



Checklist of sawflies (Hymenoptera: Symphyta) from Iran

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ABSTRACT. An updated list of the sawflies (Hymenoptera: Symphyta) from Iran is provided. The list includes 178 species of sawflies belonging to 60 genera and 9 families. Family Tenthredinidae is the most species-rich group (131 species) followed by Argidae (18 species), Cephidae (9 species), Megalodontesidae (7 species), Cimbicidae (4 species), Pamphiliidae (3 species), Orussidae, Siricidae and Xiphydriidae (each with 2 species). Also genus *Tenthredo* is the most species-rich genus with 23 species followed by *Macrophya* (Tenthredinidae) with 17 species and *Arge* (Argidae) with 12 species. General distribution, synonyms and hosts associated with larvae for all recorded species are provided.

Key words: Hymenoptera, Symphyta, checklist, distribution, Iran

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Introduction

Sawfly is the common name for insects belong to “Symphyta” (Insecta: Hymenoptera), comprising 14 families. Sawflies are recognizable from the other hymenopterans by broad connection between the abdomen and the thorax, a pair of metanotal protuberances (except the Cephidae), the cenchri, and by their caterpillar-like larvae (Quinlan & Gauld 1981, Smith 1988). The common name comes from the saw-like of the ovipositor, which the females use to lay their eggs into the plants. Females of Siricidae (with common name of horntails) have long slender ovipositors for depositing eggs in wood. Large populations of some sawfly species can cause considerable economic

damage to agricultural crops, ornamental plants, and forests. In fact sawflies are a large group of herbivorous insects except Orussidae. Most specialists on the taxonomy of Symphyta believe that the nearest taxon to the Apocrita is the Orussidae, the only symphytan group which is parasitic (Smith, 1988; Viitasaari, 2002). The sawflies larvae live often on or sometimes in various plants, and some of them are attracted to one specific group of plants. Mostly they are feeding freely on the surface of leaves but some species make mines in the leaves or twigs of different plants (Viitasaari, 2002).

Some species of sawflies are potential economic pests (Quinlan & Gauld, 1981). For example, *Hoplocampa flava* (Linnaeus,

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1760) and *H. minuta* (Christ, 1791) are the important pests of plums and prunes. Amount of damage by *H. flava* on plums is about 40% around the Karaj city (Davoudi, 1995). *Arge ochropus* (Gmelin, 1790) has regarded as an important pest on *Rosa* spp. in northern Iran (Farahbakhsh 1961, Abai 2009, Sahragard & Heydari, 2001). Amount of damage by *Cephus pygmeus* (Linnaeus, 1767) on wheat is determined to be 25% in Varamin region (Ghadiri, 1993).

About 1350 sawfly species from Tenthredinidae (almost 116 from Allantinae; 77 from Blennocampinae; 62 from Heterarthrinae; 618 from Nematinae; 126 from Selandriinae and 345 from Tenthredininae) and nearly 440 species from other families of sawflies are distributed in the West Palaearctic (Taeger et al., 2010). According to literature, (Abai, 2009; Abai & Moghadam, 1993; Beneš, 1981; Beneš & Abai, 1991; Benson, 1968; Chevin, 1985; Ebrahimi, 1995; Farahbakhsh, 1961; Gussakovskij, 1935; Khayrandish et al., in press, 2015; Koch, 1988; Lacourt, 1999; Mallach, 1931; Modarres Awal, 1997; Shahmohammadi et al., 2008; Shinohara, 1997; Taeger, 2002; Taeger & Blank, 2011; Wei, 2008; Zirngiebl, 1956) 178 sawfly species have been recorded from Iran. Major faunistic works were contributed by Mallach (1931), Zirngiebl (1956), Benson (1968), Chevin (1985) and Khayrandish et al. (2015, in press). Tenthredinidae and Argidae comprise about 73.5% and 10% of the known Iranian sawflies, respectively.

By reviewing the published data, this work provides a first list of all the sawflies (Hymenoptera: Symphyta) from Iran. This study will be a valuable tool for future studies on biodiversity, ecology and integrated pest management.

Material and methods

The published data on the sawflies (Hymenoptera: Symphyta) are summarized.

Names of the valid genera and species are listed alphabetically within the families. Valid taxa names, published records within provincial distribution (Fig. 1), general distribution and host records are provided.

Results

I- Family Argidae

1- *Aprosthemella melanurum* (Klug, 1814)

Synonyms: *Hylotoma melanura* Klug, 1814: 303–304; *Schizocera cylindricornis* Thomson, 1871: 44–45; *Schizocera alfkeni* Konow, 1895: 72–73; *Schizocera friesei* Konow, 1895: 73–74.

Distribution in Iran: Iran without locality details (Benson, 1968).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Italy, Latvia, Luxembourg, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Lathyrus pratensis* Linnaeus, *L. tuberosus* Linnaeus (Fabaceae) and *Vicia cracca* Linnaeus (Fabaceae) (Taeger et al., 1998).

Remarks: Benson (1968) listed Iran under the general distribution of *A. melanurum* but he did not present detailed collection data for this country. So occurrence of this species in Iran need to be re-confirmed.

2- *Aprosthemella tardum* (Klug, 1814)

Synonyms: *Hylotoma tarda* Klug, 1814: 304; *Aprosthemella carpentieri* Konow, 1902b: 386–387.

Distribution in Iran: Iran without locality details (Benson, 1968).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Italy, Lithuania, Macedonia, Romania, Russia, Ukraine and Yugoslavia (Taeger & Blank, 2011).



Figure 1. Geographic map of provinces in Iran.

Host plants: Larvae feed on *Lathyrus* spp. (Fabaceae) (Taeger et al., 1998).

Remarks: Benson (1968) listed Iran under the general distribution of *A. tardum* but he did not present detailed collection data for this country. So occurrence of this species in Iran need to be re-confirmed.

3- *Arge berberidis* Schrank, 1802

Synonyms: *Tenthredo xanthopyga* Vallot, 1836: 212–213.

Distribution in Iran: Mazandaran (Chevin, 1985; Khayrandish et al., in press) and

Gilan (Khayrandish et al., in press) provinces.

General distribution: Palearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Greece, Hungary, Italy, Japan, Latvia, Liechtenstein, Luxembourg, Macedonia, Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Switzerland and Ukraine (Taeger & Blank, 2011; Liston, 1995).

Host plants: Larvae are oligophagous feeding on *Berberis sieboldi* Miquel, B.

thunbergi De Candolle, *B. vulgaris* Linnaeus and *Mahonia aquifolium* (Pursh) (Berberidaceae) (Taeger et al., 1998).

4- *Arge cingulata* (Jakowlew, 1891)

Distribution in Iran: Alborz, Gilan (Khayrandish et al., in press) and Mazandaran (Benson, 1968; Muche, 1977; Khayrandish et al., in press) provinces.

General distribution: East Palaearctic (Taeger et al., 2010), Iran, Tajikistan, Turkestan and Uzbekistan (Ushinskij, 1936; Benson, 1968).

Host plants: Unknown.

5- *Arge cyanocrocea* (Forster, 1771)

Synonyms: *Tenthredo cyanocrocea* Forster, 1771: 78; *Tenthredo coerulea* Fabricius, 1775: 321; *Tenthredo bicolor* Schrank, 1776: 84; *Hylotoma syriaca* Mocsáry, 1880: 267; *Hylotoma cyanocrocea* var. *messanensis* De-Stefani, 1885: 185; *Hylotoma syriaca* var. *damascena* Magretti, 1890: 525; *Arge cyanocrocea* forma *afasciata* Ermolenko, 1975: 43.

Distribution in Iran: Iran without locality details (Benson, 1968); Northern of Iran (Ushinskij, 1936); Gilan (Khayrandish et al., in press); Lorestan (Mallach, 1931) and Mazandaran (Mallach, 1931; Chevin, 1985; Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Andorra, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Luxembourg, Macedonia, Netherlands, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011; Liston, 1995).

Host plants: Larvae feed on ?*Rubus* Linnaeus and *Sanguisorba officinalis* Linnaeus (Rosaceae) (Taeger et al., 1998).

6- *Arge enodis* (Linnaeus, 1767)

Synonyms: *Tenthredo enodis* Linné, 1767: 922; *Tenthredo violacea* Fabricius, 1779: 64;

Tenthredo coeruleipennis Retzius, 1783: 72; *Hylotoma atrata* Klug, 1814: 286–287; *Hylotoma amethystina* Klug, 1814: 31; *Hylotoma vulgaris* Klug, 1834: 230.

Distribution in Iran: Iran without locality details (Farahbakhsh, 1961); Northern of Iran (Dadurian, 1962; Behdad, 1988).

General distribution: Palaearctic (Taeger et al., 2010); Andorra, Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Italy, Japan, Latvia, Luxembourg, Macedonia, Netherlands, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae are oligophagous feeding on *Salix alba* Linnaeus, *S. fragilis* Linnaeus, *S. purpurea* Linnaeus, *S. babylonia* Linnaeus (Salicaceae) (Taeger et al., 1998).

7- *Arge impressifrons* Konow, 1898

Distribution in Iran: Northern of Iran (Benson, 1968).

General distribution: West Palaearctic (Taeger et al., 2010); Azerbaijan (Taeger & Blank, 2011) and Iran (Benson, 1968).

Host plants: Unknown.

8- *Arge melanochra* (Gmelin, 1790)

Synonyms: *Tenthredo melanochra* Gmelin, 1790: 2657; *Hylotoma femoralis* Klug, 1814: 295–296; *Hylotoma dimidiata* Lepeletier, 1823: 43; *Hylotoma dimidiata* Serville, 1823: 12–13; *Hylotoma nigratarsis* Klug, 1834: 233; *Hylotoma similis* Rudow, 1871: 384; *Arge fuliginata* Konow, 1907: 489; *Arge melanochroa* forma *marginatopropodea* Ermolenko, 1975: 41; *Arge melanochroa* forma *nigropropodea* Ermolenko, 1975: 41.

Distribution in Iran: Iran without locality details (Benson, 1968); Caspian coast (Mallach, 1931); Alborz, Qazvin (Khayrandish et al., in press) Gilan, Mazandaran (Chevin, 1985; Khayrandish et al., in press) and Golestan (Muche, 1977) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, France, Germany, Great Britain, Greece, Hungary, Israel, Italy, Luxembourg, Macedonia, Moldova, Netherlands, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011; Liston, 1995).

Host plants: Larvae feed on *Crataegus laevigata* Poiret (Rosaceae) (Taeger et al., 1998).

9- *Arge nigripes* (Retzius, 1783)

Synonyms: *Tenthredo nigripes* Retzius, 1783: 71; *Hylotoma hartigi* Konow, 1885c: 117; *Arge annulata* Konow, 1891: 42.

Distribution in Iran: Iran without locality details (Taeger & Blank, 2011).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Azerbaijan, France, Germany, Greece, Iran, Russia and Switzerland (Taeger & Blank, 2011).

Host plants: Larvae feed on *Fragaria* and *Rosa* (Rosaceae) (Taeger et al., 1998).

10- *Arge ochropus* (Gmelin, 1790)

Synonyms: *Tenthredo ochropus* Gmelin, 1790: 2657; *Arge rosincola* Schrank, 1802: 228–229; *Hylotoma rosarum* Klug, 1814: 292–293; *Hylotoma pyrenaica* André, 1879: 48; *Arge soror* Konow, 1890b: 8; *Arge pyrenaica* var. *nigripes* Konow, 1895: 71; *Arge modesta* Konow, 1905b: 157; *Arge pyrenaicamauritanica* Schulz, 1906: 85; *Hylotoma rosae* var. *diversicolor* Pic, 1917: 19; *Arge pyrenaica luteola* Mucho, 1977: II, 31.

Distribution in Iran: Northern provinces (Farahbakhsh, 1961; Behdad, 1988; Modarres Awal, 1997; Abai, 2009); Alborz (Chevin, 1985; Khayrandish et al., in press); East Azerbaijan (Gussakovskij, 1935; Ushinskij, 1936; Chevin, 1985); Fars (Abai, 2009); Gilan (Sahragard & Heydari, 2001; Khayrandish et al., in press); Golestan (Gussakovskij, 1935; Ushinskij, 1936) and

Qazvin (Khayrandish et al., in press) provinces.

General distribution: West Palaearctic, Nearctic (Taeger et al., 2010); Albania, Algeria, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Italy, Latvia, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011; Liston, 1995).

Host plants: Larvae are oligophagous feeding on *Rosa canina* Linnaeus, *R. gallica* Linnaeus, *R. rubiginosa* Linnaeus, *R. majalis* Herrmann and *R. pimpinellifolia* Linnaeus (Rosaceae) (Taeger et al., 1998).

11- *Arge persica* Gussakovskij, 1935

Distribution in Iran: Northern of Iran (Gussakovskij, 1935; Benson, 1968; Mucho, 1977).

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Taeger & Blank, 2011).

Host plants: Unknown.

12- *Arge rustica* (Linnaeus, 1758)

Synonyms: *Tenthredo rustica* Linnaeus, 1758: 556; *Tenthredo atrata* Forster, 1771: 80; *Cryptus segmentarius* Panzer, 1803: 88: 17; *Hylotoma klugii* Leach, 1817: 122–123; *Hylotoma leachii* Stephens, 1829: 326; *Hylotoma albicruris* Brullé, 1832: 395; *Hylotoma leachii* Stephens, 1835: 17; *Hylotoma marginata* Boheman, 1852: 170–171; *Hylotoma discus* Costa, 1858: 17, 26; *Hylotoma saliceti* Rudow, 1871: 383; *Hylotoma Thomsoni* Konow, 1884: 309; *Arge segmentaria* var. *rufiventris* Konow, 1899: 204.

Distribution in Iran: Mazandaran province (Taeger & Blank, 2011).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria,

Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Iran, Italy, Luxembourg, Macedonia, Moldova, Netherlands, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Alnus* Miller (Betulaceae); *Quercus robur* Linnaeus (Fagaceae); *Salix* Linnaeus (Salicaceae) (Taeger et al., 1998).

13- *Arge scita* (Mocsáry, 1880)

Synonyms: *Hylotoma scita* Mocsáry, 1880: 267; *Hylotoma proxima* André, 1881a: 347–348; *Arge debilis* Konow, 1887a: 19–20; *Arge zarudnii* Gussakovskij, 1935: 259, 417–418.

Distribution in Iran: Iran without locality details (Benson, 1968; Muche, 1969, 1977); Southeast of Iran (Gussakovskij, 1935); Gilan province (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Armenia, Bulgaria, Cyprus, Greece, Iran, Jordan, Lebanon, Russia, Turkey and Turkmenistan (Taeger & Blank, 2011).

Host plants: Unknown.

14- *Arge simulatrix* Konow, 1887

Distribution in Iran: Mazandaran province (Chevin, 1985; Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Bulgaria, Greece, Russia, Syria and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

15- *Kokujewia ectrapela* Konow, 1902

Synonym: *Kokujewia ectrapela* var. *clarescens* Zirngiebl, 1949: 284.

Distribution in Iran: Iran without locality details (Karimpour & Razmi, 2010); West Azerbaijan (Karimpour, 2007a, 2007b); East Azerbaijan and Lorestan (Taeger & Blank, 2011) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Azerbaijan,

Georgia, Iran and Russia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Romex* spp. (Polygonaceae) (Karimpour, 2015; Karimpour & Razmi, 2010).

16- *Sterictiphora angelicae* (Panzer, 1799)

Synonyms: *Tenthredo angelicae* Panzer, 1799: 72: 1; *Tenthredo taraxaci* Panzer, 1806: 24; *Cryptus villersii* Leach, 1817: 124–125; *Schizoceros henschi* Konow, 1907: 492.

Distribution in Iran: Iran without locality details (Koch, 1988); Gilan province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria, Croatia, Czech Republic, France, Germany, Great Britain, Greece, Hungary, Italy, Moldova, Slovakia, Spain, Sweden, Switzerland, Turkey and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rubus* spp. (Taeger et al., 1998).

17- *Sterictiphora caspica* Koch, 1988

Distribution in Iran: Gilan (Khayrandish et al., in press) and Mazandaran (Koch, 1988; Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Koch, 1988; Taeger & Blank, 2011; Khayrandish et al., in press).

Host plants: Unknown.

18- *Sterictiphora furcata* (Villers, 1789)

Synonyms: *Tenthredo furcata* Villers, 1789: 86–87; *Tenthredo rubi idaei* Rossi, 1790: vol. 2, 31; *Schizocera inaequalis* Bremi-Wolf, 1849: 94–95; *Aprosthemata terebralis* var. *flavipes* Enslin, 1917: 618.

Distribution in Iran: Iran without locality details (Benson, 1968; Muche, 1977); Mazandaran province (Chevin, 1985).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Greece, Italy, Jordan, Luxembourg, Macedonia, Portugal,

Romania, Russia, Slovakia, Spain, Switzerland, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rubus idaeus* (Linnaeus) and *Prunus spinosa* Linnaeus (Rosaceae) (Taeger et al., 1998).

II- Family Cephidae

19- *Calameuta (Calameuta) filiformis* (Eversmann, 1847)

Synonym: *Cephus quadricinctus* Dahlbom, 1835a: 15; *Cephus filiformis* Eversmann, 1847: 64; *Cephus elongates* Snellen van Vollenhoven, 1858a: 280–281; *Cephus arundinis* Giraud, 1863: 1286; *Cephus marginatus* Kawall, 1864: 301–302; *Cephus erberi* Damianitsch, 1866: 994; *Cephus vagabundus* Mocsáry, 1886b: 102–103; *Cephus infernalis* Dovnar-Zapolskij, 1926: 129–130; *Calameuta atrata* Dovnar-Zapolskij, 1931: 42–43; *Calameuta rugose* Dovnar-Zapolskij, 1931: 42–43; *Calameuta amurensis* Gussakovskij, 1935: 97–98, 354–355.

Distribution in Iran: Northern of Iran (Dadurian, 1962; Klima, 1937); East Azerbaijan (Gussakovskij, 1935) and Gilan (Khayrandish et al., in press) provinces.

General distribution: Caucasus and Iran (Gussakovskij, 1935).

Host plants: Larvae are oligophagus feeding on *Phragmites australis* (Cavanilles) *Phalaris arundinacea* Linnaeus, *Arrhenatherum elatius* (Linnaeus), *Elytrigia repens* (Linnaeus) and *Calamagrostis epigejos* (Linnaeus) (Poaceae) (Taeger et al., 1998).

20- *Calameuta (Calameuta) grombczewskii* (Jakowlew, 1891)

Synonym: *Cephus grombczewskii* Jakowlew, 1891: 13.

Distribution in Iran: Alborz, Qazvin, Mazandaran (Khayrandish et al., in press) and Golestan (Taeger & Blank, 2011) provinces.

General distribution: East Palaearctic (Taeger et al., 2010); Iran, Turkmenistan (Taeger & Blank, 2011); Tajikistan, Turkmenistan and Uzbekistan (Ushinskij, 1936).

Host plants: Unknown.

