), Turkey, Mongolia.
- Erromenus calcator** (Müller, 1776) [Ichneumon]. Russia: **EP** (N), **ES** (IR, YA), **FE** (KU). – Europe (WE, NE, SE, EE), Iran, Mongolia.
- Erromenus junior** (Thunberg, 1822) [Ichneumon]. Parasitoid of *Nematus* spp. (Tenthredinidae). Russia: **EP** (NW, C, E). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Turkey, Mongolia.
- Erromenus lacunosus** Kasparyan, 1973. Russia: **ES** (IR, BR). – Europe (NE), Tajikistan, Mongolia.
- Erromenus melanonotus** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NC), **WS** (KM, AL), **ES** (KR, BR, ZB), **FE** (PR, KU). – Europe (WE, NE, SE, EE), Turkey, Korean Peninsula.
- Erromenus nitens** Strobl, 1903 (*Erromenus tarsator* Aubert, 1969). Russia: **EP** (N, NW), **ES** (IR, YA, ZB), **FE** (KU). – Europe (WE, NE, EE).
- Erromenus plebejus** (Woldstedt, 1878) [Trichocalymma]. Parasitoid of *Pseudodineura fuscus* Klug (Tenthredinidae) from mines on Ranunculus. Russia: **EP** (N, NW), **UR**, **ES** (KR, IR, BR, ZB), **FE** (KH, PR, KU). – Europe (WE, NE, EE), Iran, Mongolia, Korean Peninsula.
- Erromenus punctatus** (Woldstedt, 1878) [Trichocalymma]. Russia: **EP** (N, NW, C, S), **WS** (AL), **ES** (TU, KR, IR, BR, YA, ZB), **FE** (KH, PR, KU, KA, MG). – Europe (WE, NE, SE, EE), Kyrgyzstan, Kazakhstan, Mongolia, N America.
- Erromenus punctulatus** Holmgren, 1857. Russia: **EP** (N, NW, C, E), **UR**, **WS** (AL), **ES** (KR, IR, YA, ZB), **FE** (KH, PR, KA, MG). – Europe (WE, NE, EE), Azerbaijan, Turkey, Kazakhstan, Mongolia, Korean Peninsula, N America.
- Erromenus zonarius** (Gravenhorst, 1820) [Ichneumon]. Russia: **EP** (N, NW, C, E), **WS** (KM, AL), **ES** (IR, YA, ZB), **FE** (AM, KH, PR, SA, MG). – Europe (WE, NE, SE, EE), Turkey, Iran, Mongolia, Japan, N America.
- GRYPOCENTRUS** Ruthe, 1855. Type species: *Grypocentrus incisulus* Ruthe, 1855. Holarctic genus. Parasitoids of miners from the genera *Eriocrania* Zll. (Lepidoptera: Eriocraniidae), *Fenusa* Leach, *Metallus* Forbes and *Profenusa* Macg. (Tenthredinidae: Heterarthrinae). Number of species: World – 21, Palaearctic – 15, Russia – 11.
- Grypocentrus albipes** Ruthe, 1855. Russia: **EP** (N, NW, C, NC), **ES** (IR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (WE, NE, EE), Georgia, Iran, China, Korean Peninsula, N America.
- Grypocentrus apicalis** Thomson, 1883. Russia: **ES** (ZB), **FE** (KH, PR). – Europe (WE, NE, EE).
- Grypocentrus arcuatus** Kasparyan, 1999. Russia: **FE** (KH, PR).
- Grypocentrus areolaris** Kasparyan, 1989. Russia: **FE** (KH, PR).
- Grypocentrus basalis** Ruthe, 1855. Russia: **EP** (NW, C), **ES** (ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, EE), China.
- Grypocentrus bilobus** Kasparyan, 1976. Russia: **EP** (N, NC, CR). – Europe (NE, EE), Georgia, Azerbaijan.
- Grypocentrus cinctellus** Ruthe, 1855. Russia: **EP** (NW, C, S, NC). – Europe (WE, NE, EE), Caucasus, Iran.
- Grypocentrus divergens** Kasparyan, 1989. Russia: **FE** (KH).
- Grypocentrus incisulus** Ruthe, 1855. Russia: **EP** (N, NW, C, E, S), **UR**, **ES** (IR, BR, ZB), **FE** (KH, PR, SA, KU). – Europe (WE, NE, EE), Kazakhstan.
- Grypocentrus osflavus** Kasparyan, 1989. Russia: **FE** (PR).
- Grypocentrus tarsalis** Kasparyan, 1999. Russia: **FE** (PR). – China (SE).
- LAGOLEPTUS** Townes, 1969. Type species: *Lagoleptus palans* Townes, 1969. Holarctic, Neotropical and Oriental genus. Number of species: World – 6, Palaearctic and Russia – 1.
- Lagoleptus rugipectus** Townes, 1969. Russia: **FE** (KU). – China, Korean Peninsula.
- LEDORA** Kasparyan, 1983. Type species: *Ledora mica* Kasparyan, 1983. Monotypic Palaearctic genus.
- Ledora mica** Kasparyan, 1983. Russia: **FE** (KH, PR).
- MONOBLASTUS** Hartig, 1837. Type species: *Tryphon (Monoblastus) caudatus* Hartig, 1837. Parasitoids of sawflies from the subfamilies Allantinae and Blennocampinae (Tenthredinidae). Holarctic genus. Number of species: World – 30, Palaearctic – 16, Russia – 5.

