

CHECKLIST OF BRACONIDAE (INSECTA: HYMENOPTERA) FROM IRAN

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ABSTRACT: The Braconidae Nees, 1811 (Insecta: Hymenoptera) of Iran are reviewed based on available literatures. Two-hundred and two species are listed (as genus-species) from Agathidinae (4-4), Aphidiinae (12 -55), Brachistinae (1-2), Braconinae (7-33), Cardiochilinae (2-4), Cheloninae (3-24), Doryctinae (7-7), Euphorinae (6-12), Helconinae (2-3), Homolobinae (1-1), Hormiinae (2-2), Macrocentrinae (1-2), Microgastrinae (6-30), Microtypinae (1-1), Miracinae (1-1), Opinae (4-7), Orgilinae (1-5), Pambolinae (1-1) and Rogadinae (2-8).

KEY WORDS: Hymenoptera, Braconidae, Distribution, Iran, Palaearctic region.

The family Braconidae constitutes one of the most species-rich families of insects with approximately 18,000 valid species (Yu et al., 2006). It includes important natural enemies of many harmful insects widely distributed in major insect orders such as Coleoptera, Diptera, Lepidoptera and Homoptera (Shaw and Huddleston, 1991; Wharton, 1993; Wharton et al., 1997). Until recently, the family was also thought to be solely parasitic, but a few instances of phytophagy have been recorded in recent years (Austin and Dangerfield, 1998; Marsh et al., 2000).

The studies on Braconidae in Iran are very restricted and have been conducted by foreign researchers. The first published records of Iranian Braconidae were those by Szépligeti (1901) who reported some braconid parasitoids. Several species were subsequently recorded by Telenga (1936, 1941), Hedwig (1957), Hellen (1958), Mackauer (1960), Fischer (1963), Davatchi and Chodjai (1969) and Stary (1974, 1975, 1979, 1981). Modares Awal (1997) cited some species of braconids in his list of agricultural pests and their natural enemies in Iran.

Although many studies have been conducted on the Braconidae of Iran (Monajemi and Esmaili, 1981; Al-e-Mansour and Mostafavi, 1993; Mojeni, 1994; Stary et al., 2000; Achterberg and Mehrnejad, 2002; Bagheri and Basiri, 2004; Mehrparvar et al., 2005; Dezianian and Quicke, 2006; and Rakhshani et al., 2007a, 2007b 2008a, 2008b), their results were scattered in different publications and have never been summarized. The present list was compiled to provide a reference for future studies on this family in Iran.

MATERIALS AND METHODS

The present checklist aims at reviewing as many references as possible to the Braconidae and listing every species with an Iranian record. We follow the classification and taxonomic arrangement of Yu et al. (2006).

List of the species

Two-hundred two Braconidae species belonging to 64 genera and 19 subfamilies are listed in alphabetic order as follows:

Subfamily Agathidinae Haliday, 1833**Genus *Agathis* Latreille, 1805*****Agathis nigra* Nees von Esenbeck, 1812**

Records of Iran: Hellén (1956); Tobias (1986); Simbolotti and Achterberg (1999).

Genus *Coccygidium* Saussure, 1892***Coccygidium transcaspicum* (Kokujev, 1902)**

Records of Iran: Telenga (1955); Hedwig (1957); Tobias (1986); Sharkey (1998).

Genus *Cremnops* Foerster, 1862***Cremnops richteri* Hedwig, 1957**

Record of Iran: Hedwig (1957).

Genus *Disophrys* Foerster, 1862***Disophrys caesa* (Klug, 1835)**

Record of Iran: Hedwig (1957).

Subfamily Aphidiinae Haliday, 1833**Genus *Adialytus* Foerster, 1862*****Adialytus ambiguus* (Haliday, 1834)**

Records of Iran: Starý (1979); Starý (1981); Starý et al. (2000).

***Adialytus salicaphis* (Fitch, 1855)**

Records of Iran: Starý (1979); Yaghubi and Sahragard (1998); Starý et al. (2000); Rakhshani et al. (2006a).

***Adialytus thelaxis* (Starý, 1961)**

Records of Iran: Starý (1979); Starý et al. (2000).

Genus *Aphidius* Nees von Esenbeck, 1819***Aphidius (Aphidius) asteris* Haliday, 1834**

Records of Iran: Yaghubi and Sahragard (1998); Starý (1979); Starý et al. (2000); Rakhshani et al. (2008a).

***Aphidius (Aphidius) colemani* Viereck, 1912**

Records of Iran: Starý (1975, 1979); Starý et al. (2000); Rakhshani et al. (2005a, 2006a, 2008a).