21- *Calameuta (Calameuta) idolon* (Rossi, 1794)

Synonyms: *Ichneumon idolon* Rossi, 1794: 110; *Cephus mittrei* Guérin, 1844: 402; *Cephus bellieri* Sichel, 1860: 757; *Cephus variegatus* J.P.E.F. Stein, 1876: 59–60; *Monoplopus apicicornis* Pic, 1916: 24.

Distribution in Iran: Iran without locality details (Benson, 1968); Gilan and Qazvin provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Algeria, Armenia, Bulgaria, Croatia, Cyprus, France, Greece, Hungary, Italy, Jordan, Portugal, Spain, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Unknown.

22- *Cephus nigrinus* Thomson, 1871

Distribution in Iran: Iran without locality details (Taeger & Blank, 2011).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Iran, Italy, Luxembourg, Macedonia, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Milium effusum* Linnaeus and *Poa pratensis* Linnaeus (Poaceae) (Taeger et al., 1998).

23- *Cephus pygmeus* (Linnaeus, 1767)

Synonyms: *Sirex pygmeus* Linnaeus, 1767: 929–930; *Tenthredo polygona* Gmelin, 1790: 2670–2671; *Banchus viridator* Fabricius, 1804: 127–128; *Cephus subcylindricus* Gravenhorst, 1807: 274; *Cephus leskii* Lepeletier, 1823: 20; *Cephus flavisternum* Costa, 1882: 198–199; *Cephus clypealis* Costa, 1894: 250; *Cephus pygmaeus* var. *palaestinus* Pic, 1918: 2; *Cephus tanaiticus* Dovnar-Zapolskij, 1926: 131.

Distribution in Iran: Northern of Iran (Gussakovskij, 1935; Ushinskij, 1936);

Dadurian, 1962; Benson, 1965, 1968); Alborz, Tehran and probably northern and central provinces (Farahbakhsh, 1961); Tehran province (Behdad, 1982); Golestan province (Chevin, 1985); Alborz, Tehran and so northern and central provinces (Esmaili et al., 1991); Alborz, Markazi and Tehran provinces (Ghadiri, 1993, 1994a, 1994b, 2000); Tehran, Markazi and probably other northern and central provinces (Modarres Awal, 1997); Ghadiri and Irani (1999); Ghadiri and Safai (2001); Taeger and Blank (2011); Alborz, Qazvin and Tehran provinces (Khayrandish et al., in press).

General distribution: Widely distributed in Palaearctic; Algeria and Egypt in Africa (Taeger & Blank, 2011), introduced to North America (Middlekauff, 1969).

Host plants: Associated with several Poaceae, sometimes regarded as a pest of crops for example *Avena sativa* Linnaeus, *Bromus secalinus* Linnaeus, *Hordeum vulgare* Linnaeus, *Secale cereale* Linnaeus and *Triticum aestivum* Linnaeus (Farahbakhsh, 1961; Middlekauff, 1969; Ghadiri, 1993; Modarres Awal, 1997). *Lepidium draba* Linnaeus, *Sysimbrium sophia* Linnaeus, (Brassicaceae), *Lisaea heterocarpa* Boissier (Apiaceae) and *Euphorbia heterophylla* Linnaeus (Euphorbiaceae) are cited as hosts by Modarres Awal (1997) but these data supposedly refer to flowers visit by adults.

24- *Hartigia nr xanthostoma* (Eversmann, 1847)

Synonyms: *Cephus xanthostoma* Eversmann, 1847: 63; *Cerobactrus facialis* Costa, 1864: 104; *Macrocephus ulmariae* Schlechtendal, 1878: 153-154; *Phyllaecus giraudi* Schlechtendal, 1880: 189; *Hartigia semenovi* Dovnar-Zapolskij, 1931: 40-41; *Hartigia jakovlevi* Dovnar-Zapolskij, 1931: 40-41.

Distribution in Iran: Alborz and Gilan provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Algeria, Austria, Belgium, Bulgaria, Czech Republic,

Denmark, Estonia, Finland, France, Germany, Great Britain, Netherlands, Norway, Poland, Russia, Spain, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Unknown.

25- *Pachycephus smyrnensis persicus* Gussakovskij, 1935

Synonyms: *Pachycephus persicus* Gussakovskij, 1935: 81, 347-348.

Distribution in Iran: Iran without locality details (Scheibelreiter, 1978); Lorestan province (Gussakovskij, 1935; Benson, 1968);

General distribution: West Palaearctic (Taeger et al., 2010); Azerbaijan, Iran, Lebanon and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

26- *Syrista parreyssii* (Spinola, 1843)

Synonyms: *Cephus parreyssii* Spinola, 1843: 116-117; *Cephus orientalis* Tischbein, 1852a: 139; *Cephus spectabilis* J.P.E.F. Stein, 1876: 58-59; *Macrocephus robustus* Mocsáry, 1883: 9-10; *Cephus parreyssi* var. *rufiventris* Jakowlew, 1888: 372.

Distribution in Iran: Iran without locality details (Wei & Smith, 2010; Taeger & Blank, 2011); Northern provinces (Farahbakhsh, 1961; Behdad, 1988; Modarres Awal, 1997; Abai, 2009); Alborz (Chevin, 1985; Khayrandish et al., in press); Qazvin (Khayrandish et al., in press); Mazandaran (Khayrandish et al., in press); South Khorasan (Shahrokhi & Zare, 1995; Modarres Awal, 1997; Abai, 2009) and Tehran (Farahbakhsh, 1961; Chevin, 1985; Behdad, 1988; Modarres Awal, 1997; Abai, 2009) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Albania, Armenia, Azerbaijan, Bulgaria, Croatia, Cyprus, Greece, Iran, Israel, Italy, Jordan, Macedonia, Slovenia, Spain, Turkey, Turkmenistan and Yugoslavia (Taeger & Blank, 2011; Wei, 2008; Wei & Smith, 2010).

Host plants: The larvae bore into the stems of *Rosa* species (Wei & Smith, 2010); Larvae of *Syrista parreyssii* attack to newly grown twigs of *Berberis* (Shahrokhi & Zare, 1995).

27- *Trachelus tabidus* (Fabricius, 1775)

Synonyms: *Sirex tabidus* Fabricius, 1775: 326; *Sirex macilentus* Fabricius, 1793: 131; *Cephus mandibularis* Lepeletier, 1823: 20; *Cephus nigrinus* Lepeletier, 1823: 20; *Cephus mandibularis* Serville, 1823; *Cephus nigrinus* Serville, 1823: 96; *Cephus vittatus* Costa, 1875: 14; *Calamenta johnsoni* Ashmead, 1900: 600; *Calameuta johnsonii* Ashmead, 1903: 233; *Trachelus tabidus* var. *atrioventris* Pic, 1920: 14.

Distribution in Iran: Alborz (Farahbakhsh, 1961; Behdad, 1982); Fars (Khalaf, 1995; Modarres Awal, 1997); Qazvin (Khayrandish et al., in press) and Tehran (Farahbakhsh, 1961; Behdad, 1982; Modarres Awal, 1997; Khayrandish et al., in press) provinces.

General distribution: West Palaearctic, Nearctic (Taeger et al., 2010); Algeria, Austria, Belgium, Bulgaria, Croatia, Cyprus, Egypt, France, Germany, Great Britain, Greece, Iraq, Israel, Italy, Libya, Morocco, Netherlands, Portugal, Romania, Russia, Slovakia, Spain, Switzerland, Syria, Tunisia, Turkey, Ukraine and USA (Taeger & Blank, 2011); introduced in the U.S.A (Gahan, 1920).

Host plants: Larvae feed on various grains such as *Triticum aestivum*, *Hordeum vulgare*, *Secale cereale*, *Avena sativa* and various wild grasses (Gussakovskij, 1935; Berland, 1941; Benson, 1951; Farahbakhsh, 1961; Middlekauff, 1969; Burggraaf-Van Nierop & Achterberg, 1990; Zhelochovtsev & Zinovjev, 1993; Modarres Awal, 1997). *Hordeum* Linnaeus, *Avena* Linnaeus, *Secale* Linnaeus, *Triticum* Linnaeus (Taeger et al., 1998).

III- Family Cimbicidae

28- *Abia sericea* (Linnaeus, 1767)

Synonyms: *Tenthredo sericea* Linnaeus, 1767: 921; *Abia dorsalis* Costa, 1859b: 5-6.

Distribution in Iran: Northern of Iran (Dadurian, 1962); Lorestan, Mazandaran (Mallach, 1931) and Gilan (Ebrahimi, 1995) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Bosnia and Herzegovina, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Iran, Ireland, Italy, Latvia, Macedonia, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Succisa pratensis* Moench and *Knautia arvensis* (Linnaeus) (Caprifoliaceae); *Fragaria* (Rosaceae) (Taeger et al., 1998).

29- *Cimbex femoratus* (Linnaeus, 1758)

Synonyms: *Tenthredo femorata* Linnaeus, 1758: 555; *Tenthredo tristis* Fabricius, 1779: 334; *Crabro lunulatus* Geoffroy, 1785: 362; *Crabro annulatus* Geoffroy, 1785: 362; *Tenthredo sylvarum* Fabricius, 1793: 105-106; *Cimbex europaea* Leach, 1817: 104; *Cimbex varians* Leach, 1817: 105; *Cimbex variabilis* Klug, 1820: 72; *Tenthredo russa* Klug, 1820: 79; *Cimbex schaefferi* Lepeletier, 1823: 26; *Cimbex pallens* Lepeletier, 1823: 28-30; *Cimbex schaefferi* Serville, 1823: 3; *Cimbex pallens* Serville, 1823: 5; *Cimbex pallidus* Stephens, 1829: 324; *Cimbex venusta* Perty, 1833: 129; *Cimbex biguetina* Lepeletier, 1834: 455; *Cimbex pallida* Stephens, 1835: 7; *Cimbex betulae* Zaddach, 1863: 249; *Cimbex betulae* var. *pulla* Zaddach, 1863: 250; *Cimbex betulae* var. *feminae flavo-maculata* Zaddach, 1863: 251; *Cimbex betulae* var. *feminae lutescens* Zaddach, 1863: 251; *Cimbex betulae* var. *nigra* Zaddach, 1863: 250; *Cimbex tonnaitchana* Matsumura, 1911: 86; *Cimbex femorata* var. *unicolor* Enslin, 1917: 569; *Cimbex femorata* var. *abdominalis* Enslin, 1917: 569; *Cimbex femorata* var. *ornata* Uchida, 1927: 159; *Cimbex quadrimaculata* var. *sachalinensis* Uchida, 1927: 161; *Crabro uchidai* Takeuchi, 1931: 19.

Distribution in Iran: Tehran province (Abai, 2009).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Japan, Korea (North and South Korea), Latvia, Luxembourg, Macedonia, Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Betula pubescens* Ehrhart and *B. pendula* Roth (Taeger et al., 1998).

30- *Corynis caucasica* (Moscary, 1886)

Synonyms: *Amasis Caucasica* Mocsáry, 1886a: 2-3; *Amasis caspica* Konow, 1886c: 37-38.

Distribution in Iran: Iran without locality details (Benson, 1968; Muche, 1972); Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Bulgaria and Yugoslavia (Taeger & Blank, 2011); Southeast of Europe, Turkey, Transcaucasia and Iran (Benson, 1968).

Host plants: Unknown.

31- *Corynis obscura* (Fabricius, 1775)

Synonyms: *Tenthredo obscura* Fabricius, 1775: 319; *Amasis helvetica* Konow, 1886c: 37-38; *Amasis obscura* var. *adusta* Zirngiebl, 1953: 235; *Amasis valkanovi* Vassilev, 1969: 695-696.

Distribution in Iran: Iran without locality details (Gussakovskij, 1935; Muche, 1973).

General distribution: Palaearctic (Taeger et al. 2010); Albania, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Estonia, Finland, France, Germany, Greece, Hungary, Iran, Italy, Latvia, Macedonia, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey and Ukraine (Taeger & Blank, 2011).

Host plants: Unknown.

IV- Family Megalodontesidae

32- *Megalodontes escaleraei* Konow, 1899

Distribution in Iran: West Azerbaijan province (Taeger & Blank, 2011).

General distribution: West Palaearctic (Taeger et al., 2010); Iran, Lebanon, Syria and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

33- *Megalodontes eversmanni* (Freytmuth, 1870)

Synonyms: *Tarpa eversmanni* Freymuth, 1870: 225; *Tarpa loewii* J.P.E.F. Stein, 1876: 56-57; *Tarpa (Megalodontes) multicincta* Mocsáry, 1891: 157-158.

Distribution in Iran: Iran without locality details (Taeger, 2002), Qazvin and Mazandaran provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Azerbaijan, Bulgaria, Georgia, Greece, Iran, Russia, Turkey and Ukraine (Taeger, 2002; Taeger & Blank, 2011).

Host plants: Unknown.

34- *Megalodontes flavicornis* (Klug, 1824)

Synonym: *Tarpa flavicornis* Klug, 1824: 192-193.

Distribution in Iran: Iran without locality details (Taeger & Blank, 2011); Northern of Iran (Benson, 1968; Taeger, 2002); East Azerbaijan (Gussakovskij, 1935; Ushinskij, 1936) and Gilan (Khayrandish et al., in press) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Armenia, Austria, Azerbaijan, Bulgaria, Czech Republic, Georgia, Germany, Hungary, Iran, Italy, Russia, Slovakia, Turkey, Turkmenistan and Ukraine (Taeger, 2002; Taeger & Blank, 2011).

Host plants: Unknown.

35- *Megalodontes guichardi* Springate, Burckhardt and Springate, 2011

Distribution in Iran: Gilan province (Khayrandish et al., in press).

General distribution: North Africa and Middle East (Springate et al., 2011); Iraq, Israel, Syria and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

36- *Megalodontes olivieri* (Brullé, 1846)

Synonym: *Tarpa olivieri* Brullé, 1846: 660.

Distribution in Iran: Gilan province (Ebrahimi, 1995).

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Egypt, Iran, Iraq, Israel, Morocco and Saudi Arabia (Taeger & Blank, 2011).

Host plants: Unknown.

37- *Megalodontes phaenicius* (Lepelletier, 1823)

Synonyms: *Tarpa phaenicia* Lepelletier, 1823: 15; *Tarpa caucasica* André, 1881d: 479; *Megalodontes* (*Rhipidioceros*) *imperialis* Konow, 1897b: 3; *Megalodontes* (*Rhipidioceros*) *kohli* Konow, 1897b: 3.

Distribution in Iran: Iran without locality details (Taeger, 2002); Sistan and Baluchestan province (Zirngiebl, 1956).

General distribution: West Palaearctic (Taeger et al., 2010); Azerbaijan, Bulgaria, Egypt, Greece, Iran, Moldova, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Unknown.

38- *Megalodontes xanthosomus* Zhelochovtsev, 1927

Synonym: *Megalodontes* (*Rhipidioceros*) *curticornis* Dovnar-Zapolskij, 1930: 81–82.

Distribution in Iran: Iran without locality details (Gussakovskij, 1935; Ushinskij, 1936).

General distribution: East Palaearctic (Taeger et al., 2010); Afghanistan, Kazakhstan, Turkmenistan and Uzbekistan (Taeger & Blank, 2011); Iran (Gussakovskij, 1935; Ushinskij, 1936).

Host plants: Unknown.

V- Family Orussidae

39- *Orussus abietinus* (Scopoli, 1763)

Synonyms: *Sphex abietina* Scopoli, 1763: 296; *Tenthredo degener* Christ, 1791: 438–439;

Sirex vespertilio Fabricius, 1793: 129; *Oryssus coronatus* Fabricius, 1798: 218; *Oryssus albopunctatus* Gimmerthal, 1836: 434; *Oryssus hyalinipennis* Costa, 1860: 4–5.

Distribution in Iran: Gilan province (Kraus, 1998).

General distribution: Palaearctic (Taeger et al., 2010); Albania, Algeria, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Turkey and Ukraine (Taeger & Blank, 2011).

Host plants: Unknown.

40- *Pseudoryssus henschii* (Mocsáry, 1910)

Synonyms: *Oryssus henschii* Mocsáry, 1910: 161–162; *Pseudoryssus emanuelis* Guiglia, 1956: 24–25.

Distribution in Iran: Lorestan and Fars provinces (Taeger & Blank, 2011).

General distribution: Palaearctic (Taeger et al., 2010); Algeria, Bulgaria, Croatia, Cyprus, Germany, Greece, Iran, Iraq, Italy, Morocco, Russia, Switzerland, Turkey and Turkmenistan (Taeger & Blank, 2011).

Host plants: Unknown.

VI- Family Pamphiliidae

41- *Kelidoptera maculipennis* (J.P.E.F. Stein, 1876)

Synonym: *Lyda maculipennis* J.P.E.F. Stein, 1876: 57.

Distribution in Iran: Gilan province (Shinohara, 2002).

General distribution: West Palaearctic (Taeger et al., 2010); Israel, Syria and Turkey (Taeger & Blank, 2011); Iran (Shinohara, 2002).

Host plants: Unknown.

42- *Onycholyda trigaria* (Konow, 1897)

Synonym: *Pamphilius trigarius* Konow, 1897a: 242, 247–248.

Distribution in Iran: Iran without locality details (Blank et al., 1998); Alborz (Khayrandish et al., in press); Gilan

(Shinohara, 1997, 2002; Khayrandish et al., in press) and Lorestan (Shinohara, 1997, 2002) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Azerbaijan, Iran and Russia (Taeger & Blank, 2011).

Host plants: Unknown.

43- *Pamphilius pallipes* (Zetterstedt, 1838)

Synonyms: *Lyda pallipes* Zetterstedt, 1838: 355; *Lyda flavipes* Zetterstedt, 1838: 355; *Lyda variegata* Zaddach, 1866: 161-162; *Pamphilius pallidipes* Dalla Torre, 1894: 435.

Distribution in Iran: Iran without locality details (Shinohara, 2005).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Latvia, Netherlands, Norway, Russia, Slovakia, Sweden and Switzerland (Taeger & Blank, 2011).

Host plants: Larvae feed on *Alnus viridis* De Candolle; *A. maximowiczii* Callier (Betulaceae); *Betula pendula* Roth and *B. pubescens* Ehrhart (Betulaceae) (Taeger et al., 1998).

VII- Family Siricidae

44- *Tremex fuscicornis* (Fabricius, 1787)

Synonyms: *Sirex fuscicornis* Fabricius, 1787: 257; *Sirex struthiocamelus* Villers, 1789: 132-133; *Sirex camelogigas* Christ, 1791: 411.

Distribution in Iran: Alborz (Shahmohammadi et al., 2008) and Razavi Khorasan (Khayrandish et al., in press) provinces.

General distribution: Palaearctic, Oriental and Neotropic (Taeger et al., 2010); Austria, Bulgaria, Chile, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Italy, Japan, Korea (North and South Korea), Latvia, Moldova, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae are polyphagous feeding on *Acer* Linnaeus (Aceraceae), *Salix*, *Picea* Miller (Pinaceae), *Ulmus* Linnaeus (Ulmaceae), *Robinia* Linnaeus (Fabaceae) and *Juglans regia* Linnaeus (Juglandaceae) (Shahmohammadi et al. 2008); *Prunus x yedoensis* Matsumura (Rosaceae), *Ulmus propinqua* Koidzumi and *Zelkova serrata* (Thunberg) (Ulmaceae), *Acer negundo* Linnaeus, *Alnus japonica* (Thunberg), *Betula* and *Carpinus betulus* Linnaeus (Betulaceae), *Celtis sinensis* Persoon (Cannabaceae), *Quercus* Linnaeus and *Fagus sylvatica* Linnaeus (Fagaceae), *Salix* and *Populus tremula* Linnaeus (Salicaceae) (Taeger et al., 1998).