- Monoblastus brachyacanthus** (Gmelin, 1790) [Ichneumon]. Parasitoid of *Athalia rosae* L. and *A. spinarum* F. Russia: **EP** (N, NW, C, E), **WS** (KM, AL), **ES** (KR, IR). – Europe (WE, NE, SE, EE), N Africa, Georgia, Azerbaijan, Turkey, Kazakhstan.
- Monoblastus ermolenkoi** Kasparyan, 1987. Russia: **FE** (KU).
- Monoblastus erythrurus** Townes, Momoi et Townes, 1965. Russia: **FE** (PR, KU). – Korean Peninsula.
- Monoblastus marginellus** (Gravenhorst, 1829) [Lissonota]. Russia: **EP** (NW, C, NC), **UR**. – Europe (WE, NE, SE, EE), Turkey.
- Monoblastus nigrans** Kasparyan, 1996. Russia: **FE** (KH, PR).
- NELEGES** Foerster, 1869. Type species: *Tryphon proditor* Gravenhorst, 1829. Monotypic Western Palaearctic genus.
- Neleges proditor** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (C, NC, CR). – Europe (WE, SE, EE), Azerbaijan, Turkey, Iran.
- OTOBLASTUS** Foerster, 1869. Type species: *Tryphon luteomarginatus* Gravenhorst, 1829. Holarctic, Neotropical and Oriental genus. Number of species: World – 8, Palaearctic – 4, Russia – 3.
- Otoblastus luteator** Kasparyan, 1982. Russia: **ES** (KR), **FE** (KH, PR). – Japan.
- Otoblastus luteomarginatus** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (E, CR), **FE** (PR). – Europe (WE, SE, EE), Caucasus, Turkey, Japan.
- Otoblastus maculator** Kasparyan, 1999. Russia: **FE** (PR, KU). – Japan.
- POLYBLASTUS** Hartig, 1837. Type species: *Tryphon varitarsus* Gravenhorst, 1829. Predominantly Holarctic genus with a few species recorded in the Neotropical and Oriental regions; subdivided into 3 subgenera. Number of species: World – 56, Palaearctic – 34, Russia – 25.
- Remarks.** *Polyblastus* (*P.*) *parvulus* (Gravenhorst, 1829) was recorded from Kamchatka Terr. of Russia (Meyer, 1936a), but taxonomical status of this species is unclear and it is not included to the current list.
- Polyblastus (Cophenchus) macrocentrus** Thomson, 1888. Parasitoid of *Hoplocampa brevis* Klug (Tenthredinidae). Russia: **FE** (KH, PR). – Europe (WE, NE, EE).
- Polyblastus (Labroctonus) alternans** Schiødt, 1838. Parasitoid of *Platycampus luridiventris* Fll. (Tenthredinidae). Russia: **EP** (N, NW, NC), **UR**. – Europe (WE, NE, SE, EE), Georgia, Armenia, Turkey, Iran, N America.
- Polyblastus (Labroctonus) amurensis** Kasparyan, 1973. Russia: **ES** (ZB), **FE** (KH, PR, KU). – Korean Peninsula.
- Polyblastus (Labroctonus) gorodkovi** Kasparyan, 1973. Russia: **EP** (N), **FE** (KA).
- Polyblastus (Labroctonus) leucoön** Kasparyan, 1973. Russia: **ES** (IR, BR, YA, ZB), **FE** (KH, PR, SA, KU, KA, MG). – Europe (NE), Mongolia.
