

Synoptic list of the Pteromalidae (Hymenoptera, Chalcidoidea) from Kazakhstan and Middle Asia

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The Pteromalidae occupied almost the whole extension of Earth's dry lands excluding the Arctic and Antarctic waste landscapes and the high altitude alpine belts. The great diversity and abundance of pteromalids testifies their role in nature. The practical significance of this family is further enhanced by the fact that many of its species represent a useful complement to the agrobiocenoses and forest ecosystems. Some species destroy pests attacking food reserves, seed funds and forage grain.

The investigation of pteromalids is being conducted in many countries of the world. The fauna of Western Palaearctic, especially West Europe, has been studied better than other regions, although not exhaustively.

The publication of a preliminary list of Kazakhstan and Middle Asia pteromalids has become possible thanks to the investigation of the rich collections of foreign Museums and first of all the Natural History Museum in London in 1999. The colossal quantities of the pteromalids collection accumulated in this Museum and the limited time which I could dedicate to their study did not permit me to work enough on many taxa. Moreover after my first visit of the Museum they received new materials from different corners of the world which have been left uninvestigated by the author. In 2004 I again had an opportunity to work some time in this Museum and, although during this visit my main attention was turned to the study of genus *Mesopolobus* Westwood, I also managed to investigate many other pteromalid taxa.

The taxonomic composition of Kazakhstan pteromalids has been studied in a more complete form than the corresponding composition of similar faunas in Kyrgyzstan, Uzbekistan, Tajikistan and Turkmenistan where it is represented fragmentarily. Although the pteromalids fauna of Kazakhstan has not been investigated in a sufficiently complete manner, its regional particularities can be traced in a relatively precise mode. The highly continental climate of Kazakhstan, the wide extensions of the treeless steppes and the distinctly expressed zonality in combination with the complicated system of vertical mountain belts condition the rich faunistic diversity of pteromalids in this region.

The pteromalids fauna of the region includes taxa pertaining to different faunistic complexes. One of the most characteristic peculiarities of this fauna is the mixture of Central Asiatic faunistic elements with mediterranean ones. However, richness and originality of pteromalids fauna of Kazakhstan, conditioned by the heterogeneity of landscapes and the history of its formation have not yet been fully clarified. Much is to be done still to this purpose. The level of completeness in the investigation of this family highly varies according to different regions. The taxonomic composition of South-East Kazakhstan fauna has been clarified with the utmost completeness. It should be expected that the faunistic list of pteromalids will increase considerably due to the discovery of yet unknown species.

As a basis for this publication have been utilized the materials collected by the author in Kazakhstan while travelling on expeditions organized by the Institute of Zoology, Republic of Kazakhstan, as well as materials received with the aim of their identification from different academical and applied scientific Institutions of the former Soviet Union. And, although our understanding of the composition of pteromalids fauna in Middle Asia, in contrast to pteromalids fauna in Kazakhstan, is based mainly on fragmentary data, it nevertheless substantially complements our comprehension of the geographical distribution of these pteromalids. The given list has been composed taking into account new synonyms, species new for science and species new for the territories being investigated and brought to light after the preliminary list had been published. Moreover the geographical distribution of every species outside the limits of Kazakhstan and the former Middle Asiatic Republics of the Soviet Union are given in the list being published here.

Synonyms are given according to: Askew, 1965; 1972; Baur, 2000; 2001; Bouček, 1957; 1961; 1963; 1965a; 1971; 1976; 1981; 1988; 1990; Bouček & Graham, 1978; 1978a; Bouček & Rasplus, 1991; Bouček, Subba Rao & Farooqi, 1979; Burks, 1979; Crawford, 1914; Delucchi, 1955; 1956; 1959; De Santis, 1952; Dzhanokmen & Grissell, 2003; Förster, 1856; Gibson, 2000; 2001; Gibson & Floate, 2001; Gibson & Vikberg, 1998; Graham, 1956; 1956a; 1957; 1969; 1979; 1992; 1992a; 1993; 1994; 1994a; 1995; Graham & Claridge, 1965; Grissell, 1981; 1985; Hedqvist, 1963; Heydon, 1989; 1994; 1995; Heydon & Bouček, 1992; Heydon & Grissell, 1988; Kamijo, 1981; 1983; Kamijo &

Grissell, 1982; Kamijo & Takada, 1973; Kurdjumov, 1913; Muesebeck, Krombein & Townes, 1951; Peck, 1963; Rasplus, 1989; Walker, 1848.

Before the author's investigations the following pteromalid species were registered on the territory of Kazakhstan: *Conomorium amplum* (Walker), *Cyclogastrella simplex* (Walker), *Dibrachys* (*s.str.*) *cavus* (Walker), *Norbanus* (*P.*) *laevis* Bouček, *Pachyneuron solitarium* (Hartig), *Psilonotus adamas* Walker, *Systasis* (*s.str.*) *encyrtoides* Walker, *Chrysolampus thenae* (Walker), *C. verae* (Nikolskaya), *Chrysomalla roseri* Förster, *Eunotus antshar* Nikolskaya (Коломиец, 1958; Никольская, 1952; Никольская, Кяо, 1954; Bouček, 1969; Саакян-Баранова, Сугоняев, Шельдешова, 1971; Зерова, 1973). The subsequent communications on pteromalids of this region pertain mainly to the author of this publication (Джанокмен, 1974; 1975; 1975a; 1977; 1978; 1979; 1979a; 1979b; 1980; 1980a; 1982; 1982a; 1984; 1985; 1987; 1989; 1990; 1993; 1994; 1995; 1995a; 1996; 1996a; 1998; 1999; 1999a; 2000; 2001; Dzhanokmen, 2001; Джанокмен, Казенас, 1974; Джанокмен, Эртевцян, 1990; Dzhanokmen, Grissell, 2002).

Up the moment of the composition of pteromalids list on the territory of Middle Asia Republics (Kyrgyzstan, Uzbekistan, Turkmenistan, Tajikistan) in its preliminary variant, only a few pteromalid species were known. These are - *Arthrolytus maculipennis* (Walker), *Coelopisthia pachycera* Masi, *Cyrtoptyx pistaciae* (Nikolskaya), *Dibrachys* (*A.*) *hians* Bouček, *D.* (*s.str.*) *cavus* (Walker), *Dinotiscus colon* Linnaeus, *Pteromalus* (*H.*) *praecocellae* Bouček, *Pachyneuron aphidis* (Bouché), *P. formosum* Walker, *Roptrocercus xylophagorum* (Ratzeburg), *Trichomalopsis potatoriae* (Graham), *Theocolax elegans* (Westwood) from Kyrgyzstan (Bouček, 1967; Джанокмен, 1987; Тарбинский, Милько, 1996); *Anogmus bouceki* Dzhanokmen, *A. noyesi* Dzhanokmen, *Catolaccus crassiceps* (Masi), *Erdoesina alboannulata* (Ratzeburg), *Nasonia vitripennis* (Walker), *Norbanus* (*P.*) *laevis* Bouček, *Pachycrepoideus vindemmiae* (Rondani), *Chrysomalla tobiasi* Dzhanokmen, *Spalangia cameroni* Perkins, *S. endius* Walker, *S. nigra* Latreille, *S. nigripes* Curtis, *S. nigroaenea* Curtis, *S. rugulosa* Förster, *S. subpunctata* Förster from Uzbekistan (Bouček, 1963, 1969; Сычевская, 1963, 1964; Джанокмен, 1981, 1987; Dzhanokmen, 2001); *Pachyneuron formosum* Walker, *P. nelsoni* Girault, *Chrysomalla roseri* Förster from Tajikistan (Зерова, 1973; Гафаров, 1979); *Cyrtoptyx pistaciae* (Nikolskaya), *Pteromalus puparum* (Linnaeus), *Callocleonimus pulcher* Masi, *Elatomorpha deserticola* Zerova from Turkmenistan (Никольская, 1935; Зерова, 1970; Джанокмен, Эртевцян, 1986; Джанокмен, 1987).

The pteromalids' denominations which have been mentioned in earlier publications of different authors are given in this paper taking into account the changes in nomenclature adopted later by these authors and their followers. The identification of species was clarified by means of studying the types and collection materials of foreign Museums such as Zoological Institute, Russian Academy of Sciences (St.Petersburg), The Natural History Museum (London), The National Museum of Natural History (Washington), and The Natural History Museum (Budapest).

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The list contains 330 species out of 109 genera. Out of these 314 species from 105 genera have been identified for Kazakhstan, 39 species out of 26 genera for Kyrgyzstan, 37 species from 27 genera for Uzbekistan, 24 species out of 23 genera for Turkmenistan and 12 species from 10 genera for Tajikistan. The list being published lower fills up to a certain extent the existing blanks in our knowledge of the pteromalids fauna in the Palaearctic arid zone.

