

An Annotated catalogue of the Iranian Pompilidae (Hymenoptera: Vespoidea)

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In the present study a catalogue of the Iranian spider-wasps (Hymenoptera: Pompilidae) is given. It is based on a detailed study of all available published data and also specimens deposited in different collections. A total of 103 species and subspecies from 31 genera and 3 subfamilies are presented, of which four species are first records to the Iranian fauna: *Auplopus albifrons* (Dalman), *Cryptocheilus fabricii* (Vander Linden), *Priocnemis exaltata* (Fabricius) and *Ctenagenia vespiformis* (Klug); five species and subspecies are presumed endemic: *Gonaporus ecbatanus* Wolf, *Telostegus heinrichi* (Haupt), *Xenaporus leleji* Wolf, *Evagetes ophirus richteri* Wolf and *Priocnemis perturbator persicus* Wolf.

Keywords: Hymenoptera, Apocrita, Vespoidea, Pompilidae, Catalogue, Distribution, Iran.

Un catalogue des Pompilides iraniens (Hymenoptera: Pompilidae) établi après prise en compte des travaux existants et l'examen de matériaux déposés dans diverses collections présente au total 103 espèces et sous-espèces réparties dans 31 genres et 3 sous-familles. Quatre espèces : *Auplopus albifrons* (Dalman), *Cryptocheilus fabricii* (Vander Linden), *Priocnemis exaltata* (Fabricius) et *Ctenagenia vespiformis* (Klug) sont citées d'Iran pour la première fois et cinq espèces et sous-espèces y sont présumées endémiques: *Gonaporus ecbatanus* Wolf, *Telostegus heinrichi* (Haupt), *Xenaporus leleji* Wolf, *Evagetes ophirus richteri* Wolf et *Priocnemis perturbator persicus* Wolf.

Mots-clés: Hymenoptera, Apocrita, Vespoidea, Pompilidae, Catalogue, Distribution, Iran.

1. INTRODUCTION

Pompilidae, also known as “spider wasps”, is a rather big family. Members of this family are cosmopolitan but predominantly tropical in distribution. They are predaceous and hunt spiders to feed their larvae (Gros & Durand, 2013). This family probably comprises 4000-4500 species worldwide in supposed 230 genera belonging to four subfamilies, Ceropalinae, Pepsinae, Ctenocerinae and Pompilinae. Black is the predominant colour, often marked with red, white or yellow. Spider wasps are easily recognized by their long, spiny legs which are complemented by their inherently agitated activity. Pompilids are solitary wasps in which each larva develops in a single paralyzed spider. They are rarely ectoparasites of an active spider or cleptoparasites in a cell provisioned by another pompilid.

Iran is located in the Palaearctic region and naturally divided into six biomes and 14 ecoregions (Olson *et al.*, 2001). At the same time, its borders are close to the boundaries of the Afrotropical and Oriental regions in the south and the south east of the country. Such position as well as its high environmental diversity promotes the diversity of the Iranian fauna (Paknia *et al.*, 2008). Accordingly, it would be expected that there is a rich wasp fauna in this country.

A little attention has been paid to the taxonomy of the family Pompilidae in Iran. Major studies are those by Wolf (1970a) who listed 10 pompilid species collected from different parts of Iran; Esmaili & Rastegar (1974) who identified 34 species; Modarres Awal (1997), mentioned 5 pompilid species in his list of agricultural pests and their natural enemies in Iran; Wolf (2003) recorded 9 species in his list of Central Asian and Iranian Pompilidae; Ebrahimi (2006); Ebrahimi *et*

al. (2008) who listed 43 spider wasps collected and deposited in the Iranian Research Institute of Plant Protection in Tehran; Amiresmaeili *et al.* (2010a, b) who studied the pompilid fauna of Mazandran (North Iran); Sakenin *et al.* (2010) recorded seven pompilid species in their list of aculeate Hymenoptera of Iran.

The present work comprises a faunistic catalogue of the Pompilidae collected and recorded from different localities of Iran. This catalogue included 103 species and subspecies belonging to 31 genera allocated in 3 subfamilies, Ceropalinae, Pepsinae and Pompilinae, of which 4 species: *Auplopus albifrons* (Dalman 1823), *Cryptocheilus fabricii* (Vander Linden 1827), *Priocnemis exaltata* (Fabricius 1775) and *Ctenagenia vespiformis* (Klug 1834) recorded for the first time from the Iranian fauna.

2. MATERIALS AND METHODS

In this catalog all published records of Iranian Pompilidae are summarized and some new data are added. Data are also taken from literature (see sources below) and website databases. The distribution data adapted from literature have to be seen critical, due to doubtful determinations or mapping, and are not checked. So, future works have also to focus on an improvement of the taxonomic system, to dissolve the status of some species and subspecies. The following data are included: the valid name of the taxon and its synonyms; published records with provincial distribution (**Figure 1**), or when this was not specified, only "Iran (no locality)" is cited. Classification of higher taxa follows Wahis (2011) and Yildirim & Wahis (2011a, b).

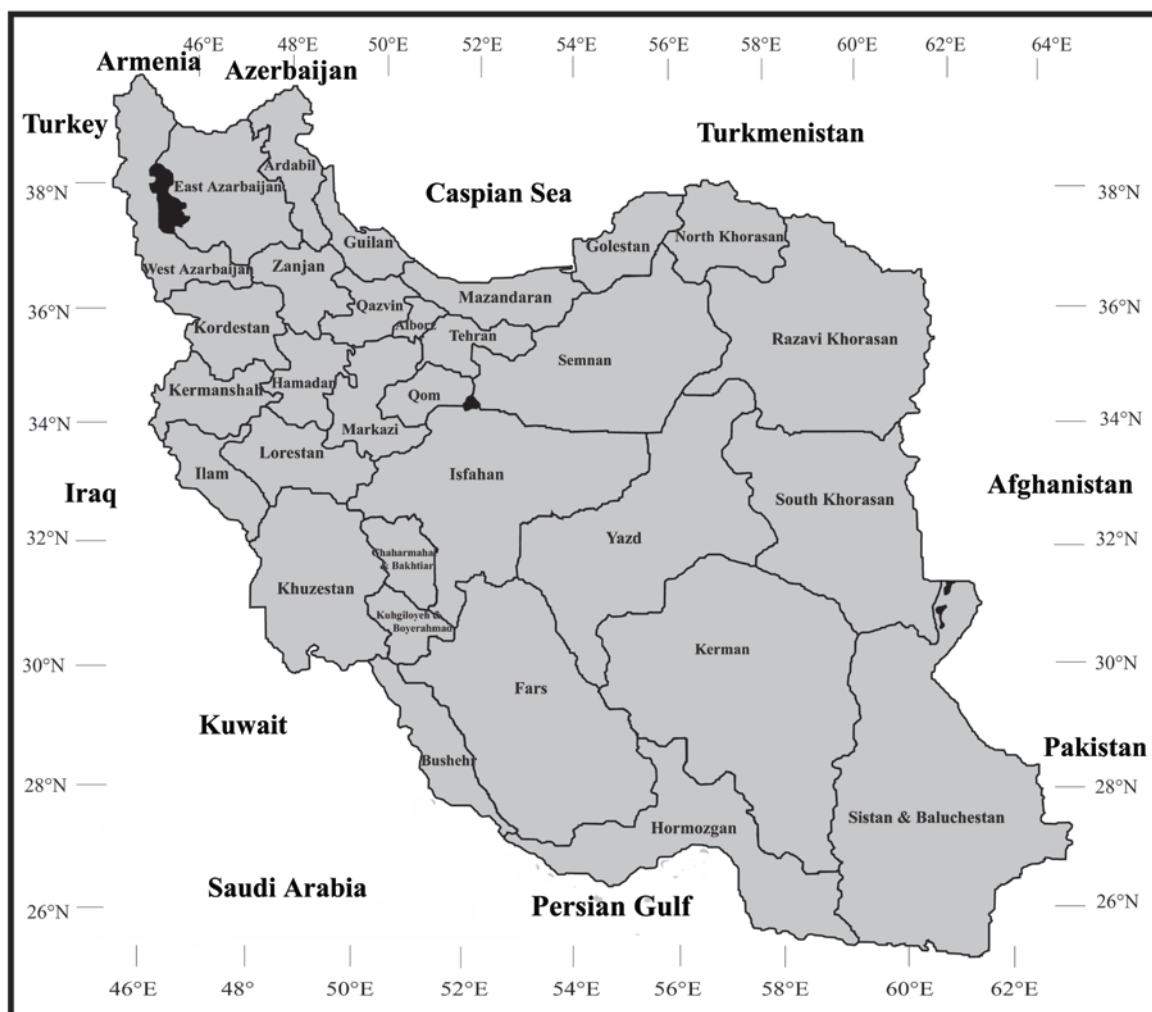


Figure 1: Map of Iran boundaries of Provinces.