***Aphidius (Aphidius) eadyi* Starý, González and Hall, 1980**

Records of Iran: Starý (1979); Starý et al. (1980, 2000); Pennacchio (1989); Rakhshani et al. (2006a, 2008a).

***Aphidius (Aphidius) ervi* Haliday, 1834**

Records of Iran: Starý (1974, 1979); Gonzalez et al. (1978); Starý and Gonzalez (1978); Monajemi and Esmaili (1981); Starý et al. (2000); Rakhshani et al. (2006a, 2008a).

***Aphidius (Aphidius) funebris* Mackauer, 1961**

Records of Iran: Starý (1979); Starý et al. (2000); Rakhshani et al. (2008a).

***Aphidius iranicus* Rakhshani and Starý, 2007**

Record of Iran: Tomanovic et al. (2007).

***Aphidius (Aphidius) matricariae* Haliday, 1834**

Records of Iran: Starý (1979); Pike and Starý (1996); Yaghubi and Sahragard (1998); Starý et al. (2000); Rakhshani et al. (2008a, 2008b).

***Aphidius (Aphidius) persicus* Rakhshani and Starý, 2006**

Record of Iran: Rakhshani et al. (2006c, 2008a); Rakhshani et al. (2008a).

***Aphidius (Aphidius) popovi* Starý, 1978**

Record of Iran: Khayat-Zadeh et al. (2001); Rakhshani et al. (2008a).

***Aphidius (Aphidius) rhopalosiphii* De Stefani-Perez, 1902**

Records of Iran: Mojenj (1994); Starý et al. (2000); Rakhshani et al. (2008a).

***Aphidius (Aphidius) rosae* Haliday, 1833**

Record of Iran: Mehrparvar et al. (2005); Rakhshani et al. (2008a).

***Aphidius (Aphidius) salicis* Haliday, 1834**

Records of Iran: Starý (1979); Starý et al. (2000); Rakhshani et al. (2006b, 2007b).

***Aphidius (Aphidius) setiger* (Mackauer, 1961)**

Records of Iran: Starý (1979); Starý et al. (2000); Rakhshani et al. (2008a).

***Aphidius (Aphidius) smithi* Sharma and Subba Rao, 1959**

Records of Iran: Starý (1974, 1979); Gonzalez et al. (1978); Starý and Gonzalez (1978); Monajemi and Esmaili (1981); Yaghubi and Sahragard (1998); Starý et al. (2000); Rakhshani et al. (2006a, 2008a).

***Aphidius (Aphidius) urticae* Haliday, 1834**

Records of Iran: Starý (1974, 1979); Gonzalez et al. (1978); Starý and Gonzalez (1978); Monajemi and Esmaili (1981); Starý et al. (2000); Rakhshani et al. (2008a).

***Aphidius (Aphidius) uzbekistanicus* Luzhetskii, 1960**

Records of Iran: Starý (1979, 1981); Starý et al. (2000); Rakhshani et al. (2008a, 2008b).

***Aphidius (Euaphidius) cingulatus* Ruthe, 1859**

Records of Iran: Starý (1979); Starý et al. (2000); Babaei et al. (2004); Rakhshani et al. (2006b, 2007b, 2008a).

Genus *Binodoxys* Mackauer, 1960***Binodoxys acalephae* (Marshall, 1896)**

Records of Iran: Starý (1979); Starý et al. (2000); Rakhshani et al. (2005a).

***Binodoxys angelicae* (Haliday, 1833)**

Records of Iran: Starý (1979); Yaghubi and Sahragard (1998); Starý et al. (2000); Rakhshani et al. (2005a); Moodi and Mosaddegh (2006).

***Binodoxys brevicornis* (Haliday, 1833)**

Records of Iran: Yaghubi and Sahragard (1998); Starý et al. (2000); Rakhshani et al. (2006b, 2007b).

***Binodoxys heraclei* (Haliday, 1833)**

Records of Iran: Rakhshani et al. (2006b, 2007b).

Genus *Betuloxys* Mackauer, 1960***Betuloxys hortorum* (Starý, 1960)**

Records of Iran: Starý (1979); Starý et al. (2000).

Genus *Diaeretiella* Starý, 1960***Diaeretiella rapae* (McIntosh, 1855)**

Records of Iran: Starý (1979, 1981); Yaghubi and Sahragard (1998); Starý et al. (2000); Lotfalizadeh and van Veen (2004); Rakhshani et al. (2006a).