Subfamily Pteromalinae

Ablaxia Delucchi, 1957

A. megachlora (Walker), 1835; - Kazakhstan; Europe.

A. squamifera (Thomson), 1878; - Kazakhstan; Europe.

Acrocormus Förster, 1856

A. semifasciatus Thomson, 1878; - Kazakhstan; Europe.

Amphidocius Dzhanokmen, 1974

A. xanthogaster Dzhanokmen, 1974; - Kazakhstan, Turkmenistan; Mongolia.

Anisopteromalus Ruschka, 1912 (= *Aplastomorpha* Crawford, 1913)

A. calandrae (Howard), 1881 (= *Pteromalus oryzae* Cameron, 1881;
Meraporus vandinei Tucker, 1910; *Anisopteromalus mollis* Ruschka, 1912;
Neocatolaccus australiensis Girault, 1913; *Aplastomorpha pratti* Crawford, 1913;
Neocatolaccus indicus Ayyar & Mani, 1937;
Neocatolaccus mamezophagus Ishii & Nagasawa, 1942); - Kazakhstan;
Cosmopolitan.

Anogmus Förster, 1856 (= *Platythorax* Erdős, 1948)

A. bouceki Dzhanokmen, 2001; - Uzbekistan.
A. bulgaricus Bouček, 1971; - Kazakhstan; Eastern Europe.
A. noyesi Dzhanokmen, 2001; - Uzbekistan.
A. strobilorum Thomson, 1878; - Kazakhstan; Europe.
A. trjapitzini Dzhanokmen, 2001; - Kazakhstan.

Atrichomalus Graham, 1956

A. triannelatus Graham, 1956; - Kazakhstan; Central Europe.

Caenocrepis Thomson, 1878

C. arenicola Thomson, 1878; - Kazakhstan; Azerbaijan, Europe.
C. bothynoderi Gromakov, 1940; - Kazakhstan, Kyrgyzstan, Turkmenistan;
Azerbaijan, Eastern Europe.

Callitula Spinola, 1811 (= *Micromelus* Walker, 1833)

C. bicolor Spinola, 1811 (= *Micromelus rufomaculatus* Walker, 1833;
Pteromalus plagiatus Nees, 1834); - Kazakhstan; Europe, Azerbaijan, North
America.

Catolaccus Thomson, 1878 (= *Merisoides* Masi, 1911; *Hortobagya* Szelényi, 1981)

C. ater (Ratzeburg), 1852 (= *Catolaccus cavigena* Thomson, 1878); - Kazakhstan,
Kyrgyzstan; Europe, Transcaucasia, Siberia.
C. coleophorae Dzhanokmen, 1990; - Turkmenistan.
C. crassiceps (Masi), 1911; - Kazakhstan, Uzbekistan; Europe.
C. kumatshjovi Dzhanokmen, 1980; - Kazakhstan.

Cecidostiba Thomson, 1878

C. (s.str.) fungosa (Geoffroy), 1785 (= *Pteromalus hiliaris* Walker, 1836;
Pteromalus annulicornis Förster, 1841; *Pteromalus leucopezus* Ratzeburg, 1844;
Pteromalus naubolus Walker, 1845; *Pteromalus meconotus* Ratzeburg, 1848;
Cecidostiba rugifrons Thomson, 1878); - Kazakhstan; Europe.

Cheiropachus Westwood, 1828 (= *Tropidogastra* Ashmead, 1804)

C. quadrum (Fabricius), 1828 (= *Pteromalus bimaculatus* Swederus, 1795;
Pteromalus bicaliginosus Ratzeburg, 1844; *Pteromalus binaevius* Ratzeburg, 1844;
Pteromalus fraxini Ratzeburg, 1844; *Pteromalus binimbatus* Ratzeburg, 1844;
Pteromalus binubeculatus Ratzeburg, 1844;
Pachychirus intermedius Förster); - Kazakhstan, Kyrgyzstan, Turkmenistan;
Europe, North Africa, North America, Argentina.

Chlorocyclus Graham, 1956 (= *Legolasia* Hedqvist, 1974)

C. diversus (Walker), 1836 (= *Pteromalus rhytium* Walker, 1848);

Pteromalus sybritia Walker, 1848;
Etroxys (Habroclytus) laeviusculus Thomson, 1878); - Kazakhstan, Kyrgyzstan,
 Uzbekistan; Europe.

C. longicauda (Thomson), 1878; - Kazakhstan; Europe.

C. phalaridis Graham, 1965; - Kazakhstan; Western Europe.

C. polichna (Walker), 1848 (*C. longiscapus* Graham, 1965); - Kazakhstan; Europe.

C. spenceri Graham, 1965; - Kazakhstan; Europe.

Coelopisthia Förster, 1856 (*Kranophorus* Graham, 1956)

C. extenta (Walker), 1835 (= *Pteromalus catillus* Walker, 1835;

Pteromalus rotundiventris Zetterstedt, 1838; *Pteromalus druso* Walker, 1839;

Pteromalus breviramulus Förster, 1841; *Coelopisthia cephalotes* Thomson, 1878);

- Kazakhstan, Kyrgyzstan, Uzbekistan; Europe, Azerbaijan.

Conomorium Masi, 1924

C. amplum (Walker), 1835 (= *Pteromalus eremita* Förster, 1841; *Pteromalus scopas*
 Walker, 1849); - Kazakhstan, Uzbekistan; Europe.

C. patulum (Walker), 1835 (= *Coelopisthus vitripennis* Thomson, 1878); -
 Kazakhstan; Europe, Transcaucasia.

Coruna Walker, 1833 (= *Coryna* Walker, 1846; *Pachycrepis* Förster, 1856)

C. clavata Walker, 1833 (= *Gastrancistrus hierocles* Walker, 1848;

Coryna dubia Buckton, 1879); - Kazakhstan; Europe, North America.

Cyclogastrella Bukovskij, 1938

C. arida Dzhanokmen et Grissell, 2002; - Kazakhstan.

C. flavius (Walker), 1839 (= *Pteromalus cepio* Walker, 1848;

Metopon (Dirhichnus) heterotomus Thomson, 1878); -
 Kazakhstan; Northern & Central Europe.

C. simplex (Walker), 1834 (= *Pteromalus deplanatus* Nees, 1834;

Pteromalus domesticus Walker, 1835; *Pteromalus artemon* Walker, 1839;

Pteromalus merope Walker, 1839; *Pteromalus phasis* Walker, 1848;

Pteromalus acco Walker, 1848; *Pteromalus androbius* Walker, 1848;

Cyclogastrella quercina Bukovskij, 1938); - Kazakhstan, Uzbekistan;
 West Palaearctic.

Cyrtopyx Delucchi, 1956

C. gallicola Dzhanokmen, 1977; - Kazakhstan.

C. latipes (Rondani), 1877 (= *Dinarmus dacicida* Masi, 1908); - Kazakhstan;
 South Europe, Transcaucasia.

C. pistaciae (Nikolskaya), 1935; - Kyrgyzstan, Turkmenistan; Armenia, Crimea.

C. lichtensteini (Masi), 1921; - Kazakhstan; France, North Africa.

Dibrachoides Kurdjumov, 1913

D. dynastes (Förster), 1841 (= *Pteromalus transversus* Förster, 1841;

Pteromalus (Dibrachys) acutus Thomson, 1878;

Dibrachoides druso Graham, 1956); - Kazakhstan, Kyrgyzstan; Europe,
 Transcaucasia, North Africa.

D. sp. n.; - Kazakhstan, Kyrgyzstan, Uzbekistan.

Dibrachys Förster, 1856

D. (Allo)dibrachys) hians Bouček, 1965; - Uzbekistan; Southern & Western Europe.

D. (s.str.) cavus (Walker), 1835 (= *Pteromalus decedens* Walker, 1835;

Pteromalus boucheanus Ratzeburg, 1844); - Kazakhstan, Kyrgyzstan, Uzbekistan,
 Tajikistan, Turkmenistan; Holarctic.

D. (s.str.) maculipennis Szelenyi, 1957; - Kyrgyzstan; Hungary.

D. sp., near *D. cavus*; - Kazakhstan.

D. sp., near *D. hians*; - Kazakhstan.

Diglochis Förster, 1856 (= *Pteromalus* sgen. *Trichoglenus* Thomson, 1878)

D. sylvicola (Walker), 1835 (= *Pteromalus complanatus* Ratzeburg, 1844; *Diglochis hybomitri* Dzhanokmen, 1979, **syn. n.**); - Kazakhstan; Europe, Transcaucasia.

Dinarmus Thomson, 1878 (= *Bruchobius* Ashmead, 1904; *Oedaule* Waterston, 1922; *Sphaerakis* Masi, 1924)

D. acutus Thomson, 1878 (= *Pteromalus robustus* Walker, 1847; *Pteromalus kollari* Dalla Torre, 1898; *Sphaerakis mayri* Masi, 1924; *Bruchobius arachnephaga* Risbec, 1951; *Dinarmus bifoveolatus* Delucchi, 1956); - Kazakhstan, Central Asia; Europe, Transcaucasia, Africa, India, North America.

D. italicus (Masi), 1922; - Kazakhstan, Uzbekistan, Turkmenistan; Mediterranean region.

Dinotiscus Ghesquière, 1946

D. eupterus (Walker), 1836 (= *Pteromalus dimidiatus* Walker, 1836; *Pteromalus capitatus* Förster, 1841; *Pteromalus lanceolatus* Ratzeburg, 1848; *Dinotus clypealis* Thomson, 1878; *Uriella pityogenis* Ishii, 1939); - Kazakhstan, Central Asia; Europe, Transcaucasia, Siberia.