Names of valid genera are listed alphabetically within subfamilies and valid species names are listed alphabetically within genera. In distribution data, Near East included Asian Turkey, Caucasian Russian republics, Georgia, Armenia, Azerbaidjan, Lebanon, Syria, Israel, Jordan, Sinai Peninsula (Egypt), Arabian Peninsula, Iran, Iraq (Wahis, 2011)

Sources: (arranged alphabetically)

Amiresamaeili *et al.* (2010a-b, 2011), Amiresmaili & Barari (2012), Day (1981, 1988), Ebrahimi (2006), Ebrahimi *et al.* (2008), Esmaili & Rasteger (1974), Gadallah & El-Barty (2011), Gros & Wahis (2002), Guiglia (1943), Gussakowski (1952), Harris (1987), Haupt (1930, 1962), Junco y Reyes (1966), Kirpik (2009), Lelej (1986), Loktionov & Lelej (2011), Móczár (1968), Modarres Awal (1997), Olsom *et al.* (2001), Özbek *et al.* (1999, 2000), Paknia *et al.* (2008), Perraudin & Wolf (1978), Priesner (1955, 1960, 1962, 1965a-b, 1966, 1967, 1968), Radoszkowski (1887), Sakenin *et al.* (2010), Smissen (2003), Standfuss & Standfuss (2003), Wahis (1963, 1979, 1983, 1996, 1997a-b, 1998, 2000a-b, 2001, 2002a-b, 2005, 2006a-b, 2007, 2011, 2012, 2014), Wahis & Schmid-Egger (2002), Wahis & Terzo (1996), Wolf (1963, 1966a-b, 1967a-b, 1968, 1969, 1970a-b-c, 1971, 1972a-b, 1975, 1977, 1978, 1981, 1982, 1986, 1987, 1988a-b, 1990a-b, 1993, 1994, 1995, 1997, 1998a-b-c, 1999, 2001, 2003, 2004a-b-c, 2005), Wolf & Assução Diniz (1970), Wolf & Móczár (1972), Yasumatsu (1946), Yasumatsu & Ishikawa (1955), Yildirim & Wahis (2011a-b), Zonstein (1989, 1996, 2000, 2002a-b, 2007).

3. RESULTS

In the present study, a total of 103 species of the family Pompilidae are recorded for the fauna of Iran. Most of them are widely spread in the Palaearctic ecozone. The following species and subspecies are presumed endemic: *Gonaporus ecbatanus* Wolf 1990, *Telostegus heinrichi* (Haupt 1930), *Xenaporus leleji* Wolf 1990, *Evagetes ophirus richteri* Wolf 1970 and *Priocnemis perturbator persicus* Wolf 1963.

Family Pompilidae Fabricius 1798

Subfamily Pompilinae Ashmead 1900

Tribe Aporini Leach 1815

Genus *Aporus* Spinola 1808

***Aporus bicolor* Spinola 1808**

Aporus bicolor Spinola 1808. - Ins. Ligur. 2: 34.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Bosnia and Herzegovina, Bulgaria, Corsica, Croatia, Cyprus, Czech Republic, French mainland, Greece, Italy, Malta, Portugal, Russia, Sardinia, Sicily, Spain, former Yugoslavia (Wahis, 2011; Wahis & Durand, 2012), Mongolia (Wolf, 1981), Turkey (Yildirim & Wahis, 2011); Balearic and Canary Island (Wahis & Gros, 2012).

***Aporus pollux* (Kohl 1888)**

Pompilus pollux Kohl 1888. - Mitt. zool. -bot. Ges. Wien 38: 150.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Albania, Bosnia & Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Poland, Central Russia (Wahis, 2012), Kyrgyzstan (Wolf, 2005), Turkey (Yildirim & Wahis, 2010, 2011), Italy, Greece, Slovenia (Wahis & Durand, 2012).

Tribe Homonotini Ashmead 1902

Genus *Homonotus* Dahlbom 1844

***Homonotus sanguinolentus* (Fabricius 1793)**

Sphex sanguinolentus Fabricius 1793. - Ent. Syst. 2: 211, ♂, ♀.

Distribution in Iran: Khorasan (Ebrahimi *et al.*, 2008).

Distribution outside Iran: Austria, Belgium, Corsica, Croatia (Wahis, 1963), Cyprus, Czech Republic, Germany, Greece, Italy (Wahis & Terzo, 1996), Kirgystan (Zonstein, 2002b), Romania, Sicily, Slovakia, Spain, Switzerland (Wahis, 2011), Syria (Wolf, 1998c), Turkey (Özbek *et al.*, 2000).

Tribe Pompilini Haupt 1949

Genus *Agenioideus* Ashmead 1902

Alloridestus Wolf 1979; *Schizanoplius* Cameron 1904, 1912; *Rufopompilus* Wolf 1970.

***Agenioideus dichrous* (Brullé 1840)**

Pompilus dichrous Brullé 1840. - Hist. Nat. Iles Canaries 1840: 92, ♀.

Distribution in Iran: Khorasan (Wolf, 2003), Iran (no locality cited) (Wolf, 1990b).

Distribution outside Iran: Afghanistan, Spain (Wolf, 1990b), Canary Islands, Sicily (Wahis & Terzo, 1996), Israel (Haupt, 1962), Malta (Wahis,

1997b), Near East, North Africa, Portugal (Wahis, 2011), Turkey (Özbek *et al.*, 2000).

***Agenioideus excisus* (Morawitz 1890)**

Pompilus excisus Morawitz 1890. - Trudy Russk. ent. Obsch. 24: 622.

Distribution in Iran: Alborz, Khorasan, Mazandaran, Tehran (Ebrahimi *et al.*, 2008), Golestan (Wolf, 2003; Ebrahimi *et al.*, 2008), Guilan (Wolf, 2003).

Distribution outside Iran: Algeria, Egypt, Morocco, Portugal, Tunisia, Turkey (Gros & Wahis, 2002), Bulgaria, Cyprus, Israel (Haupt, 1962), Greece, Near East, Russia (Wahis, 2011), Iraq, Jordan (Wolf, 1997).

***Agenioideus fertoni* (Saunders 1901)**

Pompilus fertoni Saunders 1901. - Trans. Ent. Soc. Lond. 4: 540, ♂.

Distribution in Iran: Khuzestan (Wolf, 1990b).

Distribution outside Iran: Algeria, Egypt, Israel, Sicily, Tunisia (Wahis & Terzo, 1996), Bahrein, Turkmenistan, Pakistan, India (Wolf, 1990a).

***Agenioideus kohli* (Radoszkowski 1888)**

Pompilus kohli Radoszkowski 1888. - Trudy Russk. ent. Obsch. 22: 344, ♂, ♀.

Distribution in Iran: Bushehr (Wolf, 1988a), Khorasan (Wolf, 1990b).

Distribution outside Iran: Kazakhstan, Turkmenistan (Wolf, 1988a, 1990b).

***Agenioideus melas* (Klug 1834)**

Pompilus melas Klug 1834. - Symb. phys., pl. 39, fig. 3, ♀.

Distribution in Iran: Kerman (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Egypt, Iraq, Libya, Palestine, Saudi Arabia, Yemen (Priesner, 1955; Wolf, 1988a, 1990a).

***Agenioideus nubecula* (Costa 1881)**

Pompilus nubecula Costa 1881. - Fauna Napoli Pompil. 1881: 38, ♀.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Austria (Priesner, 1966a), Azores, Belgium, Bosnia & Herzegovina, Bulgaria, Corsica, Croatia, Cyprus, Czech Republic, European Turkey, France, Germany, Greece, Hungary, Italy, Portugal, Romania, Sicily, Slovakia, Slovenia, Romania, Central Russia, Spain (Wahis, 2012), Nepal (Wolf, 1981), Jordan (Wolf, 1997), Malta (Wahis, 1997b, 2012),

Kazakhstan (Wolf, 1998b, 2005), Kyrgyzstan, Tadjikistan (Wolf, 2005), Tunisia (Wolf, 2004b), Turkey (Anlas *et al.*, 2005; Yildirim & Wahis, 2010, 2011; Japoshvili *et al.*, 2011).

***Agenioideus ruficeps* (Eversmann 1849)**

Pompilus ruficeps Eversmann 1849. - Bull. Soc. Imp. Nat. Moscou 22, ♀, ♂.

Distribution in Iran: Iran (no locality cited) (Wahis, 2007).

Distribution outside Iran: Algeria, Azerbaijan, Canary Islands, Israel, Libya, Morocco, Sardinia, Syria, Tunisia, Turkey (Gros & Wahis, 2002), Corsica, Crete, Cyprus, France, Greece, Portugal, Central Russia, Spain, East Palaearctic, Near East, North Africa (Wahis, 2011).

***Agenioideus rytiphorus* (Kohl 1886)**

Pompilus rytiphorus Kohl 1886. - Verh. zool.-bot. Ges. Wien 36: 316, ♀.

Distribution in Iran: Golestan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Kordestan (Ebrahimi *et al.*, 2008).

Distribution outside Iran: Bulgaria, Cyprus, East Palaearctic, Greece (Priesner, 1966), Near East, North Africa (Wahis, 2011), Turkey (Özbek *et al.*, 2000).

***Agenioideus sericeus* (Vander Linden 1827)**

Pompilus sericeus Vander Linden 1827. - Nouv. Mém. Acad. R. Sci. Bruxelles 4: 313, ♀.

Distribution in Iran: Mazandaran (Wolf, 1990b)

Distribution outside Iran: Austria (Priesner, 1966), Belgium, France (Gros & Wahis, 2002), Bulgaria (Wahis, 2000a), China, Greece (Priesner, 1966; Stadfuuss & Standfuss, 2003), Jordan (Wolf, 1997), Kyrgyzstan (Zonstein, 2000b), Malta (Wahis, 1997b), Portugal (Wolf & Diniz, 1970), Sicily (Wahis & Terzo, 1996), Turkey (Özbek *et al.*, 2000), Uzbekistan (Wolf, 1998b).