45- *Urocerus sah* (Mocsáry, 1881)

Synonym: *Sirex sah* Mocsáry, 1881: 36.

Distribution in Iran: Iran without locality details (Mocsáry, 1881); Northern of Iran (Gussakovskij, 1935; Benson, 1943, 1968); Northern provinces (Farahbakhsh, 1961; Behdad, 1988; Modarres Awal, 1997).

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Afghanistan, Iran, Russia, Spain, Turkey, Ukraine, USA and Uzbekistan (Taeger & Blank, 2011).

Host plants: Larvae feed on *Populus* and probably on *Ulmus* (Modarres Awal, 1997).

VIII- Family Tenthredinidae

Subfamily Allantinae

46- *Allantus (Emphytus) alborzanus* Khayrandish, Talebi & Blank

Distribution in Iran: Alborz and Gilan provinces (Khayrandish et al., in press).

General distribution: Iran (Khayrandish et al., in press).

Host plants: Unknown.

47- *Allantus (Emphytus) cinctus* (Linnaeus, 1758)

Synonyms: *Tenthredo cincta* Linnaeus, 1758: 557; *Tenthredo cordigera* Geoffroy, 1785: 374-375; *Dolerus cinctus* Jurine, 1807: pl. 6; *Dolerus (Emphytus) varipes* Lepeletier, 1823: 119; *Dolerus cingulatus* Serville, 1823: 54-55; *Dolerus varipes* Serville, 1823: 56; *Emphytus*

neglectus Zaddach, 1859: 27; *Emphytus cinctipes* Norton, 1867b: 229; *Emphytus infasciatus* Pic, 1948a: 11.

Distribution in Iran: Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bulgaria, Canada, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Korea (North and South Korea), Latvia, Lithuania, Luxembourg, Mongolia, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011; Smith, 1979).

Host plants: Larvae feed on *Rosa pimpinellifolia* Linnaeus and *Fragaria* Linnaeus but other species of *Rosa* and *Rubus* are not confirmed (Taeger et al., 1998), *Rosa* (Liston & Späth, 2005).

48- *Allantus (Emphytus) cingulatus* (Scopoli, 1763)

Synonyms: *Tenthredo cingulata* Scopoli, 1763: 277; *Dolerus (Emphytus) cingulatus* Lepeletier, 1823: 117; *Tenthredo tenuis* Lepeletier, 1823: 128; *Emphytus elegans* Costa, 1859a: 38-39; *Allantus cingulatus* var. *muliebris* Enslin, 1914c: 229.

Distribution in Iran: Gilan province (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Luxembourg, Netherlands, Norway, Romania, Russia, Slovakia, Spain, Sweden, Switzerland and Turkey (Taeger & Blank, 2011).

Host plants: Larvae feed on *Fragaria ananassa* Duchesne (Rosaceae) and *Rosa canina* Linnaeus (Zhelochovtsev & Zinovjev, 1993); *Fragaria* and *Rosa* (Berland, 1947; Benson, 1952; Lacourt, 1999); *Rosa*,

Corylus and *Betula* (Liston, 1995). Larvae of *Allantus cingulatus* have not been found on *Corylus* and *Betula* to now (Taeger et al., 1998).

49- *Allantus (Emphytus) didymus* (Klug, 1818)

Synonym: *Tenthredo (Emphytus) didyma* Klug, 1818: 282-283.

Distribution in Iran: Alborz, Qazvin, Gilan (Khayrandish et al., in press) and Mazandaran (Benson, 1968; Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Greece (Taeger & Blank, 2011); Iran and Turkey (Benson, 1968).

Host plants: Larvae feed on *Rosa* (Berland, 1947; Zhelochovtsev & Zinovjev, 1993; Liston, 1995); *Sanguisorba minor* Scopoli, *Rosa* spp. and *Rubus* spp. (Lacourt, 1999); *S. minor* (Liston, 2004); *Rosa* spp. and *Rubus* spp. are not confirmed as hosts (Taeger et al., 1998).

50- *Allantus (Emphytus) geminus* (Konow, 1891)

Synonym: *Emphytus geminus* Konow, 1891: 43-44.

Distribution in Iran: Iran without locality details (Taeger & Blank, 2011).

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Taeger & Blank, 2011)

Host plants: Unknown.

51- *Allantus (Emphytus) koschevnikovi* (Konow, 1905)

Synonym: *Emphytus koschevnikovi* Konow, 1905b: 163.

Distribution in Iran: Iran without locality details (Konow, 1905; Lacourt, 1999); Tehran province (Ushinskij, 1936; Zhelochovtsev, 1976).

General distribution: Palaearctic (Taeger et al., 2010); Iran and Turkmenistan (Taeger & Blank, 2011).

Host plants: Unknown.

52- *Allantus (Emphytus) laticinctus* (Serville, 1823)

Synonyms: *Tenthredo (Emphytus) balteata* Klug, 1818: 287; *Dolerus laticinctus* Serville, 1823: 53; *Dolerus laticinctus* Lepeletier, 1823: 116; *Emphytus bucculentus* Tischbein, 1846: 79; *Emphytus fulvocinctus* Rudow, 1872: 217–218; *Emphytus balteatus* var. *nigripes* Konow, 1897c: 375; *Emphytus balteatus* var. *nigrolinear* Zirngiebl, 1937a: 646; *Emphytus balteatus* var. *albimacula* Zirngiebl, 1937a: 646.

Distribution in Iran: Gilan, Qazvin (Khayrandish et al., in press) and Mazandaran (Chevin, 1985; Lacourt, 1999; Khayrandish et al., in press) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bosnia and Herzegovina, China, Croatia, Cyprus, Czech Republic, France, Germany, Great Britain, Greece, Hungary, Italy, Luxembourg, Romania, Slovakia, Spain, Switzerland, Turkey and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rosa* (Liston, 1995).

53- *Allantus (Emphytus) melanarius* (Klug, 1818)

Synonyms: *Tenthredo (Emphytus) melanaria* Klug, 1818: 282; *Emphytus tricoloripes* Costa, 1859a: 35–36.

Distribution in Iran: Northern of Iran (Lacourt, 1999); Mazandaran province (Benson, 1968).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, France, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Luxembourg, Netherlands, Romania, Slovakia, Spain, Switzerland, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: larvae feed on *Cornus sanguinea* Linnaeus (Cornaceae) (Taeger et al., 1998).

54- *Allantus (Allantus) viennensis* (Schrank, 1781)

Synonyms: *Tenthredo viennensis* Schrank, 1781: 331–332; *Emphytus viennensis* var. *nigricoxis* De-Stefani, 1883: 11; *Emphytus viennensis* var. *medinae* Konow, 1894b: 92; *Allantus viennensis* var. *uberior* Enslin, 1914c: 222; *Emphytus viennensis* var. *atricornis* Pic, 1948a: 11.

Distribution in Iran: Northern provinces (Abai, 2009); Alborz, Qazvin, Tehran (Khayrandish et al., in press); Gilan and Mazandaran (Behdad, 1988; Moddarees Awal, 1997; Khayrandish et al., in press) provinces.

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Austria, Belgium, Croatia, Czech Republic, France, Germany, Greece, Hungary, Italy, Luxembourg, Netherlands, Romania, Russia, Slovakia, Spain, Switzerland and USA (Taeger & Blank, 2011); introduced to North America (Smith, 2003).

Host plants: Larvae feed on *Rosa* spp. and *Rubus* spp. (Berland, 1947; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Moddarees Awal, 1997; Lacourt, 1999).

This species lives on several species of *Rosa* but *Rubus* is not confirmed as host (Taeger et al., 1998).

55- *Allantus (Allantus) zonarius* (Mocsáry, 1880)

Synonym: *Emphytus zonarius* Mocsáry, 1880: 268.

Distribution in Iran: Iran without locality details (Mocsáry, 1880).

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Mocsáry, 1880).

Host plants: Unknown.

56- *Ametastegia (Ametastegia) alabastria* (Konow, 1898)

Synonym: *Taxonus alabastrius* Konow, 1898c: 238.

Distribution in Iran: Gilan and Mazandaran provinces (Khayrandish et al., 2012, 2015)

General distribution: West Palaearctic (Taeger et al., 2010); Armenia and Azerbaijan (Taeger & Blank, 2011), Iran (Khayrandish et al., 2012, 2015).

Host plants: Unknown.

57- *Ametastegia (Ametastegia) glabrata* (Fallén, 1808)

Synonyms: *Tenthredo violacea* Christ, 1791: 449; *Tenthredo glabrata* Fallén, 1808: 108; *Tenthredo (Allantus) agilis* Klug, 1817b: 208–209; *Tenthredo rufipes* Lepeletier, 1823: 81; *Tenthredo rufipes* Serville, 1823: 25; *Tenthredo (Taxonus) nigrisoma* Norton, 1862: 119; *Ametastegia fulvipes* Costa, 1882: 198; *Strongylogaster abnormis* Provancher, 1885: 10; *Strongylogastroidea potulenta* MacGillivray, 1923: 31.

Distribution in Iran: Gilan province (Zirngiebl, 1956).

General distribution: Palaearctic, Nearctic, Neotropic, Australasian (Taeger et al., 2010); Albania, Argentina, Australia, Austria, Belgium, Bulgaria, Canada, Chile, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Moldova, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rumex crispus* Linnaeus, *Rumex* sp., *Polygonum* sp. (Polygonaceae) in North America (Smith, 1979); *Rumex acetosella* Linnaeus *Rumex crispus*, *Rumex longifolius* De Candolle (Polygonaceae); ?*Bidens* (Asteraceae); *Chenopodium* (Chenopodiaceae); ?*Lythrum salicaria* Linnaeus (Lythraceae); *Plantago* (Plantaginaceae); *Rheum rhabarbarum* Linnaeus (Polygonaceae); *Solanum dulcamara* Linnaeus (Solanaceae); *Epilobium* (Onagraceae); *Fagopyrum* (Polygonaceae); *Solanum tuberosum* Linnaeus (Solanaceae); *Vicia* (Fabaceae); *Polygonum aviculare* Linnaeus (Polygonaceae) (Taeger et al., 1998).

58- *Ametastegia (Protemphytus) pallipes* (Spinola, 1808)

Synonyms: *Tenthredo pallipes* Spinola, 1808: 19; *Tenthredo (Emphytus) grossulariae* Klug, 1818: 283; *Dolerus (Emphytus) leucopodus* Lepeletier, 1823: 119; *Dolerus leucopodus* Serville, 1823: 56; *Tenthredo lapponica* Zetterstedt, 1838: 350; *Emphytus pallipes* Provancher, 1878: 66–67; *Emphytus canadensis* W.F. Kirby, 1882: 204; *Emphytus pallidipes* Dalla Torre, 1894: 119; *Empria cavata* MacGillivray, 1911: 305; *Empria cetaria* MacGillivray, 1921b: 33–34; *Emphytus hyacinthus* MacGillivray, 1923e: 16; *Emphytus hospitus* MacGillivray, 1923e: 15–16; *Emphytus halesus* MacGillivray, 1923e: 13; *Emphytus heroicus* MacGillivray, 1923e: 14–15; *Emphytus hiatus* MacGillivray, 1923e: 15.

Distribution in Iran: Iran without locality details (Benson, 1968; Lacourt, 1999), Gilan province (Khayrandish et al., 2012, 2015).

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); widely distributed in the European part of the West Palaearctic eastwards to Iran and has reported from Canada and U.S.A in Nearctic (Taeger & Blank, 2011).

Host plants: Larvae feed on *Viola canina* Linnaeus, *V. odorata* Linnaeus, *V. tricolor* Linnaeus (Violaceae) and *Vicia* (Fabaceae) (Taeger et al., 1998).

59- *Ametastegia (Protemphytus) persica* Khayrandish, Talebi & Blank, 2015

Distribution in Iran: Gilan and Mazandaran provinces (Khayrandish et al., 2015).

General distribution: Iran (Khayrandish et al., 2015).

Host plants: Unknown.

60- *Ametastegia (Protemphytus) tenera* (Fallén, 1808)

Synonyms: *Tenthredo tenera* Fallén, 1808: 109; *Tenthredo (Emphytus) patellata* Klug, 1818: 283–284; *Dolerus (Emphytus) luctuosus* Lepeletier, 1823: 119; *Dolerus (Emphytus) nigrinus* Lepeletier, 1823: 120; *Dolerus*

nigrilus Serville, 1823: 57; *Dolerus luctuosus* Serville, 1823: 57; *Tenthredo trunculi* Vallot, 1845: 51; *Simplemphytus pacificus* MacGillivray, 1914: 363–364; *Emphytina vanduzeei* Rohwer, 1915: 205–206; *Emphytus haustus* MacGillivray, 1923e: 14; *Emphytus haliartus* MacGillivray, 1923e: 14; *Empria columna* MacGillivray, 1923a: 54.

Distribution in Iran: Mazandaran province (Khayrandish et al., 2012, 2015).

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); widely distributed in the European part of the West Palaearctic eastwards to Iran and has reported from Canada and U.S.A in Nearctic (Taeger & Blank, 2011).

Host plants: *Rumex* and *Cirsium* (Asteraceae) are the main host plants for *Ametastegia tenera* but the larvae burrow into the various plant stems to pupate. Therefore some of host plants may be due to erroneous information (Taeger et al., 1998).

61- *Athalia ancilla meridiana* Benson, 1954

Synonym: *Athalia glabricollis meridiana* Benson, 1954: 279.

Distribution in Iran: Southwest of Iran (Benson, 1954, 1962, 1968; Lacourt, 1999).

General distribution: Palaearctic (Taeger et al., 2010); Iran, Israel, Turkey and Uzbekistan (Taeger & Blank, 2011).

Host plants: Larvae feed on *Diplotaxis* spp., *Raphanus raphanistrum* Linnaeus, *Sisymbrium* spp. and *Sinapis* spp. (Brassicaceae) (Taeger et al., 1998).

62- *Athalia armeniaca* Zombori, 1978

Distribution in Iran: Alborz, Gilan, Mazandaran and Tehran provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

63- *Athalia circularis melanoptera* Benson, 1962

Distribution in Iran: Northeast of Iran (Lacourt, 1999; Taeger & Blank, 2011).

General distribution: Palaearctic (Taeger et al., 2010); China, Iran, Japan, Korea and Mongolia (Taeger & Blank, 2011).

Host plants: Unknown.

64- *Athalia cordata* Serville, 1823

Synonyms: *Athalia suessionensis* Lepelletier, 1823: 22–23; *Athalia cordata* Lepelletier, 1823: 22; *Athalia suessionensis* Serville, 1823: 80–81; *Athalia blanchardi* Brullé, 1846: 663 pl. 46; *Athalia rosae* var. *obscura* Konow, 1884: 323; *Athalia lineolata* var. *analisis* Enslin, 1913: 193.

Distribution in Iran: East Azerbaijan (Chevin, 1985); Gilan and Mazandaran (Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Israel, Italy, Latvia, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Tunisia, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Ajuga reptans* Linnaeus (Lamiaceae), *Antirrhinum* Linnaeus and *Plantago* Linnaeus (Plantaginaceae) (Liston 1995); Labiatae and Plantaginaceae (Zhelochovtsev & Zinovjev, 1993); *Ajuga* spp., *Antirrhinum* spp., *Misopates orontium* (Linnaeus) (Plantaginaceae), *Teucrium scorodonia* Linnaeus (Lamiaceae), *Plantago* spp. (Lacourt, 1999). *Misopates orontium*, *Antirrhinum majus* Linnaeus, *Ajuga reptans*, *Plantago* are confirmed as hosts for *Athalia cordata* and other species are not clear (Taeger et al., 1998).

65- *Athalia cornubiae* Benson, 1931

Distribution in Iran: Southwest of Iran (Benson, 1962, 1968; Dadurian, 1962).

General distribution: Palaearctic (Taeger et al., 2010); Armenia, Austria, Belgium, Bulgaria, Canada, France, Georgia, Germany, Great Britain, Greece, Hungary,

Iran, Italy, Luxembourg, Macedonia, Poland, Portugal, Russia, Slovakia, Slovenia, Spain, Switzerland, Turkey, Ukraine, USA and Uzbekistan (Taeger & Blank, 2011).

Host plants: Larvae feed on *Sedum album* Linnaeus and *S. hispanicum* Linnaeus (Crassulaceae) (Taeger et al., 1998, Lacourt, 1999).

66- *Athalia liberta* (Klug, 1815)

Synonyms: *Tenthredo* (*Allantus*) *rosae* var. *liberta* Klug, 1815: 129; *Athalia rosae* var. *immaculata* Konow, 1884: 323.

Distribution in Iran: Southwest of Iran (Benson, 1962, 1968; Dadurian, 1962); Golestan (Chevin, 1985; Lacourt, 1999); Alborz, Qazvin, Gilan and Mazandaran (Khayrandish et al., in press) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Albania, Andorra, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Kyrgyzstan, Latvia, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Switzerland, Turkey, Ukraine, Uzbekistan and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Sisymbrium* spp., *Alliaria petiolata* (M.Bieberstein) and *Cardamine* spp. (Brassicaceae) (Berland, 1947; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Lacourt, 1999). *Arabidopsis thaliana* (Linnaeus), *Alliaria petiolata*, *Cardamine hirsuta* Linnaeus, *Sisymbrium officinale* (Linnaeus) are as hosts for *A. liberta* but other species of *Cardamine* and *Sisymbrium* are not confirmed (Taeger et al., 1998).

67- *Athalia paveli* Mocsáry, 1879

Distribution in Iran: Fars province (Chevin, 1985; Lacourt, 1999).

General distribution: Iran and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

68- *Athalia rosae* (Linnaeus, 1758)

Synonym: *Tenthredo rosae* Linnaeus, 1758: 557.

Distribution in Iran: Alborz and Mazandaran (Khayrandish et al., in press); East Azerbaijan (Farahbakhsh, 1961; Modarres Awal, 1997; Benson, 1968) and Golestan (Mallach, 1931; Chevin, 1985) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Italy, Latvia, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae are oligophagus feeding on *Armoracia rusticana* Gaertner, Meyer & Scherbius, *Barbarea* W. T. Aiton, *Brassica juncea* (Linnaeus), *Brassica napus* Linnaeus, *Brassica nigra* Linnaeus, *Brassica rapa* Linnaeus, *Rorippa amphibian* (Linnaeus), *Sinapis alba* Linnaeus, *Sisymbrium officinale*, *Brassica oleracea* Linnaeus, *Raphanus raphanistrum* Linnaeus, *Sinapis arvensis* Linnaeus (Brassicaceae) and *Tropaeolum majus* Linnaeus (Tropaeolaceae) (Taeger et al., 1998).