Erdoesina Graham, 1957

E. alboannulata (Ratzeburg), 1852; - Kazakhstan, Uzbekistan; Europe, Azerbaijan.

Euneura Walker, 1844 (= *Hypsicamara* Förster, 1856; *Gygaxia* Delucchi, 1955)

E. lachni (Ashmead), 1887 (= *Euneura laeviuscula* Graham, 1969); - Kyrgyzstan; Holarctic.

Gbelcia Bouček, 1961 (= *Nasoniella* Szelenyi, 1982)

G. crassiceps Bouček, 1961 (= *Nasoniella conspicua* Szelenyi, 1982); - Kazakhstan; Eastern Europe.

Habritys Thomson, 1878

H. brevicornis (Ratzeburg), 1844 (= *Pteromalus* (*Schizonotus*) *pannewitzii* Ratzeburg, 1852); - Kazakhstan; Holarctic.

Halomalus Erdös, 1953

H. crucifer Erdös, 1953; - Kazakhstan; Central & Southern Europe.

Hemitrichus Thomson, 1878 (= *Uriella* Ashmead, 1896)

H. oxygaster Bouček, 1965; - Kazakhstan; Central & Southern Europe.

Holcaeus Thomson, 1878 (= *Cricellius* Thomson, 1878)

H. gorgasus (Walker), 1839 (= *Etroxys* (*Holcaeus*) *dichrous* Thomson, 1878); - Kazakhstan; Europe.

H. stenogaster (Walker), 1836 (= *Etroxys longicauda* Thomson, 1878); - Kazakhstan; Europe.

Homoporus Thomson, 1878 (= *Phaenacra* Förster, 1878; *Parapteromalus* Ashmead, 1904;

Merisoporus Masi, 1924; *Pseudomerisus* Erdös & Novitzky in Erdös, 1953; *Phaenacroides* Szelenyi, 1956)

- H. apharetus** Walker, 1839 (= *Homoporus flaviscapus* Thomson, 1878); - Kazakhstan, Kyrgyzstan; Europe.
- H. arestor** (Walker), 1848 (= *Homoporus chlorogaster* Thomson, 1878; *Homoporus simplex* Széleányi, 1955); - Kazakhstan, Kyrgyzstan; Europe.
- H. brevigentalis** Dzhanokmen, 1999; - Kazakhstan.
- H. cephalotes** Széleányi, 1956; - Kazakhstan; Hungary.
- H. chalcidiphagus** (Walsh and Riley), 1869 (= *Pteromalus nypsius* Walker, 1839; *Homoporus crassinervis* Thomson, 1878); - Kazakhstan; Cosmopolitan.
- H. cupreus** Erdős, 1953 (= *Homoporus longiventris* Dzhanokmen, 1999); - Kazakhstan; Hungary.
- H. febriculosus** (Girault), 1917 (= *Homoporus filicornis* Erdős, 1953; *Homoporus templarius* Erdős, 1970); - Kazakhstan; Holarctic.
- H. fulviventris** (Walker), 1835 (= *Homoporus clavicornis* Erdős, 1953); - Kazakhstan; Europe; Transcaucasia.
- H. gusztavi** Bouček, 1974; - Kazakhstan; Europe.
- H. laeviusculus** Erdős, 1953; - Kazakhstan; Central Europe, Transcaucasia.
- H. luniger** (Nees), 1834 (= *Pteromalus tricolor* Walker, 1836; *Pteromalus zonaras* Walker, 1839); - Kazakhstan; Europe, Transcaucasia.
- H. propodealis** Dzhanokmen, 1999; - Kazakhstan.
- H. pulchripes** Erdős, 1953; - Kazakhstan; Central Europe.
- H. sashegyensis** Erdős, 1953; - Kazakhstan; Central Europe.
- H. subniger** (Walker), 1835 (= *Pteromalus chalcomelas* Walker, 1836; *Homoporus (Phaenacrinodes) kurdjumovi* Széleányi, 1956; *Homoporus danuvianus* Delucchi, 1957); - Kazakhstan; Europe.
- H. verticalis** Dzhanokmen, 1999; - Kazakhstan.

Ischyroptyx Delucchi, 1956

- I. ligusticus** (Masi), 1921; - Kazakhstan; Europe.
- I. sp.n.**; - Kazakhstan.

Kaleva Graham, 1957

- K. corynocera** Graham, 1957; - Kazakhstan; Europe.

Lariophagus Crawford, 1909

- L. distinguendus** (Förster) (= *Pteromalus calamis* Walker, 1849; *Pteromalus oryzinus* Rondani, 1874; *Meraporus utibilis* Tucker, 1910); - Kazakhstan; Cosmopolitan.
- L. rufipes** Hedqvist, 1978; - Kazakhstan; Central Europe.

Merisus Walker, 1835

- M. flagellatus** Bouček, 1965; - Kazakhstan; South-Eastern Europe.
- M. splendidus** Walker, 1835 (= *Merisus acutangulus* Thomson, 1878); - Kazakhstan; Holarctic.

- Mesopolobus** Westwood, 1833 (= *Platymesopus* Westwood, 1833; *Platyterma* Walker, 1834; *Amblymerus* Walker, 1834; *Eutelus* Walker, 1834; *Xenocrepis* Förster, 1856; *Asemantus* Förster, 1878; *Syntomocera* Förster, 1878; *Disema* Förster, 1878; *Zacalochlora* Crawford, 1913; *Baeoponerus* Masi, 1924; *Ahlbergiella* von Rosen, 1955; *Sturovia* Bouček, 1961; *Isoptrynea* Széleányi, 1982)
- M. aequus** (Walker), 1834 (= *Pteromalus purpureus* Walker, 1835; *Pteromalus contractus* Walker, 1836; *Pteromalus leogoras* Walker, 1839; *Pteromalus odites* Walker, 1845; *Pteromalus temesa* Walker, 1848; *Metastenus purus* Walker, 1872; *Eutelus (Platytermus) decipiens* Thomson, 1878;

Mormoniella oviphaga Ahlberg, 1925; *Amblymerus graminum* Hårdh, 1950); – Kazakhstan; Holarctic.

- M. agropyricola** von Rosen, 1960; - Kazakhstan; North-Western Europe.
M. aspilus (Walker), 1835 (= *Eutelus elongatus* Thomson, 1878); - Kazakhstan; Northern and Central Europe.
M. auditor Dzhankmen, 1975; - Kazakhstan, Turkmenistan.
M. brachyneurus Dzhankmen, 1994; - Kazakhstan.
M. contarinomyiae Dzhankmen, 1995; - Kazakhstan.
M. deserti Dzhankmen, 1994; - Kazakhstan.
M. dichrocerus Dzhankmen, 1974; - Kazakhstan.
M. diffinis (Walker), 1834 (= *Amblymerus latus* Walker, 1834; *Amblymerus pusillus* Walker, 1834; *Amblymerus linearis* Walker, 1834; *Amblymerus stenomerus* Walker, 1834; *Eutelus pygmeus* Walker, 1834; *Eutelus vagans* Walker, 1834; *Pteromalus exilis* Walker, 1836; *Pteromalus leuce* Walker, 1848); - Kazakhstan; Holarctic region.
M. elymi (Dzhankmen), 1984 (= *Platneptis elymi* Dzhankmen, 1984); - Kazakhstan; Holarctic.
M. etsuhoae Dzhankmen, 1989; - Kazakhstan.
M. fedotovae Dzhankmen, 1990; - Kazakhstan.
M. flaviclavatus (Ferrière), 1952; -Kazakhstan; Southern Europe.
M. graminum (Hårdh), 1950; - Kazakhstan; Europe.
M. juniperinus von Rosen, 1958; Kazakhstan; Europe.
M. minutus (Dzhankmen), 1982; - Kazakhstan.
M. morys (Walker), 1848 (*Disema pallipes* Förster, 1878; *Xenocrepis pura* Mayr, 1904); - Kazakhstan, Kyrgyzstan; Holarctic.
M. nikolskayae Dzhankmen, 1989; - Kazakhstan.
M. nobilis (Walker), 1834; - Kazakhstan; Northern & Central Europe.
M. petrosimoniae Dzhankmen, 1994; - Kazakhstan.
M. prasinus (Walker), 1834 (= *Asemantus amphibolus* Förster, 1878); - Kazakhstan.
M. quadrimaculatus Dzhankmen, 1975; - Kazakhstan.
M. rhabdophagae (Graham), 1957; - Kazakhstan; Northern & Central Europe.
M. roseni Graham, 1984; Kazakhstan; Europe.
M. saxauli Dzhankmen, 1995; - Kazakhstan.
M. sericeus (Förster), 1770 (= *Cynips foliaceus* Geoffroy, 1785; *Cynips minutus* Geoffroy, 1785; *Eutelus jucundus* Walker, 1834; *Cinips fuscicornis* Fonscolombe, 1840; *Eutelus (Platytermus) simplex* Thomson, 1878); - Kazakhstan; Europe, Israel.
M. szelenyii Bouček, 1974; - Kazakhstan, Turkmenistan; Eastern Europe, Azerbaijan.
M. teliformis (Walker), 1834 (= *Platyterma cincticorne* Walker, 1834; *Pteromalus placidus* Förster, 1841; *Eutelus brevicornis* Thomson, 1878); - Kazakhstan; Northern & Central Europe.
M. trimeromelas Dzhankmen, 1982; - Kazakhstan.
M. trjapitzini Dzhankmen, 1982; - Kazakhstan.
M. tsherkesi Dzhankmen, 1995; - Kazakhstan.
M. sp.n.; - Kazakhstan.