***Agenioideus zarudnyi* (Gussakovskij 1932)**

Psammochares (Ridestus) zarudnyi Gussakovskij 1932. - Trudy Zool. Inst. Leningr. 1: 298, ♀.

Distribution in Iran: Kerman, Sistan & Baluchestan (Wolf, 1988a as *Psammochares zarudnyi* Gussakovski 1932).

Distribution outside Iran: Algeria (Wolf, 1988a, 1990a).

Genus *Amblyellus* Day 1981

***Amblyellus hasdrubal* (Kohl 1894)**

Pompilus hasdrubal Kohl 1894. - Annl. Naturh. Mus. Wien, 9: 314, ♀.

Distribution in Iran: Alborz (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Tehran (Ebrahimi, 2006).

Distribution outside Iran: Bosnia and Herzegovina, Croatia (Wahis, 1983), Czech Republic, France, Germany, Greece, Sicily (Wahis & Terzo, 1996), Kyrgyzstan (Zonstein, 2002b), Portugal, Spain (Wahis, 2011), Turkey (Özbek *et al.*, 2000).

Genus *Anoplius* Dufouour 1834

***Anoplius concinnus* (Dahlbom 1845)**

Pompilus concinnus Dahlbom 1845. - Hym. europ.1: 444, ♀.

Distribution in Iran: Golestan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Sistan & Baluchestan (Wolf, 1970a).

Distribution outside Iran: Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain, Bulgaria, Corsica, Cyprus, Denmark, Finland, France, France-Corsica (Wolf, 1978), Germany, Greece, Italy, (Wahis & Terzo, 1996), Israel (Wolf, 1998a), Kyrgyzstan, Turkmenistan, Uzbekistan (Wolf, 1998b), Kyrgyzstan (Wahis, 1996a), Luxembourg, Malta, Northern Ireland, Norway, Poland, Portugal, Romania, Central Russia, Sardinia, Sicily, Spain, Sweden, Switzerland, The Netherlands (Wahis, 2011), Turkey (Özbek *et al.*, 2000), Yemen (Wahis, 2000).

***Anoplius infuscatus* (Vander Linden 1827)**

Pompilus infuscatus Vander Linden 1827. - Nouv. Mém. Acad. R. Sci. Bruxelles 4: 339, ♂.

Distribution in Iran: Alborz (Ebrahimi, 2006), Guilan (Ebrahimi *et al.*, 2008), Tehran (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain, Bulgaria, Canary Islands, China (Yasumatu, 1946), Algeria (Priesner, 1962), Corsica, Cyprus, Czech Republic, Denmark, Egypt (Priesner, 1960), Germany, Greece, Italy, Luxembourg, Malta, Poland, Portugal, Romania, Russia Central, Sardinia, Sicily, Slovakia, Spain, Sweden, Switzerland, The Netherlands (Wahis, 2011), Jordan (Wolf, 1998c), Kyrgyzstan, Turkmenistan, Uzbekistan (Wolf, 1998b).

***Anoplius nigerrimus* (Scopoli 1763)**

Sphex nigerrimus Scopoli 1763. - Ent. Carn. 1763: 295, ♀.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain, Bulgaria, Channel, Corsica, Czech Republic, Denmark, Finland, France, Germany, Greece, Italy, Luxembourg, Norway, Poland, Portugal, Romania, Russia Central, Sardinia, Sicily, Slovakia, Spain, Sweden, The Netherlands (Wahis, 2011), China, Hungary (Wolf, 1971), Tajikistan (Wolf, 2004c), Turkey (Yildirim & Wahis, 2011), Uzbekistan (Wolf, 1998b).

***Anoplius pseudinfuscatus* Wolf 1998**

Anoplius pseudinfuscatus Wolf 1998. - Linzer biol. Beitr. 29: 235, ♀, ♂.

Distribution in Iran: Sistan & Baluchestan (Wolf, 2003).

Distribution outside Iran: Kazakhstan, Tajikistan (Wolf, 2003), Turkmenistan (Wolf, 2005), Turkey (Wolf, 1998b), Uzbekistan (Wolf, 1998b).

***Anoplius samariensis* (Pallas 1771)**

Sphex samariensis Pallas 1771. - Reis. Prov. Russ. Reich. 1: 473, ♀.

Distribution in Iran: Alborz, Golestan, Tehran (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), East Azarbaijan (Ebrahimi *et al.*, 2008), Mazandaran (Ebrahimi, 2006; Ebrahimi *et al.*, 2008; Amiresmaili *et al.*, 2010a, b).

Distribution outside Iran: Austria, Hungary (Priesner, 1968), Bosnia and Herzegovina, Corsica, France, Greece, Italy, Portugal, Romania, Central Russia, Sardinia, Sicily, Spain, Switzerland (Wahis, 2011), Japan (Wahis, 2001 as *Pompilus uncinatus* Pérez 1905), Kazakhstan (Wolf, 1998b), Kyrgyzstan (Zonstein, 2002b), Turkey (Yildirim & Wahis, 2011).

***Anoplius schlettereri* (Radoszkowski 1888)**

Pompilus schlettereri Radoszkowski 1888. - Trudy russk. ent. Obshch. 22: 316.

Distribution in Iran: Khorasan (Wolf, 2003).

Distribution outside Iran: Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan (Wolf, 1998b, 2005), Turkey (Priesner, 1967).

***Anoplius schlettereri hierosolymae* (Haupt 1962)**

Anoplius hierosolymae Haupt 1962. - Bull. Res. Coun. Israel 11B: 49, ♀.

Distribution in Iran: Alborz (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Korasan (Ebrahimi *et al.*, 2008 as *A. schlettereri niger* Priesner).

Distribution outside Iran: Jordan (Wolf, 1998c).

***Anoplius viaticus* (Linnaeus 1758)**

Sphex viaticus Linnaeus 1758. - Syst. Nat. 10: 570, ♀.

Distribution in Iran: Alborz, East Azarbaijan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012), Tehran (Ebrahimi, 2006).

Distribution outside Iran: Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain, Bulgaria, Corsica, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Italy, Luxembourg, Malta, Norway, Poland, Portugal, Romania, Russia Central, Sardinia, Sicily, Slovakia, Spain, Sweden, Switzerland, The Netherlands (Wahis, 2011), Crete (Priesner, 1965b), Egypt (Priesner, 1960), Kyrgyzstan, Kazakhstan, Uzbekistan (Wolf, 1998b), Turkmenistan (Wolf, 2005), Jordan (Wolf, 1998c), Turkey (Wahis, 1998).

Genus *Aporinellus* Banks 1911***Aporinellus sexmaculatus* (Spinola 1805)**

Pompilus sexmaculatus Spinola 1805. - Fauna Ligur. 1805: 16.

Distribution in Iran: Northern Iran (no locality cited) (Wolf, 1971).

Distribution outside Iran: Albania, Arabian Peninsula, Armenia, Austria, Azerbaijan, Belgium, Bosnia & Herzegovina, Britain, Corsica, Crete, Czech Republic, Egypt, Finland, Georgia, Germany, Greece, Iraq, Israel, Italy, Jordan, Kazakhstan, Kyrgyzstan, Lebanon, The Netherlands, Poland, Portugal, Romania, Russia Central, Sardinia, Sicily, Slovakia, Spain, Syria, Turkmenistan, Uzbekistan (Wolf, 1998b), North Africa (Wahis, 2011), Turkey (Wolf, 1998b; Wahis, 1998).

Genus *Arachnospila* Kincaid 1900***Arachnospila abnormis* (Dahlbom 1842)**

Pompilus abnormis Dahlbom 1842. - Hym. eur. 1: 79, ♀.

Distribution in Iran: West Azarbaijan (Sakenin *et al.*, 2010).

Distribution outside Iran: Austria, Belarus, Belgium, Czech Republic, Denmark, Germany, Kazakhstan, Kyrgyzstan, Luxembourg, Poland, Switzerland, The Netherlands, Ukraine (Loktionov & Lelej, 2011), Bulgaria, China, Finland, France, Hungary, Italy, Middle Europe, Mongolia, Norway, Russia, Sweden (Wolf, 1971), Turkey (Kirpik, 2009).

***Arachnospila anceps* (Wasmael 1851)**

Pompilus anceps Wasmael 1851. - Bull. Acad. r. Belg. 18: 463, ♀.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2011; Amiresmaili & Barari, 2012), Iran (no locality cited) (Móczár, 1968 in Loktionov & Lelej, 2011).

Distribution outside Iran: Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain, Bulgaria, Cyprus, Czech Republic, Denmark, France, Germany, Greece, Italy, Luxembourg, Mongolia, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Syria, The Netherlands, Turkey (Loktionov & Lelej, 2011), Corsica, Hungary, Morocco (Wolf, 1971), Finland (Wolf, 1967a), Kazakhstan, Kyrgyzstan (Wolf, 1998b), Sicilia (Wahis & Terzo, 1996).

***Arachnospila consobrina* (Dahlbom 1843)**

Pompilus consobrina Dahlbom 1843. - Hym. eur. 1: 79, ♀.

Distribution in Iran: Tehran (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Austria, Belgium, Britain, Bulgaria, Canary Islands, Crete, Denmark, Finland, France, Germany, Greece, Italy, Norway, Central Russia, Switzerland, The Netherlands (Wahis, 2011), China (Wolf, 1977), Israel (1998a), Kyrgyzstan, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan (Wolf, 1998b), Mongolia, Sicilia (Wahis & Terzo, 1996), Syria (Wolf 1998c), Turkey (Wolf, 1966a as *Pompilus (Ammosphex) consobrinus consobrinus*).