- Polyblastus (Labroctonus) melanostigmus** Holmgren, 1857. Russia: **EP** (N, NW, C), **ES** (YA, ZB), **FE** (KA). – Europe (WE, NE, EE), N America.
- Polyblastus (Labroctonus) nanus** Kasparyan, 1973. Russia: **EP** (N, NW, C), **ES** (YA, ZB), **FE** (PR, SA, KU, KA). – Europe (WE, NE, EE).
- Polyblastus (Labroctonus) pallicoxa** Thomson, 1888. Russia: **EP** (N, NW), **ES** (KR, YA), **FE** (KA). – Europe (WE, NE, EE).
- Polyblastus (Labroctonus) pumilus** Holmgren, 1857. Russia: **ES** (IR), **FE** (PR). – Europe (WE, NE, EE), N America.
- Polyblastus (Labroctonus) stenocentrus** Holmgren, 1857. Parasitoid of *Pachynematus imperfectus* Zaddach et Brischke, *P. montanus* Zaddach et Brischke, *Pristiphora abietina* Christ, etc. (Tenthredinidae). Russia: **EP** (N), **ES** (TU, KR, IR, BR, YA, ZB), **FE** (KU). – Europe (WE, NE, SE, EE), Mongolia, N America.
- Polyblastus (Labroctonus) valens** Kasparyan, 1973. Russia: **FE** (KH).
- Polyblastus (Labroctonus) westringi** Holmgren, 1857. Parasitoid of *Pristiphora erichsonii* Hartig, *P. laricis* Hartig and *P. wesmaeli* Tischb. (Tenthredinidae). Russia: **EP** (N, NW, C), **WS** (TM, TK), **ES** (KR, YA, ZB), **FE** (AM, KH, SA, KU, MG). – Europe (WE, NE, EE), Mongolia, China.
- Polyblastus (Labroctonus) zhelochovtsevi** Kasparyan, 1973. Russia: **ES** (KR, YA), **FE** (MG).
- Polyblastus (Polyblastus) atratus** Kasparyan, 1981. Russia: **FE** (PR).
- Polyblastus (Polyblastus) belokobylskii** Kasparyan, 1999. Russia: **FE** (PR).
- Polyblastus (Polyblastus) cancer** (Hartig, 1837) [Tryphon]. Parasitoid of *Hoplocampa brevis* Klug and *Nematus* spp. (Tenthredinidae). Russia: **EP** (N, NW), **WS** (TM), **ES** (IR), **FE** (PR, KA). – Europe (WE, NE, EE), Mongolia, N America.
- Polyblastus (Polyblastus) cothurnatus** (Gravenhorst, 1829) [Tryphon]. Russia: **EP** (N, NW, C), **UR**, **WS** (TM, AL), **ES** (KR, IR, YA), **FE** (KU). – Europe (WE, NE, SE, EE), Georgia, Turkey.
- Polyblastus (Polyblastus) dentigena** Kasparyan, 1970. Russia: **EP** (C, S), **UR**, **WS** (AL), **ES** (TU, KR, IR, BR, YA, ZB), **FE** (AM). – Europe (EE), Kyrgyzstan, Kazakhstan, Mongolia.
- Polyblastus (Polyblastus) pinguis** (Gravenhorst, 1820) [Ichneumon]. Russia: **EP** (N, NW, C, E, S, NC, CR). – Europe (WE, EE), Kazakhstan.
- Polyblastus (Polyblastus) stenhammari** Holmgren, 1857. Russia: **EP** (N, S), **UR**, **WS** (TM), **ES** (KR, IR, BR, YA, ZB), **FE** (KH, PR, KA, MG). – Europe (WE, NE, EE).
- Polyblastus (Polyblastus) subalpinus** Holmgren, 1857 (*Tryphon pedalis* Cresson, 1864). Parasitoid of *Amauronematus* sp. (Tenthredinidae). Russia: **EP** (N, C, E, S), **WS** (TM), **ES** (KR, IR, YA), **FE** (KA, MG). – Europe (WE, NE, SE, EE), Korean Peninsula, N America.