Metacolus Förster, 1856 (= *Pterosema* Förster, 1878)

- M. azureus** (Ratzeburg), 1844 (= *Pterosema varicolor* Förster, 1878; *Metacolus aulloi* Mercet, 1926); - Kazakhstan; Europe.
M. unifasciatus Förster, 1856 (= *Metacolus beesoni* Mani & Kaul, 1973); - Kazakhstan, Uzbekistan; Europe.

Metastenus Walker, 1834 (= *Scymnophagus* Ashmead, 1904)

- M. concinnus*** Walker, 1834 (= *Scymnophagus mesnili* Ferrière in Delucchi, 1954); - Kazakhstan; Europe.
- Muscidifurax*** Girault & Sanders, 1910 (= *Smeagolia* Hedqvist, 1973)
- M. raptor*** Girault & Sanders, 1910 (= *Smeagolia perplexa* Hedqvist, 1973); - Kazakhstan, Kyrgyzstan, Uzbekistan; Cosmopolitan.
- Nasonia*** Ashmead 1904 (= *Mormoniella* Ashmead, 1904)
- N. vitripennis*** (Walker), 1836 (= *Pteromalus muscarum* Hartig, 1838; *Pteromalus abnormis* Boheman, 1858; *Dicyclus pallinervosus* Walker, 1872; *Stictonotus insuetus* Walker, 1872; *Mormoniella brevicornis* Ashmead, 1904); - Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan; Cosmopolitan.
- Neanica*** Erdős, 1953
- N. clavalis*** Erdős, 1953; - Kazakhstan; known from the type locality in Hungary.
- Nikolskayana*** Bouček, 1965
- N. mirabilis*** Bouček, 1965; - Turkmenistan; South-Western Asia.
- Norbanus*** Walker, 1843 (= *Arthrolysis* Förster, 1856; *Picroscytus* Thomson, 1878; *Stylophorella* Ashmead, 1904; *Picroscytoides* Masi, 1922)
- N. (s. str.) meridionalis*** (Masi), 1919 (= *Arthrolysis scabricula* Masi, 1919); - Kazakhstan; Mediterranean.
- N. (s. str.) mordellidarum*** Dzhanokmen, 1999; - Kazakhstan.
- N. (s. str.) scabriculus*** (Nees), 1834; - Kazakhstan; Europe.
- N. (Picroscytoides) calabrus*** (Masi), 1942
(= *Picroscytoides albiventris* Bouček, 1969); - Kazakhstan, Turkmenistan, Tajikistan; Southern Europe.
- N. (Picroscytoides) cerasiops*** (Masi), 1922; - Kazakhstan; Mediterranean.
- ?*N. (Picroscytoides) erdoesi*** (Szelényi), 1974; - Kazakhstan; Hungary.
- N. (Picroscytoides) laevis*** Bouček, 1969; - Kazakhstan, Uzbekistan; Transcaspiya (Kara-Yazyl).
- N. (Picroscytoides) obscurus*** (Masi), 1922; - Kazakhstan; Mediterranean.
- Pachycrepoideus*** Ashmead, 1904 (= *Anisopteromalina* Bouček, 1954)
- P. vindemmiae*** (Rondani), 1875 (= *Pachycrepoideus dubius* Ashmead, 1904; *Pachycrepoideus elongata* Delucchi, 1955; *Anisopteromalina crassinervis* Bouček, 1954); - Kazakhstan, Kyrgyzstan, Uzbekistan; Cosmopolitan.
- Pachyneuron*** Walker, 1833 (= *Serimus* Brèthes, 1913; *Propachyneuronia* Girault, 1917; *Nepachyneuron* Girault, 1917; *Eupachyneuron* Blanchard in Leiboff, 1948; *Atrichoptilus* Delucchi, 1955)
- P. aphidis*** (Bouché), 1834 (= *Pteromalus minutissimus* Förster, 1841; *Pachyneuron pruni* Walker, 1850; *Encyrtus siphonophorae* Ashmead, 1886; *Pachyneuron aphidivora* Ashmead, 1887; *Pachyneuron maidaphis* Ashmead, 1888; *Pachyneuron micans* Howard, 1890; *Pachyneuron gifuensis* Ashmead, 1904; *Serimus argentinus* Brèthes, 1913; *Pachyneuron lali* Mani, 1939; *Pachyneuron ferrierei* Mani, 1939; *Eupachyneuron bosqui* Blanchard, 1948; *Pachyneuron triarticulata* Mani & Saraswat, 1974); - Kazakhstan, Kyrgyzstan, Tajikistan; Cosmopolitan.
- P. erzurumicum*** Doğanlar, 1986; - Kazakhstan; South-Eastern Europe.
- P. formosum*** Walker, 1833 (= *Pteromalus incubator* Förster, 1841; *Pteromalus amoenus* Förster, 1841); Kazakhstan, Kyrgyzstan, Tajikistan; Europe, Middle East.

- P. grande*** Thomson, 1878; - Kazakhstan, Kyrgyzstan; Europe.
P. groenlandicum (Holmgren) (= *Pachyneura* [sic] *mitsukurii* Ashmead, 1904; *Pachyneuron karnalensis* Mani, 1939; *Pachyneuron coeruleum* Delucchi, 1955; *Pachyneuron umbratum* Delucchi, 1955; *Pachyneuron bakrotus* Mani & Saraswat, 1974); - Kazakhstan; Holarctic.
P. leucopiscida Mani, 1939 (= *Pachyneuron cremifaniae* Delucchi, 1953); - Kazakhstan, Kyrgyzstan; Europe, India.
P. muscarum (Linnaeus), 1758 (= *Pteromalus concolor* Förster, 1841; *Pachyneuron psyllaephagum* Mani, 1939; *Pachyneuron siculum* Delucchi, 1955); - Kazakhstan; Europe.
P. nelsoni Girault, 1928 (= *Pachyneuron aeneus* Masi, 1929); - Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan; Paleotropical.
P. planiscuta Thomson 1878; - Kazakhstan; Europe.
P. solitarium (Hartig), 1838; - Kazakhstan; Europe; Japan.

Paracarotomus Ashmead, 1894 (= *Stirogenium* Dzhanokmen, 1985)

- P. cephalotes*** Ashmead, 1894 (= *Stirogenium asiaticum* Dzhanokmen, 1985); - Kazakhstan; Cosmopolitan.

Peridesmia Förster, 1856

- P. discus*** (Walker), 1835 (= *Pteromalus subquadratus* Walker, 1836; *Pteromalus phyllus* Walker, 1839; *Peridesmia phytonomi* Gahan, 1923); - Kazakhstan; Europe.

Phaenocytyus Graham, 1969

- P. glechomae*** (Förster), 1841 (= *Phaenocytyus heptapotamicus* Dzhanokmen, 1990); - Kazakhstan; Germany.

Pseudocatolaccus Masi, 1908 (= *Paradibrachys* Girault, 1917)

- P. arcuatus*** Dzhanokmen, 1979; - Kazakhstan.
P. nitescens (Walker), 1834 (= *Pteromalus thoracicus* Walker, 1835; *Pteromalus elymus* Walker, 1839; *Pteromalus bebryce* Walker, 1839; *Pteromalus euryops* Förster, 1841; *Pteromalus polyphagus* Förster, 1841; *Pteromalus validus* Förster, 1841; *Pseudocatolaccus asphondyliae* Masi, 1908; *Pseudocatolaccus amegallus* Dzhanokmen, 1989); - Kazakhstan.
P. transversus Dzhanokmen, 1979; - Kazakhstan, Turkmenistan.

Psilocera Walker, 1833 (= *Metopon* Walker, 1834; *Lophocomodia* Ashmead, 1888)

- P. confusa*** Graham, 1992; - Kazakhstan; Europe.
P. crassispina (Thomson), 1878 (= *Pteromalus curtulus* Dalla Torre, 1898); - Kazakhstan; Europe.
P. punctifrons (Thomson), 1878; - Kazakhstan; Northern & Central Europe.

Psilonotus Walker, 1834 (= *Janvartsovia* Nikolskaya, 1954)

- P. achaeus*** Walker, 1848 (= *Pteromalus cyamon* Walker, 1848; *Psilonotus viridulus* Thomson, 1878); - Kazakhstan; Europe.
P. adamas Walker, 1834 (= *Psilonotus catuli* Förster, 1856; *Eutelus* (*Psilonotus*) *aureolus* Thomson, 1878; *Janvartsovia betulae* Nikolskaya, 1954); - Kazakhstan; Europe.

Pterapicus Dzhanokmen, 1974

- P. isjaslavi*** Dzhanokmen, 1974; - Kazakhstan.

P. kazenasi Dzhanokmen, 1977; - Kazakhstan.

Pteromalus Swederus, 1795 (= *Colas* Curtis, 1827; *Gnatho* Curtis, 1829;
Metopachia Westwood, 1839; *Habrocytus* Thomson, 1878;
Heterolaccus Masi, 1937; *Gerontidiella* Széleányi, 1982)

P. (Pteromalus) bifoveolatus Förster, 1861 (= *Pteromalus saturniae* Rudow, 1886;
Heterolaccus mauritanicus Masi, 1937); - Kazakhstan; Europe.