69- *Empria pravei* Dovnar-Zapolskij, 1925

Additional records from Iran: Mazandaran province (Benson, 1968; Lacourt, 1999).

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Iran and Russia (Taeger & Blank, 2011).

Host plants: Unknown.

Remarks: Khayrandish et al. (in press) reported a species as *E. nr pravei* from Gilan and Mazandaran provinces that might represent a new species close to *E. pravei*.

70- *Eriocampa peineae* Zirngiebl, 1956

Distribution in Iran: Northern of Iran (Lacourt, 1999); Gilan (Zirngiebl, 1956; Blank, 1996; Benson, 1968; Khayrandish et

al., in press) and Mazandaran (Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Iran and Russia (Taeger & Blank, 2011).

Host plants: Unknown.

71- *Monosoma pulveratum* (Retzius, 1783)

Synonyms: *Tenthredo pulverata* Retzius, 1783: 72; *Tenthredo limbata* Gmelin, 1790: 2667; *Tenthredo pulverulenta* Christ, 1791: 451–452; *Tenthredo (Allantus) obesa* Klug, 1817b: 210–211; *Tenthredo (Allantus) obtusa* Klug, 1817b: 211–212; *Selandria pulchella* Stephens, 1835: 54; *Tenthredo leucozonias* Hartig, 1837: 290; *Tenthredo segmentata* Zetterstedt, 1838: 353; *Harpiphorus taeniatus* Costa, 1869: 14; *Empria pulverata* var. *obtusalis* Enslin, 1914c: 210–211.

Distribution in Iran: Gilan province (Zirngiebl, 1956; Lacourt, 1999).

General distribution: West Palaearctic, Nearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Turkey, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae feed on *Alnus incana* (Linnaeus), *A. glutinosa* (Linnaeus) and *Salix* Linnaeus (Taeger et al., 1998); *A. glutinosa*, *A. incana*, *A. orientalis* Decaisne (Betulaceae) (Lacourt, 1999).

Subfamily Blennocampinae

72- *Ardis pallipes* (Serville, 1823)

Synonyms: *Tenthredo (Allantus) bipunctata* Klug, 1817b: 215; *Dolerus pallipes* Serville, 1823: 57; *Dolerus (Emphytus) pallipes* Lepeletier, 1823: 119–120; *Tenthredo brunniventris* Hartig, 1837: 274; *Monophadnus dissimilis* Costa, 1859a: 54–55; *Selandria (Monophadnus) irrogata* Cresson, 1880: 13; *Emphytus dubius* W.F. Kirby, 1882:

202; *Aphanisus odoratus* MacGillivray, 1908: 296; *Aphanisus parallelus* MacGillivray, 1923e: 7–8.

Distribution in Iran: Iran without locality details (Behdad, 1988; Modarres Awal, 1997; Abai, 2009); Alborz, Tehran (Esmaili et al., 1991) and Gilan (Khayrandish et al., in press) provinces.

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Austria, Belgium, Canada, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Japan, Luxembourg, Netherlands, Norway, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rosa pimpinellifolia*, *R. alpina* Linnaeus (Taeger et al., 1998).

73- *Cladardis elongatula* (Klug, 1817)

Synonym: *Tenthredo (Allantus) elongatula* Klug, 1817b: 214.

Distribution in Iran: Iran without locality details (Behdad, 1988; Esmaili et al., 1991; Modarres Awal, 1997; Aabi, 2009).

General distribution: West Palaearctic (Taeger et al., 2010) Austria, Belgium, Bulgaria, Croatia, Czech Republic, Finland, France, Germany, Great Britain, Hungary, Italy, Luxembourg, Netherlands, Romania, Russia, Slovakia, Spain, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rosa* (Taeger et al. 1998, Lacourt, 1999).

74- *Eutomostethus luteiventris* (Klug, 1816)

Synonyms: *Tenthredo (Allantus) luteiventris* Klug, 1816: 56–57; *Tenthredo fuscipennis* Lepeletier, 1823: 107; *Tenthredo fuscipennis* Serville, 1823: 49–50; *Phyllotoma fuscipennis* Fallén, 1829: 29–30.

Distribution in Iran: Gilan province (Khayrandish et al., in press).

General distribution: West Palaearctic, Nearctic (Taeger et al., 2010); Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae feed on *Juncus effusus* Linnaeus (Juncaceae) (Benson, 1952; Liston, 1995; Taeger et al., 1998; Lacourt, 1999).

75- *Halidamia affinis* (Fallén, 1807)

Synonyms: *Hylotoma affinis* Fallén, 1807: 207; *Tenthredo (Allantus) hyaline* Klug, 1816: 58; *Blennocampa assimilis* Thomson, 1870: 282; *Blennocampa formosella* Costa, 1882: 198; *Blennocampa affinis* var. *pleuritica* Enslin, 1914c: 294.

Distribution in Iran: Mazandaran province (Khayrandish et al., in press).

General distribution: West Palaearctic, Nearctic (Taeger et al., 2010); Algeria, Austria, Belgium, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Israel, Italy, Latvia, Luxembourg, Macedonia, Moldova, Morocco, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae feed on *Galium aparinae* Linnaeus and *G. mollugo* Linnaeus (Rubiaceae) (Berland, 1947; Benson, 1952; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Taeger et al., 1998; Lacourt, 1999).

76- *Monophadnoides rubi* (Harris, 1845)

Synonyms: *Selandria (Hoplocampa) rubi* T.W. Harris, 1845: 13; *Selandria (Monophadnus) nigella* Cresson, 1880: 12; *Monophadnus hudsonicus* W.F. Kirby, 1882: 176; *Monophadnus atricornus* MacGillivray, 1893: 239; *Monophadnus atricornis* Konow, 1905a: 86; *Blennocampa gillettei* Weldon,

1907: 304; *Monophadnoides consobrinus* MacGillivray, 1908: 294; *Monophadnoides costalis* MacGillivray, 1908: 295; *Monophadnoides coracinus* MacGillivray, 1908: 295; *Monophadnoides collaris* MacGillivray, 1908: 295; *Monophadnoides conspicuus* MacGillivray, 1908: 293; *Monophadnoides conspersus* MacGillivray, 1908: 294-295; *Monophadnoides craessus* MacGillivray, 1908: 294; *Monophadnoides concessus* MacGillivray, 1908: 294; *Aphanisus nigritus* MacGillivray, 1908: 296; *Aphanisus lenis* Rohwer, 1909: 399; *Monophadnoides costatus* MacGillivray, 1916: 152-153; *Monophadnoides kincaidi* MacGillivray, 1923e: 26; *Monophadnoides shawi* MacGillivray, 1923e: 26; *Monophadnoides consonus* MacGillivray, 1923e: 25; *Monophadnoides constitutus* MacGillivray, 1923e: 25; *Monophadnoides corytus* MacGillivray, 1923d: 79; *Monophadnoides curiosus* MacGillivray, 1923e: 25-26; *Paracharactus obversus* MacGillivray, 1923e: 28.

Distribution in Iran: Gilan province (Khayrandish et al., in press).

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Switzerland, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Filipendula ulmaria* (Linnaeus), *Geum urbanum* Linnaeus and *Rubus* (Rosaceae) (Taeger et al., 1998).

77- *Monophadnoides scythia* (Konow, 1898)

Synonym: *Monophadnus scythia* Konow, 1898c: 236-237.

Distribution in Iran: Northern of Iran (Lacourt, 1999; Pesarini, 2004).

General distribution: West Palaearctic (Taeger et al., 2010); Azerbaijan (Taeger & Blank, 2011).

Host plants: Unknown.

78- *Pareophora pumilio* Konow, 1898

Distribution in Iran: Northern of Iran (Lacourt, 1999); Mazandaran (Benson, 1968) and Gilan (Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Azerbaijan and Iran (Taeger & Blank, 2011).

Host plants: Larvae of *Pareophora* species feed on *Prunus* (Rosaceae) (Benson, 1952) but for *Pareophora pumilio* is unknown.

79- *Tomostethus claripennis* Enslin, 1914

Synonym: *Tomostethus nigritus* var. *claripennis* Enslin, 1914b: 167.

Distribution in Iran: Kohgiluyeh and Boyer-Ahmad (Abai and Moghadam, 1993; Modarres Awal, 1997; Abai, 2009) and Lorestan (Abai, 2009) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Iran, Morocco, Spain and Turkey (Taeger & Blank, 2011).

Host plants: Larvae feed on *Fraxinus excelsior* Linnaeus (Oleaceae) (Taeger et al., 1998).

Subfamily Heterarthrinae

80- *Caliroa cerasi* (Linnaeus, 1758)

Synonyms: *Tenthredo cerasi* Linnaeus, 1758: 557; *Tenthredo flavipes* Schrank, 1781: 340; *Tenthredo limacina* Retzius, 1783: 73; *Tenthredo (Allantus) adumbrata* Klug, 1816: 64; *Monostegia antipoda* W.F. Kirby, 1881: 50; *Caliroa laudata* MacGillivray, 1909: 355-356; *Caliroa lacinata* MacGillivray, 1909: 356-357.

Distribution in Iran: Northern provinces (Abai, 2009; Behdad, 1984; Behdad, 1988; Farahbakhsh, 1961; Modarres Awal, 1997); Western provinces (Abai, 2009; Behdad, 1984; Modarres Awal, 1997); Azerbaijan (Behdad, 1988; Modarres Awal, 1997; Abai, 2009); Gilan, Mazandaran (Esmaili, 1983; Esmaili et al., 1991); Kermanshah (Behdad, 1984; Modarres Awal, 1997) and Kordistan (Farahbakhsh, 1961) provinces.

General distribution: Palaearctic, Nearctic, Oriental, Afrotropics, Australian,

Neotropic (Taeger et al., 2010); Algeria, Argentina, Australia, Austria, Belgium, Brazil, Canada, Chile, China, Colombia, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Iran, Ireland, Israel, Italy, Japan, Kazakhstan, Kyrgyzstan, Luxembourg, Malta, Moldova, Morocco, Netherlands, New Zealand, Poland, Portugal, Romania, Russia, Slovakia, South Africa, Spain, Sweden, Switzerland, Turkey, Ukraine, Uruguay, USA, Uzbekistan and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae are polyphagous feeding on *Cotoneaster* Medikus, *Malus* Miller, *Betula* and *Mespilus germanica* Linnaeus (Rosaceae), *Quercus*, *Rosa*, *Rubus*, *Salix*, *Amelanchier lamarckii* Scheroeder, *Crataegus monogyna* Jacquin (Rosaceae), *Cydonia oblonga* Miller (Rosaceae), *Prunus cerasus* Linnaeus, *Prunus domestica* Linnaeus, *Prunus padus* Linnaeus, *Prunus spinosa* Linnaeus, *Pyrus communis* Linnaeus, *Rosa canina*, *Sorbus aucuparia* Linnaeus, *Crataegus* Tournefort, *Prunus persica* (Linnaeus) (Rosaceae), *Crataegus sanguinea* Pallas, *Prunus serrulata* Lindley (Taeger et al., 1998).

Remarks: Khayrandish et al. (in press) reported a species from Gilan and Mazandaran provinces that was very similar to *C. cerasi*, but exact identification was not possible.

81- *Caliroa* nr *varipes* (Klug, 1816)

Synonyms: *Tenthredo (Allantus) varipes* Klug, 1816: 69; *Eriocampa crassicornis* Tischbein, 1846: 113; *Eriocampoides variipes* Dalla Torre, 1894: 196.

Distribution in Iran: Mazandaran province (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Ireland, Italy, Latvia, Moldova, Netherlands,

Poland, Romania, Russia, Slovakia, Switzerland, Turkey and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Quercus robur* Linnaeus (Fagaceae) and maybe some species of *Quercus* (Taeger et al., 1998).

82- *Fenusa (Kaliofenusa) ulmi* Sundevall, 1847

Synonyms: *Fenusa intermedia* Thomson, 1871: 186; *Messa alsia* MacGillivray, 1923e: 22-23.

Distribution in Iran: Northern provinces (Abai, 2009) and Tehran province (Abai, 1994; Abai, 2009).

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Austria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Iran, Italy, Japan, Latvia, Norway, Poland, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae feed on *Ulmus glabra* Hudson, *U. minor* Miller, *U. foliacea* Gilibert, ?*U. americana* Linnaeus, *U. elliptica* Kokh and *U. rubra* Muhlenberg (Ulmaceae) (Taeger et al., 1998).

83- *Fenusella hortulana* (Klug, 1818)

Synonyms: *Tenthredo (Emphytus) hortulana* Klug, 1818: 276; *Phoenusa doderleini* De-Stefani, 1883: 12-13; *Fenusella sonderupi* Hering, 1935: XII.

Distribution in Iran: Alborz province (Khayrandish et al., in press).

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Austria, Azerbaijan, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, Italy, Kyrgyzstan, Luxembourg, Netherlands, Poland, Romania, Russia, Spain, Switzerland, Turkey, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae are oligophagus feeding on *Populus nigra* Linnaeus, *Acer campestre* Linnaeus, *A. platanoides* Linnaeus

(Berland, 1947); *Populus nigra* (Benson, 1952; Liston, 1995); *Populus* spp. (Zhelochovtsev & Zinovjev, 1993; Lacourt, 1999). *Populus alba* Linnaeus, *Populus nigra*, *Populus balsamifera* Linnaeus, *Populus x canadensis* Moench, *Populus nigra* var. *italica* Du Rui are confirmed as hosts for *F. hortulana* and other species of *populous* or *Acer* are not clear (Taeger et al., 1998).

84- *Heterarthrus microcephalus* (Klug, 1818)

Synonym: *Tenthredo (Emphytus) microcephala* Klug, 1818: 274-275.

Distribution in Iran: Qazvin province (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Latvia, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae are oligophagus feed on *Salix pentandra* Linnaeus, *S. caprea* Linnaeus, *S. phylicifolia* Linnaeus, *S. alba* Linnaeus, *S. viminalis* Linnaeus, *S. aurita* Linnaeus, *S. myrsinifolia* Salisbury, *S. repens* Linnaeus, *S. cinerea* Linnaeus, *S. fragilis* Linnaeus, *S. purpurea* Linnaeus, *S. triandra* Linnaeus (Taeger et al., 1998; Lacourt, 1999).

85- *Metallus beckeri* (Konow, 1904)

Synonym: *Entodecta beckeri* Konow, 1904a: 4-5.

Distribution in Iran: Gilan province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Georgia and Turkey (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rubus idaeus* (Linnaeus), *R. crataegifolius* Bertoloni (Lacourt, 1999).

86- *Metallus pumilus* (Klug, 1816)

Synonyms: *Tenthredo (Allantus) pumila* Klug, 1816: 72; *Emphytus pumilio* Hartig, 1837: 259; *Fenusa rubi* Boie, 1848: 340.

Distribution in Iran: Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Croatia, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Japan, Luxembourg, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rubus caesius* Linnaeus (Taeger et al., 1998).

87- *Scolioneura hyrcana* Benson, 1968

Distribution in Iran: Northern of Iran (Lacourt, 1999) and Mazandaran province (Benson, 1968).

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Taeger & Blank, 2011).

Host plants: Unknown.

Subfamily Nematinae

88- *Amauronematus* (*Amauronematus*) *tunicatus* (Zaddach, 1883)

Synonyms: *Nematus tunicatus* Zaddach in Brischke, 1883b: 166-167; *Nematus laevis* Brischke, 1883b: 174-175.

Distribution in Iran: Alborz province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Czech Republic, Finland, Germany, Great Britain, Hungary, Ireland, Netherlands, Poland, Romania, Russia, Slovakia and Sweden (Taeger & Blank, 2011).

Host plants: Larvae are oligophagus feeding on *Salix aurita* Linnaeus, *S. atrocinnerea* Brotero, *S. caprea*, *S. acuminata* Miller, *S. cinerea* (Berland, 1947; Benson, 1958; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Lacourt, 1999).

89- *Cladius* (*Priophorus*) *brullei* (Dahlbom, 1835)

Synonyms: *Cladius immunis* Stephens, 1835: 24; *Nematus melanostigma* Stephens, 1835: 35-36; *Nematus* (*Priophorus*) *geniculatus*

Dahlbom, 1835a: 7; *Nematus* (*Priophorus*) *brullei* Dahlbom, 1835a: 7; *Cladius tener* Zaddach, 1859: 11; *Cladius tristis* Zaddach, 1859: 11-12; *Cladius parvus* Zaddach in Brischke, 1883: 225; *Priophorus rubivorus* Rohwer in Rohwer & Middleton, 1922: 28-29; *Priophorus montanus* Rohwer in Rohwer & Middleton, 1922: 31; *Priophorus rubi* Rohwer in Rohwer & Middleton, 1922: 32; *Priophorus foveivaginatatus* Malaise, 1931: 148-149.

Distribution in Iran: Iran without locality details (Benson, 1968; Lacourt, 1999); Gilan province (Khayrandish et al., in press).

General distribution: Palaearctic, Nearctic, Oriental, Australasian, Neotropic (Taeger et al., 2010); Argentina, Australia, Austria, Belgium, Bulgaria, Canada, Chile, China, Croatia, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, India, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Macedonia, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rubus* (Berland, 1947; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Lacourt, 1999); *Rubus* spp., *Sorbus aucuparia* Linnaeus (Rosaceae) (Benson, 1958); *Rubus arcticus* (Linnaeus), *R. idaeus*, *R. saxatilis* (Linnaeus), *R. fruticosus* (Linnaeus) are confirmed as hosts for *C. brullei* (Taeger et al., 1998).

90- *Cladius* (*Cladius*) *pectinicornis* (Geoffroy, 1785)

Synonyms: *Tenthredo pectinicornis* Geoffroy in Fourcroy, 1785: 374; *Tenthredo alces* Thunberg, 1789: unpage; *Tenthredo difformis* Panzer, 1799: 62: 10; *Cladius geoffroyi* Lapeletier, 1823: 58; *Cladius geoffroyi* Serville, 1823: 77; *Cladius morio* Lapeletier, 1823: 58-59; *Cladius morio* Serville, 1823: 78; *Tenthredo* (*Cladius*) *isomera* T.W. Harris, 1835: 583; *Nematus crassicornis* Stephens,

1835: 28; *Cladius isomera* Norton, 1861: 223; *Cladius ramicornis* André, 1880: 80; *Cladius gracilicornis* Konow, 1884: 314–316; *Cladius crassicornis* Konow, 1884: 14; *Cladius comari* Stein, 1886: 35–37; *Cladius hyalinopterus* Konow, 1886a: 74–75; *Cladius palmicornis* Konow, 1892: 212; *Cladius major* Cobelli, 1892: 70; *Cladius ordubadensis* Konow, 1892: 211–212; *Cladius orientalis* Cameron, 1902: 448; *Cladius tibialatus* Konow, 1906: 256.