- Polyblastus (Polyblastus) tener** Habermehl, 1909. Parasitoid of *Anoplonyx pectoralis* Lep., *Euura amerinae* L., *Pachynematus imperfectus* Zaddach et Brischke, *P. scutellatus* Hartig, *Pristiphora erichsonii* Hartig, *P. laricis* Hartig and *P. wesmaeli* Tischb. (Tenthredinidae). Russia: **EP** (N, NW). – Europe (WE, NE, SE, EE).
- Polyblastus (Polyblastus) tuberculatus** Teunissen, 1953. Parasitoid of *Nematus ribesii* Scop. (Tenthredinidae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TM), **ES** (KR, IR), **FE** (KA, MG). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan.
- Polyblastus (Polyblastus) varitarsus** (Gravenhorst, 1829) [Tryphon]. Parasitoid of *Nematus* spp., *Pachynematus* spp. and *Pontania proxima* Lep. (Tenthredinidae). Russia: **EP** (N, NW, C, S), **UR**, **WS** (TM, AL), **ES** (KR, IR, YA, ZB), **FE** (AM, KH, PR, SA, KU, KA, MG). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey, Israel, Kyrgyzstan, Kazakhstan, Mongolia, China, Japan, N America.
- Polyblastus (Polyblastus) wahlbergi** Holmgren, 1857. Parasitoid of *Euura* sp., *Pikonema* spp., *Cladius morio* Lep., *Pristiphora laricis* Hartig, *P. testacea* Jur. and *Stauronematus compressicornis* F. (Tenthredinidae). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TM), **ES** (KR, IR, BR, YA, ZB), **FE** (AM, KH, PR, KA, MG). – Europe (WE, NE, SE, EE), Armenia, Azerbaijan, Mongolia, China, Korean Peninsula, Japan, N America.
- THEROZOA** Foerster, 1869 (*Parablastus* Constantineanu, 1973; *Ischyrocnemis* auct.). Type species: *Terozoa quadridens* Perkins, 1962. Western Palaearctic genus. Number of species: World and Palaearctic – 3, Russia – 1.
- Terozoa quadridens** Perkins, 1962. Russia: **EP** (NC). – Europe (WE, SE, EE).
- THIBETOIDES** Davis, 1897. Type species: *Thibetoides flosamoris* Davis, 1897. Holarctic genus. Parasitoids of *Aprosthemata tardum* Klug (Argidae) on Knautia (Caprifoliaceae). Number of species: World – 5, Palaearctic – 4, Russia – 1.
- Thibetoides acerbus** Viktorov, 1964. Russia: **EP** (S). – Europe (SE), Caucasus, Turkey, Iran.
- TRYPHON** Fallén, 1813. Type species: *Ichneumon rutilator* Linnaeus, 1761. Almost exclusively Holarctic genus with one species recorded in India; subdivided into 5 subgenera. Parasitoids of sawfly genera *Dolerus* Jurine and *Loderus* Konow (Tenthredinidae: Dolerini) on Gramineae, Equisetum and Juncus. Number of species: World – 71 (taxonomical status of about 20 more species is not clear), Palaearctic – 44, Russia – 32.
- Tryphon (Cteonyx) errator** Kasparyan, 1969. Russia: **EP** (NC). – Caucasus.
- Tryphon (Stenocrotaphon) nagahamensis** Uchida, 1930. Russia: **ES** (ZB), **FE** (KH, PR, SA, KU). – Korean Peninsula.
- Tryphon (Stenocrotaphon) nigrinus** Brischke, 1871. Russia: **EP** (NW, C, S). – Europe (WE, EE), Iran, Kazakhstan.
- Tryphon (Stenocrotaphon) obtusator** (Thunberg, 1822) [Ichneumon]. Russia: **EP** (N, NW, C, E, S, NC), **WS** (TM, AL), **ES** (BR, YA). – Europe (WE, NE, SE, EE), Korean Peninsula.
- Tryphon (Stenocrotaphon) subsulcatus** Holmgren, 1857 (*Tryphon subsulcatus manshuricus* Kasparyan, 1969). Russia: **EP** (N, NW, C, E, S, NC), **ES** (YA, ZB), **FE** (KH). – Europe (WE, NE, EE), Turkey, Mongolia, China.
- Tryphon (Symboethus) bidentatus** Stephens, 1835 (*Tryphon incestus* Holmgren, 1857). Russia: **EP** (N, NW, C), **UR**, **WS** (AL), **ES** (IR, YA), **FE** (KA, MG). – Europe (WE, NE, SE, EE), Israel, Kazakhstan, Mongolia, China, Korean Peninsula.
- Tryphon (Symboethus) brevipetiolaris** Uchida, 1955. Russia: **EP** (C), **ES** (KR, IR, YA), **FE** (PR, KA, MG). – Europe (WE, NE, EE), Georgia, Mongolia, China, Korean Peninsula.
- Tryphon (Symboethus) brunniventris** Gravenhorst, 1829. Russia: **EP** (N, NW, C), **UR**, **WS** (TM), **ES** (YA), **FE** (KA, MG). – Europe (WE, NE, SE, EE), Georgia, Korean Peninsula.
- Tryphon (Symboethus) duplicatus** (Heinrich, 1953) [Symboethus]. Russia: **EP** (N, NW, C), **UR**, **WS** (KM), **ES** (IR, YA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan.
- Tryphon (Symboethus) exclamationis** Gravenhorst, 1829. Russia: **EP** (N, NW, C), **ES** (KR, IR, YA). – Europe (WE, NE, EE), Mongolia, N America.
- Tryphon (Symboethus) flavoclypeatus** Kasparyan, 1976. Russia: **FE** (KH, PR, SA, KU).
- Tryphon (Symboethus) fulviventris** Holmgren, 1857. Russia: **EP** (NW, C), **ES** (IR, YA), **FE** (KA). – Europe (WE, NE, EE).
- Tryphon (Symboethus) heliophilus** Gravenhorst, 1829. Russia: **EP** (NW, C, E, S), **WS** (TK), **ES** (IR, YA, ZB), **FE** (PR). – Europe (WE, NE, SE, EE), Iran, Kazakhstan, Mongolia.
- Tryphon (Symboethus) hinzi** (Heinrich, 1953) [Symboethus]. Russia: **EP** (N, NW, C), **UR**, **WS** (AL), **ES** (IR, YA). – Europe (WE, NE, SE, EE), Kazakhstan, Mongolia, Korean Peninsula.
- Tryphon (Symboethus) jezoensis** Uchida, 1930. Russia: **FE** (KU). – Japan.
- Tryphon (Symboethus) punctatus** Kasparyan, 1973. Russia: **ES** (IR, BR, YA, ZB), **FE** (AM, PR, KA). – Mongolia, Korean Peninsula.
- Tryphon (Symboethus) ussuriensis** Kasparyan, 1999. Russia: **FE** (PR).
- Tryphon (Tryphon) abditus** Kasparyan, 1969. Russia: **EP** (N, NW, C), **ES** (IR). – Europe (WE, NE, EE), Turkey, Kazakhstan.
- Tryphon (Tryphon) atriceps** Stephens, 1835 (*Tryphon ephippium* Holmgren, 1857). Russia: **EP** (C, E, S, NC, CR), **ES**