***Arachnospila fuscomarginatus* (Thomson 1870)**

Pompilus fuscomarginatus Thomson 1870 - Opusc. ent. 2: 219, ♀♀.

Distribution in Iran: Golestan (Ebrahimi, 2006).

Distribution outside Iran: Albania, China, Czech Republic, Finland, France, Greece, Hungary, Italy, Romania, Russia, Slovakia, Sweden (Wolf, 1971), Austria (Priesner, 1968), Belgium, Mongolia, The Netherlands (Wolf & Móczár, 1972), Bulgaria (Wahis, 2002b), Kazakhstan, Kyrgyzstan, Uzbekistan (Wolf, 1998b, 2003, 2005), Poland (Wolf, 1967a), Sicilia (Wahis & Terzo, 1996), Switzerland (Wolf, 1972), Tajikistan (Wolf, 2004c), Turkey (Yildirim & Wahis, 2011).

***Arachnospila fumipennis* (Zetterstedt 1838)**

Pompilus (Arachnospila) fumipennis Zetterstedt 1838. - Ins. Lappon. 1: 438, ♀.

Distribution in Iran: East Azerbaijan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Albania, Austria, Belgium, Bosnia and Herzegovina, Czech Republic, Finland, France, Germany, Greece, Italy, Norway, Russia Central, Sicily, Slovakia, Near East, Nearctic region (Wahis, 2011), Israel (Wolf, 1998a).

Genus *Batozonellus* Arnold 1937

***Batozonellus fuliginosus* (Klug 1834)**

Pompilus fuliginosus Klug 1834. - Symb. phys. Pl. 28 n.6, fig. 6, ♀.

Distribution in Iran: Sistan & Baluchestan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Egypt, Central to South Africa, Saudi Arabia, Yemen (Wahis, 2000), (Gadallah & El-Barty, 2011).

***Batozonellus lacerticida* (Pallas 1771)**

Sphex lacerticida Pallas 1771. - Reise Prov. russ. Reich. 1: 472, ♀.

Distribution in Iran: Guilan (Ebrahimi *et al.*, 2008), Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012), Iran (no locality cited) (Esmaili & Rastegar, 1974; Modarres Awal, 1997).

Distribution outside Iran: Albania, Austria, Belarus, Bosnia and Herzegovina, Bulgaria, Corsica, Cyprus, Czech Republic, France, Germany, Italy, Malta, Norway, Poland, Portugal, Romania, Russia Central, Sardinia, Sicily, Slovakia, Spain, Sweden (Wahis, 2011), China, Georgia, Japan, Korea, Morocco, Russia, Tunisia, Ukraine (Wolf, 1971), Greece (Standfuss & Standfuss, 2003), Kyrgyzstan, Uzbekistan (Wolf, 1998b), Mongolia (Wolf, 2005), Switzerland (Wolf, 1972), Syria (Wolf, 1998c), Turkey (Yildirim & Wahis, 2011), Turkmenistan (Yasumatsu, 1946).

***Batozonellus maculifrons* (Smith 1873)**

Pompilus maculifrons Smith 1873. - Trans. Ent. Soc. London 1873: 186, ♂.

Distribution in Iran: Hormozgan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: China, Japan (Ebrahimi *et al.*, 2008).

Genus *Ctenagenia* Saussure 1892

***Ctenagenia ozbeki* Wahis 2002**

Ctenagenia ozbeki Wahis 2002. - Notes faunique de Gembloux 49: 116, 117.

Distribution in Iran: Fars (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Afghanistan, Pakistan, Turkey (Wahis, 2002).

***Ctenagenia vespiformis* (Klug 1834)**

Pompilus vespiformis Klug 1834. - Symb. phys. 1834: 38.

Material examined: Golestan province, Golestan National Park, Dasht-e-Mirzabaylu (1575 m), 1♀, August 2007. **New record for Iran.**

Distribution outside Iran: Algeria, Cyprus (Wahis, 2002a-b), Egypt (Priesner, 1955; Wahis, 2000, 2002a-b), Eritrea, Lebanon, Niger, Saudi Arabia, Yemen (Kohl, 1905; Wahis, 2000, 2002a-b), Ethiopia, Somalia (Wahis, 2002a), Greece (Wahis, 2000, 2002a-b; Standfuss & Standfuss, 2003), Israel (Haupt, 1962; Wahis, 2000, 2002a), Jordan (Wolf, 1998c; Wahis, 2002a-b), Madagascar (Priesner, 1955), Palestine (Priesner, 1955; Wahis, 2002a-b), Sudan (Wahis, 2000, 2002b), Syria (Priesner, 1955; Wahis, 2000, 2002a-b; Wolf, 2004b, 2005), Turkey (Özbek *et al.*, 2000; Wahis, 2002b; Yildirim & Wahis, 2011).

Genus *Dicyrtomellus* Gussakovskij 1935

***Dicyrtomellus dubitabilis* (Saunders 1901)**

Pompilus dubitabilis Saunders 1901. - Trans. Ent. Soc. London 4: 551, ♀.

Distribution in Iran: Khorasan (Wolf, 2003).

Distribution outside Iran: Israel (Wolf, 1998a), Kazakhstan, Syria (Wolf, 1998c, 2004b), Turkey (Yildirim & Wahis, 2011), Turkmenistan (Wolf, 2005).

***Dicyrtomellus kizilkumi* (Radoszkowski 1877)**

Pompilus kizilkumi Radoszkowski 1877. - Izv. imp. Obshch. Lyub. Estes. Antrop. Etnogr. 26: 19, ♀, ♂.

Distribution in Iran: Sistan & Baluchestan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Afghanistan (Wolf, 1968), Kazakhstan (Wolf, 2005), Turkey (Yildirim & Wahis, 2011), Turkmenistan (Wolf, 1998b).

***Dicyrtomellus tingitanus* (Wolf 1966)**

Arachnospila fumipennis tingitanus Wolf 1966. - Mitt. Schweiz. Ent. Ges. 39: 28.

Distribution in Iran: Golestan, Kermanshah (Ebrahimi *et al.*, 2008), West Azarbaijan (Sakenin *et al.*, 2010).

Distribution outside Iran: Britain, Bulgaria, Greece, Italy, Uzbekistan, former Yugoslavia (Day, 1988; Priesner, 1968; Wolf, 1971, 1995,

1999), Corsica (Wahis, 2007), Israel (Wolf, 1998a), Sicilia (Wahis & Terzo, 1996), Jordan, Syria (Wolf, 1998c), Kazakhstan (Wolf, 2005), Iran (Ebrahimi *et al.*, 2008), Kyrgyzstan (Zonstein, 2002b), Morocco (Wolf, 1966b as *Arachnospila (Arachnospila) fumipennis tingitana*), Turkey (Özbek *et al.*, 2000), Turkmenistan (Wolf, 2005).

Genus *Eoferreola* Arnold 1935

***Eoferreola anatolica* Priesner 1973**

Eoferreola anatolica Priesner 1973. - Nachr. Bl. Bayer. Ent. 22: 110.

Distribution in Iran: Ardabil, Golestan (Ebrahimi *et al.*, 2008), West Azarbaijan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Croatia, France, Greece, Israel, Kazakhstan, Kyrgyzstan, Macedonia, Russia, Spain, Turkey, Turkmenistan (Wahis & Schmid-Egger, 2002).

***Eoferreola distincta* (Smith 1855)**

Ferreola distincta Smith 1855. - Catalogue of Hym. Insects in the coll. Brit. Mus. 3.

Distribution in Iran: Fars, Khuzestan (Wahis & Schmid-Egger, 2002).

Distribution outside Iran: Greece, Egypt, Italy, Kazakhstan, Kyrgyzstan, Syria, Uzbekistan, Turkey to Iran and Central Asia, Algeria and eastern Mediterranean area (Wahis & Schmid-Egger, 2002).

***Eoferreola erythraea* (Pallas 1773)**

Sphex erythraea Pallas 1773. - Reis. Prov. russ. Reich.: 729.

Distribution in Iran: East Azarbaijan (Sakenin *et al.*, 2010).

Distribution outside Iran: Kazakhstan, Daghestan, Kyrgyzstan, Russia, ?Jordan, ?Romania, ?Syria, Turkey, Turkmenia (Wahis & Schmid-Egger, 2002)

***Eoferreola manticata* (Pallas 1771)**

Sphex manticata Pallas 1771. - Reis. Prov. russ. Reich. 1: 473, ♀.

Distribution in Iran: Fars (Wahis & Schmid-Egger, 2002 as *E. manticata* f. *batrachiorum*), Mazandaran (Sakenin *et al.*, 2010), Iran (no locality cited) (Haupt, 1962; Wahis & Schmid-Egger, 2002 as *E. manticata* f. *batrachiorum* (Dalla Torre)).

Distribution outside Iran: Algeria, Azerbaijan, Bulgaria, Croatia, Czech Republic, France, Greece, Hungary, Italy, Kazakhstan, Morocco,

Palestine, Portugal, Serbia, Slovakia, Slovenia, Spain, Tunisia, Turkey, Turkmenia, Ukraine, former USSR (Wahis & Schmid-Egger, 2002), Austria, Morocco, Slovakia (Wolf, 1971), Corsica (Wahis, 2007), Israel (Haupt, 1962), Jordan, Syria (Wolf, 1998c), Kyrgyzstan (Zonstein, 2002b), Mongolia (Wolf, 2005), Sicilia (Wahis & Terzo, 1996), Tajikistan (Wolf, 2004c), Uzbekistan (Wolf, 1998b).