Distribution in Iran: Northern of Iran (Benson, 1968); Alborz, Qazvin, Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: Palaearctic, Nearctic, Oriental (Taeger et al., 2010); Albania, Austria, Azerbaijan, Belgium, Bosnia and Herzegovina, Bulgaria, Canada, China, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, India, Ireland, Italy, Latvia, Luxembourg, Moldova, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Switzerland, Turkey, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rosa*, *Fragaria*, *Potentilla palustris*, *Filipendula ulmaria* (Linnaeus), *Sanguisorba minor* Scopoli, *Alchemilla vulgaris* Linnaeus (Rosaceae), *Lamium galeobdolon* (Linnaeus) (Lamiaceae) (Berland, 1947; Benson, 1958; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Lacourt, 1999); ?*Filipendula ulmaria*, ?*Galeobdolon luteum* (Linnaeus) (Rosaceae), ?*Sanguisorba minor*, ?*Alchemilla vulgaris*, ?*Fragaria*, ?*Potentilla palustris* Linnaeus (Rosaceae) (*Comarum palustre*), *Rosa hybrida* Linnaeus, *Rosa luciae* Franchet & Rochebrune, *Rosa multiflora* Thunberg, *Rosa wichuraiana* Crepin, *Rosa canina*, *Rosa acicularis* Lindley (Taeger et al., 1998); *Rosa* (Liston & Späth, 2005).

91- *Cladius (Priophorus) rufipes* Serville, 1823

Synonyms: *Cladius rufipes* Serville, 1823: 78; *Cladius rufipes* Lepeletier, 1823: 58; *Cladius*

(*Trichiocampus*) *uncinnata* Hartig, 1837: 176–177; *Cladius discrepans* Costa, 1859a: 11–12; *Trichiocampus garbigliettii* Costa, 1864: 103; *Priophorus phaeopterus* Costa, 1894: 45.

Distribution in Iran: Gilan (Khosravi et al., 2014) and Mazandaran (Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belarus, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Italy, Latvia, Poland, Russia, Slovakia, Spain and Switzerland (Taeger & Blank, 2011).

Host plants: Larvae feed on *Ulmus* (Berland, 1947; Benson, 1968; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Taeger et al., 1998; Lacourt, 1999); *Ulmus densa* (Khosravi et al., 2014).

92- *Craesus medunai* Beneš & Abai, 1991

Synonym: *Croesus medunai* Beneš & Abai, 1991: 253–263.

Distribution in Iran: Tehran province (Beneš & Abai, 1991; Abai, 2009).

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Beneš & Abai, 1991).

Host plants: Larvae feed on *Betula pendula* Roth (Beneš & Abai, 1991).

93- *Craesus persicus* Beneš, 1981

Synonym: *Croesus persicus* Beneš, 1981: 177–182.

Distribution in Iran: Northern of Iran (Lacourt, 1999); Northern provinces (Abai, 2009); Alborz, Gilan (Khayrandish et al., in press) and Mazandaran (Beneš, 1981; Beneš & Abai, 1991; Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Beneš, 1981; Taeger & Blank, 2011).

Host plants: Larvae feed on *Alnus subcordata* C.A. von Meyer (Beneš, 1981).

94- *Euura (Euura) sp. (atra group)*

Distribution in Iran: Qazvin province (Khayrandish et al., in press).

General distribution: West Palaearctic, Nearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Germany, Great Britain, Hungary, Ireland, Italy, Latvia, Luxembourg, Netherlands, Poland, Romania, Sweden, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae feed on *Salix alba* and *S. fragilis* (Taeger et al., 1998).

95- *Hoplocampa brevis* (Klug, 1816)

Synonyms: *Tenthredo* (*Allantus*) *brevis* Klug, 1816: 53–54; *Tenthredo fallax* Lepeletier, 1823: 108; *Tenthredo fallax* Serville, 1823: 50; *Tenthredo pyri* Vallot, 1848: 203.

Distribution in Iran: Iran without locality details (Esmaili, 1983; Esmaili et al., 1991); Alborz (Davoudi, 1987; Radjabi, 2002); Isfahan (Behdad, 1984; Modarres Awal, 1997); Qazvin (Radjabi, 2002) and Tehran (Behdad, 1984; Davoudi, 1987; Modarres Awal, 1997) provinces.

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Armenia, Austria, Belarus, Bulgaria, Canada, Cyprus, Czech Republic, Denmark, France, Georgia, Germany, Great Britain, Greece, Hungary, Italy, Jordan, Kazakhstan, Moldova, Netherlands, Poland, Portugal, Romania, Russia, Slovenia, Spain, Switzerland, Tunisia, Turkey, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae feed on *Pyrus communis* (Taeger et al., 1998).

96- *Hoplocampa crataegi* (Klug, 1816)

Synonyms: *Tenthredo* (*Allantus*) *crataegi* Klug, 1816: 54; *Tenthredo pallida* Lepeletier, 1823: 105; *Tenthredo luteola* Lepeletier, 1823: 108; *Tenthredo pallida* Serville, 1823: 47; *Tenthredo luteola* Serville, 1823: 50–51; *Tenthredo verticata* Lepeletier, 1823: 108; *Tenthredo verticata* Serville, 1823: 50.

Distribution in Iran: Alborz province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belgium,

Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Luxembourg, Netherlands, Poland, Slovakia, Spain, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Crataegus* (Berland, 1947; Benson, 1968; Liston, 1995; Taeger et al., 1998; Lacourt, 1999); swept from *Crataegus monogyna* Jacquin (Liston & Späth, 2005).

97- *Hoplocampa flava* (Linnaeus, 1760)

Synonyms: *Tenthredo flava* Linnaeus, 1760: 395; *Tenthredo ruficapilla* Gmelin, 1790: 2668; *Tenthredo glaucopsis* Rossi, 1790: vol. 2, 31–32; *Allantus ferrugineus* Panzer, 1803: 90: 9; *Hylotoma ferruginea* Fabricius, 1804: 26; *Hylotoma simplex* Fallén, 1807: 207–208; *Tenthredo* (*Allantus*) *brunnea* Klug, 1816: 53; *Hoplocampa flava* var. *dimidiata* Costa, 1894: 149; *Tomostethus testaceus* Niezabitowski, 1899: 12.

Distribution in Iran: Iran without locality details (Esmaili, 1983; Esmaili et al., 1991; Davoudi, 1993; Modarres Awal, 1997); Alborz and Qazvin provinces and so most other plum planting areas (Radjabi, 2002).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belarus, Belgium, China, Croatia, Czech Republic, Denmark, Estonia, France, Germany, Great Britain, Greece, Hungary, Ireland, Israel, Italy, Jordan, Latvia, Lebanon, Luxembourg, Netherlands, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Prunus domestica* Linnaeus, *P. avium* Linnaeus, *P. cerasus* Linnaeus, *P. mahaleb* (Linnaeus) and *P. spinosa* Linnaeus (Taeger et al., 1998).

98- *Hoplocampa minuta* (Christ, 1791)

Synonyms: *Tenthredo minuta* Christ, 1791: 438; *Tenthredo hylotomoides* Lepeletier, 1823: 107; *Tenthredo hylotomoides* Serville, 1823: 49; *Tenthredo parvula* Lepeletier, 1823: 107;

Tenthredo paroula Serville, 1823: 49;
Tenthredo turcarum Vallot, 1848: 206;
Hoplocampa fabricii W.F. Kirby, 1882: 167;
Hoplocampa minuta forma *dudai* Gregor in
 Gregor & Baťa, 1942: 288.

Distribution in Iran: Iran without locality details (Esmaili, 1983; Esmaili et al., 1991); Hamadan, Isfahan, Tehran (Farahbakhsh, 1961; Behdad, 1984; Modarres Awal, 1997); Qazvin, Markazi (Farahbakhsh, 1961; Behdad, 1984); Mazandaran and Zanzan (Modarres Awal, 1997) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Armenia, Austria, Belarus, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, France, Georgia, Germany, Hungary, Iran, Italy, Latvia, Luxembourg, Moldova, Netherlands, Poland, Portugal, Romania, Russia, Slovakia, Spain, Switzerland, Tajikistan, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Prunus armeniaca* (Linnaeus), *P. avium*, *P. domestica* and *P. spinosa* (Taeger et al., 1998).

99- *Hoplocampa pectoralis* Thomson, 1871

Synonyms: *Hoplocampa gallicola* Cameron, 1877: 156-157; *Hoplocampa oertzeni* Konow, 1888b: 188,190.

Distribution in Iran: Northern of Iran (Lacourt, 1999) and Mazandaran province (Benson, 1968).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Netherlands, Slovakia, Spain, Sweden and Switzerland (Taeger & Blank, 2011).

Host plants: Larvae feed on *Crataegus* (Taeger et al., 1998).

100- *Hoplocampa testudinea* (Klug, 1816)

Synonym: *Tenthredo* (*Allantus*) *testudinea* Klug, 1816: 60.

Distribution in Iran: Northern provinces (Behdad, 1984; Modarres Awal, 1997).

General distribution: West Palaearctic, Nearctic (Taeger et al., 2010); Armenia,

Austria, Belarus, Belgium, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Hungary, Italy, Luxembourg, Netherlands, Poland, Romania, Russia, Slovenia, Sweden, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae feed on *Pyrus malus* Linnaeus and *P. communis* (Taeger et al., 1998).

101- *Nematus (Paranematus) sp.*

Distribution in Iran: Gilan province (Khayrandish et al., in press).

Host plants: Unknown.

102- *Nematus (Pteronidea) fagi* Zaddach, 1876

Synonym: *Nematus fagi kanazawaensis* Togashi, 1972: 63.

Distribution in Iran: Northern provinces (Behdad, 1988; Modarres Awal, 1997; Abai, 2009).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Finland, France, Germany, Great Britain, Hungary, Italy, Luxembourg, Netherlands, Poland, Romania, Slovakia, Slovenia, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Fagus sylvatica* Linnaeus (Fagaceae) (Taeger et al., 1998).

103- *Nematus (Pteronidea) incompletus* Förster, 1854

Synonyms: *Nematus incompletus* Förster, 1854a: 297-298; *Nematus smaragdinus* Stein, 1881: 60-62; *Nematus pulchellus* Cameron, 1882b: 537-538; *Nematus chlorogaster* Zaddach in Brischke, 1884: 149-150; *Pteronidea segmentaria* var. *signata* Enslin, 1916: 426; *Pteronidea segmentaria* var. *tessinensis* Enslin, 1916: 426.

Distribution in Iran: Gilan province (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Croatia, Czech Republic, Estonia, Finland, Germany, Great Britain, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Moldova,

Netherlands, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Salix* and *Populus tremula* Linnaeus (Salicaceae) (Liston, 1995; Taeger et al., 1998).

104- *Nematus (Nematus) lucidus* (Panzer, 1801)

Synonyms: *Tenthredo lucida* Panzer, 1801: 82: 10; *Nematus cinctus* Lepeletier, 1823: 66; *Nematus cinctus* Serville, 1823: 68–69; *Nematus (Nematus) devillareti* Dahlbom, 1835b: 10; *Holcochneme lucidus* var. *rufa* Zirngiebl, 1937b: 347.

Distribution in Iran: Mazandaran province (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belarus, Belgium, Croatia, Cyprus, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Japan, Latvia, Luxembourg, Macedonia, Netherlands, Norway, Poland, Romania, Slovakia, Spain, Switzerland, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Crataegus* and *Prunus spinosa* (Taeger et al., 1998).

105- *Nematus (Pteronidea) oligospilus* Förster, 1854

Synonyms: *Nematus mendicus* Walsh, 1866: 261–262; *Nematus trivittatus* Norton, 1867a: 218; *Nematus microcercus* Thomson, 1871: 152; *Nematus dorsivittatus* Cresson, 1880: 10; *Nematus salicivorus* Cameron, 1882a: 194–195; *Pteronus koebelei* Marlatt, 1896: 44–46 (key), 71; *Pteronidea vanduzeei* Rohwer, 1913: 280–281; *Pteronidea elelea* MacGillivray, 1923b: 162; *Nematus desantisi* D.R. Smith, 1983: 260–262.

Distribution in Iran: Alborz and Qazvin provinces (Khayrandish et al., in press).

General distribution: Palaearctic, Nearctic, Neotropic, Afrotropic, Australasian (Taeger et al., 2010); Argentina, Australia, Austria, Belgium, Bulgaria, Canada, Chile,

Croatia, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Latvia, Lesotho, Netherlands, New Zealand, Pakistan, Romania, Russia, Slovakia, South Africa, Spain, Sweden, Switzerland, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae are oligophagous feeding on *Salix fragilis*, *S. pentandra* Linnaeus, *S. alba*, *S. caprea* and *S. hastata* Linnaeus (Benson, 1958; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Taeger et al., 1998; Lacourt, 1999).

106- *Nematus (Pteronidea) scotonotus* Förster, 1854

Synonyms: *Pteronidea fuscodorsata* Lindqvist, 1949: 73–74; *Nematus polygoni* Benson, 1961: 228–229.

Distribution in Iran: Gilan province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Finland, France and Germany (Taeger & Blank, 2011).

Host plants: Larvae feed on *Polygonum bistorta* (Linnaeus) (Polygonaceae) (Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Taeger et al., 1998; Lacourt, 1999).

107- *Pontania (Pontania) proxima* (Serville, 1823)

Synonyms: *Nematus proximus* Serville, 1823: 69; *Nematus proximus* Lepeletier, 1823: 67–68; *Nematus gallicola* Stephens, 1835: 36; *Nematus vallisnerii* Hartig, 1837: 205–207; *Nematus redii* Contarini, 1852: 129–130; *Pontania gallicola* Costa, 1852: 1–17; *Nematus albicarpus* Costa, 1859a: 22–23; *Messa hyalina* Norton, 1864: 8; *Nematus festivus* Zaddach in Brischke, 1884: 146–147; *Euura flavipes* Cameron, 1885: 211–212; *Pontania daedala* MacGillivray, 1921a: 33–34.

Distribution in Iran: Alborz province (Khayrandish et al., in press).

General distribution: West Palaearctic, Nearctic, Australasian (Taeger et al., 2010); Australia, Austria, Belarus, Belgium,

Bulgaria, Canada, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Luxembourg, Moldova, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine and USA (Taeger & Blank, 2011).

Host plants: Larvae feed on *Salix alba* and *S. fragilis* (Taeger et al., 1998), *S. alba* (Liston & Späth, 2005).

108- *Pontania (Eupontania) vesicator (Bremi-Wolf, 1849)*

Synonyms: *Nematus vesicator* Bremi-Wolf, 1849: 93–94; *Nematus helycinus* Brischke, 1850: 409–410; *Nematus leptocerus* Förster, 1854a: 289–291; *Nematus lugdunensis* Snellen van Vollenhoven, 1871: 243–248; *Nematus vesicator* var. *minor* Brischke, 1883b: 173; *Pontania vesicator* ab. *borealis* Saarinen, 1945: 194–195.

Distribution in Iran: Iran without locality details (Behdad, 1988; Modarres Awal, 1997; Abai, 2009).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Lithuania, Luxembourg, Netherlands, Poland, Romania, Russia, Slovakia, Spain, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Salix purpurea* Linnaeus (Taeger et al., 1998; Lacourt, 1999).

109- *Pristiphora (Pristiphora) aphantoneura (Förster, 1854)*

Synonyms: *Nematus aphantoneurus* Förster, 1854a: 323–325; *Cryptocampus distinctus* Costa, 1882: 198; *Pristiphora pygmaea* Lindqvist, 1964: 130.

Distribution in Iran: Alborz and Mazandaran provinces (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Austria, China, Estonia, Finland,

Germany, Great Britain, Ireland, Italy, Latvia, Norway, Russia, Slovakia, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Salix aurita* Linnaeus (Berland, 1947; Taeger et al., 1998).

110- *Pristiphora (Gymnonychus) biscalis (Förster, 1854)*

Synonyms: *Nematus biscalis* Förster, 1854a: 326–327; *Nematus conspersus* Zaddach in Brischke, 1883b: 186; *Nematus pruni* Brischke, 1883a: pl. I, 2; *Nematus lateralis* Brischke, 1885: 246; *Nematus postumus* Dalla Torre, 1894: 251.

Distribution in Iran: Mazandaran province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Croatia, Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, Italy, Luxembourg, Netherlands, Poland, Romania, Russia, Slovakia and Switzerland (Taeger & Blank, 2011).

Host plants: Larvae feed on *Prunus spinosa*, *Rosa canina* and *Dasiphora fruticosa* (Linnaeus) (Rosaceae) (Taeger et al., 1998).

111- *Pristiphora (Pristiphora) conjugata (Dahlbom, 1835)*

Synonyms: *Nematus conjugatus* Dahlbom, 1835b: 21–22, 40; *Nematus gonymelas* Stephens, 1835: 34; *Nematus (Nematus) conjugatus* Dahlbom, 1835a: 8; *Nematus discipennis* Herrich-Schäffer, 1840: 176; *Nematus discoidalis* Thomson, 1888: 1209–1210; *Pristiphora conjugata* var. *ulbrichti* Enslin, 1916: 534.

Distribution in Iran: Iran without locality details (Lacourt, 1999); Alborz (Chevin, 1985) and Mazandaran (Khayrandish et al., in press) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Italy, Japan, Latvia, Netherlands,

Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae are oligophagus feeding on *Populus tremula*, *P. italica*, *Salix fragilis*, *S. alba vitellina* (*S. vitellina*) and *S. caprea* (Taeger et al., 1998).

112- *Pristiphora* (*Pristiphora*) *pallidiventr* (Fallen, 1808)

Synonyms: *Tenthredo pallidiventr* Fallén, 1808: 120–121; *Nematus* (*Nematus*) *luridus* Dahlbom, 1835a: 7; *Nematus ephippiger* Hartig, 1840: 24; *Nematus flavicomus* Tischbein, 1846: 77; *Nematus caudalis* Eversmann, 1847: 16; *Nematus nigricans* Eversmann, 1847: 16; *Nematus breviusculus* Eversmann, 1847: 17; *Nematus gemellus* Förster, 1854b: 425–427; *Nematus marshalli* Cameron, 1875: 9; *Nematus cirrhostomus* Zaddach in Brischke, 1883b: 195; *Pristiphora pallidiventr* var. *denudata* Konow, 1902a: 165, 179; *Pristiphora zella* Rohwer, 1909: 20; *Pristiphora pallicoxa* Rohwer, 1910b: 200; *Pristiphora xanthotrachela* Rohwer, 1913: 281; *Pristiphora pallidiventr* var. *haemorrhoidalis* Enslin, 1916: 526; *Pristiphora pallidiventr* var. *stigmatica* Enslin, 1916: 526; *Pristiphora ostiaria* MacGillivray, 1920: 236; *Nematus* (*Pristiphora*) *pallidiventr* ab. *flaviapex* Hellén, 1948: 45; *Nematus* (*Pristiphora*) *pallidiventr* ab. *nigrofemoratus* Hellén, 1948: 45; *Pristiphora pallidiventr* *megalpina* Lacourt, 1987: 262–264.

Distribution in Iran: Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden,

Switzerland, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rubus idaeus*, *Filipendula*, *Geum urbanum* Linnaeus, *Potentilla* (Rosaceae) and *Ribes* (Grossulariaceae) (Taeger et al., 1998).

113- *Pristiphora* (*Stauronematus*) *platycerus* (Hartig, 1840)

Synonyms: *Nematus platycerus* Hartig, 1840: 27; *Nematus vallator* Snellen van Vollenhoven, 1858b: 191–194; *Nematus cebrionicornis* Costa, 1859a: 20; *Nematus callicerus* Thomson, 1863: 619–620.