- (IR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Iran, Afghanistan, Turkmenistan.
- Tryphon (Tryphon) bidentulus** Thomson, 1883 (*Tryphon separandus* Schmiedeknecht, 1912). Russia: **EP** (N, NW, C, NC), **ES** (IR). – Europe (WE, NE, EE).
- Tryphon (Tryphon) caucasicus** Kasparyan, 1969. Russia: **EP** (NC). – Europe (EE), Caucasus, Iran.
- Tryphon (Tryphon) latrator** (Fabricius, 1781) [Ichneumon] (*Tryphon auricularis* Thomson, 1883). Russia: **EP** (N, NW, C, NC), **UR**, **WS** (TK), **ES** (IR, YA). – Europe (WE, NE, SE, EE), Turkey, Iran, Central Asia, Kazakhstan, Mongolia.
- Tryphon (Tryphon) nigripes** Holmgren, 1857. Russia: **EP** (? C). – Europe (WE, NE, SE, EE).
- Tryphon (Tryphon) psilosagator** Aubert, 1966. Russia: **EP** (S, NC). – Europe (WE, SE, EE), Turkey, Israel, Kazakhstan.
- Tryphon (Tryphon) relator** (Thunberg, 1822) [Ichneumon] (*Tryphon vulgaris* Holmgren, 1857). Russia: **EP** (N, NW, C, E, NC), **UR**, **WS** (TK), **ES** (IR, YA). – Europe (WE, NE, SE, EE), Georgia, Azerbaijan, Turkey.
- Tryphon (Tryphon) rutilator** (Linnaeus, 1761) [Ichneumon]. Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (OM), **ES** (IR, YA). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Syria, Iran.
- Tryphon (Tryphon) signator** Gravenhorst, 1829. Russia: **EP** (N, NW, C, E, NC, CR), **UR**, **WS** (OM), **ES** (IR, BR, YA, ZB). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Syria, Iran.
- Tryphon (Tryphon) talitzkii** Telenga, 1930. Russia: **EP** (S, NC). – Europe (SE, EE), Azerbaijan, Turkey.
- Tryphon (Tryphon) teberda** Kasparyan, 1996 (*Tryphon tardus* Kasparyan, 1963, nom. praeocc., nec Provancher, 1875). Russia: **EP** (NC).
- Tryphon (Tryphon) thomsoni** Roman, 1939 (*Tryphon vulgaris* auct.). Russia: **EP** (N, NW, C, E, S, NC), **ES** (IR). – Europe (WE, NE, SE, EE), Caucasus, Turkey, Israel, Iran, Tajikistan.
- Tryphon (Tryphon) trochanteratus** Holmgren, 1857. Russia: **EP** (N, NW, C, E, NC), **UR**, **WS** (TK, KM), **ES** (KR, IR, YA). – Europe (WE, NE, SE, EE), Georgia, Turkey, Iran, Kazakhstan.
- Tryphon (Tryphon) zavreli** Gregor, 1939 (*Tryphon spatiator* Kasparyan, 1969). Russia: **EP** (C, E, S, CR), **UR**. – Europe (WE, SE, EE), Caucasus, Turkey, Iran, Kazakhstan.