Genus *Ephedrus* Haliday, 1833***Ephedrus (Ephedrus) cerasicola* Starý, 1962**

Record of Iran: Starý et al. (2000).

***Ephedrus (Ephedrus) chaitophori* Gårdenfors, 1986**

Records of Iran: Rakhshani et al. (2006b, 2007b).

***Ephedrus (Ephedrus) helleni* Mackauer, 1968**

Records of Iran: Starý (1979); Starý et al. (2000); Rakhshani et al. (2006b, 2007b).

***Ephedrus (Ephedrus) laevicollis* (Thomson, 1895)**

Record of Iran: Starý (1979).

***Ephedrus (Ephedrus) niger* Gautier, Bonnamour and Gaumont, 1929**

Records of Iran: Starý (1979); Yaghubi and Sahragard (1998); Starý et al. (2000).

***Ephedrus (Ephedrus) persicae* Froggatt, 1904**

Records of Iran: Starý (1979); Yaghubi and Sahragard (1998); Starý et al. (2000); Rakhshani et al. (2005a, 2008b).

***Ephedrus (Ephedrus) plagiator* (Nees von Esenbeck, 1811)**

Records of Iran: Starý (1979); Yaghubi and Sahragard (1998); Starý et al. (2000); Rakhshani et al. (2008b).

Genus *Lysaphidus* Smith, 1944***Lysaphidus arvensis* Starý, 1960**

Records of Iran: Starý (1979); Starý et al. (2000).

Genus *Lysiphlebus* Foerster, 1862***Lysiphlebus (Phlebus) confusus* Tremblay and Eady, 1978**

Records of Iran: Yaghubi and Sahragard (1998); Starý et al. (2000); Rakhshani et al. (2005a, 2006a, 2006b, 2007b).

***Lysiphlebus (Phlebus) desertorum* Starý, 1965**

Records of Iran: Starý (1979); Yaghubi and Sahragard (1998); Starý et al. (2000).

***Lysiphlebus (Phlebus) fabarum* (Marshall, 1896)**

Records of Iran: Starý (1979); Monajemi and Esmaili (1981); Finlayson (1990); Yaghubi and Sahragard (1998); Starý et al. (2000); Rakhshani et al. (2005a, 2006a, 2008b).

***Lysiphlebus (Phlebus) testaceipes* (Cresson, 1880)**

Record of Iran: Rakhshani et al. (2005a).

Genus *Pauesia* Quilis, 1931***Pauesia (Paraphidius) antennata* (Mukerji, 1950)**

Records of Iran: Starý (1979); Starý et al. (2000); Rakhshani et al. (2005b).

***Pauesia (Pauesiella) hazratbalensis* Bhagat, 1981**

Record of Iran: Starý et al. (2005).

Genus *Praon* Haliday, 1833***Praon (Praon) abjectum* (Haliday, 1833)**

Record of Iran: Rakhshani et al. (2007a).

***Praon (Praon) barbatum* Mackauer, 1967**

Records of Iran: Gonzalez et al. (1978); Starý and Gonzalez, 1978; Rakhshani et al. (2007a).

***Praon (Praon) exsoletum* (Nees von Esenbeck, 1811)**

Records of Iran: van den Bosch (1957); Starý (1979); Monajemi and Esmaili (1981); Rakhshani et al. (2006a, 2007a); Starý et al. (2000).

***Praon (Praon) flavinode* (Haliday, 1833)**

Records of Iran: Starý (1979); Starý et al. (2000) Rakhshani et al. (2007a).

***Praon (Praon) orpheusi* Kavallieratos, Attanassiou and Tomanovic, 2003**

Record of Iran: Rakhshani et al. (2007a).

***Praon (Praon) rosaecole* Starý, 1961**

Record of Iran: Rakhshani et al. (2007a).

***Praon (Praon) volucre* (Haliday, 1833)**

Records of Iran: Starý (1979); Starý et al. (2000); Rakhshani et al. (2005a, 2006a, 2007a, 2008b).

***Praon (Praon) yomona* Takada, 1968**

Record of Iran: Rakhshani et al. (2007a).

Genus *Tanytrichophorus* Mackauer, 1961***Tanytrichophorus petiolaris* Mackauer, 1961**

Records of Iran: Mackauer (1961); Starý (1979); Starý et al. (2000).

Genus *Trioxys* Haliday, 1833***Trioxys (Trioxys) asiaticus* Telenga, 1953**

Records of Iran: Mackauer (1960); Starý (1979); Starý et al. (2000).

***Trioxys (Trioxys) cirsii* (Curtis, 1831)**

Record of Iran: Starý et al. (2000).