Distribution in Iran: Northern provinces (Cavalcassele, 1968; Abai, 2009); Alborz, Isfahan, Tehran (Cavalcassele, 1968); Gilan, Mazandaran (Khayrandish et al., in press); Golestan (Chevin, 1985) and Markazi (Abai, 2009) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Luxembourg, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Populus tremula*, *P. italic*, *P. sieboldii* Miquel and *Salix alopechroa* (Taeger et al., 1998).

Subfamily Selandriinae

114- *Aneugmenus coronatus* (Klug, 1818)

Synonyms: *Tenthredo* (*Emphytus*) *coronata* Klug, 1818: 276; *Selandria analis* Thomson, 1871: 239; *Selandria cereipes* Snellen van Vollenhoven, 1873: 13–15; *Selandria bimaculata* Cobelli, 1892: 71–72; *Selandria ogloblini* Dovnar-Zapolskij, 1930: 90–91.

Distribution in Iran: Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great

Britain, Greece, Hungary, Ireland, Italy, Latvia, Luxembourg, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Dryopteris filix-mas* (Linnaeus) (Dryopteridaceae), *Aspidium Swartz* (Tectariaceae), *Athyrium filix-femina* (Linnaeus) (Athyriaceae), *Pteridium aquilinum* (Linnaeus) (Dennstaedtiaceae) (Taeger et al., 1998).

115- *Aneugmenus padi* (Linnaeus, 1760)

Synonyms: *Tenthredo padi* Linnaeus, 1760: 390; *Tenthredo* (*Allantus*) *stramineipes* Klug, 1816: 75–76; *Tenthredo albipes* Lepeletier, 1823: 105; *Tenthredo albipes* Serville, 1823: 47–48; *Selandria rufitarsis* Brullé, 1832: 394; *Allantus laticinctus* Brullé, 1832: 392; *Tenthredo* (*Selandria*) *cerasorum* Dahlbom, 1835a: 11; *Selandria vollenhoveni* Gribodo, 1881: 50; *Selandria* (*Aneugmenus*) *urbis* Ross, 1930: 186–188.

Distribution in Iran: Gilan province (Zirngiebl, 1956; Khayrandish et al., in press).

General distribution: West Palaearctic, Nearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Luxembourg, Macedonia, Netherlands, Norway, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Switzerland, Tunisia, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Pteridium aquilinum* and *Asplenium* Linnaeus (Aspleniaceae) (Berland, 1947; Benson, 1952; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Taeger et al., 1998; Lacourt, 1999).

116- *Dolerus (Dolerus) hispanicus* Mocsáry, 1881

Synonyms: *Dolerus africanus* Forsius, 1918b: 2–3; *Dolerus persicus* Haris, 1996: 190–191.

Distribution in Iran: Northern of Iran (Benson, 1968; Lacourt, 1977) and Kordistan province (Haris, 1996).

General distribution: West Palaearctic (Taeger et al., 2010); Iran and Spain (Taeger & Blank, 2011); Northwest of Africa, Spain, Turkey, Transcaucasia and Iran (Benson, 1968).

Host plants: Larvae feed on ?*Equisetum ramosissimum* Desfontaines (Lacourt, 1999).

117- *Dolerus hyrcanus* Benson, 1968

Distribution in Iran: Iran without locality details (Lacourt, 1999); Gilan, Markazi (Khayrandish et al., in press) and Mazandaran (Benson, 1968; Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Benson, 1968; Lacourt, 1999; Taeger & Blank, 2011); Caucasus (Benson, 1968; Lacourt, 1999).

Host plants: Unknown.

118- *Dolerus (Poodolerus) kokujewi* Konow, 1902

Distribution in Iran: Iran without locality details (Lacourt, 1999) and Alborz province (Chevin, 1985).

General distribution: West Palaearctic (Taeger et al., 2010); Iran, Israel, Russia and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

119- *Dolerus (Dolerus) nigriceps* Konow, 1891

Distribution in Iran: Iran without locality details (Lacourt, 1999).

General distribution: West Palaearctic (Taeger et al., 2010); Iran, Russia and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

Remark: Lacourt (1999) is not a primary source so this record is not confirmed.

120- *Dolerus (Poodolerus) puncticollis* Thomson, 1871

Synonym: *Dolerus croaticus* Konow, 1890a: 9.

Distribution in Iran: Iran without locality details (Lacourt, 1999) and Mazandaran province (Chevin, 1985);

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bulgaria, Croatia, Czech

Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Luxembourg, Macedonia, Netherlands, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Dactylis glomerata* Linnaeus (Poaceae) (Taeger et al., 1998).

121- *Dolerus (Dicrodolerus) vestigialis* (Klug, 1818)

Synonym: *Tenthredo (Dolerus) vestigialis* Klug, 1818: 305–306.

Distribution in Iran: Iran without locality details (Lacourt, 1999) and Mazandaran province (Chevin, 1985, Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Austria, Belarus, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, France, Germany, Great Britain, Greece, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae are oligophagus feeding on *Equisetum palustre* Linnaeus, *E. sylvaticum* Linnaeus, *E. arvense* Linnaeus and *E. pratense* Ehrhart (Equisetaceae) (Taeger et al., 1998).

122- *Nesoselandria morio* (Fabricius, 1781)

Synonyms: *Tenthredo morio* Fabricius, 1781: 414; *Tenthredo ulmi* Schrank, 1802: 237; *Tenthredo tristis* Lepeletier, 1823: 106; *Tenthredo tristis* Serville, 1823: 48–49; *Emphytus infuscatus* Eversmann, 1847: 29; *Selandria fabricii* Konow, 1885b: 300; *Aneugmenus brunneus* Magretti, 1886: 25.

Distribution in Iran: Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: Palaearctic, Nearctic, Oriental (Taeger et al., 2010); Albania, Andorra, Austria, Belgium, Bulgaria, Canada, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Brachythecium reflexum* Schimper (Brachytheciaceae), *Plagiothecium denticulatum* (Hedwig) (Plagiotheciaceae), *Polytrichum commune* Hedwig (Polytrichaceae), *Sanionia uncinata* (Hedwig) (Amblystegiaceae), *Ceratodon purpureus* (Hedwig) (Ditrichaceae), *Dicranum scoparium* Hedwig (Dicranaceae), *Hedwigia ciliata* Hedwig (Hedwigiaceae), *Plagiomnium cuspidatum* (Hedwig) (Mniaceae), *Pseudobryum cinclidioides* (Huebener) (Mniaceae) and so eggs of *N. morio* have observed on *Stellaria media* (Linnaeus) (Caryophyllaceae), *Veronica chamaedrys* Linnaeus (Plantaginaceae), *Veronica officinalis* Linnaeus (Plantaginaceae), *Chenopodium album* Linnaeus (Chenopodiaceae), *Fragaria vesca* Linnaeus (Rosaceae), *Myosotis arvensis* (Linnaeus) (Boraginaceae), *Polygonum aviculare* Linnaeus (Polygonaceae), *Ceratodon purpureus*, *Dicranum scoparium*, *Hedwigia ciliate*, *Plagiomnium cuspidatum* and *Pseudobryum cinclidioides* (Taeger et al., 1998).

123- *Selandria serva* (Fabricius, 1793)

Synonyms: *Tenthredo serva* Fabricius, 1793: 110; *Hylotoma serva* var. *mascula* Fallén, 1807: 204; *Tenthredo (Allantus) socia* Klug, 1816: 49–50; *Tenthredo lepida* Lepeletier, 1823: 104; *Tenthredo lepida* Serville, 1823: 46–47; *Selandria dorsalis* Stephens, 1835: 45–46; *Selandria excisa* Konow, 1885a: 24–25; *Selandria serva* var. *interstitialis* Konow, 1885a: 23; *Selandria serva fuscitarsis* Benson, 1954: 276; *Selandria serva* var. *punctatus* Zirngiebl, 1956: 322.

Distribution in Iran: Gilan (Zirngiebl, 1956; Blank, 1996) and Mazandaran (Chevin, 1985; Lacourt, 1999) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Albania, Austria, Belarus, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Mongolia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Poa* Linnaeus, *Carex* Linnaeus (Cyperaceae), *Juncus* Linnaeus (Juncaceae), *Triticum*, *Alopecurus pratensis* Linnaeus (Poaceae), *Festuca pratensis* Hudson (Poaceae), *Lolium* Linnaeus (Poaceae), *Phalaris arundinacea*, *Phleum pretense* Linnaeus (Poaceae), *P. pratensis* (Taeger et al., 1998).

124- *Strongylogaster multifasciata* (Geoffroy, 1785)

Synonyms: *Tenthredo multifasciata* Geoffroy in Fourcroy, 1785: 368; *Tenthredo lineata* Christ, 1791: 450; *Tenthredo (Allantus) linearis* Klug, 1817b: 217–218; *Tenthredo alternans* Lepeletier, 1823: 73; *Tenthredo alternans* Serville, 1823: 17; *Strongylogaster iridipennis* F. Smith, 1874: 377; *Strongylogaster caucasicus* Schaposchnikov, 1885: 181–182; *Strongylogaster cretensis* Konow, 1887a: 26; *Strongylogaster annularis* Matsumura, 1912: 219–220; *Strongylogaster lineata cypria* Benson, 1954: 276.

Distribution in Iran: Northern of Iran (Benson, 1958); Gilan (Zirngiebl, 1956; Khayrandish et al., in press); Golestan (Chevin, 1985; Lacourt, 1999); Lorestan (Mallach, 1931) and Mazandaran (Khayrandish et al., in press) provinces.

General distribution: Palaearctic, Oriental (Taeger et al., 2010); Albania, Armenia, Austria, Belgium, Bulgaria, China, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great

Britain, Greece, Hungary, Iran, Ireland, Italy, Japan, Latvia, Lebanon, Macedonia, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Dryopteris Adanson* (Dryopteridaceae), *Matteuccia struthiopteris* (Linnaeus) (Onocleaceae), *Aspidium*, *Polystichum* Roth (Dryopteridaceae), *Pteridium aquilinum* (Taeger et al., 1998).

Subfamily Tenthredininae

125- *Aglaostigma (Astochus) aucupariae* (Klug, 1817)

Synonyms: *Tenthredo (Allantus) aucupariae* Klug, 1817b: 212–213; *Tenthredo juvenilis* Lepeletier, 1823: 99; *Tenthredo juvenilis* Serville, 1823: 40–41; *Allantus collaris* Dietrich, 1868: 354; *Laurentia craverii* Costa, 1890: 14–15; *Macrophya laticarpus* Kriechbaumer, 1891: 188–189; *Aglaostigma aucupariae lacteore* Benson, 1968: 155.

Distribution in Iran: Gilan province (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Andorra, Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, France, Germany, Great Britain, Greece, Ireland, Italy, Latvia, Luxembourg, Macedonia, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Galium aparine* (Linnaeus), *G. mollugo* (Linnaeus), *G. verum* (Linnaeus) and *G. boreale* (Linnaeus) (Rubiaceae) (Berland, 1947; Benson, 1952; Zhelochovtsev & Zinovjev, 1993; Liston, 1995; Taeger et al., 1998; Lacourt, 1999).

126- *Aglaostigma (Bivena) langei* (Konow, 1894)

Synonyms: *Rhogogastera langei* Konow, 1894a: 134–135; *Aglaostigma langei eichleri* Mucche, 1975: 239.

Distribution in Iran: Mazandaran province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Belgium, Bulgaria, Croatia, Czech Republic, Estonia, France, Germany, Luxembourg, Netherlands, Russia, Slovakia and Switzerland (Taeger & Blank, 2011).

Host plants: Larvae feed on *Chamerion angustifolium* (Linnaeus) and *Epilobium palustre* Linnaeus (Onagraceae) (Liston, 1995; Taeger, et al., 1998; Lacourt, 1999).

127- *Macrophya (Macrophya) albicincta* (Schrank, 1776)

Synonyms: *Tenthredo albicincta* Schrank, 1776: 85; *Tenthredo albipes* Geoffroy in Fourcroy, 1785: 371; *Tenthredo albipalpis* Schrank, 1802: 250–252; *Tenthredo lugubris* Lapeletier, 1823: 101; *Tenthredo luctuosa* Lapeletier, 1823: 103; *Tenthredo lugubris* Serville 1823: 42–43; *Tenthredo luctuosa* Serville, 1823: 44–45; *Macrophya leucopoda* Palma, 1861: 95–96; *Tenthredo (Macrophya) magnicornis* Eversmann in Kawall, 1864: 297; *Macrophya melanosoma* Rudow, 1871: 392; *Macrophya albicincta* var. *decipiens* Konow, 1884: 326; *Perineura crippae* De-Stefani, 1885: 185; *Macrophya albicincta* var. *candidata* Enslin, 1918: 726; *Macrophya albicincta* var. *agnani* Pic, 1948a: 4–5; *Macrophya albicincta* var. *berlandi* Pic, 1948a: 5.

Distribution in Iran: Northern of Iran (Benson, 1968; Lacourt, 1999) and Lorestan province (Mallach, 1931).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Andorra, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Macedonia, Moldova, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Sambucus ebulus* Linnaeus, *S. nigra* Linnaeus, *S. racemosa* Linnaeus and *Viburnum* Linnaeus (Adoxaceae); *Valeriana officinalis* Linnaeus (Caprifoliaceae) (Taeger et al., 1998).

128- *Macrophya (Macrophya) alboannulata* (Costa, 1859)

Distribution in Iran: Northern of Iran (Lacourt, 1999); Gilan, Mazandaran (Chevin, 1985; Khayrandish et al., in press) and Golestan (Chevin, 1985) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, France, Germany, Great Britain, Greece, Italy, Netherlands, Slovakia, Switzerland and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae are oligophagus feeding on *Sambucus nigra*, *S. racemosa* and *S. ebulus* (Liston, 1995; Taeger et al., 1998; Lacourt, 1999).

129- *Macrophya (Macrophya) annulata* (Geoffroy, 1785)

Synonyms: *Tenthredo annulata* Geoffroy in Fourcroy, 1785: 373; *Tenthredo dorsigera* Rossi, 1790: vol. 2, 32; *Tenthredo similis* Spinola, 1808: 15–16; *Tenthredo (Allantus) neglecta* Klug, 1817a: 112–113; *Allantus dejectus* Norton, 1860: 249–250; *Macrophya annulata theresae* Pic, 1918: 4.

Distribution in Iran: Iran without locality details (Schedl, 1987); Northern of Iran (Lacourt, 1999); Gilan (Khayrandish et al., in press); Lorestan (Mallach, 1931) and Mazandaran (Mallach, 1931; Benson, 1968; Khayrandish et al., in press) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain,

Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Origanum vulgare* Linnaeus (Lamiaceae); *Potentilla reptans* Linnaeus (Rosaceae), *Rosa* and *Rubus* (Taeger et al., 1998).

130- *Macrophya (Macrophya) arpaklena* Ushinskij, 1936

Distribution in Iran: Northern of Iran (Lacourt, 1999); Gilan (Khayrandish et al., in press) and Mazandaran (Benson, 1968; Khayrandish et al., in press) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Iran and Turkmenistan (Taeger & Blank, 2011).

Host plants: Unknown.

131- *Macrophya (Macrophya) blanda* (Fabricius, 1775)

Synonyms: *Tenthredo blanda* Fabricius, 1775: 323; *Tenthredo ligustrina* Geoffroy in Fourcroy, 1785: 371; *Tenthredo cylindrica* Panzer, 1799: 71: 7; *Tenthredo albilabris* Klug, 1817a: 112; *Tenthredo lacrymosa* Lepeletier, 1823: 101; *Tenthredo lacrymosa* Serville, 1823: 43; *Tenthredo cognata* Fallén, 1829: 48; *Tenthredo nyctea* Fischer von Waldheim, 1843: 2; *Macrophya blanda* var. *brevicornis* Gradl, 1878: 239; *Macrophya blanda* var. *jacqueti* Pic, 1918: 3-4; *Macrophya albolapidaria* Kuznetsov-Ugamskij, 1927: 277-288; *Tenthredo reductenotata* Pic, 1928: 6.

Distribution in Iran: Northern of Iran (Lacourt, 1999); Alborz (Chevin, 1985; Khayrandish et al., in press); Gilan (Zirngiebl, 1956; Chevin, 1985; Khayrandish et al., in press); Mazandaran (Benson, 1968; Khayrandish et al., in press) and Qazvin (Khayrandish et al., in press) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Italy, Luxembourg, Macedonia, Moldova, Netherlands, Poland,

Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Unknown.

132- *Macrophya (Macrophya) carinthiaca* (Klug, 1817)

Synonym: *Tenthredo (Allantus) carinthiaca* Klug, 1817a: 118.

Distribution in Iran: Northern of Iran (Lacourt, 1999) and Gilan province (Zirngiebl, 1956).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, Estonia, Finland, France, Germany, Greece, Italy, Macedonia, Netherlands, Romania, Russia, Slovakia, Slovenia, Spain and Switzerland (Taeger & Blank, 2011).

Host plants: Unknown but *Geranium nodosum* Linnaeus, *G. phaeum* Linnaeus, *G. pratense* Linnaeus, *G. sanguineum* Linnaeus and *G. sylvaticum* Linnaeus (Geraniaceae) are hosts for adults (Taeger et al., 1998); Larvae feed on *G. sylvaticum* and *G. sanguineum* (Lacourt, 1999).

133- *Macrophya cyrus* Benson, 1954

Distribution in Iran: Southwest of Iran (Benson, 1954, 1968; Lacourt, 1999); Qazvin and Tehran provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Iran and Turkey (Benson, 1968).

Host plants: Unknown.

134- *Macrophya diaphenia* Benson, 1968

Distribution in Iran: Iran without locality details (Lacourt, 1999); Northern of Iran, Lorestan (Benson, 1968), Alborz (Chevin, 1985; Khayrandish et al., in press); Gilan, Qazvin, Mazandaran and Tehran (Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Benson 1968; Taeger & Blank, 2011).

Host plants: Unknown.

135- *Macrophya (Macrophya) diversipes* (Schrank, 1782)

Synonyms: *Tenthredo diversipes* Schrank, 1782: 289; *Tenthredo haematopus* Panzer, 1801: 81: 11–12; *Tenthredo ocreata* Panzer, 1804: 192; *Tenthredo rubripes* Drapiez, 1820: 122–123; *Tenthredo (Macrophya) corallipes* Eversmann, 1847: 41; *Macrophya flavipes* Tischbein, 1852a: 138; *Tenthredo halensis* Aichinger, 1870: 305, 310; *Macrophya haematopus* var. *immaculiventris* Costa, 1871: 19; *Macrophya eximia* Mocsáry, 1877: 87–88; *Macrophya caucasica* André, 1881c: 357; *Macrophya rubripes* André, 1881b: 589–590; *Macrophya saundersi* W.F. Kirby, 1886: 34; *Macrophya sanguinipes* Mocsáry, 1891: 155–156; *Macrophya dalmatina* Gasperini, 1891: 1; *Macrophya diversipes* var. *passerinii* Ghigi, 1905: 8, 28; *Macrophya diversipes* var. *feminina* Enslin, 1913: 140; *Macrophya diversipes* var. *masculina* Enslin, 1913: 140; *Macrophya diversipes* var. *maculativentris* Enslin, 1913: 140; *Macrophya diversipes* var. *nigritarsis* Enslin, 1913: 140.