Genus *Episyron* Schioedte 1837

***Episyron albonotatum* (Vander Linden 1827)**

Pompilus albonotatum Vander Linden 1827. - Nouv. Mém. Acad. R. Sci. Bruxelles 4: 328, ♀, ♂.

Distribution in Iran: Golestan (Wolf, 2003).

Distribution outside Iran: Albania, Austria, Belgium, Bosnia and Herzegovina, Corsica, Cyprus, Denmark, Finland, Germany, Greece, Italy, Luxembourg, Sicily, Spain, Switzerland, The Netherlands (Wahis, 2011), Syria (Wolf, 1998c), Kyrgyzstan, Kazakhstan, Mongolia (Wolf, 2003, 2005), Hungary, Russia (Priesner, 1966b), Sardinia (Priesner, 1962), Morocco (Junco y Reyes, 1963), Sweden (Wolf, 1969), Tajikistan (Wolf, 2004c), Turkey (Yildirim & Wahis, 2011), Turkmenistan, Uzbekistan (Wolf, 1998b).

***Episyron arrogans* (Smith 1873)**

Pompilus arrogans Smith 1873. - Trans. Ent. Soc. London: 187, ♀.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Austria, Belarus, Bosnia and Herzegovina, Corsica, Czech Republic, France, Germany, Greece, Italy, Romania, Slovakia, Slovenia, Switzerland (Wahis, 2011), China, India, Japan, Sri Lanka (Yasumatsu, 1946), Hungary, Portugal (Wolf, 1971), Sardinia, Spain (Wahis, 2005), Sicily (Wahis & Terzo, 1996), Turkey (Yildirim & Wahis, 2011).

***Episyron gallicum* (Tournier 1889)**

Pompilus gallicus Tournier 1889. - Ent. génév. 1: 178, ♀.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Austria, Bosnia and Herzegovina, Cyprus, France, Germany, Greece, Italy, Portugal, Sicily, Spain (Wahis, 2011), Hungary (Wolf, 1971), Jordan, Syria (Wolf, 1998c), Kyrgyzstan, Kazakhstan, Uzbekistan

(Wolf, 1998b), Sweden (Wolf, 1972b), Turkey (Wahis, 1998).

***Episyron rufipes* (Linnaeus 1758)**

Pompilus rufipes Linnaeus 1758. - Syst. Nat. 1: 571.

Distribution in Iran: Golestan, Mazandaran (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: All Europe, North Africa, Yemen, Sudan, Ethiopia (Wahis, 2002), Kazakhstan, Uzbekistan (Wolf, 2005), Jordan, Syria (Wolf, 1998c), Saudi Arabia (Gadallah & El-Barty, 2011), Kyrgyzstan (Zonstein, 2002b), Morocco (Junco y Reyes, 1963), Turkey (Yildirim & Wahis, 2011), Turkmenistan (Wolf, 1998b).

Genus *Evagetes* Lepeletier 1845

***Evagetes fabrei* Smissen 2003**

Evagetes fabrei Smissen 2003. - Verh. Ver. Naturw. Hamburg 42: 1-253.

Distribution in Iran: Alborz (Ebrahimi *et al.*, 2008).

Distribution outside Iran: Turkey (Smissen, 2003).

***Evagetes gusenleitneri* Wolf 1988**

Evagetes gusenleitneri Wolf 1988. - Linzer biol. Beitr. 20/1: 227, ♀, ♂.

Distribution in Iran: Kerman, Mazandaran (Wolf, 1988a).

Distribution outside Iran: Asiatic Turkey (Wolf, 1988a; Smissen, 2003).

***Evagetes ophirus richteri* Wolf 1970**

Evagetes ophirus richteri Wolf 1970. - Stuttgart. Beitr. Naturk. 217: 1, ♀.

Distribution in Iran: Khuzestan (Wolf, 1970a).

Distribution outside Iran: Endemic to Iran (Wolf, 1970a).

***Evagetes trispinosus* (Kohl 1886)**

Pompilus trispinosus Kohl 1886. - Verh. zool.-bot. Ges. Wien 36: 317, ♀.

Distribution in Iran: Mazandaran (Wolf, 2003; Amiresmail *et al.*, 2011; Amiresmail & Barari, 2012 as *Evagetes pectinipes* (Linnaeus 1758)).

Distribution outside Iran: Armenia, Azerbaidjan, Bulgaria, Caucasian Russian Republics, Corsica, Cyprus, Egypt, France, Georgia, Greece, Israel, Jordan, Lebanon, Portugal, Spain, Near East (Asian Turkey, Syria, Arabian Peninsula, Iraq) (Wahis, 2012), Italy-Sardinia (Kohl, 1886 as *Pompilus trispinosus*;

Wolf, 1970b; Wahis, 2012), Kyrgyzstan, Mongolia (Wolf, 2005).

***Evagetes pontomoravicus* (Šusterka 1938)**

Psammochares pontomoravicus Šusterka 1938. - Prodr. Hym. Česko-Slowakiae 2: 210.

Distribution in Iran: West Azarbaijan (Sakenin *et al.*, 2010).

Distribution outside Iran: Bulgaria, Cyprus, Czech Republic, Greece, Hungary, Russia, Slovakia, North Africa (Wahis, 2011), Crete (Priesner, 1965b), Kazakhstan, Kyrgyzstan, Mongolia (Wolf, 2003, 2005), Mongolia (Wolf, 2005), Spain (Wolf, 1971), Turkey (Yildirim & Wahis, 2011), Turkmenistan (Wolf, 1995).

***Evagetes proximus* (Dahlbom 1845)**

Pompilus proximus Dahlbom 1845. - Hym. eur. (1-3): 451, ♂, ♀.

Distribution in Iran: Iran (no locality cited) (Smissen, 2003).

Distribution outside Iran: Austria, Belgium, Czech Republic, Denmark, France, Germany, Greece, Iran, Italy, Norway, Poland, Russia, Sweden, Turkey, Ukraine (Smissen, 2003), Bulgaria (Wahis, 2002b), China, Hungary, Mongolia, Slovakia (Wolf, 1971), Finland, The Netherlands (Wolf, 1967a), Kazakhstan (Wolf, 2003), Kyrgyzstan (Zonstein, 2002b), Switzerland (Wolf, 1972a), Tajikistan (Wolf, 2004c).

Genus *Gonaporus* Ashmead 1902

***Gonaporus ecbatanus* Wolf 1990**

Gonaporus ecbatanus Wolf 1990. - Linzer biol. Beitr. 22/2: 632, ♀.

Distribution in Iran: Tehran (Wolf, 1990b).

Distribution outside Iran: Endemic to Iran (Wolf, 1990b).

Genus *Pamirospila* Wolf 1970

***Pamirospila magiana* Zonstein 2000**

Pamirospila magiana Zonstein 2000. - Tethys Ent. Res. 2: 167-186.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2010a-b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Turkmenistan (Zonstein, 2000a).

Genus *Paracyphononyx* Gribodo 1884

***Paracyphononyx ruficrus* (Klug 1834)**

Pompilus ruficrus Klug 1834. - Symb. phys., pl. 39, ♀, ♂.

Distribution in Iran: Sistan & Baluchestan (Wolf, 2003).

Distribution outside Iran: Asia Minor, Africa, Saudi Arabia, Yemen (Wahis, 2002), Egypt, South Africa, Zimbabwe (Arnold, 1936), Israel (Haupt, 1962).

***Paracyphonyx zavattarii* Guiglia 1943**

Paracyphonyx zavattarii Guiglia 1943 – Ann.Museo Civico di Storia Nat.Genova, 220-223, fig.4 ♂

Distribution in Iran: Sistan & Baluchestan (Wolf, 1970a). (as *P.metemmensis* Magretti, wrong interpretation)

Distribution outside Iran: Ethiopia (Guiglia, 1943).

Genus *Paragenioides* Wolf 1968

***Paragenioides povolnyi* Wolf 1968**

Paragenioides povolnyi Wolf 1968. - Acta Mus. Morav. 53: 243, ♀, ♂.

Distribution in Iran: Sistan & Baluchestan (Wolf, 1970a).

Distribution outside Iran: Afghanistan (Wolf, 1970a).

Genus *Pedinpompilus* Wolf 1961

***Pedinpompilus speculabundus* (Haupt 1929)**

Psammochares speculabundus Haupt 1929. - Mitt. Zool. Mus. Berl. 1.

Distribution in Iran: Bushehr (Wolf, 1971).

Distribution outside Iran: Syria (Wolf, 1997).

Genus *Pompilus* Fabricius 1798

***Pompilus cinereus* (Fabricius 1775)**

Sphex cinerea Fabricius 1775. - Syst. ent. 1775: 350, ♀.

Distribution in Iran: Mazandaran (Day, 1981), Sistan & Baluchestan (Wolf, 1970a).