***Trioxys (Trioxys) complanatus* Quilis, 1931**

Records of Iran: van den Bosch (1957); Starý (1979); Monajemi and Esmaili (1981); Starý et al. (2000); Rakhshani et al. (2006a).

***Trioxys (Trioxys) pallidus* (Haliday, 1833)**

Records of Iran: Starý (1979) Starý et al. (2000); Rakhshani et al. (2004).

***Trioxys (Trioxys) pannonicus* Starý, 1960**

Records of Iran: Starý (1979); Starý et al. (2000).

***Trioxys (Trioxys) tanaceticola* Starý, 1971**

Records of Iran: Starý (1979); Starý et al. (2000).

Subfamily Brachistinae Foerster, 1862**Genus *Schizoprymnus* Foerster, 1862*****Schizoprymnus obscurus* (Nees von Esenbeck, 1816)**

Records of Iran: Telenga (1941); Hellén (1958).

***Schizoprymnus pullatus* (Dahlbom, 1833)**

Record of Iran: Tobias (1986).

Subfamily Braconinae von Esenbeck, 1811**Genus *Baryproctus* Ashmead, 1900*****Baryproctus zarudnianus* Telenga, 1936**

Records of Iran: Telenga (1936); Shenefelt (1978)

Genus *Bracon* Fabricius, 1804***Bracon (Bracon) chivensis* Telenga, 1936**

Record of Iran: Capek and Hofmann (1997).

***Bracon (Bracon) lefroyi* (Dudgeon and Gough, 1914)**

Record of Iran: Hussain et al. (1976).

***Bracon (Bracon) longicollis* Wesmael, 1838**

Records of Iran: Tobias (1976, 1986).

***Bracon (Bracon) luteator* Spinola, 1808**

Records of Iran: Beyarslan et al. (2005).

***Bracon (Bracon) minutator* (Fabricius, 1798)**

Records of Iran: Tobias (1961, 1976).

***Bracon (Bracon) scabriusculus* Dalla Torre, 1898**

Record of Iran: Telenga (1936).

***Bracon (Bracon) schmidti* Kokujev, 1912**

Records of Iran: Telenga (1936); Tobias (1976, 1986); Shenefelt (1978).

***Bracon (CyanopteroBracon) sabulosus* Szépligeti, 1896**

Records of Iran: Telenga (1936); Tobias (1976, 1986); Shenefelt (1978).

***Bracon (GlabroBracon) dilatus* Papp, 1999**

Record of Iran: Papp (1999).

***Bracon (GlabroBracon) variator* Nees von Esenbeck, 1811**

Records of Iran: Papp (1966, 1967); Capek and Hofmann (1997).

***Bracon (HabroBracon) excisus* (Tobias, 1957)**

Record of Iran: Haeselbarth (1983).

***Bracon (HabroBracon) hebetor* Say, 1836**

Records of Iran: Haeselbarth (1983); Noori (1994); Modarres Awal (1997); Dezianian and Jalali (2004).

***Bracon (HabroBracon) iranicus* (Fischer, 1972)**

Records of Iran: Fischer (1972a); Shenefelt (1978).

***Bracon (HabroBracon) nigricans* (Szépligeti, 1901)**

Record of Iran: Haeselbarth (1983).

***Bracon (HabroBracon) radialis* (Telenga, 1936)**

Record of Iran: Dezianian and Quicke (2006).

***Bracon (RostroBracon) urinator* (Fabricius, 1798)**

Record of Iran: Telenga (1936).

Genus *Glyptomorpha* Holmgren, 1868***Glyptomorpha (Glyptomorpha) pectoralis* (Brullé, 1832)**

Records of Iran: Shestakov (1926); Telenga (1936); Tobias (1976); Capek and Hofmann (1997).

Genus *Iphiaulax* Foerster, 1862***Iphiaulax hians* Pérez, 1907**

Record of Iran: Telenga (1936).

***Iphiaulax impeditor* (Kokujev, 1898)**

Record of Iran: Fahringer (1926).

***Iphiaulax mactator* (Klug, 1817)**

Records of Iran: Tobias (1976, 1986).

***Iphiaulax mirabilis* (Hedwig, 1957)**

Record of Iran: Hedwig (1957).

***Iphiaulax perezii* (Fahringer, 1926)**

Record of Iran: Telenga (1936).

Genus *Pseudovipio* Szépligeti, 1896***Pseudovipio kirmanensis* (Kokujev, 1907)**

Records of Iran: Kokujev (1907); Fahringer (1926); Telenga (1936); Hedwig (1957).