P. (Pteromalus) vopiscus Walker, 1839 (= *Pteromalus maculatus* Dzhanokmen, 1998); -
Kazakhstan; Europe.

P. (Pteromalus) melitaeae Dzhanokmen, 1998; - Kazakhstan.

P. (Pteromalus) puparum (Linnaeus), 1758 (= *Pteromalus latifrons* Walker, 1835;
Pteromalus cephalotes Walker, 1836; *Pteromalus comes* Walker, 1835;
Pteromalus ornitus Walker, 1839; *Pteromalus brassicae* Curtis;
Pteromalus pontiae Curtis, 1842; *Pteromalus orinus* Walker, 1845;
Pteromalus nigricans Walker, 1872; *Pteromalus brassicae* Packard, 1877;
Pteromalus pieridis Provancher, 1881; *Pteromalus nigrutilus* Dalla Torre, 1898); -
Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan; Cosmopolitan.

P. (Pteromalus) transilensis Dzhanokmen, 1998; - Kazakhstan.

P. (Habrocytus) actinopterae Hedqvist, 1977; - Kazakhstan; Sweden.

P. (Habrocytus) albipennis Walker, 1835 (= *Pteromalus coeruleus* Dalman, 1820;
Pteromalus cingulipes Walker, 1835; *Pteromalus plenus* Walker, 1835;
Pteromalus albipennis Zetterstedt, 1838; *Pteromalus zelus* Walker, 1839;
Pteromalus coeno Walker, 1848; *Pteromalus priansos* Walker, 1848;
Pteromalus orthagus Walker, 1848; *Pteromalus diomedon* Walker, 1848;
Habrocytus beryllinus Thomson, 1878); - Kazakhstan; Europe.

P. (Habrocytus) arenarius Dzhanokmen, 2001; - Kazakhstan.

P. (Habrocytus) bedeguaris (Thomson), 1878; - Kazakhstan, Kyrgyzstan, Uzbekistan,
Tajikistan; Europe.

P. (Habrocytus) capreae (Linnaeus) *sensu* Thomson, 1761; - Kazakhstan; Europe.

P. (Habrocytus) cardui (Erdös), 1953; - Kazakhstan; Northern & Central Europe.

P. (Habrocytus) chrysos (Walker), 1836 (= *Pteromalus inclusus* Walker, 1836;
Pteromalus zipaetes Walker, 1839; *Pteromalus telon* Walker, 1839;
Habrocytus acutigena Thomson, 1878); - Kazakhstan; Europe.

P. (Habrocytus) cioni (Thomson), 1878; - Kazakhstan; Europe.

P. (Habrocytus) dispar (Curtis), 1827 (= *Diplolepis braconidis* Bouché, 1834;
Pteromalus basalis Walker, 1835; *Pteromalus mesochlorus* Walker, 1835;
Pteromalus cabarnos Walker, 1839; *Pteromalus saravus* Walker, 1845;
Pteromalus jaravus Walker, 1846; *Habrocytus radialis* Thomson, 1878); -
Kazakhstan; Europe.

P. (Habrocytus) elevatus (Walker), 1834 (= *Pteromalus ceropasades* Walker, 1839;
Pteromalus boreus Walker, 1839; *Pteromalus deucetius* Walker, 1839;
Habrocytus dentifer Thomson, 1878; *Habrocytus trypetae* Varley, 1937); -
Kazakhstan, Kyrgyzstan, Uzbekistan; Europe.

P. (Habrocytus) floricola Dzhanokmen, 2001; - Kazakhstan.

P. (Habrocytus) galatellae Dzhanokmen, 2002; - Kazakhstan.

P. (Habrocytus) intermedius (Walker), 1834; - Kazakhstan; Northern Europe.

P. (Habrocytus) meligethi Dzhanokmen, 1977; - Uzbekistan.

P. (Habrocytus) microps (Graham), 1969 (= *Mesopolobus gallarius* Dzhanokmen, 1979);
- Kazakhstan; Europe.

P. (Habrocytus) obscurus (Thomson), 1878; - Kazakhstan; Northern Europe.

P. (Habrocytus) platyphilus (Walker) (= *Pteromalus amplus* Walker, 1836;
Catolaccus pappi Széleányi, 1982); - Kazakhstan, Kyrgyzstan, Turkmenistan;
Europe.

- P. (*Habrocytus*) *praecocellae*** Bouček, 1967; - Kyrgyzstan.
- P. (*Habrocytus*) *semotus*** (Walker) (= *Pteromalus imbutus* Walker, 1835; *Pteromalus solutus* Walker, 1835; *Pteromalus cupreus* Walker, 1835; *Pteromalus lugubris* Walker, 1835; *Pteromalus maerens* Walker, 1836; *Pteromalus thalassinus* Walker, 1836; *Pteromalus equestris* Walker, 1836; *Pteromalus pione* Walker, 1839; *Pteromalus variabilis* Ratzeburg, 1844; *Pteromalus glautias* Walker, 1848; *Pteromalus amnisos* Walker, 1848; *Habrocytus parvinucha* Thomson, 1878; *Etroxys marginicollis* Cameron, 1906; *Habrocytus milleri* Delucchi & Verbeke, 1953); - Kazakhstan; Cosmopolitan.
- P. (*Habrocytus*) *sequester*** Walker, 1835 (= *Pteromalus varius* Walker, 1835; *Pteromalus infectus* Walker, 1835; *Pteromalus placidus* Walker 1835; *Pteromalus simulans* Walker, 1836; *Pteromalus oroetes* Walker, 1839; *Pteromalus eulimene* Walker, 1848; *Pteromalus leguminum* Ratzeburg, 1852; *Pteromalus insularis* Walker, 1872); - Kazakhstan, Kyrgyzstan; Europe.
- P. (*Habrocytus*) *tripolii*** (Graham), 1969; - Kazakhstan; Europe.
- P. (*Habrocytus*) *varians*** Spinola, 1808 (= *Pteromalus grandis* Walker, 1835; *Pteromalus latipennis* Walker, 1835; *Pteromalus tenuicornis* Förster, 1841); - Kazakhstan; Europe.

Rakosina Bouček, 1955 (= *Brokkia* Hedqvist, 1977)

R. *deplanata* Bouček, 1955 (= *Brokkia paradoxa* Hedqvist, 1977); Kazakhstan; Europe.

Rhaphitelus Walker, 1834 (= *Styloceras* Ratzeburg, 1844; *Eucerchysius* Brèthes, 1913)

R. *maculatus* Walker, 1834 (= *Pteromalus hecato* Walker, 1839; *Pteromalus subulifer* Förster, 1841); - Kazakhstan, Kyrgyzstan, Uzbekistan; Europe.

Rhopalicus Förster, 1856

R. *tutela* (Walker), 1836 (= *Cleonymus maculifer* Förster, 1841; *Pteromalus suspensus* Ratzeburg, 1844; *Pteromalus spinolae* Ratzeburg, 1844; *Pteromalus immaculatus* Ratzeburg, 1844; *Pteromalus lunula* Ratzeburg, 1848; *Pteromalus aemulus* Ratzeburg, 1848; *Rhopalicus annellus* Thomson, 1878); - Kyrgyzstan; Europe.

Roptrocerus Ratzeburg, 1848 (= *Pachyceras* Ratzeburg, 1844; *Roptoceroidea* Ishii, 1939)

R. *xylophagorum* (Ratzeburg), 1844 (= *Pachyceras eccoptogastri* Ratzeburg, 1844; *Roptrocerus rectus* Provancher, 1887; *Roptrocerus sulcatus* Waterston, 1922; *Roptoceroidea karafutoensis* Ishii, 1939; *Roptoceroidea ips* Ishii, 1939); - Kazakhstan; Europe.

Sceptrothelys Graham, 1956

S. *intermedia* Graham, 1969; - Kazakhstan; Europe, USA.

Schizonotus Ratzeburg, 1852

S. *latus* (Walker), 1833 (= *Arthrolytus incongruens* Masi, 1907); - Kazakhstan; Europe.

S. *sieboldi* Ratzeburg, 1852; - Kazakhstan; Europe.

Spintherus Thomson, 1878

S. *dubius* (Nees), 1834 (= *Pteromalus nigro-aeneus* Walker, 1835; *Pteromalus signatus* Walker, 1836; *Pteromalus orbiculatus* Walker, 1836; *Pteromalus caligatus* Walker, 1836; *Pteromalus conterminus* Walker, 1836; *Pteromalus codrus* Walker, 1839; *Pteromalus triqueter* Förster, 1841; *Pteromalus flavitarsis* Förster, 1841; *Pteromalus lutescens* Förster, 1841;

Pteromalus opheltes Walker, 1848; *Pteromalus hermachus* Walker, 1848;
Pteromalus anchinoe Walker, 1848; *Pteromalus alimentus* Walker, 1874;
Spintherus obscurus Thomson, 1878; *Spintherus linearis* Kurdjumov, 1913); -
 Kazakhstan, Kyrgyzstan; Palaearctic.