Distribution outside Iran: Algeria, Austria, Belgium, Benin Republic, Burma, Chad, Crete, Cyprus, Denmark, Egypt, Ethiopia, France, Germany, Ghana, Great Britain, Greece, Hungary, India, Israel, Italy, Ivory Coast, Kenya, Laos, Libya, Luxemburg, Malawi, Morocco, Mozambique, Namibia, Niger, Nigeria, Norway, Pakistan, Poland, Romania, Sardinia, Senegal, Singapore, Somali Republic, Sudan, Sweden, Taiwan, The Netherlands, Tunisia, Turkey, West Malaysia, Uganda, former USSR, Yemen, former Yugoslavia, Zambia, Zaire, Zimbabwe (Day, 1981), Australia, Borneo, Canary Islands, Japan, Java, Madagascar, Mediterranean Islands, Sri Lanka, the Philippines (Wolf, 1970a).

Genus *Schistonyx* Saussure 1887

***Schistonyx umbrosus* (Klug 1834)**

Pompilus umbrosus Klug 1834. - Symb. phys., Dec. 4, T. 39, F. 4.

Distribution in Iran: Khorasan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Canary Islands, Portugal, North Africa (Wahis, 2011), Egypt, Mauritania, Morocco, Syria, Tunisia (Wahis & Gros, 2000), Israel (Haupt, 1962), Syria (Wolf, 1998c).

Genus *Tachyagetes* Haupt 1930

***Tachyagetes aegyptiacus* (Priesner 1955)**

Evagetes (Tachyagetes) aegyptiacus Priesner 1955. - Bull. Soc. Ent. Egypte 39: 122-123.

Distribution in Iran: Alborz, Mazandaran, Tehran (Wolf, 1986).

Distribution outside Iran: Algeria, Bulgaria, Egypt, Greenland, Israel, Italy, Kazakhstan, Macedonia, Morocco, Pakistan, Portugal, Rhodes, Sicily, Spain, Tajikistan, Tunisia, former Yugoslavia (Wolf, 1986), Kyrgyzstan (Zonstein, 2002b), Turkey (Wolf, 1986; Yildirim & Wahis, 2011), Uzbekistan (Wolf, 2005).

***Tachyagetes excellens* Haupt 1930**

Tachyagetes excellens Haupt 1930. - Mitt. zool. Mus. Berl. 16: 700, ♀.

Distribution in Iran: Sistan & Baluchestan (Wolf, 1987).

Distribution outside Iran: Afghanistan, Libya, Tunisia (Wolf, 1987).

***Tachyagetes exortivus* Wolf 1987**

Tachyagetes exortivus Wolf 1987. - Linzer biol. Beitr. 19/2: 428.

Distribution in Iran: Tehran (Wolf, 1987).

Distribution outside Iran: Asiatic Turkey (Wolf, 1987).

***Tachyagetes filicornis* (Tournier 1890)**

Evagetes filicornis Tournier 1890. - Ent. Génév. 1889: 64, ♀.

Distribution in Iran: Alborz, Tehran (Ebrahimi, 2006).

Distribution outside Iran: Algeria (Wolf, 1988b), Austria, Cyprus, Czech Republic, France, Germany, Kazakhstan, Kyrgyzstan, Malta, Romania, Uzbekistan (Wolf, 2005), Corsica (Wahis, 2007), Greece (Standfuss & Standfuss, 2003), Italy (Wahis & Terzo, 1996; Wolf, 2005), Mongolia (Wolf, 1981), Morocco (Wolf, 1988b),

Sardinia (Wolf, 1970c), Spain (Junco y Reyes, 1966), Tajikistan, Turkmenistan (Wolf, 1994), Turkey (Yildirim & Wahis, 2011).

***Tachyagetes kasakstanus* Wolf 1987**

Tachyagetes kasakstanus Wolf 1987. - Linzer biol. Beitr. 20: 433, ♂, ♀.

Distribution in Iran: Golestan (Sakenin *et al.*, 2010).

Distribution outside Iran: Asiatic Russia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan (Özbek *et al.*, 1999; Wolf, 1987, 1994).

***Tachyagetes sericans* (Klug 1834)**

Pompilus sericans Klug 1834. - Symb. Phys. Taf. 39, fig. 11, ♀.

Distribution in Iran: Bushehr (Wolf, 1987).

Distribution outside Iran: Algeria (Wolf, 1970b), Egypt, Israel, Libya, Morocco, Saudi Arabia, Tunisia, Yemen (Wolf, 1987), Jordan (Wolf, 1998c).

***Tachyagetes turcoturanicus* Wolf 1986**

Tachyagetes turcoturanicus Wolf 1986. - Entomofauna 7: 240, ♀, ♂.

Distribution in Iran: Tehran (Wolf, 1986).

Distribution outside Iran: Kyrgyzstan (Zonstein, 2002b), Turkey (Wolf, 1986).

Genus *Tachypompilus* Ashmead 1902

***Tachypompilus analis* (Fabricius 1781)**

Sphex analis Fabricius 1781. - Syst. Ins. 1: 448, ♀.

Distribution in Iran: Hormozgan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Sistan & Baluchestan (Wolf, 1970a).

Distribution outside Iran: Oriental-Indomalayan regions, Japan (Wolf, 1970a).

Genus *Telostegus* Costa 1887

***Telostegus argyrellus* (Klug 1843)**

Pompilus argyrellus Klug 1843. - Symb. phys. Pl. 39 fig. 9, ♀.

Distribution in Iran: Khorasan (Wolf, 1970a).

Distribution outside Iran: Egypt, Portugal, North Africa (Wolf, 1970a), Jordan (Wolf, 1998c), Israel (Haupt, 1962), Kyrgyzstan (Zonstein, 2002b), Turkmenistan (Wolf, 2005).

***Telostegus heinrichi* (Haupt 1930)**

Elaprosyron heinrichi Haupt 1930. - Mitt. Zool. Mus. Berlin 15: 596, ♀.

Distribution in Iran: Sistan & Baluchestan (Wolf, 1970a).

Distribution outside Iran: Turkey (Yildirim & Wahis, 2011).

***Telostegus inermis* (Brullé 1832)**

Aporus inermis Brullé 1832. - Expéd. Sci. Morée Zool. 2: 364, ♀.

Distribution in Iran: Iran (no locality cited) (Wolf, 1971). New material: Kordestan: Kamyaran, 1♀, 1♂, summer 2007.

Distribution outside Iran: Algeria, Hungary, Morocco, Romania, Spain (Wolf, 1971), Bulgaria, Cyprus, France, Greece, Italy, Portugal, Sicily, Slovakia (Wahis, 2011), Kazakhstan, Kyrgyzstan (Wolf, 1998b, 2005), Tajikistan (Wolf, 2004c), Turkey (Yildirim & Wahis, 2011).

***Telostegus melanurus* (Klug 1834)**

Pompilus melanurus Klug 1834. - Symb. phys., pl. 39, fig. 10, ♀.

Distribution in Iran: Hormozgan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Egypt, Greece, Libya, Palestine, Saudi Arabia, Sudan (Priesner, 1955), Israel (Haupt, 1962), Turkmenistan (Wolf, 1995).

***Telostegus paglianoi* (Wolf 1999)**

Elaphrosyron paglianoi Wolf 1999. - Linzer biol. Beitr. 31/1: 172, ♀.

Distribution in Iran: Mazandaran (Wolf, 1999).

Distribution outside Iran: Turkey (Wolf, 1999), Kyrgyzstan (Wolf, 2004c), Turkmenistan (Wolf, 2001).

Genus *Xenaporus* Ashmead 1902

***Xenaporus devius* Priesner 1955**

Xenaporus devius Priesner 1955. - Bull. Soc. Ent. Egypte 39: 203, ♀.

Distribution in Iran: Tehran (Wolf, 1990b).

Distribution outside Iran: Egypt, Syria (Wolf, 1990c).

***Xenaporus leleji* Wolf 1990**

Xenaporus leleji Wolf 1990. - Linzer biol. Beitr. 22/2: 655, ♀.

Distribution in Iran: Mazandaran, Tehran (Wolf, 1990b).

Distribution outside Iran: Endemic to Iran (Wolf, 1990b).

Subfamily Pepsinae Lepeletier 1845

Tribe Ageniellini Banks 1912

Genus *Auplopus* Spinola, 1841

***Auplopus albifrons* (Dalman 1823)**

Pseudagenia albifrons Dalman 1823.

Material examined: East Azarbaijan: Arasbaran, 1♀, 2♂, June 2008. **New record for Iran.**

Distribution outside Iran: Albania, Bulgaria, Poland, Portugal, Sardinia, Sweden (Wolf, 1967b), Austria, Bosnia and Herzegovina, Corsica, Czech Republic, Finland, France, Germany, Greece, Italy, Malta, Romania, Central Russia, Sicily, Spain, Switzerland (Wahis, 2011), Croatia (Wahis, 1963), Hungary (Wolf, 1971), Turkey (Yildirim & Wahis, 2011).

***Auplopus carbonarius* (Scopoli 1763)**

Sphex carbonaria Scopoli 1763. - Ent. Carn. 1763: 294, ♀.

Distribution in Iran: Alborz (Ebrahimi *et al.*, 2008), East Azarbaijan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Albania, Austria, Belgium, Bosnia and Herzegovina, Britain, Bulgaria, Channel Islands, Corsica, Cyprus, Czech Republic, Denmark, European Turkey, Finland, Greece, Italia, Malta, Poland, Portugal, Romania, Russia Central, Sardinia, Sicily, Slovakia, Spain, Switzerland, The Netherlands (Wahis, 2011), Kazakhstan, Kyrgyzstan (Wolf, 1998b), Jordan (Wolf, 1998c), Algeria, Britain, Israel, Japan, Lebanon, Mongolia, Morocco, Sweden (Wolf, 1971), Croatia (Wahis, 1963), France (Wahis, 1979), Greece (Priesner, 1965b), Tajikistan (Wolf, 2004c).