***Pseudovipio nigrirostris* (Kokujev, 1907)**

Records of Iran: Kokujev (1907); Fahringer (1926).

***Pseudovipio schaeuffelei* (Hedwig, 1957)**

Records of Iran: Hedwig (1957); Achterberg (1980).

***Pseudovipio tataricus* (Kokujev, 1898)**

Records of Iran: Telenga (1936); Shenefelt (1978).

Genus *Rhadinobracon* Szépligeti, 1906***Rhadinobracon nigrocephalus* (Hedwig, 1957)**

Record of Iran: Hedwig (1957).

***Rhadinobracon zarudnyi* (Telenga, 1936)**

Records of Iran: Telenga (1936); Shenefelt (1978).

Genus *Vipio* Latreille, 1805***Vipio (Vipio) mlokoszewiczi* Kokujev, 1898**

Record of Iran: Telenga (1936).

***Vipio (Vipio) nomioides* Shestakov, 1926**

Records of Iran: Shestakov (1926); Telenga (1936); Tobias (1976, 1986).

***Vipio (Vipio) terrefactor* (Villers, 1789)**

Records of Iran: Szépligeti (1901); Telenga (1936); Tobias (1976, 1986).

***Vipio (Vipio) xanthurus* (Fahringer, 1926)**

Record of Iran: Fahringer (1926).

Subfamily Cardiochilinae Ashmead, 1900**Genus *Cardiochiles* Nees von Esenbeck, 1819*****Cardiochiles saltator* (Fabricius, 1781)**

Records of Iran: Telenga (1955); Belokobylskij (1998).

***Cardiochiles tibialis* Hedwig, 1957**

Record of Iran: Hedwig (1957).

***Cardiochiles triplus* Shenefeld, 1973**

Record of Iran: Hedwig (1957).

Genus *Pseudcardiochilus* Hedwig, 1957***Pseudcardiochilus abnormipes* Hedwig, 1957**

Records of Iran: Hedwig (1957); Achterberg (1980).

Subfamily Cheloninae Foerster, 1862**Genus *Ascogaster* Wesmael, 1835*****Ascogaster bicarinata* (Herrich-Schäffer, 1838)**

Records of Iran: Telenga (1941); Tobias (1976, 1986).

***Ascogaster caucasica* Kokujev, 1895**

Record of Iran: Huddleston (1984).

Genus *Chelonus* Panzer, 1806***Chelonus (Chelonus) annulatus* (Nees von Esenbeck, 1816)**

Record of Iran: Telenga (1941).

***Chelonus (Chelonus) annulipes* Wesmael, 1835**

Records of Iran: Telenga (1941); Tobias (1976, 1986).

***Chelonus (Chelonus) breviventris* Thomson, 1874**

Record of Iran: Papp (1997).

***Chelonus (Chelonus) inanitus* (Linnaeus, 1767)**

Records of Iran: Aubert (1966); Davatchi and Shojai (1969); Khanjani (2004); Alizadeh and Javan Moghaddam (2004); Bagheri and Basiri (2004).

***Chelonus (Chelonus) iranicus* Tobias, 1972**

Record of Iran: Tobias (1972).

***Chelonus (Chelonus) kermakiae* (Tobias, 2001)**

Records of Iran: Achterberg and Mehrnejad (2002).

***Chelonus (Chelonus) medus* Telenga, 1941**

Record of Iran: Telenga (1941).

***Chelonus (Chelonus) oculator* (Fabricius, 1775)**

Records of Iran: Telenga (1941); Tobias (1976, 1986).

***Chelonus (Chelonus) scabrator* (Fabricius, 1793)**

Record of Iran: Telenga (1941).

***Chelonus (Chelonus) setaceus* Papp, 1993**

Record of Iran: Papp (1993).

***Chelonus (Chelonus) smirnovi* Telenga, 1953**

Record of Iran: Tobias (1976).

***Chelonus (Microchelonus) areolatus* Cameron, 1906**

Record of Iran: Papp (1996).

***Chelonus (Microchelonus) basalis* Curtis, 1837**

Record of Iran: Telenga (1941).

***Chelonus (Microchelonus) contractus* (Nees von Esenbeck, 1816)**

Record of Iran: Modarres Awal (1997).

***Chelonus (Microchelonus) depressus* Thomson, 1874**

Records of Iran: Davatchi and Shojai (1969); Jafaripour (1969).

***Chelonus (Microchelonus) iranicus* (Tobias, 2001)**

Record of Iran: Tobias (2001).