Stenetra Masi, 1931 (= *Neolonchetron* Széleányi, 1982)

S. ligustica Masi, 1931; - Kazakhstan; Southern Europe.

Stenomalina Ghesquière, 1946

S. communis Nees, 1834 (= *Pteromalus continuus* Walker, 1836;
Pteromalus bifrons Walker, 1836; *Pteromalus mycale* Walker, 1839;
Pteromalus nyctimus Walker, 1839; *Pteromalus erasippus* Walker, 1839;
Pteromalus cerycus Walker, 1848; *Stenomalus rugosus* Thomson, 1878;
Stenomalus laetus Ruschka, 1912); - Kazakhstan; Europe.

S. epistena (Walker), 1835 (= *Pteromalus linearis* Walker, 1836;
Pteromalus crotus Walker, 1839; *Pteromalus elyros* Walker, 1848;
Pteromalus themiso Walker, 1848; *Stenomalus subfumatus* Thomson, 1878); -
 Kazakhstan; Europe.

S. aff. fervida Graham, 1965; - Kazakhstan.

S. latieps (Walker), 1848; - Kazakhstan; Europe.

S. micans (Olivier), 1813 (= *Pteromalus bellus* Walker, 1836); - Kazakhstan; Europe.

Stenoselma Delucchi, 1956

S. asiaticum Dzhanokmen & Herthevtzian, 1990; - Kazakhstan.

S. nigrum Delucchi, 1956 (= *Stenoselma haplogastrum* Dzhanokmen, 1975;
Stenoselma armeniacum Dzhanokmen & Herthevtzian, 1990); - Kazakhstan,
 Turkmenistan; Mediterranean.

S. planum Dzhanokmen & Herthevtzian, 1990); - Kazakhstan.

Stichocrepis Förster, 1860

S. armata Förster, 1860; - Kazakhstan; Europe.

Stinoplus Thomson, 1878

S. etearchus (Walker), 1848 (= *Stinoplus aureolus* Thomson, 1878); - Kazakhstan;
 Europe.

Trichargyrus Dzhanokmen, 1989 (probably, synonym of *Cyrtoptyx* Delucchi)

T. jaxartensis Dzhanokmen, 1989; - Kazakhstan.

Trichomalopsis Crawford, 1913 (= *Eupteromalus* Kurdjumov, 1913;

Nemicromelus Girault, 1917; *Metadicylus* Girault, 1926)

T. albopilosa (Graham), 1969; - Kazakhstan; Europe.

T. caricicola Graham, 1969; - Kazakhstan; Europe.

T. aff. fucicola Walker, 1835; - Kazakhstan.

T. genalis (Graham), 1969; - Kazakhstan; Europe.

T. aff. maura (Graham), 1969; - Kazakhstan.

T. microptera (Lindeman), 1887 (= *Baeotomus coxalis* Ashmead, 1897;

Eupteromalus arvensis Kurdjumov, 1914); - Kazakhstan; Europe.

T. tigasis (Walker), 1839; - Kazakhstan; Europe.

Trichomalus Thomson, 1878 (= *Lanceosoma* Erdős, 1953)

T. elongatus Delucchi & Graham, 1956; - Kazakhstan, Kyrgyzstan; Europe

T. gynetelus (Walker), 1835 (= *Pteromalus stigmatizans* Walker, 1872); - Kazakhstan;
 North-Western Europe.

- T. inops*** (Walker), 1835 (= *Pteromalus confinis* Walker, 1836; *Isocyrtus (Trichomalus) rufimanus* Thomson, 1878); - Kazakhstan; Europe.
- T. lepidus*** (Förster), 1841 (= *Isocyrtus (Trichomalus) aeneicoxa* Thomson, 1878); - Kazakhstan; Europe.
- T. nanus*** (Walker) 1836 (= *Pteromalus lucidus* Förster, 1841; *Pteromalus dipoenos* Walker, 1848; *Pteromalus versutus* Förster, 1861; *Isocyrtus (Trichomalus) frontalis* Thomson, 1878); - Kazakhstan; England.
- T. pexatus*** (Walker), 1835 (= *Pteromalus intermedius* Förster, 1841); - Kazakhstan; Europe.
- T. pherospilus*** Dzhankmen, 1975; - Kazakhstan.
- T. posticus*** Walker, 1834 (= *Pteromalus sunides* Walker, 1845; *Isocyrtus (Trichomalus) punctinucha* Thomson, 1878); - Kazakhstan; Europe.
- T. aff. rufinus*** (Walker), 1835; - Kazakhstan.
- T. sp.n.***; - Kazakhstan.

Tritneptis Girault, 1908 (= *Systellogaster* Gahan, 1917; *Kvaseria* Hedqvist, 1978)

- T. affinis*** (Nees), 1834 (= *Diglochis lophyrorum* Ruschka, in Ruschka & Fulmek, 1915); - Kazakhstan; Europe.
- T. diprionis*** Gahan, 1938; - Kazakhstan; Europe, North America.
- T. klugii*** (Ratzeburg), 1844; - Kazakhstan; Europe.

Trjapitzinia Dzhankmen, 1975

- T. leucomae*** Dzhankmen, 1975; - Kazakhstan.

Urolepis Walker, 1846 (= *Halizoa* Förster, 1856; *Belonura* Ashmead, 1896)

- U. maritima*** (Walker), 1834 (= *Pteromalus salinus* v. Heyden, 1844; *Pteromalus alope* Walker, 1848); - Kazakhstan, Uzbekistan, Turkmenistan; Europe, Middle East.

Tribus **Trigonoderini**

Plutothrix Förster, 1856 (= *Anoglyphis* Förster, 1878)

- P. trifasciata*** (Thomson), 1878 (= *Plutothrix foersteri* Mayr, 1904); - Kazakhstan; Europe.

Tribus **Sphegigasterini**

Cyrtogaster Walker, 1833 (= *Polycystus* Westwood, 1839; *Dicormus* Förster, 1841; *Hatia* Risbec, 1955)

- C. clavicornis*** Walker, 1833 (= *Cyrtogaster obscura* Walker, 1833; *Polycystus matthewsii* Westwood, 1839; *Polycystus scapularis* Thomson, 1878); - Kazakhstan; Europe.
- C. mallorcensis*** Askew, 1975; - Kazakhstan; Majorca.
- C. vulgaris*** Walker, 1833 (= *Cyrtogaster thoracica* Walker, 1833; *Cyrtogaster rufipes* Walker, 1833; *Cyrtogaster scotica* Walker, 1833; *Cyrtogaster tenuis* Walker, 1833; *Cyrtogaster cingulipes* Walker, 1833; *Dicormus aquisgranensis* Förster, 1841; *Cyrtogaster poesos* Walker, 1848; *Lamprotatus acarnas* Walker, 1848; *Cyrtogaster biglobus* Förster, 1861; *Sphegigaster degener* Walker, 1872); - Kazakhstan; Europe, Transcaucasia.

Notoglyptus Masi, 1917

- N. scutellaris*** (Dodd & Girault), 1915 (= *Notoglyptus virescens* Masi, 1917; *Notoglyptus niger* Masi, 1917); - Kazakhstan; Southern Europe, Africa, Southern Asia, Australia, New Zealand.

Novitzkyanus Bouček, 1961

N. cryptogaster Bouček, 1961 (= *Novitzkyanus tridentatus* Delucchi, 1962); -
Kazakhstan; Europe, North Africa.

Sphegigaster Spinola, 1811 (= *Trigonogastra* Ashmead, 1904; *Paratrigonogastra* Girault, 1915;
Basilewskyella Risbec, 1957)

? *S. cuscuteae* Ferrière, 1959; - Kazakhstan; Europe.

S. glabrata Graham, 1969; - Kazakhstan; Northern Europe.

S. intersita Graham, 1969; - Kazakhstan; Northern Europe.

S. nigricornis (Nees), 1834; - Kazakhstan; North-Western Europe.

S. pallicornis (Spinola), 1808 (= *Merismus flavicornis* Walker, 1833); - Kazakhstan;
Holarctic.

S. pedunculiventris (Spinola), 1808 (= *Merismus aculeatus* Walker, 1833); -
Kazakhstan; Europe.

S. stepicola Bouček, 1965 (= *Acroclisis melanagromyzae* Mani, 1971); - Kazakhstan;
Europe; Algeria.

? *S. truncata* Thomson, 1878; - Kazakhstan; Europe.

Syntomopus Walker, 1833 (= *Merismorella* Girault, 1926)

S. incisus Thomson, 1878; - Kazakhstan; Europe.

S. incurvus Walker, 1833 (= *Miscogaster dirce* Walker, 1839;
Lamprotatus phylander Walker, 1848); - Kazakhstan; Europe.

S. thoracicus Walker, 1833; - Kazakhstan; Europe.

S. turanicus Dzhanokmen, 2000; - Kazakhstan.

Subfamily Miscogasterinae*Ammeia* Delucchi, 1962

A. pulchella Delucchi, 1962; - Kazakhstan; Cosmopolitan (except America).

Glyphognathus Graham, 1956

G. (Xestognathus) laevigatus (Delucchi), 1953; - Kazakhstan; Europe.

Halticoptera Spinola, 1811 (= *Pachylarthrus* Westwood, 1832; *Phagonia* Curtis, 1832;
Dicyclus Walker, 1833; *Phacostomus* Nees, 1834; *Megorismus* Walker, 1846;
Tityros Walker, 1848)

H. aenea (Walker), 1833 (= *Miscogaster cinctipes* Walker, 1833;

Miscogaster nigro-aenea Walker, 1833; *Chrysolampus tristis* Nees, 1834;

Pteromalus sophron Walker, 1839; *Halticoptera petiolata* Thomson, 1876); -
Kazakhstan; Europe, Azerbaijan.