Subfamily XORIDINAE

A.I. KHALAIM

Worldwide ichneumonid subfamily which is best represented in the Holarctic region. Idiobiont ectoparasitoids of the larvae of xylophagous Coleoptera (most host records are from the family Cerambycidae) and Hymenoptera (Symphyta: Xiphydriidae).

Number of taxa: World – 4 genera and 225 species, Palearctic – 4/93, Russia – 3/38.

References. Momoi, 1961; Wahl, 1997; Hilszczański, 2000; Kasparyan, Khalaim, 2007e; Choi et al., 2011; Varga, 2015b; Watanabe, 2017d.

ISCHNOCEROS Gravenhorst, 1829 (*Mitroboris* Holmgren, 1859). Type species: *Ichneumon rusticus* Geoffroy, 1785. Predominantly Holarctic genus with several species in the Oriental region. Number of species: World – 12, Palearctic – 8, Russia – 2.

Ischnoceros caligatus (Gravenhorst, 1829) [Xylonomus] (*Ischnoceros seticornis* Kriechbaumer, 1879). Parasitoid of *Agilus biguttatus* F. (Buprestidae) and various species of Cerambycidae. Russia: **EP** (N, NW, C, NC), ? **WS** (OM). – Europe (WE, NE, SE, EE), Azerbaijan.

Ischnoceros rusticus (Geoffroy, 1785) [Ichneumon] (*Odontomerus striatus* Brullé, 1846; *Xorides cornutus* Ratzeburg, 1848; *Ischnoceros filicornis* Kriechbaumer, 1879; *Eclytus capra* Hedwig, 1957). Parasitoid of various species of Cerambycidae. Russia: **EP** (N, NW, C, S), **ES** (KR). – Europe (WE, NE, SE, EE), Caucasus, China (NE).

ODONTOCOLON Cushman, 1942 (*Odontomerus* Gravenhorst, 1829, nom. praeocc., nec Leach, 1819). Predominantly Holarctic genus with several species in the Oriental region. Type species: *Ichneumon dentipes* Gmelin, 1790. Number of species: World – 44, Palearctic – 18, Russia – 13.

Odontocolon appendiculatum (Gravenhorst, 1829) [Odontomerus] (*Odontomerus cretensis* Szépligeti, 1914). Parasitoid of *Arhopalus rusticus* L. (Cerambycidae) and *Scolytus scolytus* F. (Curculionidae). Russia: **EP** (N, NW, C), **ES** (IR). – Europe (WE, NE, SE, EE), Caucasus.

Odontocolon dentipes (Gmelin, 1790) [Ichneumon] (*Ophion femoratus* Olivier, 1811; *Odontomerus pinetorum* Thomson, 1877). Parasitoid of coleopterans *Anastrangalia dubia* Scop., *Arhopalus rusticus* L., *A. syriacus* Rtt., *Asemum striatum* L., *Spondylis buprestoides* L., *Tetropium fuscum* F. (Cerambycidae), *Mesites tardyi* Curt. (Curculionidae) and *Attagenus pellio* L. (Dermestidae). Russia: **EP** (N, NW, C), **ES** (YA), **FE** (KA). – Europe (WE, NE, SE, EE), Turkey, Kazakhstan.