***Chelonus (Microchelonus) telengai* (Abdinbekova, 1965)**

Records of Iran: Abdinbekova (1965); Tobias (1976, 1986, 2001).

Genus *Phanerotoma* Wesmael, 1838***Phanerotoma (Bracrotitoma) parva* Kokujev, 1903**

Record of Iran: Al-e-Mansour and Mostafavi (1993).

***Phanerotoma (Phanerotoma) fracta* Kokujev, 1903**

Records of Iran: Hedwig (1957); Achterberg (1990).

***Phanerotoma (Phanerotoma) leucobasis* Kriechbaumer, 1894**

Records of Iran: Hedwig (1957); Achterberg (1990); Modarres Awal (1997).

***Phanerotoma (Bracrotitoma) masiana* Fahringer, 1934**

Record of Iran: Al-e-Mansour and Mostafavi (1993).

***Phanerotoma (Phanerotoma) syleptae* Zettel, 1990**

Record of Iran: Zettel (1990).

Subfamily Doryctinae Foerster, 1862**Genus *Doryctes* Haliday, 1836*****Doryctes leucogaster* (Nees von Esenbeck, 1834)**

Records of Iran: Telenga (1941); Shenefelt and Marsh (1976); Tobias (1976); Belokobylskij and Tobias (1986).

Genus *Ecphylus* Foerster, 1862***Ecphylus (Ecphylus) silesiacus* (Ratzeburg, 1848)**

Records of Iran: Aubert (1966); Hedqvist (1967); Shenefelt and Marsh (1976); Modarres Awal (1997).

Genus *Leluthia* Cameron, 1887***Leluthia ruguloscolyti* (Fischer, 1962)**

Records of Iran: Aubert (1966); Belokobylskij and Tobias (1986).

Genus *Ontsira* Cameron, 1900***Ontsira imperator* (Haliday, 1836)**

Records of Iran: Telenga (1941); Hedwig (1957); Shenefelt and Marsh (1976).

Genus *Rhaconotus* Ruthe, 1854***Rhaconotus (Rhaconotus) zarudnyi* Belokobylskij, 1990**

Record of Iran: Belokobylskij (1990).

Genus *Spathius* Nees von Esenbeck, 1819***Spathius (Spathius) polonicus* Niezabitowski, 1910**

Records of Iran: Fischer (1970); Shenefelt and Marsh (1976); Belokobylskij (1989); Modarres Awal (1997).

Genus *Zombrus* Marshall, 1897***Zombrus flavipennis* (Brullé, 1846)**

Record of Iran: Shenefelt and Marsh (1976).

Subfamily Euphorinae Foerster, 1862**Genus *Ecclitura* Kokujev, 1902*****Ecclitura primoris* Kokujev, 1902**

Records of Iran: Hedwig (1957); Haeselbarth (1973); Achterberg (1980); Tobias (1986).

Genus *Leiophron* Nees von Esenbeck, 1819***Leiophron (Leiophron) pseudomitis* (Hedwig, 1957)**

Record of Iran: Hedwig (1957).

Genus *Meteorus* Haliday, 1835***Meteorus obsoletus* (Wesmael, 1835)**

Record of Iran: Nikdel et al. (2004).

***Meteorus pendulus* (Müller, 1776)**

Records of Iran: Abbasipour (2001); Khanjani (2004).

***Meteorus pulchricornis* (Wesmael, 1835)**

Record of Iran: Herard et al. (1979).

***Meteorus rubens* (Nees von Esenbeck, 1811)**

Records of Iran: Aubert (1966); Davatchi and Shojai (1969); Modarres Awal (1997); Alizadeh and Javan Moghaddam (2004).

***Meteorus versicolor* (Wesmael, 1835)**

Record of Iran: Nikdel et al. (2004).

Genus *Perilitus* Nees von Esenbeck, 1819***Perilitus (Microctonus) aethiopoidea* (Loan, 1975)**

Record of Iran: Arbab and McNeill (2001).

***Perilitus (Microctonus) colesi* (Drea, 1968)**

Record of Iran: Bartlett (1978).

***Perilitus (Perilitus) flavobasalis* Hedwig, 1957**

Record of Iran: Hedwig (1957).

Genus *Peristenus* Foerster, 1862***Peristenus rubricollis* (Thomson, 1892)**

Record of Iran: Khanjani (2004).

Genus *Wesmaelia* Foerster, 1862***Wesmaelia petiolata* (Wollaston, 1858)**

Record of Iran: Belokobylskij (1992).

Subfamily Helconinae Foerster, 1862**Genus *Aspicolpus* Wesmael, 1838*****Aspicolpus borealis* (Thomson, 1892)**

Record of Iran: Hedwig (1957).