H. circulus (Walker), 1833 (= *Dicyclus fuscicornis* Walker, 1833;

Dicyclus tristis Walker, 1833; *Miscogaster daiphron* Walker, 1839;

Miscogaster suilius Walker, 1839; *Pteromalus palpigerus* Zetterstedt, 1838;

Pteromalus brevicornis Zetterstedt, 1838); - Kazakhstan; Europe, Armenia,
Azerbaijan, North America.

H. dimidiata (Förster), 1841 (= *Halticoptera brevicornis* Thomson, 1876); - Kazakhstan;
Europe.

H. mustela (Walker), 1839 (= *Pachylarthrus elyces* Walker, 1839); - Kazakhstan; Europe.

H. laevigata Thomson, 1876; - Kazakhstan, Kyrgyzstan; Europe.

Halticopterina Erdős, 1946 (= *Abyrsomele* Dzhanokmen, 1975)

H. lauta (Dzhanokmen), 1975; - Kazakhstan.

H. moczari Erdős, 1954 (= *Halticopterina penthocoryne* Dzhanokmen, 1975); -
Kazakhstan; Hungary.

H. triannulata Erdős, 1946; - Kazakhstan; Palaearctic.

H. sp. n.; - Kazakhstan.

Ksenoplata Bouček, 1965

K. medicaginis Bouček, 1965; - Kazakhstan; Central Europe, North Africa.

Lamprotatus Westwood, 1833 (= *Skeloceras* Delucchi, 1953)

L. (Lamprotatus) annularis (Walker), 1833 (= *Ichneumon nigricornis* Fabricius, 1793 [pre-occ.]; *Pteromalus mandibularis* Zetterstedt, 1838;

Lamprotatus petiolaris Thomson, 1876); - Kazakhstan; Europe.

L. (Lamprotatus) aff. pschori Delucchi, 1953; - Kazakhstan.

L. (Skeloceras) socius (Zetterstedt), 1838 (= *Lamprotatus puncticollis* Thomson, 1876); - Kazakhstan; Europe.

L. (Skeloceras) truncatus (Fonscolombe), 1832

(= *Skeloceras cerebrosum* Delucchi, 1955; *Skeloceras mirabile* Delucchi, 1955); - Kazakhstan; Europe.

Merismus Walker, 1833 (= *Kentema* Delucchi, 1953; *Stylomerismus* Graham, 1969)

M. (Merismus) megapterus Walker, 1833 (= *Merismus clavicornis* Walker, 1833;

Miscogaster ovata Walker, 1833; *Sphegigaster agriope* Walker, 1848;

Kentema viride Delucchi, 1955); - Kazakhstan; Europe.

M. (Stylomerismus) lasthenes (Walker), 1848; - Kazakhstan; Europe.

M. (Stylomerismus) rufipes (Walker), 1833 (= *Chrysolampus riparius* Nees, 1834); - Kazakhstan; Europe.

Miscogaster Walker, 1833

M. hortensis Walker, 1833 (= *Miscogaster gracilipes* Thomson, 1876;

Miscogaster lucens Delucchi, 1953); - Kazakhstan; Europe.

M. maculata Walker, 1833 (= *Miscogaster fuscipennis* Walker, 1833;

Miscogaster notata Walker, 1833; *Miscogaster methymna* Walker, 1848;

Stictomischus phytomyzae Ghesquière, 1949); - Kazakhstan; Europe.

M. rufipes Walker, 1833 (= *Miscogaster fulgens* Delucchi, 1953); - Kazakhstan; Europe.

Nodisoplata Graham, 1969

N. diffinis (Walker), 1874 (= *Lamprotatus curvus* Thomson, 1876;

Lamprotatus amurensis Dalla Torre, 1898); - Kazakhstan; Northern Europe.

Rhinoceolia Graham, 1956 (= *Megorismus* Thomson, 1876; *Doghmiella* Delucchi, 1962)

R. constans (Walker), 1836 (= *Pteromalus cliens* Walker, 1836;

Megorismus chloris Thomson, 1876); - Kazakhstan; Europe.

R. impar (Walker), 1836 (= *Pteromalus crotopus* Walker, 1839); - Kazakhstan; Europe.

Schimitschekia Bouček, 1965

S. sp.; - Kazakhstan.

Sphaeripalpus Förster, 1841 (= *Gitognathus* Thomson, 1876)

S. viridis Förster, 1841 (= *Lamprotatus zipoetes* Walker, 1848;

Gitognathus grandiclava Thomson, 1876; *Lamprotatus kerrichi* Delucchi, 1953;

Gitognathus gibberosus Delucchi, 1955); - Kazakhstan; Europe.

Stictomischus Thomson, 1876

S. groschkei Delucchi, 1953; - Kazakhstan; Europe.

- S. obscurus* (Walker), 1833 (= *Miscogaster obscuripennis* Walker, 1833;
Miscogaster chrysochlora Walker, 1833; *Chrysolampus splendens* Förster, 1841;
Chrysolampus subquadratus Förster, 1841; *Lamprotatus mallius* Walker, 1848); -
 Kazakhstan; Europe.

Thektogaster Delucchi, 1955

- T. chrysis* (Förster), 1861; - Kazakhstan; Europe.
T. subvirescens (Zetterstedt), 1838; - Kazakhstan; Northern Europe.

Thinodytes Graham, 1956

- T. cyzicus* (Walker), 1839 (= *Dicyclus circulus* Thomson, 1876); - Kazakhstan; Europe,
 Japan.

Subfamily Ormocerinae

Systasis Walker, 1834 (= *Paruriella* Girault, 1913; *Guieralia* Risbec, 1951)

- S. (Systasis) darlingi* Dzhanokmen, 1996; - Kazakhstan.
S. (Systasis) encyrtoides Walker, 1834 (= *Pteromalus geniculatus* Nees, 1834;
Hormocerus impletus Walker, 1872; *Systasis longicornis* Thomson, 1876); -
 Kazakhstan; Europe.
S. (Systasis) ephedrae Dzhanokmen, 1982; - Kazakhstan.
S. (Systasis) gibsoni Dzhanokmen, 1996; - Kazakhstan.
S. (Systasis) halimodendronis Dzhanokmen, 1996; - Kazakhstan.
S. (Systasis) parvula Thomson, 1876; - Kazakhstan; Europe.
S. (Systasis) tenuicornis Walker, 1834; - Kazakhstan; Europe.

Monazosa Dzhanokmen, 1975

- M. athysanota* Dzhanokmen, 1975; - Kazakhstan.
M. sp.n.; - Turkmenistan.

Subfamily Pireninae

Gastrancistrus Westwood, 1833 (= *Glyphe* Walker, 1834; *Tridymus* Ratzeburg, 1848;

- Tripedias* Förster, 1856; *Stigmatocrepis* Ashmead, 1904;
Roptroceropseus Girault, 1913; *Isoplata* Girault, 1913;
Parerotolepsia Girault, 1915; *Proplesiostigma* Girault, 1915;
Muscideomyia Girault, 1915; *Parecrizotes* Girault, 1916;
Parasyntomocera Girault, 1917; *Isoplatella* Gahan & Fagan, 1923;
Mesecrizotes De Santis, 1968)
G. acutus Walker, 1834 (= *Gastrancistrus angulus* Walker, 1834;
Gastrancistrus panares Walker, 1844; *Gastrancistrus loelianus* Walker, 1848); -
 Kazakhstan; Europe.
G. bremiolovorvus Dzhanokmen, 1995; - Kazakhstan.
G. clavatus (Thomson), 1876 (= *Gastrancistrus fulginas* Walker, 1839); - Kazakhstan;
 Europe.
G. ephedrae Dzhanokmen, 1994; - Kazakhstan.
G. galii Dzhanokmen, 1994; - Kazakhstan.
G. glabellus (Nees), 1834 (= *Tridymus laeviscuta* Thomson, 1876); - Kazakhstan; Europe.
G. herbicola Dzhanokmen, 1995 (near *Gastrancistrus puncticollis* (Thomson), 1876); -
 Kazakhstan.
G. karatavicus Dzhanokmen, 1995; - Kazakhstan.
G. longiventris Dzhanokmen, 1994; - Kazakhstan.
G. oxytropicola Dzhanokmen, 1995; - Kazakhstan.

- G. rumicis* Dzhanokmen, 1994; - Kazakhstan.
G. silenes Dzhanokmen, 1994; - Kazakhstan.
G. sugonjaevi Dzhanokmen, 1995; - Kazakhstan, Uzbekistan, Turkmenistan.
G. transilensis Dzhanokmen, 1995; - Kazakhstan.
G. xanthogaster Dzhanokmen, 1982; - Kazakhstan.
G. sp. near *salicis* (Nees), 1834; - Kazakhstan.