Odontocolon geniculatum (Kriechbaumer, 1889) [Odontomerus]. Parasitoid of *Acanthocinus* spp. and *Monochamus saltuarius* Gebl. (Cerambycidae). Russia: **EP** (NW, C, S, NC), **ES** (IR), **FE** (SA, KU). – Europe (WE, NE, SE, EE), China (NE).

Odontocolon jezoense (Uchida, 1928) [Odontomerus]. Russia: **FE** (KU). – China (NE), Japan (Hok, Hon).

Odontocolon microclausum Uchida, 1955. Russia: **FE** (KH, SA, KU, MG). – China (NE, NC, SW, WP), Korean Peninsula.

Odontocolon minutum (Telenga, 1930) [Odontomerus]. Russia: **EP** (NW).

- Odontocolon nikkoense** (Ashmead, 1906) [Odontomerus] (*Odontomerus karafutonis* Uchida, 1928). Russia: **FE** (SA, KU). – China (NE, NC), Korean Peninsula, Japan.
- Odontocolon punctulatum** (Thomson, 1877) [Odontomerus]. Parasitoid of *Mesites tardyi* Curt. (Curculionidae). Russia: **EP** (N, NW, C, E, S), **WS** (AL), **ES** (IR). – Europe (WE, NE, SE, EE).
- Odontocolon quercinum** (Thomson, 1877) [Odontomerus] (*Odontomerus liogaster* Szépligeti, 1914; *O. similis* Habermehl, 1920; *O. brunneiventris* Telenga, 1930). Parasitoid of *Buprestis haemorrhoidalis araratica* Mars. (Buprestidae), *Hylotrupes bajulus* L. and *Monochamus galloprovincialis* Oliv. (Cerambycidae). Russia: **EP** (C, S, CR). – Europe (WE, NE, SE, EE), Georgia.
- Odontocolon rufiventris** (Holmgren, 1860) [Odontomerus]. Parasitoid of *Conopalpus testaceus* Oliv. and *Hypulus bifasciatus* F. (Melandryidae). Russia: **EP** (NC). – Europe (WE, NE, SE, EE).
- Odontocolon spinipes** (Gravenhorst, 1829) [Odontomerus] (*Odontomerus melanarius* Holmgren, 1860). Parasitoid of coleopteran *Pogonocherus* spp., *Rhagium* spp. and *Tetropium castaneum* L. (Cerambycidae). Russia: **EP** (N, S), **ES** (YA), **FE** (PR). – Europe (WE, NE, SE, EE), China (NE, NC/NW).
- Odontocolon stejneri** (Cushman, 1924) [Odontomerus]. Russia: **FE** (SA).
- Odontocolon thomsoni** (Clément, 1938) [Odontomerus]. Russia: **EP** (N, NW, C). – Europe (WE, NE, SE, EE).
- XORIDES** Latreille, 1809 (*Xylonomus* Gravenhorst, 1829; *Gonophonus* Foerster, 1869; *Moerophora* Foerster, 1869; *Rhadina* Foerster, 1869; *Sichelia* Foerster, 1869; *Sterotrichus* Foerster, 1869; *Macrosterotrichus* Kokujev, 1903; *Rhadinopimpla* Schulz, 1911; *Neoxylonomus* Clément, 1938; *Xylonomus* Clément, 1938; *Exomus* Townes, 1960). Type species: *Ichneumon indicatorius* Latreille, 1806. Large worldwide genus. Number of species: World – 160, Palaearctic – 65, Russia – 23.
- Xorides alpestris** (Habermehl, 1903) [Xylonomus] (*Sichelia korotnevi* Kokujev, 1927). Parasitoid of *Anastrangalia dubia* Scop., *Leptura aethiops* Poda, *L. quadrifasciata* L. and *Necydalis major* L. (Cerambycidae). Russia: **EP** (N, NW), ? **ES** (IR), ? **FE** (south of the Far East: Kasparyan et al., 1981). – Europe (WE, NE, SE, EE).
- Xorides annulator** (Fabricius, 1804) [Cryptus] (*Ichneumon circulator* Thunberg, 1822; *Xylonomus fasciipennis* Kriechbaumer, 1894). Parasitoid of *Dicerca berolinensis* Herbst and *Latipalpis plana* Oliv. (Buprestidae). Russia: **EP** (CR), ? **ES** (IR). – Europe (WE, SE, EE), Turkey.