Genus *Helcon* Nees von Esenbeck, 1812***Helcon claviventris* Wesmael, 1835**

Record of Iran: Hedwig (1957).

***Helcon heinrichi* Hedqvist, 1967**

Record of Iran: Hedqvist (1967).

Subfamily Homolobinae Achterberg, 1979**Genus *Homolobus* Foerster, 1862*****Homolobus (Apatia) ophioninus* (Vachal, 1907)**

Record of Iran: Achterberg (1979).

Subfamily Hormiinae Foerster, 1862**Genus *Hormius* Nees von Esenbeck, 1819*****Hormius sculpturatus* Tobias, 1967**

Record of Iran: Al-e-Mansour and Mostafavi (1993).

Genus *Hormisca* Telenga, 1941***Hormisca tatiana* Telenga, 1941**

Records of Iran: Telenga (1941); Shenefelt (1975); Belokobylskij and Tobias (1986).

Subfamily Macrocentrinae Foerster, 1862**Genus *Macrocentrus* Curtis, 1833*****Macrocentrus collaris* (Spinola, 1808)**

Record of Iran: Aubert (1966).

***Macrocentrus flavus* Vollenhoven, 1878**

Record of Iran: Achterberg (1993).

Subfamily Microgastrinae Foerster, 1862**Genus *Apanteles* Foerster, 1862*****Apanteles (Apanteles) bicolor* (Nees von Esenbeck, 1834)**

Record of Iran: Modarres Awal (1997).

***Apanteles (Apanteles) galleriae* Wilkinson, 1932**

Record of Iran: Modarres Awal (1997).

***Apanteles (Apanteles) iranicus* Telenga, 1955**

Records of Iran: Telenga (1955); Tobias (1986).

***Apanteles (Apanteles) lacteicolor* Viereck, 1911**

Record of Iran: Herard et al. (1979).

***Apanteles (Apanteles) lacteus* (Nees von Esenbeck, 1834)**

Record of Iran: Telenga (1955).

***Apanteles (Apanteles) obscurus* (Nees von Esenbeck, 1834)**

Record of Iran: Capek and Hofmann (1997).

***Apanteles (Apanteles) viminetorum* (Wesmael, 1837)**

Record of Iran: Telenga (1955).

Genus *Cotesia* Cameron, 1891***Cotesia chilonis* (Matsumura, 1910)**

Records of Iran: Rassipour (1983); Modarres Awal (1997).

***Cotesia glomerata* (Linnaeus, 1758)**

Records of Iran: Davatchi and Shojaii (1969); Alizadeh and Javan Moghaddam (2004).

***Cotesia juniperatae* (Bouché, 1834)**

Records of Iran: Davatchi and Shojaii (1969); Modarres Awal (1997).

***Cotesia kazak* (Telenga, 1949)**

Records of Iran: Davatchi and Shojaii (1969); Modarres Awal (1997).

***Cotesia melanoscela* (Ratzeburg, 1844)**

Records of Iran: Herard et al. (1979); Modarres Awal (1997).

***Cotesia ofella* (Nixon, 1974)**

Record of Iran: Karimpour et al. (2001).

***Cotesia rubecula* (Marshall, 1885)**

Record of Iran: Khanjani (2006).

***Cotesia ruficrus* (Haliday, 1834)**

Records of Iran: Siahpoush et al. (1993); Modarres Awal (1997); Khanjani (2004).

***Cotesia saltator* (Thunberg, 1824)**

Record of Iran: Papp (1987).

***Cotesia specularis* (Szépligeti, 1896)**

Record of Iran: Papp (1986).

***Cotesia telengai* (Tobias, 1972)**

Record of Iran: Papp (1986).

***Cotesia tibialis* (Curtis, 1830)**

Record of Iran: Aubert (1966).

***Cotesia vanessae* (Reinhard, 1880)**

Record of Iran: Karimpour et al. (2001).

***Cotesia vestalis* (Haliday, 1834)**

Records of Iran: Telenga (1955); Karimpour et al. (2005); Golizadeh et al. (2005).

Genus *Diolcogaster* Ashmead, 1900***Diolcogaster mayae* (Shestakov, 1932)**

Records of Iran: Hedwig (1957); Telenga (1955); Tobias (1976, 1986); Achterberg (1980); Al-e-Mansour and Mostafavi (1993).

Genus *Microgaster* Latreille, 1805***Microgaster australis* Thomson, 1895**

Record of Iran: Tobias (1986).