Comments: This species was more collected around yellow flowers, e.g. *Nonea* sp. (Boraginaceae) (Amiresmaili *et al.*, 2010b).

***Auplopus rectus* (Haupt 1927)**

Pseudagenia rectus Haupt 1927. - Dt. ent. Z. Beih.1926/1927: 146, ♂, ♀.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Albania, Austria, Bosnia and Herzegovina, Corsica, Cyprus, Czech Republic, France, Greece, Italy, Malta, Portugal, Romania, Russia Central, Sardinia, Sicily, Slovakia, Spain (Wahis, 2011), Jordan (Wolf, 1998c), Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan (Wolf, 1998b), Lebanon (Wolf, 1975), Mongolia (Wolf, 1981), Turkey (Yildirim & Wahis, 2011), Turkmenistan (Wolf, 1995).

Tribe Pepsini Townes 1951

Genus *Cryptocheilus* Panzer 1806

***Cryptocheilus alternatus* (Lepeletier 1845)**

Pompilus alternatus Lepeletier 1845. - Hist. Nat. Insects. Hym. 3.

Distribution in Iran: Fars, Khorasan (Ebrahimi *et al.*, 2008), Golestan, Khuzestan, Markazi (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Cyprus, Greece, Italy, Lebanon, France, Minor Asia, North Africa, Rhodes, Spain, Tajikistan, Turkey, former Yugoslavia (Wahis, 1997), Israel (Haupt, 1962), Kyrgyzstan (Zonstein, 2002b).

***Cryptocheilus discolor* (Fabricius 1793)**

Sphex discolor Fabricius 1793. - Ent. Syst. 2: 217, ♀.

Distribution in Iran: Khorasan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Kordestan (Ebrahimi *et al.*, 2008), Mazandaran (Amiresmaili *et al.*, 2010a, b).

Distribution outside Iran: Afghanistan (Wolf, 1968), Bulgaria, Cyprus, Greece, Italy, Central Russia, Sicily (Wahis, 2011), Syria (Wolf, 1998c), Croatia (Wahis, 1963), Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan (Wolf, 2005), Kyrgyzstan (Zonstein, 2002b), Malta (Wahis, 1997b), Turkey (Yildirim & Wahis, 2011).

***Cryptocheilus exiguus* Šusterka 1924**

Cryptocheilus exiguus Šusterka 1924. - Cas. Csl. spol. ent. 5: 84, ♀.

Distribution in Iran: Iran (no locality cited) (Ebrahimi *et al.*, 2008).

Distribution outside Iran: Jordan (Wolf, 1998c).

***Cryptocheilus fabricii* (Vander Linden 1827)**

Pompilus fabricii Vander Linden 1827. - Nouv. Mém. Acad. R. Sci. Bruxelles 4, ♀.

Material examined: Golestan: Golestan National Park, 1♀, October 2007. **New record for Iran.**

Distribution outside Iran: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Corsica, Czech Republic, Finland, France, Germany, Italy, Poland, Portugal, Romania, Central Russia, Slovakia, Spain, Switzerland (Wahis, 2011), Jordan (Wolf, 1998c), Turkey (Yildirim & Wahis, 2011).

***Cryptocheilus fischeri* (Spinola 1838)**

Pompilus fischeri Spinola 1838. - Ann. Soc. Ent. France 1838: 460, 461.

Distribution in Iran: Bushehr (Ebrahimi *et al.*, 2008); Mazandaran (Amiresmaili *et al.*, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Algeria, Bulgaria, Cyprus, Egypt, France, Greece, Italy, Morocco, Portugal, Spain, South of Switzerland, Turkey,

former Yugoslavia (Wahis, 1997), Corsica (Wahis, 2007), Israel (Wolf, 1998a), Sicily (Wahis & Terzo, 1996), Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan (Wolf, 1998b), Syria (Wolf, 1998c), Turkey (Yildirim & Wahis, 2011).

***Cryptocheilus guttulatus* (Costa 1887)**

Priocnemis guttulatus Costa 1887. - Prosp. Imen. Ital. 31, ♂, ♀.

Distribution in Iran: West Azarbaijan (Ebrahimi *et al.*, 2008).

Distribution outside Iran: Tajikistan (Wolf, 2005), Greece, Italy, Romania, Central Russia, Sicily (Wahis, 2011), Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan (Wolf, 1998b), Turkey (Yildirim & Wahis, 2011).

***Cryptocheilus notatus* (Rossi 1792)**

Sphex notatus Rossi 1792. - Fauna etrusca 1: 127, ♂.

Distribution in Iran: Alborz, Tehran (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Mazandaran (Ebrahimi *et al.*, 2008; Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain, Bulgaria, Channel Island, Corsica, Cyprus, Czech Republic, Denmark, France, Germany, Greece, Italy, Luxembourg, Poland, Portugal, Romania, Central Russia, Slovakia, Spain, The Netherlands (Wahis, 2011), Sicily (Wahis & Terzo, 1996), Slovenia (Wahis, 1963), Turkey (Yildirim & Wahis, 2011), Kazakhstan, Turkmenistan (Wolf, 1998b), Kyrgyzstan (Zonstein, 2002b).

***Cryptocheilus octomaculatus* (Rossi 1790)**

Sphex octomaculatus Rossi 1790. - Fauna etrusca 2: 65, ♀.

Distribution in Iran: Alborz (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Fars, Golestan, Tehran (Ebrahimi *et al.*, 2008), Mazandaran (Ebrahimi *et al.*, 2008; Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Albania, Bosnia and Herzegovina, Corsica, Cyprus, France, Greece, Italy, Sicily, Spain (Wahis, 2011), Croatia (Wahis, 1963), Israel (Haupt, 1962), Kyrgyzstan (Zonstein, 2002b), Morocco (Wolf & Assunção Diniz de 1970), Syria (Wolf, 1998c), Turkey (Yildirim & Wahis, 2011).

***Cryptocheilus richardsi* Móczár 1953**

Cryptocheilus richardsi Móczár 1953. - Proc. R. ent. Soc. London 22B: 40, ♀.

Distribution in Iran: Tehran (Ebrahimi *et al.*, 2008).

Distribution outside Iran: Austria, Italy, Russia Central, Romania, Sicily, Slovakia (Wahis, 2011), Bulgaria, Hungary (Wolf, 1975), Greece (Standfuss & Standfuss, 2003), Israel, Syria (Wolf, 1971), Kazakhstan, Uzbekistan (Wolf, 1998b), Kyrgyzstan (Zonstein, 2002b), Tajikistan (Wolf, 2004c), Turkey (Yildirim & Wahis, 2011).

***Cryptocheilus rogenhoferi* (Radoszkowski 1887)**

Pompilus rogenhoferi Radoszkowski 1887. - Horae Soc. Ross. 10: 93.

Distribution in Iran: Zanjan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Middle Asia (Kazakhstan, Turkmenistan, Uzbekistan) (Zonstein, 2007), Tajikistan (Radoszkowski, 1887; Gussakovskij, 1952 as *Salius sarafschani*), Kyrgyzstan (Zonstein, 1989, 1996, 2002a).

***Cryptocheilus rubellus* (Eversmann 1846)**

Pompilus rubellus Eversmann 1846. - Bull. Soc. Nat. Moscou 19: 442.

Distribution in Iran: Bushehr, Golestan, Isfahan, Khorasan, Lorestan (Ebrahimi *et al.*, 2008), Iran (no locality cited) (Esmaili & Rastegar, 1974; Modarres Awal, 1997).

Distribution outside Iran: Albania, Algeria, Morocco, Pakistan, Tunisia (Wahis, 1997), Bulgaria, Corsica, Cyprus, France, Greece, Italy, Portugal, Russia Central, Sardinia, Spain, Near East (Wahis, 2011), Kazakhstan (Wolf, 2004c), Kyrgyzstan (Zonstein, 2002b), Turkey (Wahis, 1997; Yildirim & Wahis, 2011), Uzbekistan (Wolf, 1998b).

***Cryptocheilus variabilis* (Rossi 1790)**

Sphex variabilis Rossi 1790. - Fauna etrusca 2: 64, ♀?

Distribution in Iran: Golestan (Ebrahimi *et al.*, 2008), Mazandaran (Amiresmaili *et al.*, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Algeria, Corsica, Cyprus, France, Greece, Italy, Portugal, Spain, Turkey, former Yugoslavia (Wahis, 1997), Austria (Wolf, 1993), Sicilia (Wahis & Terzo, 1996), Kazakhstan (Wolf, 1998b), Kyrgyzstan, Uzbekistan (Wolf, 2005).

***Cryptocheilus versicolor* (Scopoli 1763)**

Sphex versicolor Scopoli 1763. - Ent. Carn. 1763: 295.

Distribution in Iran: Ardabil (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Golestan (Ebrahimi *et al.*, 2008), Mazandaran (Ebrahimi *et al.*, 2008; Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Corsica, Cyprus, Czech Republic, Germany, Italy, Poland, Portugal, Romania, Central Russia, Sardinia, Sicily, Slovakia, Spain, Switzerland (Wahis, 2011), Croatia (Wahis, 1963), France (Wahis, 1997a), Kyrgyzstan (Wolf, 2004c), Turkey (Yildirim & Wahis, 2011).