Distribution in Iran: Iran without locality details (Muche, 1972); Northern of Iran (Benson, 1968; Lacourt, 1999); Alborz, Gilan, Mazandaran (Khayrandish et al., in press) and Lorestan (Mallach, 1931) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bulgaria, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Iran, Italy, Japan, Kazakhstan, Kyrgyzstan, Luxembourg, Macedonia, Netherlands, Poland, Portugal, Romania, Russia, Slovakia, Spain, Switzerland, Turkey, Turkmenistan, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Fragaria* sp. (Çalmaşur & Özbek, 2004a).

136- *Macrophya (Macrophya) longitarsis* Konow, 1898

Distribution in Iran: Northern of Iran (Lacourt, 1999); Gilan (Zirngiebl, 1956;

Khayrandish et al., in press); Lorestan (Mallach, 1931) and Mazandaran (Benson, 1968; Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Azerbaijan (Taeger & Blank, 2011); Transcaucasia and Iran (Benson, 1968).

Host plants: Unknown.

137- *Macrophya (Macrophya) montana* (Scopoli, 1763)

Synonym: *Tenthredo montana* Scopoli, 1763: 276–277.

Distribution in Iran: Iran without locality details Lacourt (1999); Alborz, Gilan and Mazandaran provinces (Chevin, 1985).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Andorra, Austria, Belgium, Bulgaria, Croatia, Czech Republic, France, Germany, Great Britain, Greece, Hungary, Italy, Latvia, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Rubus caesius* (Taeger et al., 1998); *Rubus* spp. (Lacourt, 1999).

138- *Macrophya oedipus* Benson, 1968

Distribution in Iran: Alborz and Qazvin provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Greece and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

139- *Macrophya (Macrophya) ottomana* Mocsáry, 1881

Distribution in Iran: Iran without locality details (Benson, 1954, 1968; Lacourt, 1999).

General distribution: West Palaearctic (Taeger et al., 2010); Iran and Turkey (Benson, 1968); Armenia, Iran, Israel, Jordan, Lebanon, Russia and Syria (Taeger & Blank, 2011).

Host plants: Unknown.

140- *Macrophya (Macrophya) postica* (Brullé, 1832)

Synonyms: *Tenthredo postica* Brullé, 1832: 388–389; *Macrophya ratzeburgii* Tischbein, 1852c: 137; *Macrophya histrionica* Snellen van Vollenhoven, 1878: 155; *Macrophya postica* var. *nigripleuris* Enslin, 1913: 138; *Macrophya postica luteo maculata* Pic, 1918: 3; *Macrophya postica* var. *sex-maculata* Pic, 1918: 3.

Distribution in Iran: Alborz, Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Armenia, Austria, Bulgaria, Croatia, Czech Republic, Georgia, Greece, Hungary, Italy, Lebanon, Macedonia, Romania, Russia, Slovakia, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Unknown.

141- *Macrophya (Pseudomacrophya) punctumalbum* (Linnaeus, 1767)

Synonyms: *Tenthredo Punctumalbum* Linnaeus, 1767: 924; *Tenthredo erythropus* Schrank, 1776: 86; *Tenthredo punctum* Fabricius, 1781: 415; *Tenthredo stellata* Geoffroy in Fourcroy, 1785: 369.

Distribution in Iran: Northern of Iran (Lacourt, 1991, 1999); Mazandaran province (Benson, 1968).

General distribution: West Palaearctic, Nearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Ligustrum vulgare* Linnaeus, *Fraxinus excelsior* Linnaeus (Oleaceae), *Crataegus* and *Quercus* (Taeger et al., 1998).

142- *Macrophya (Macrophya) rufipes* (Linnaeus, 1758)

Synonyms: *Tenthredo rufipes* Linnaeus, 1758: 557; *Tenthredo pavidata* Fabricius, 1775: 321; *Tenthredo dumetorum* Geoffroy in Fourcroy, 1785: 373; *Tenthredo multicolor* Geoffroy in Fourcroy, 1785: 370; *Tenthredo flavifasciata* Christ, 1791: 450–451; *Tenthredo rufipes* Christ, 1791: 439–440; *Tenthredo strigosa* Fabricius, 1798: 217; *Tenthredo citreipes* Lepeletier, 1823: 96; *Tenthredo citreipes* Serville, 1823: 37–38; *Allantus ione* Newman, 1837: 263; *Macrophya rufipes* var. *orientalis* Mocsáry, 1891: 156; *Macrophya rufipes* var. *muliebris* Enslin, 1913: 138; *Macrophya rufipes* var. *castiliensis* Enslin, 1914b: 166; *Macrophya rufipes* var. *reducta* Pic, 1918: 3; *Macrophya rufipes* var. *reductenotata* Pic, 1929: 3; *Macrophya rufipes* var. *diversereducta* Pic, 1929: 3.

Distribution in Iran: Southwest of Iran (Benson, 1954); Gilan province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Italy, Latvia, Luxembourg, Macedonia, Netherlands, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Vitis vinifera* Linnaeus (Vitaceae), eggs of *M. rufipes* have observed on *Agrimonia* (Rosaceae) (Taeger et al., 1998); *Agrimonia eupatoria* (Linnaeus) (Lacourt, 1999).

143- *Macrophya (Macrophya) nr superba* Tischbein, 1852

Synonyms: *Macrophya erythropus* forma *croatica* Korlević, 1890: 200; *Macrophya flavipennis* Kriechbaumer, 1891: 190–191; *Macrophya erythropus* var. *fluminensis* Strobl, 1901: 77–78; *Macrophya superba* var. *nigricans* Enslin, 1913: 137.

Distribution in Iran: Qazvin province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Georgia, Greece, Italy, Macedonia, Poland, Romania, Turkey and Yugoslavia (Taeger & Blank, 2011).

Host plants: Unknown.

144- *Rhogogaster (Cytisogaster) genistae* Benson, 1947

Synonyms: *Rhogogaster chambersi genistae* Benson, 1947: 98–99; *Rhogogaster genistae viridifrons* Mucho, 1973: 87–88.

Distribution in Iran: Gilan province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belgium, Croatia, Czech Republic, Estonia, France, Germany, Great Britain, Greece, Italy, Luxembourg, Macedonia, Netherlands, Poland, Portugal, Slovakia, Spain, Sweden and Switzerland (Taeger & Blank, 2011).

Host plants: Larvae feed on *Cytisus scoparius* (Linnaeus), *Lembotropis nigricans* (Linnaeus), *Genista tinctoria* Linnaeus and *G. germanica* Linnaeus (Fabaceae) (Taeger et al., 1998).

145- *Rhogogaster (Rhogogaster) viridis* (Linnaeus, 1758)

Synonyms: *Tenthredo viridis* Linné, 1758: 557; *Tenthredo viridis* Poda, 1761: 103; *Tenthredo straminea* Schrank, 1776: 85–86; *Tenthredo hebraica* Geoffroy in Fourcroy, 1785: 363–364; *Tenthredo annalicornis* Gmelin, 1790: 2667; *Tenthredo interrupta* Fabricius, 1804: 40; *Tenthredo (Allantus) scalaris* Klug, 1817b: 194–195; *Tenthredo pictipes* Förster, 1850: 287–288; *Tenthredo chloros* Rudow, 1871: 387–388; *Rhogogaster viridis* var. *sibirica* Enslin, 1912b: 93; *Rhogogaster viridis* var. *melanonota* Enslin, 1912b: 93; *Rhogogaster viridis* var. *lapponica* Enslin, 1918: 722; *Rhogogaster viridis* var. *nigroscutellata* Forsius, 1918a: 150; *Rhogogaster ruga* MacGillivray, 1923b: 160;

Rhogogaster respectus MacGillivray, 1923c: 165; *Rhogogaster viridis* forma *montana* Betrem, 1933: 377–378.

Distribution in Iran: Alborz province (Khayrandish et al., in press).

General distribution: Palaearctic, Nearctic, Oriental (Taeger et al., 2010); Albania, Andorra, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Canada, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Mongolia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae are polyphagous feeding on *Circaea* Tournefort (Onagraceae), *Frangula alnus* Miller (Rhamnaceae), *Populus*, *Quercus*, *Ranunculus* Linnaeus (Ranunculaceae), *Rubus*, *Stellaria*, *Betula*, *Alnus incana*, *Salix caprea*, *S. viminalis* Linnaeus, *Vicia cracca* Linnaeus (Fabaceae), *Filipendula ulmaria* (Taeger et al., 1998).

146- *Sciapteryx lactipennis* Konow, 1903

Distribution in Iran: Iran without locality details (Konow, 1903; Kuznetzov-Ugamskij, 1929; Benson, 1968; Lacourt, 1999).

General distribution: West Palaearctic (Taeger et al., 2010); Russia (Taeger & Blank, 2011) and Iran (Konow, 1903).

Host plants: Unknown.

147- *Sciapteryx nigriventris* André, 1882

Synonym: *Sciapteryx costalis vernalis* Kuznetzov-Ugamskij, 1929: 54–55.

Distribution in Iran: Kermanshah province (Chevin, 1985; Lacourt, 1999).

General distribution: Palaearctic (Taeger et al., 2010); Turkmenistan, Uzbekistan (Taeger & Blank, 2011) and Iran (Chevin, 1985).

Host plants: Unknown.

148- *Tenthredo (Tenthredella) araxana* Mocsáry, 1909

Distribution in Iran: Iran without locality details (Mocsáry, 1909).

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Taeger & Blank, 2011).

Host plants: Unknown.

149- *Tenthredo (Tenthredo) arcuata* Forster, 1771

Synonyms: *Allantus arcuatus* var. *alpigena* Heller & Dalla Torre, 1883: 30, 40; *Allantus clypealis* Konow, 1888a: 220; *Tenthredo arcuata* var. *melanoxyston* Enslin, 1912b: 87; *Allantus arcuatus* ab. *nigrotegulatus* Csiki, 1923: 103, 107; *Allantus arcuatus* var. *similans* Zirngiebl, 1949: 285, 290; *Allantus sulphuripes* var. *tegularis* Zirngiebl, 1949: 289; *Tenthredo arcuata* forma *montana* Muche, 1971: 54.

Distribution in Iran: Iran without locality details (Zirngiebl, 1949; Benson, 1959, 1968; Blank, 1996).

General distribution: Palaearctic (Taeger et al., 2010); Andorra, Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Estonia, Finland, France, Germany, Great Britain, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Netherlands, Norway, Romania, Russia, Slovakia, Slovenia, Spain, Switzerland, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Trifolium repens* Linnaeus (Fabaceae) (Taeger et al., 1998).

150- *Tenthredo (Cephaledo) bifascita* O. F. Muller, 1766

Synonym: *Tenthredo vidua* var. *palestina* Pic, 1948a: 10.

Distribution in Iran: Qazvin, Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Bulgaria,

Croatia, France, Greece, Italy, Macedonia, Romania, Slovenia, Spain, Switzerland and Turkey (Taeger & Blank, 2011).

Host plants: Larvae feed on *Aegopodium?* Linnaeus (Apiaceae) (Liston, 1995).

151- *Tenthredo caligator* Eversmann, 1847

Synonyms: *Tenthredo (Tenthredo) caligator* Eversmann, 1847: 47; *Tenthredo nigritarsis* Puls, 1870: 152; *Tenthredo morawitzi* Jakowlew, 1888: 372.

Distribution in Iran: Lorestan province (Mallach, 1931).

General distribution: West Palaearctic (Taeger et al., 2010); Armenia and Georgia (Taeger & Blank, 2011) and Iran (Mallach, 1931).

Host plants: Unknown.

152- *Tenthredo (Elinora) caspia* (André, 1881)

Synonym: *Allantus caspius* André, 1881d: 400.

Distribution in Iran: Iran without locality details (Benson, 1946, 1968; Lacourt, 1999).

General distribution: West Palaearctic (Taeger et al., 2010); Iran, Russia and Ukraine (Taeger & Blank, 2011).

Host plants: Unknown.

153- *Tenthredo (Maculedo) cinctipleuris* (Enslein, 1910)

Synonym: *Allantus cinctipleuris* Enslin, 1910: 343, 363–364.

Distribution in Iran: Iran without locality details (Taeger, 1988a); Northern of Iran (Lacourt, 1999); Alborz (Benson, 1968; Chevin, 1985; Khayrandish et al., in press) and Mazandaran (Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Georgia, Iran and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

154- *Tenthredo (Cephaledo) costata* Klug, 1817

Synonyms: *Tenthredo (Allantus) costata* Klug, 1817a: 142–143; *Tenthredo (Allantus) sareptana* Eversmann, 1847: 39–40; *Allantus faustus*

W.F. Kirby, 1882: 245; *Allantus subcostatus* Jakowlew, 1888: 374–375; *Allantus graecus* Konow, 1888a: 216; *Allantus parnasius* Konow, 1888a: 214–216; *Allantus violaceipennis* Costa, 1890: 16, pl. III; *Allantus kiefferi* Konow, 1899c: 363–364; *Allantus kietteri* var. *cilix* Enslin, 1910: 351; *Tenthredo kiefferi* var. *lugubrata* Enslin, 1914a: 57; *Allantus costatus* var. *obscurus* Zirngiebl, 1937b: 347; *Tenthredo costata* ab. *nigradorsata* Čingovski, 1958: 164–165, 178.

Distribution in Iran: Iran without locality details (Benson, 1968).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Andorra, Armenia, Austria, Bulgaria, Greece, Hungary, Italy, Jordan, Macedonia, Romania, Russia, Slovakia, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Chondrilla* Linnaeus (Asteraceae) (Zhelochovtsev & Zinovjev, 1993).

Remarks: Benson (1968) listed Iran under the general distribution of *T. costata* but he did not present detailed collection data for this country. So occurrence of this species in Iran need to be re-confirmed.

155- *Tenthredo (Zonuleda) distinguenda* (Stein, 1885)

Synonym: *Allantus distinguendus* Stein, 1885: 117.

Distribution in Iran: Iran without locality details (Taeger, 1991); Northern of Iran (Lacourt, 1999; Taeger & Blank, 2011) and Gilan province (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Austria, Azerbaijan, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, France, Georgia, Germany, Great Britain, Greece, Iran, Italy, Macedonia, Netherlands, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Unknown.

156- *Tenthredo (Cephaledo) excellens* (Konow, 1886)

Synonyms: *Allantus excellens* Konow, 1886b: 17; *Allantus persa* Konow, 1888a: 212–213; *Allantus persa* var. *mandibularis* Enslin, 1910: 344, 364; *Tenthredo persa* var. *caja* Enslin, 1912a: 104.

Distribution in Iran: Iran without locality details (Konow, 1888; Enslin, 1910; Taeger, 1988b, 1992; Zhelochovtsev & Zinovjev, 1993); Northern of Iran (Benson, 1968; Lacourt, 1999); Gilan, Qazvin (Khayrandish et al., in press); Khorasan, Semnan (Taeger & Blank, 2011) and Mazandaran (Taeger & Blank, 2011; Khayrandish et al., in press) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Austria, Bulgaria, Croatia, Georgia, Greece, Iran, Macedonia, Romania, Russia, Slovakia, Turkey, Turkmenistan and Ukraine (Taeger & Blank, 2011).

Host plants: Unknown.

157- *Tenthredo (Zonuledo) flavipennis* Brullé, 1832

Synonym: *Allantus frivaldszkyi* Mocsáry, 1879: 118–119; *Allantus lautus* Konow, 1891: 47; *Allantus luminosus* Konow, 1899a: 204–205.

Distribution in Iran: Alborz, Gilan, Qazvin (Khayrandish et al., in press) and Mazandaran (Taeger & Blank, 2011) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Bulgaria, Greece, Hungary, Iran, Italy, Macedonia, Romania, Russia, Slovakia and Turkey (Taeger & Blank, 2011).

Host plants: Unknown.

158- *Tenthredo (Elinora) longipes* (Konow, 1886)

Synonyms: *Allantus longipes* Konow, 1886b: 20–21; *Allantus shestoperovi* Ushinskij, 1936: 104, 110–111; *Cuneala tricolor* Zirngiebl, 1956: 322–325.

Distribution in Iran: Iran without locality details (Taeger, 1988a); Northern of Iran

(Lacourt, 1999; Blank & Taeger, 2006; Taeger & Blank, 2011); Gilan (Zirngiebl, 1956; Blank, 1996) and Mazandaran (Benson, 1968; Khayrandish et al., in press) provinces.

General distribution: Palaearctic (Taeger et al., 2010); Azerbaijan, Iran, Russia and Turkmenistan (Taeger & Blank, 2011).

Host plants: Unknown. Adults were collected from flowers of *Ranunculus* in woodland and in forest clearings (Benson, 1968).

159- *Tenthredo (Tenthredo) marginella* Fabricius, 1793

Distribution in Iran: Mazandaran and Tehran provinces (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Czech Republic, France, Germany, Greece, Macedonia, Netherlands, Romania, Russia, Slovakia, Spain, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae are polyphagous feeding on *Melissa officinalis* Linnaeus, *Mentha piperita* Linnaeus, *Ocimum basilicum* Linnaeus, *Lycopus* Linnaeus and *Origanum vulgare* Linnaeus (Lamiaceae), *Tussilago* Linnaeus (Asteraceae) and *Plantago* (Taeger et al., 1998).

160- *Tenthredo (Eurogaster) mioceras* (Enslin, 1912)

Synonyms: *Tenthredella mesomelas* var. *mioceras* Enslin, 1912b: 49; *Tenthredo mioceras* Benson, 1943: 138; *Tenthredo mesomelas montana* Pasteels, 1946: 246.

Distribution in Iran: Northern of Iran (Lacourt, 1999); Lorestan province (Mallach, 1931).

General distribution: Palaearctic, Oriental (Taeger et al., 2010); Austria, Belgium, Bosnia and Herzegovina, Bulgaria, China, Czech Republic, Estonia, France, Germany, Great Britain, Ireland, Italy, Latvia, Lithuania, Luxembourg, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain,

Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Heracleum* Linnaeus (Apiaceae), *Ranunculus*, *Atropa belladonna* Linnaeus (Solanaceae), *Dryopteris*, *Senecio ovatus* (Gartner, Meyer & Scherbius) (Asteraceae)

Lycopus Linnaeus (Lamiaceae), *Polygonum* and *Rubus* (Taeger et al., 1998).

161- *Tenthredo (Tenthredo) notha* Klug, 1817

Synonym: *Tenthredo (Allantus) notha* Klug, 1817a: 140.

Distribution in Iran: Iran without locality details (Lacourt, 1999).

General distribution: West Palaearctic (Taeger et al., 2010); Andorra, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Estonia, Finland, France, Germany, Great Britain, Greece, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Vicia cracca* (Taeger et al., 1998), *Trifolium repens*, *T. pratense*, *Vicia cracca* (Lacourt, 1999).