***Microgaster rufipes* Nees von Esenbeck, 1834**

Record of Iran: Telenga (1955).

Genus *Microplitis* Foerster, 1862***Microplitis aduncus* (Ruthe, 1860)**

Record of Iran: Papp (1984).

***Microplitis deprimator* (Fabricius, 1798)**

Record of Iran: Nixon (1968).

***Microplitis ochraceus* Szépligeti, 1896**

Records of Iran: Telenga (1955); Tobias (1976, 1986); Papp (1984).

***Microplitis scrophulariae* Szépligeti, 1898**

Record of Iran: Tobias (1976).

Genus *Protapanteles* Ashmead, 1898***Protapanteles (Protapanteles) liparidis* (Bouché, 1834)**

Records of Iran: Herard et al. (1979); Modarres Awal (1997).

***Protapanteles (Protoapanteles) thompsoni* (Lyle, 1927)**

Record of Iran: Khanjani (2004).

Subfamily Microtypinae Szépligeti, 1908**Genus *Microtypus* Ratzeburg, 1848*****Microtypus desertorum* Shestakov, 1932**

Record of Iran: Hedwig (1957).

Subfamily Miracinae Viereck, 1918**Genus *Centistidea* Rohwer, 1914*****Centistidea (Paracentistidea) pistaciella* Achterberg and Mehrnejad, 2002**

Record of Iran: Achterberg and Mehrnejad (2002).

Subfamily Opiinae Blanchard, 1845**Genus *Eurytenes* Foerster, 1862*****Eurytenes (Xynobiotenes) scutellatus* (Fischer, 1962)**

Record of Iran: Fischer (1990).

Genus *Fopius* Wharton, 1987***Fopius carpomyiae* (Silvestri, 1916)**

Record of Iran: Farrar and Chou (2000)

Genus *Opius* Wesmael, 1835***Opius (Apodesmia) sharynensis* Fischer, 2001**

Record of Iran: Fischer (2001).

***Opius (Nosopoea) maculipes* Wesmael, 1835**

Record of Iran: Fischer (1990).

***Opius (Nosopoea) teheranensis* Fischer, 1990**

Record of Iran: Fischer (1990).

***Opius (Opiothorax) abditus* Fischer, 1960**

Record of Iran: Fischer (1960, 1972b).

Genus *Phaedrotoma* Foerster, 1862***Phaedrotoma exigua* (Wesmael, 1835)**

Record of Iran: Fischer (1990).

Subfamily Orgilinae Ashmead, 1900**Genus *Orgilus* Haliday, 1833*****Orgilus (Orgilus) abbreviator* (Ratzeburg, 1852)**

Record of Iran: Taeger (1989).

***Orgilus (Orgilus) jennieae* Marsh, 1979**

Record of Iran: Khanjani (2006).

***Orgilus (Orgilus) meyeri* Telenga, 1933**

Record of Iran: Taeger (1989).

***Orgilus (Orgilus) obscurator* (Nees von Esenbeck, 1812)**

Records of Iran: Sabzevari (1968); Modarres Awal (1997).

***Orgilus (Orgilus) tobiasi* Taeger, 1989**

Record of Iran: Taeger (1989).

Subfamily Pambolinae Marshall, 1885**Genus *Pambolus* Haliday, 1836*****Pambolus (Phaenodus) pallipes* (Foerster, 1862)**

Record of Iran: Belokobylskij (1998).

Subfamily Rogadinae Foerster, 1862**Genus *Aleiodes* Wesmael, 1838*****Aleiodes (Aleiodes) bicolor* (Spinola, 1808)**

Records of Iran: Telenga (1941); Hedwig (1957).

***Aleiodes (Aleiodes) circumscriptus* (Nees von Esenbeck, 1834)**

Record of Iran: Telenga (1941).

***Aleiodes (Aleiodes) nocturnus* (Telenga, 1941)**

Record of Iran: Shenefelt (1975).

***Aleiodes (Aleiodes) testaceus* (Spinola, 1808)**

Record of Iran: Hedwig (1957).

Aleiodes (Chelonorhogas) agilis (Telenga, 1941)

Records of Iran: Telenga (1941); Shenefeldt (1975); Tobias (1976, 1986).

Aleiodes (Neorhogas) dimidiatus (Spinola, 1808)

Record of Iran: Telenga (1941).

Aleiodes (Neorhogas) ductor (Thunberg, 1824)

Records of Iran: Hedwig (1957); Tobias (1976, 1986).

Genus *Yelicones* Cameron, 1887***Yelicones iranus (Fischer, 1963)***

Record of Iran: Fischer (1963).

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