- Xorides ater** (Gravenhorst, 1829) [Xylonomus]. Parasitoid of *Arhopalus rusticus* L., *Callidium aeneum* Deg., *Leiopus punctulatus* Payk., *Plagionotus arcuatus* L. and *Tetropium* spp. (Cerambycidae). Russia: **EP** (N, C), ? **ES** (IR), **FE** (PR, SA). – Europe (WE, NE, SE, EE), China (NE).
- Xorides brachylabis** (Kriechbaumer, 1889) [Xylonomus] (*Xylonomus sachalinensis* Uchida, 1928). Parasitoid of various species of Cerambycidae. Russia: **EP** (N, NW), **FE** (SA). – Europe (WE, NE, EE), China (NE).
- Xorides corcyrensis** (Kriechbaumer, 1894) [Xylonomus]. Parasitoid of *Osphranteria* sp., *Plagionotus arcuatus* L., *Ropalopus varini* Bedel and *Semanotus ligneus* F. (Cerambycidae). ? Russia: **EP** (E). – Europe (SE, EE), Iran.
- Xorides depressus** (Holmgren, 1860) [Xylonomus] (*Rhadinopimpla baueri* Clément, 1938; *Rh. linearis* Clément, 1938). Parasitoid of *Melanophila cyanea* F. (Buprestidae), *Monochamus galloprovincialis* Oliv. and *Nothorhina punctata* F. (Cerambycidae). Russia: **EP** (N, NW, S), **WS/ES** (without regions: Kasparyan et al., 1981). – Europe (WE, NE, SE, EE).
- Xorides ephialtoides** (Kriechbaumer, 1882) [Xylonomus]. Parasitoid of *Dicerca* spp., *Lampra rutilans* F. (Buprestidae) and *Monochamus sartor* F. (Cerambycidae). ? Russia: **ES** (ZB). – Europe (WE, SE, EE), Georgia, Mongolia.
- Xorides filiformis** (Gravenhorst, 1829) [Xylonomus] (*Xylonomus habermehli* Kiss, 1926; *X. obscuripes* Kiss, 1929; *Sichelia bicolor* Clément, 1938). Parasitoid of various Cerambycidae species; also recorded from *Xiphydria longicollis* Geoffr. (Hymenoptera: Xiphydriidae). Russia: **EP** (N, C, CR). – Europe (WE, NE, SE, EE), ? Turkey.
- Xorides fuligator** (Thunberg, 1822) [Ichneumon] (*Ichneumon sordator* Thunberg, 1822; *Xylonomus pilicornis* Gravenhorst, 1829). Parasitoid of *Arhopalus rusticus* L. and *Saperda* spp. (Cerambycidae). Russia: **EP** (C, NC). – Europe (WE, NE, SE, EE), Caucasus, Turkey.
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- Xorides gravenhorstii** (Curtis, 1831) [Xylonomus] (*Xylonomus securicornis* Holmgren, 1860; *X. glyptus* Thomson, 1877; *X. clavicornis* Kriechbaumer, 1879; *X. distinguendus* Magretti, 1884; *Sichelia hungarica* Szépligeti, 1899; *Xylonomus seticornis* Strobl, 1902; *X. rufoscutellata* Habermehl, 1918; *X. kokujevi* Meyer, 1922; *X. rufus* Kiss, 1924; *X. caucasicus* Shestakov, 1925; *Xorides romani* Clément, 1938). Parasitoid of species from coleopteran families Anobiidae, Bostrichidae, Cerambycidae, etc. Russia: **EP** (S, CR). – Europe (WE, NE, SE, EE), N Africa, Caucasus, Turkey, Israel.
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Submitted October 8, 2019;
 accepted November 15, 2019

**ANNOTATED CATALOGUE
OF THE HYMENOPTERA OF RUSSIA**

VOLUME II

APOCRITA: PARASITICA

Edited by S.A. Belokobylskij and A.S. Lelej

ТРУДЫ ЗООЛОГИЧЕСКОГО ИНСТИТУТА
РОССИЙСКОЙ АКАДЕМИИ НАУК

ПРИЛОЖЕНИЕ № 8

Компьютерная верстка *К.Г. Самарцева*

Подписано в печать 28.11.2019. Формат 84 x 108/16.
Бумага офсетная и меловая. Печать цифровая.
Усл. печ. л. 62.58. Тираж 300 экз.

Издательство ООО «Лема»
199004, Санкт-Петербург, 1 линия В.О., 28