Remark: Lacourt (1999) is not a primary source so this record is not confirmed.

162- *Tenthredo (Tenthredo) pamyrensis* Jakowlew, 1888

Distribution in Iran: Semnan province (Taeger & Blank, 2011).

General distribution: Palaearctic (Taeger et al., 2010); China, Iran, Kazakhstan and Kyrgyzstan (Taeger & Blank, 2011).

Host plants: Larvae feed on *Salix* sp. (Lacourt, 1999).

163- *Tenthredo (Elinora) persica* (André, 1882)

Synonyms: *Allantus persicus* André, 1882: 440-441; *Tenthredo coniensis* Enslin, 1914a: 55-56; *Allantus (Tenthredo) kareli* Muehe, 1962: 17-19; *Allantus (Tenthredo) kareli forma maculatus* Muehe, 1962: 19.

Distribution in Iran: Northern of Iran (Benson, 1968; Lacourt, 1998, 1999); Alborz (Khayrandish et al., in press); Qazvin (Benson, 1968; Khayrandish et al., in press) and Tehran (André, 1882; Khayrandish et al., in press) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Iran, Russia and Turkey (Taeger & Blank, 2011).

Host plants: Larvae feed on ?*Lepidium* (Lacourt, 1999).

164- *Tenthredo (Elinora) radoszkowskii* (André, 1881)

Synonyms: *Macrophya radoszkowskii* André, 1881b: 591; *Allantus atratus* André, 1883: 206; *Allantus confinis* Konow, 1886b: 21; *Allantus parviceps* Konow, 1898a: 329.

Distribution in Iran: Iran without locality details (Benson, 1968; Taeger, 1988a); Northern of Iran (Lacourt, 1999; Blank & Taeger, 2006).

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Azerbaijan, Georgia, Russia and Turkey (Taeger & Blank, 2011); Iran (Blank & Taeger, 2006).

Host plants: Unknown.

165- *Tenthredo (Tenthredo) scrophulariae* Linnaeus, 1758

Synonyms: *Allantus scrophulariae* var. *joannis* Pic, 1926: 11; *Allantus scrophulariae* var. *repartitus* Pic, 1926: 11; *Allantus scrophulariae* var. *morvandicus* Pic, 1926: 11; *Allantus scrophulariae* var. *branensis* Pic, 1926: 11.

Distribution in Iran: Iran without locality details (Taeger, 1988b) and Mazandaran province (Taeger & Blank, 2011).

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Andorra, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Luxembourg, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland,

Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Scrophularia nodosa* Linnaeus, *S. auriculata* Linnaeus, *Verbascum* spp. (Scrophulariaceae) (Lacourt, 1999), *Verbascum nigrum* Linnaeus, *Scrophularia auriculata*, *S. nodosa*, *S. umbrosa* Dumortier (Taeger et al., 1998).

166- *Tenthredo (Paratenthredo) talyshensis* Zhelochovtsev, 1988

Distribution in Iran: Iran without locality details (Benson, 1968; Taeger, 1991; Lacourt, 1999).

General distribution: West Palaearctic (Taeger et al., 2010); Iran, Turkey and Ukraine (Taeger & Blank, 2011).

Host plants: Unknown.

167- *Tenthredo (Tenthredo) variabilis* (Mocsáry, 1909)

Synonyms: *Allantus variabilis* Mocsáry, 1909: 26; *Tenthredo variana* Benson, 1930: 107; *Tenthredo carolinae* Zirngiebl, 1937c: 351-352.

Distribution in Iran: Iran without locality details (Taeger & Blank, 2011).

General distribution: Palaearctic (Taeger et al., 2010); Iran, Kyrgyzstan and Turkmenistan (Taeger & Blank, 2011).

Host plants: Unknown.

168- *Tenthredo (Maculedo) vespiformis* Schrank, 1781

Synonyms: *Tenthredo pallicornis* Fabricius, 1798: 215; *Tenthredo vespoides* Lepeletier, 1823: 73; *Tenthredo bella* Lepeletier, 1823: 73; *Tenthredo vespoides* Serville, 1823: 18; *Tenthredo bella* Serville, 1823: 18; *Allantus theresae* Pic, 1925: 15; *Tenthredo pallicornis* var. *separates* Pic, 1926: 12; *Tenthredo pallicornis* var. *immaculatus* Pic, 1926: 11; *Tenthredo pallicornis* var. *bimaculiventris* Pic, 1926: 11.

Distribution in Iran: Tehran province (Abai, 2009).

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belgium, Croatia, Czech Republic, France, Germany, Greece, Hungary, Italy, Macedonia, Romania, Slovakia, Slovenia, Spain,

Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Unknown.

169- *Tenthredo (Maculedo) vestita* André, 1881

Synonyms: *Tenthredo caspica* Mocsáry, 1883: 7; *Tenthredo laeta* Konow, 1886c: 41; *Allantus limbiferus* Mocsáry, 1891: 156; *Tenthredella celsia* Enslin, 1912a: 104; *Tenthredo vestita* var. *striata* Enslin, 1920: 18, 83; *Tenthredo vestita* var. *striata* Enslin, 1920: 18, 83; *Tenthredo vestita* var. *strigata* Enslin, 1920: 18.

Distribution in Iran: Gilan (Khayrandish et al., in press) and Golestan (Chevin, 1985; Lacourt, 1999) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Turkey (Taeger & Blank, 2011); Turkey, Transcaucasia and Iran (Lacourt, 1999).

Host plants: Unknown.

170- *Tenthredo (Zonuledo) zonula* Klug, 1817

Synonyms: *Tenthredo (Allantus) zonula* Klug, 1817a: 137; *Allantus similis* Mocsáry, 1880: 270–271; *Allantus calcaratus* André, 1881b: 595; *Allantus scutellaris* Konow, 1898b: 325, 327.

Distribution in Iran: Iran without locality details (Mocsáry, 1880; Enslin, 1910; Benson, 1955; Dadurian, 1962; Taeger, 1991, 1992); Northern of Iran (Lacourt, 1999); Alborz, Qazvin (Khayrandish et al., in press); Fars, Khorasan, Lorestan and Zanjan (Taeger & Blank, 2011) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Albania, Armenia, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iran, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Hypericum perforatum* Linnaeus (Hypericaceae) (Taeger et al., 1998).

171- *Tenthredopsis humerosa* Konow, 1898

Distribution in Iran: Iran without locality details (Konow, 1898); East Azerbaijan province (Taeger & Blank, 2011).

General distribution: West Palaearctic (Taeger et al., 2010); Iran (Taeger & Blank, 2011).

Host plants: Unknown.

172- *Tenthredopsis litterata* (Geoffroy, 1785)

Synonyms: *Tenthredo litterata* Geoffroy in Fourcroy, 1785: 370; *Tenthredo cordata* Geoffroy in Fourcroy, 1785: 368; *Tenthredo thoracica* Geoffroy in Fourcroy, 1785: 376; *Tenthredo varia* Gmelin, 1790: 2665; *Tenthredo flavipes* Christ, 1791: 445; *Tenthredo cruciata* Christ, 1791: 448; *Tenthredo dimidiata* Fabricius, 1804: 42; *Tenthredo rubiginosa* Drapiez, 1819: 202–204; *Tenthredo microcephala* Lepeletier, 1823: 80–81; *Tenthredo microcephala* Serville, 1823: 25; *Tenthredo caliginosa* Stephens, 1829: 337; *Tenthredo analis* Stephens, 1829: 337; *Tenthredo caliginosa* Stephens, 1835: 78; *Tenthredo femoralis* Stephens, 1835: 80; *Tenthredo analis* Stephens, 1835: 80; *Tenthredo orbitalis* Dietrich, 1868: 354–355; *Tenthredopsis nigriceps* Cameron, 1881: 569–570; *Tenthredopsis nigronotatus* Cameron, 1881: 566–567; *Thomsonia thomsoni* Konow, 1884: 328, 333; *Tenthredopsis thomsoni* var. *concolor* Konow, 1887b: 281; *Tenthredopsis thomsoni* var. *nigripes* Konow, 1890a: 70; *Tenthredopsis pallida* Konow, 1896a: 316; *Tenthredopsis sordida* var. *pallida* Konow, 1896b: 50; *Tenthredopsis litterata* var. *bicolor* Enslin, 1913: 102; *Tenthredopsis litterata* var. *melaena* Enslin, 1918: 723; *Tenthredopsis litterata* var. *variana* Enslin, 1918: 723; *Tenthredopsis litterata* ab. *albanica* Csiki, 1923: 103, 108; *Tenthredopsis litterata* var. *subcarpathica* Gregor, 1927: 31, 38; *Tenthredopsis carbonaria* var. *medionotata* Pic, 1948b: 5.

Distribution in Iran: Gilan and Mazandaran provinces (Khayrandish et al., in press).

General distribution: Palaearctic (Taeger et al., 2010); Albania, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, France, Germany, Great Britain, Greece, Hungary, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Agrostis* Linnaeus, *Dactylis glomerata* Linnaeus and *Calamagrostis epigejos* (Linnaeus) (Poaceae) (Taeger et al., 1998).

173- *Tenthredopsis nigella* Konow, 1891

Distribution in Iran: Alborz and Mazandaran provinces (Khayrandish et al., in press).

General distribution: West Palaearctic (Taeger et al., 2010); Armenia, Macedonia, Russia and Turkey (Taeger & Blank, 2011); Yugoslavia, Asiatic Turkey and Transcaucasia (Benson, 1968; Liston, 1995).

Host plants: Unknown.

174- *Tenthredopsis ornata* (Serville, 1823)

Synonyms: *Tenthredo ornata* Serville, 1823: 21; *Tenthredo neglecta* Serville, 1823: 22; *Tenthredo ornata* Lepeletier, 1823: 77; *Tenthredo neglecta* Lepeletier, 1823: 77-78; *Perineura excisa* Thomson, 1870: 301; *Thomsonia excisa* var. *binotata* Konow, 1884: 333; *Tenthredopsis excisa* var. *atriscutis* Enslin, 1918: 725.

Distribution in Iran: Iran without locality details (Lacourt, 1999); Alborz, Gilan, Mazandaran (Khayrandish et al., in press) and Golestan (Chevin, 1985) provinces.

General distribution: West Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Italy, Latvia, Luxembourg, Macedonia, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland and Ukraine (Taeger & Blank, 2011).

Host plants: Larvae feed on *Brachypodium silvaticum* (Hudson) (Poaceae) (Lacourt, 1999).

175- *Tenthredopsis sororia* Konow, 1898

Distribution in Iran: Iran without locality details (Konow, 1898).

General distribution: West Palaearctic (Taeger et al., 2010); Armenia and Iran (Taeger & Blank, 2011).

Host plants: Unknown.

176- *Tenthredopsis tessellata* (Klug, 1817)

Synonyms: *Tenthredo* (*Allantus*) *tessellata* Klug, 1817b: 200-201; *Tenthredo* (*Tenthredo*) *ischiadica* Eversmann, 1847: 48; *Tenthredo* (*Macrophya*) *ischiadica* Eversmann in Kawall, 1864: 298; *Perineura cylindrica* Rudow, 1871: 390-391; *Tenthredopsis tessellata* var. *alboplagiata* Konow, 1890a: 78; *Tenthredopsis albata* Konow, 1904b: 267-268; *Tenthredopsis tessellata* var. *nigratileuris* Enslin, 1913: 119; *Tenthredopsis tessellata* var. *nigratilobis* Enslin, 1913: 119; *Tenthredopsis tessellata* var. *nigratiscutis* Enslin, 1913: 119.

Distribution in Iran: Northern of Iran (Benson, 1968; Lacourt, 1999).

General distribution: Palaearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, France, Germany, Hungary, Italy, Liechtenstein, Luxembourg, Macedonia, Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Switzerland and Turkey (Taeger & Blank, 2011).

Host plants: Larvae feed on *Aira* sp. Linnaeus and *Deschampsia cespitosa* (Linnaeus) (Poaceae) (Taeger et al., 1998).

IX- Family Xiphydriidae

177- *Xiphydria prolongata* (Geoffroy, 1785)

Synonyms: *Tenthredo prolongata* Geoffroy in Fourcroy, 1785: 379; *Sirex dromedarius* Fabricius, 1787: 258; *Xyphidria fasciata* Lepeletier, 1823: 3.

Distribution in Iran: Gilan province (Ebrahimi, 1995; Modarres Awal, 1997).

General distribution: Palaearctic, Nearctic (Taeger et al., 2010); Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great

Britain, Hungary, Italy, Latvia, Luxembourg, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine, USA and Yugoslavia (Taeger & Blank, 2011).

Host plants: Larvae feed on *Ulmus*, *Populus*, *Salix caprea* Linnaeus (Taeger et al., 1998).

178- *Xiphydria scutellata* Konow, 1897

Distribution in Iran: Northern of Iran (Konow, 1897, 1898; Gussakovskij, 1935; Ushinskij, 1936; Maa, 1949).

General distribution: West Palaearctic (Taeger et al., 2010); Azerbaijan and Iran (Taeger & Blank, 2011).

Host plants: Unknown.

Discussion

This is the first faunistic overview on Symphyta in Iran. According to the literatures 178 species of Symphyta have been reported from Iran of which six species need to be re-confirmed (Abai 2009, Abai & Moghadam 1993, Beneš 1981, Beneš & Abai 1991, Benson 1968, Chevin 1985, Ebrahimi 1995, Farahbakhsh 1961, Gussakovskij 1935, Khayrandish et al. in press, 2015, Koch 1988, Lacourt 1999, Mallach 1931, Modarres Awal 1997, Shahmohammadi et al. 2008, Shinohara 1997, Taeger 2002, Taeger and Blank 2011, Wei 2008, Zirngiebl 1956). Among the recorded species, 12 species (*Arge persica*, *Sterictiphora caspica*, *Allantus zonarius*, *Allantus alborzanus*, *Allantus geminus*, *Ametastegia persica*, *Scolioneura hyrcana*, *Craesus medunai*, *Craesus persicus*, *Macrophya diaphenia*, *Tenthredo araxana*, *Tenthredopsis humerosa*) seems to be endemic as they currently only recorded from Iran. Most species are belonging to family Tenthredinidae (131 species) followed by Argidae (19 species), Cephidae (9 species), Megalodontesidae (7 species), Cimbicidae (4 species), Pamphilidae (3 species), Orussidae, Siricidae and Xiphydriidae (each with 2 species).

Iran is located between the Western and Eastern parts of Palaearctic region but Iranian fauna of Symphyta is very similar to countries of West Palaearctic as follows: Russia (117 species) (Zhelochovtsev & Zinovjev, 1993; Taeger & Blank, 2011), Germany and Italy (106 species) (Taeger et al., 1998; Taeger & Blank, 2011), Austria (105 species) (Taeger & Blank, 2011), France (100 species) (Berland, 1947; Lacourt, 1999; Taeger & Blank, 2011), Bulgaria (93 species) (Taeger & Blank, 2011), Turkey (91 species) (Benson, 1968; Çalmaşur & Özbek, 2004a, 2004b; Taeger & Blank, 2011), Spain (90 species) (Taeger & Blank, 2011), Great Britain (87 species) (Benson, 1951, 1952, 1958; Taeger & Blank, 2011) and Greece (77 species) (Taeger & Blank, 2011) but common species with China and Japan from East Palaearctic are much less than countries of West Palaearctic with 33 and 18 species, respectively. The similarity of Iran's fauna with countries of other regions are recorded as: USA (in Nearctic) (32 species), Chile (in Neotropic) (5 species), South Africa (in Afrotropic) (2 species), India (in Oriental) (2 species) and Australia (in Australasian) (5 species) (Taeger & Blank, 2011).

Tenthredinidae with 38 genera (63.33%) is the most genera-rich family followed by Cephidae with 6 (10%) genera. Also Tenthredinidae with 131 species (73.59%) is the most species-rich family followed by Argidae with 18 species (10.11%) (Table 1). Gilan province consist of 37 genera and 77 species of symphyta followed by Mazandaran with 31 and 71, and Alborz province with 23 genera and 42 species comparing to other provinces in Iran (Table 2). Since Iran is a large country with different climate zones, some other new species records and new taxa will probably be founded from different parts of the country, and thus this checklist will need to be periodically updated.

Table 1. Frequency and abundance of sawflies (Hymenoptera: Symphyta) in Iran.

Family	Genera		Species	
	Number	Percentage	Number	percentage
Argidae	4	6.66	18	10.11
Cephidae	6	10	9	5.05
Cimbicidae	3	5	4	2.25
Megalodontesidae	1	1.66	7	3.93
Orussidae	2	3.33	2	1.13
Pamphiliidae	3	5	3	1.68
Siricidae	2	3.33	2	1.13
Tenthredinidae	38	63.33	131	73.59
Xiphydriidae	1	1.66	2	1.13

Table 2. Frequency and abundance of sawflies (Hymenoptera: Symphyta) in different provinces of Iran.

Iranian Provinces	Number of taxa		
	Family	Genus	Species
Alborz	5	23	42
East Azerbaijan	4	5	5
Fars	4	5	5
Gilan	8	37	77
Golestan	3	9	11
Hamadan	1	1	1
Isfahan	1	2	3
Kermanshah	1	2	2
Kohgiluyeh & Boyer-Ahmad	1	1	1
Kordistan	1	2	2
Lorestan	6	10	16
Markazi	2	4	4
Mazandaran	5	31	71
Qazvin	4	15	29
Razavi Khorasan	2	3	4
Semnan	1	1	2
Sistan & Baluchestan	2	2	2
South Khorasan	1	1	1
Tehran	3	13	17
West Azerbaijan	2	2	2
Zanjan	1	1	1

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Conflict of Interests

The authors declare that there is no conflict of interest regarding the publication of this paper.

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لیست زنبورهای تخم‌ریز اره‌ای (Hymenoptera: Symphyta) در ایران

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چکیده: لیست کامل و به‌روز شده از زنبورهای تخم‌ریز اره‌ای (Hymenoptera: Symphyta) ارائه شده است. این لیست شامل ۱۷۸ گونه متعلق به ۶۰ جنس و ۹ خانواده می‌باشد. خانواده‌ی Tenthredinidae دارای بیشترین غنای گونه‌ای (با ۱۳۱ گونه)، و پس از آن Argidae (۱۸ گونه)، Cephidae (۹ گونه)، Megalodontesidae (۷ گونه)، Cimbicidae (۴ گونه)، Pamphiliidae (۳ گونه)، و خانواده‌های Orussidae، Siricidae و Xiphydriidae (۲ گونه) قرار گرفته‌اند. همچنین جنس *Tenthredo* با ۲۳ گونه دارای بیشترین غنای گونه‌ای و پس از آن *Macrophya* از خانواده‌ی Tenthredinidae با ۱۷ گونه و *Arge* از خانواده‌ی Argidae با ۱۲ گونه دارای بیشترین گونه در بین سایر جنس‌های این زیرراسته می‌باشند. پراکنش، هم‌نام‌ها و میزبان‌های گیاهی لاروهای گونه‌های گزارش شده از ایران ارائه شده است.

واژگان کلیدی: بال‌غشاییان، زنبورهای تخم‌ریز اره‌ای، چک‌لیست، پراکنش، ایران.