- Macroglenes* Westwood, 1832 (= *Pirene* Haliday, 1833; *Corynocere* Nees, 1834;
Phocion Girault, 1925)
M. bouceki (Graham), 1969; - Kazakhstan; Europe.
M. conjungens (Graham), 1969; - Kazakhstan; North-Western Europe.
M. penetrans (Kirby), 1800 (= *Macroglenes oculatus* Westwood, 1832;
Macroglenes brevicornis Thomson, 1876; *Macroglenes umbellatarum* Ferrière); -
Kazakhstan; Europe.
M. rasnitsyni (Dzhanokmen), 1993 (near *Macroglenes chalybea* (Haliday), 1833); -
Kazakhstan.
- Spathopus* Ashmead, 1904
S. hofferi Bouček, 1964; - Kazakhstan; Central Europe.
S. montanus Huggert, 1976; - Kazakhstan; Sweden, Finland.
S. sp. n.; - Kazakhstan.

Subfamily Asaphinae

- Asaphes* Walker, 1834 (= *Isocratus* Förster, 1856; *Notopodion* Dahlbom, 1857;
Parectroma Brèthes, 1913)
A. petiolatus Zetterstedt, 1838; - Kazakhstan; Holarctic.
A. suspensus (Nees), 1834 (= *Chrysolampus altiventris* Nees, 1834;
Pteromalus petioliventris Zetterstedt, 1838;
Chrysolampus aphidiphagus Ratzeburg, 1844;
Chrysolampus aphidicola Rondani, 1848; *Euplectrus lucens* Provancher, 1887;
Asaphes rufipes Brues, 1908; *Megorismus fletcheri* Crawford, 1909;
Asaphes americana Girault, 1914; *Pachycrepoides indicus* Bhatnagar, 1951;
Pachyneuron uniarticulata Mani & Saraswat); - Kazakhstan, Kyrgyzstan; Europe,
Iran, Israel, Japan, South Korea, China, India, Nepal, Pakistan, North America.
A. vulgaris Walker, 1834 (= *Eurytoma aenea* Nees, 1834;
Chrysolampus aeneus Ratzeburg, 1848; *Chrysolampus aphidophila* Rondani, 1848);
- Kazakhstan; Kyrgyzstan, Uzbekistan; nearly Cosmopolitan.

Subfamily Herbertiinae

- Herbertia* Howard, 1894 (= *Tetracampoides* Dodd, in Girault, 1915; *Trydymiformis* Girault,
1915)
H. wallacei Burks, 1959; - Kazakhstan; Central and Southern Europe, North America.

Subfamily Eunotinae

- Eunotus* Walker, 1856 (= *Tritypus* Ratzeburg, 1848; *Megapelte* Förster, 1856; *Eunotellus* Masi,
1931)
E. obscurus Masi, 1931; - Kazakhstan, ? Uzbekistan; Europe.
- Scutellista* Motschulsky, 1859 (= *Aspidocoris* Costa, 1863; *Enargopelte* Förster, 1878;
Eugastropelte Masi, 1931)
S. obscura (Förster), 1878; - Kazakhstan; Europe.

Subfamily Panstenoninae

Panstenon Walker, 1846 (= *Caudonia* Walker, 1850)

P. oxylus (Walker), 1839 (= *Pteromalus omissus* Förster, 1841;

Panstenon pidius Walker, 1850); - Kazakhstan; Europe.

Subfamily Cleonyminae

Callocleonymus Masi, 1940

C. pulcher Masi, 1940; - Kazakhstan, Tajikistan, Turkmenistan; East Africa.

Notanisus Walker, 1837 (= *Pannoniella* Erdös, 1960; *Amarisca* Delucchi, 1962)

N. clavatus Bouček, 1961; - Kazakhstan; Georgia, Greece.

N. versicolor Walker, 1837; - Kazakhstan; Europe, North-Western Africa.

Subfamily Colotrechninae

Colotrechnus Thomson, 1878; - (= *Zanonia* Masi, 1921)

C. subcoeruleus Thomson, 1878; - Kazakhstan; Europe.

C. viridis (Masi), 1921; - Kazakhstan, Uzbekistan, Turkmenistan; Mediterranean.

Subfamily Cerocephalinae

Cerocephala Westwood, 1832 (= *Epimacrus* Walker, 1833; *Sciatheras* Ratzeburg, 1848;

Parasciatheras Masi, 1917; *Sciatherodes* Masi, 1917; *Proamotura* Girault, 1920)

C. eccoptogastris Masi, 1921; - Kazakhstan; Holarctic.

C. rufa (Walker), 1833 (= *Cerocephala dubarae* Wallace; 1959); - Kazakhstan; Holarctic.

Theocolax Westwood, 1832 (= *Laesthia* Haliday, 1833; *Choetospila* Westwood, 1874;

Spalangiomorpha Girault, 1913)

T. elegans (Westwood), 1874 (= *Spalangiomorpha fasciatipennis* Girault, 1913;

Spalangia metallica Fullaway, 1913; *Spalangia rhizoperthae* Risbec, 1951); -

Kyrgyzstan; Cosmopolitan.

Subfamily Spalangiinae

Spalangia Latreille, 1805 (= *Prospalangia* Brèthes, 1915)

S. cameroni Perkins, 1910 (= *Spalangia texensis* Girault, 1920;

Spalangia melanogastra Masi, 1940; *Spalangia atherigona* Risbec, 1951); - Kazakhstan, Uzbekistan; Cosmopolitan.

S. endius Walker, 1839 (= *Spalangia muscidarum* var. *stomoxysiae* Girault, 1916;

Spalangia philippinensis Fullaway, 1917; *Spalangia orientalis* L.F. Graham, 1932);

-Kazakhstan, Kyrgyzstan, Uzbekistan; Cosmopolitan.

S. erythromera Förster, 1850 (= *Spalangia spuria* Förster, 1850;

Spalangia umbellatarum Förster, 1850); - Kazakhstan; Holarctic.

S. nigripes Curtis, 1839 (= *Spalangia hyaloptera* Förster, 1850;

Spalangia formicaria Kieffer, 1905; *Spalangia muscarum* Girault, 1920); - Uzbekistan; Cosmopolitan.

S. nigroaenea Curtis, 1839 (= *Spalangia homalaspis* Förster, 1850;

Spalangia astuta Förster, 1851; *Spalangia muscidarum* Richardson, 1913;

Spalangia abenabooi Girault, 1932; *Spalangia sundaica* L.F. Graham, 1932;

Spalangia mors Girault, 1933); - Kazakhstan, Kyrgyzstan, Uzbekistan;

Cosmopolitan.

- S. rugulosa** Förster, 1850; - Uzbekistan; Europe.
S. subpunctata Förster, 1850 (= *Spalangia leptogramma* Förster, 1850); -
 Kazakhstan, Uzbekistan, Tajikistan; Europe, North Africa.

Subfamily Chrysolampinae

- Chrysolampus** Spinola, 1811 (= *Elatus* Walker, 1848; *Lamprostylus* Förster, 1856;
Toxeumoides Girault, 1915; *Parelatus* Girault, 1916; *Paratoximopsis* Girault, 1922)
C. prominens (Ruschka), 1924; - Kazakhstan, Turkmenistan; Istria.
C. punctatus (Förster), 1859; - Kazakhstan; Central & Eastern Europe.
C. rufitarsis (Förster), 1859; - Kazakhstan; Central Europe.
C. splendidulus (Spinola), 1808 (= *Chrysolampus auricollis* Förster, 1859); - Kazakhstan;
 Europe, North Africa.
C. thenae (Walker), 1848 (= *Perilampus obscurus* Walker, 1874); - Kazakhstan; Europe,
 Siberia.
C. verae (Nikolskaya), 1954; - Kazakhstan.
- Chrysomalla** Förster, 1859
C. pallidivena Zerova, 1973; - Kazakhstan, Turkmenistan; South-Eastern Europe.
C. roseri Förster, 1859; - Kazakhstan, Tajikistan; Central & South-Eastern Europe.
C. tobiasi Dzhankokmen, 1981; - Kazakhstan, Uzbekistan.
- Elatomorpha** Zerova, 1970
E. deserticola Zerova, 1970; - Turkmenistan, Uzbekistan.

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Резюме

***Джанокмен К.А.* Обзорный список Pteromalidae (Hymenoptera, Chalcidoidea) Казахстана и Средней Азии.**

В основу публикации положен материал, собранный автором в Казахстане, а также материал, поступавший автору на определение из различных академических и прикладных учреждений бывшего Союза. Публикуемый список включает 330 видов из 105 родов, в том числе: 314 видов из 105 родов для Казахстана, 39 видов из 26 родов для Киргизии, 37 видов из 27 родов для Узбекистана, 24 вида из 23 родов для Туркмении и 12 видов из 10 родов для Таджикистана.

Тұжырым

***Джанокмен К.А.* Қазақстан мен Орта Азиядағы Pteromalidae (Hymenoptera, Chalcidoidea) тізімі.**

Мақалада автордың жинаған материалдары мен бұрынғы Одақ бойынша әртүрлі академиялық және басқа мекемелерден анықтау үшін түскен материалдар негізінде жазылып отыр. Мұнда 105 туыстың 330 түрі берілген, оның ішінде: Қазақстаннан 105 туыстың 314 түрі, Қырғызиядан 26 туыстың 39 түрі, Өзбекстаннан 27 туыстың 37 түрі, Түркімениядан 23 туыстың 24 түрі және Тәжікстаннан 10 туыстың 12 түрі бар.