Genus *Dipogon* Fox 1897

Dipogon bifasciatus (Geoffroy 1785)

Ichneumon bifasciatus Geoffroy 1785. - Ent. paris 2: 405, ♀.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Austria, Belarus, Belgium, Bosnia & Herzegovina, Britain, Corsica, Czech Republic, Finland, France, Germany, Italy, Romania, Central Russia, Slovakia (Wahis, 2012), Kazakhstan (Wolf, 1998b), Japan (Lelej, 1986), Kyrgyzstan (Zonstein, 2000).

Dipogon variegatus (Linnaeus 1758)

Sphex variegatus Linnaeus 1758. - Syst. Nat. 10: 27.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2011), Iran (no locality cited) (Wolf, 1971)

Distribution outside Iran: Albania (Guiglia, 1943), Austria, Belgium, Britain, Czech Republic, France, Germany, Greece, Hungary, Malta, North Africa (except Egypt), Romania, Slovakia, South Europe, Switzerland, former Yugoslavia, Cyprus (Wolf, 1971), Malta (Wahis, 1997b), Sardinia (Priesner, 1962), Sicily (Wahis & Terzo, 1996), Turkmenistan (Zonstein, 2000b).

Genus *Hemipepsis* Dahlbom 1844

Hemipepsis brunnea (Klug 1834)

Pompilus brunnea Klug 1834. - Symb. phys. Pl.38, fig. 2, ♂.

Distribution in Iran: Kerman (Ebrahimi, 2006), Lorestan, Sistan & Baluchestan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Israel (Haupt, 1962), Turkey (Yildirim & Wahis, 2011b), Turkmenistan (Wolf, 1998b).

Hemipepsis semenovi (Gussakovskij 1932)

Mygnimia semenovi Gussakovskij 1932.- Trav. Inst. Zool. Acad. Sci. U.R.S.S. 1(3-4): 296-297, ♀, ♂.

Distribution in Iran: Fars (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Golestan, Kerman, West Azarbaijan (Ebrahimi *et al.*, 2008), Hormozgan (Wahis, 2000; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Eritrea, Yemen (Wahis, 2000).

Genus *Mygnimia* Shuckard 1840

Mygnimia flava (Fabricius 1775)

Sphex flava Fabricius 1775. - Ent. syst. 2: 217.

Distribution in Iran: East Azarbaijan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Golestan (Ebrahimi, 2006).

Distribution outside Iran: India (Ebrahimi *et al.*, 2008); UAE (www.HymnS.eu), Oman, Qatar, Bahrain (coll. Wahis).

Genus *Priocnemis* Schioedte 1837

Priocnemis exaltata (Fabricius 1775)

Sphex exaltata Fabricius 1775.- Syst. Ent. 1775: 351.

Material examined: Golestan province, Golestan National Park, Dasht-e-Mirzabaylu (1575 m), 2♂, August 2007. **New record for Iran.**

Distribution outside Iran: Austria (Wolf, 1993), England (Day, 1988), Germany (Schmid-Egger, 2010), Switzerland (Wahis & Rezbanyai-Reser, 2002), Turkey (Yildirim & Wahis, 2011a, b), Belarus, Belgium, Bulgaria, Channel Islands, Czech Republic, Denmark, Finland, France, Italy, Norway, Poland, Romania, Sicily, Slovakia, Slovenia (Wahis, 2011).

Priocnemis fahringeri Wolf 1963

Priocnemis fahringeri Wolf 1963. - Mitt. Muench. Ent. Ges. 1963: 28.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Turkey (Wolf, 1963).

Priocnemis melanosoma Kohl 1880

Priocnemis notatus var. *melanosoma* Kohl 1880. - ferdinandeum 3: 190, ♀.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Austria, Czech Republic, Dodecanese Islands, Poland, Romania,

Slovakia (Wahis, 2011), Hungary, Italy, former Yugoslavia (Wolf, 1971), Switzerland (Wolf, 1972), Uzbekistan (Wolf, 1998b).

***Priocnemis perturbator persica* Wolf 1963**

Priocnemis perturbator persicus Wolf 1963. – Boll. Mus. Civ. Venezia, 13: 103, 125, 156. ♂, ♀.

Distribution in Iran: Guilan, Mazandaran (Wolf, 1963).

Distribution outside Iran: Endemic to Iran (Wolf, 1963).

***Priocnemis pusilla* (Schioedte 1837)**

Pompilus pusilla Schioedte 1837. – Naturh. Tidsskr. 1: 327.

Distribution in Iran: Golestan (Ebrahimi, 2006; Ebrahimi *et al.*, 2008), Mazandaran (Amiresmaili *et al.*, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Albania, Austria, Belarus, Britain, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Italy, Luxemburg, Poland, Sicily, Slovakia, Spain, The Netherlands (Wahis, 2011), Belgium (Wahis, 1996b), Kyrgyzstan (Zonstein, 2002b), Switzerland (Wolf, 1972), Turkey (Yildirim & Wahis, 2011).

***Priocnemis rufozonata* Costa 1886**

Priocnemis rufozonatus Costa 1886. – R. Acad. Sci. Fis. Mat. Napoli III: 15, ♀.

Distribution in Iran: West Azerbaijan (Sakenin *et al.*, 2010).

Distribution outside Iran: Greece (Özbek *et al.*, 1999, 2000), France-Corsica (Wahis, 2007), Italy (Wolf, 1972), Kazakhstan (Wolf, 2003), Morocco (Wolf, 1963), Turkey (Yildirim & Wahis, 2011).

***Priocnemis sulci* Balthasar 1943**

Priocnemis sulci Balthasar 1943. – Ent. Listy 6: 14, ♀.

Distribution in Iran: Mazandaran (Amiresmaili *et al.*, 2010a, b, 2011; Amiresmaili & Barari, 2012).

Distribution outside Iran: Austria, Britain, Czech Republic, Dodecanese Islands, Italy, Romania, Slovakia (Wahis, 2011), Kazakhstan, Tajikistan, Uzbekistan (Wolf, 1998b).

***Priocnemis vulgaris* (Dufour 1841)**

Pompilus vulgaris Dufour 1841. – Mém. prés. div. Sar. Acad. Sci. Inst. Fr. 11: 249, ♂.

Distribution in Iran: Alborz (Wolf, 1963 as *Priocnemis mimulus ater* Haupt 1930), Iran (no

locality cited) (Haupt, 1930; Wolf, 1963 as *P. mimulus ater*).

Distribution outside Iran: Albania, Austria, Belarus, Belgium, Bulgaria, Czech Republic, Germany, Greece, Italy, Poland, Romania, Slovakia, The Netherlands (Wahis, 2011), France, Spain (Wolf, 1963), Kazakhstan, Kyrgyzstan, Uzbekistan (Wolf, 1998b, 2005), Switzerland (Wolf, 1972), Tajikistan (Wolf, 2003), Turkey (Yildirim & Wahis, 2011).

Comments: According to Schmid-Egger (personal communication), the true identity of *Priocnemis minulus ater* Haupt 1930 has to be verified, because *Priocnemis mimulus* recently is *vulgaris*, but the form *ater* can be a black form of any other related species.

Subfamily Ceropalinae Ashmead 1900

Genus *Ceropales* Latreille 1796

***Ceropales maculata* (Fabricius 1775)**

Evania maculata Fabricius 1775. – Syst. Ent. 1775: 345, ♀?

Distribution in Iran: Tehran (Ebrahimi, 2006; Ebrahimi *et al.*, 2008).

Distribution outside Iran: Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Britain, Bulgaria, Channel Islands, Corsica, Croatia, Cyprus, Czech Republic, Denmark, European Finland, France, Germany, Greece, Hungary, Italy, Luxembourg, Macedonia, Norway, Poland, Portugal, Romania, Russia Central, Russia East, Russia Northwest, Russia South, Sardinia, Sicily, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Netherlands, East Palaearctic, Near East, North Africa (Wahis, 2011), China, Korea, Mongolia (Yasumatsu, 1946), Japan (Yasumatsu & Ishikawa, 1955), Kazakhstan (Wolf, 2004c), Kyrgyzstan (Wahis, 1996), Turkey (Wahis, 2011; Yildirim & Wahis, 2011), Turkmenistan (Wolf, 1995).

Comments. An unknown species, *Ceropales* sp. was recorded from Damavand (Tehran province) by Esmaili & Rastegar (1974) and Modarres Awal (1997).

4. DISCUSSION

This catalogue with 103 species within 31 genera and 3 subfamilies indicates that the fauna of Pompilidae is diverse in Iran. Among the 3 subfamilies, Pompilinae with 73 species and subspecies is more diverse than Pepsinae (29 species) and Ceropalinae (1 species). Also, among the 31 genera, *Cryptocheilus* (with 13 species),

Agenioideus (with 10 species), *Anoplius* and *Priocnemis* (both with 8 species) are more diverse than the other genera (Figure 2). Additionally the genus *Taeniagenia* Haupt 1950 was reported by Wolf (2003) from Sistan & Baluchestan, but this genus is a synonym of *Auplopus* Spinola (Wahis, 2014) and since its species is unknown we did not

consider it as the fauna of Iran. However Iran is a large country with various geographical regions and climates and therefore a considerable number of spider wasp species are still expected to occur in the Iranian fauna. Faunistic surveys are necessary for finding new records and new distribution data.

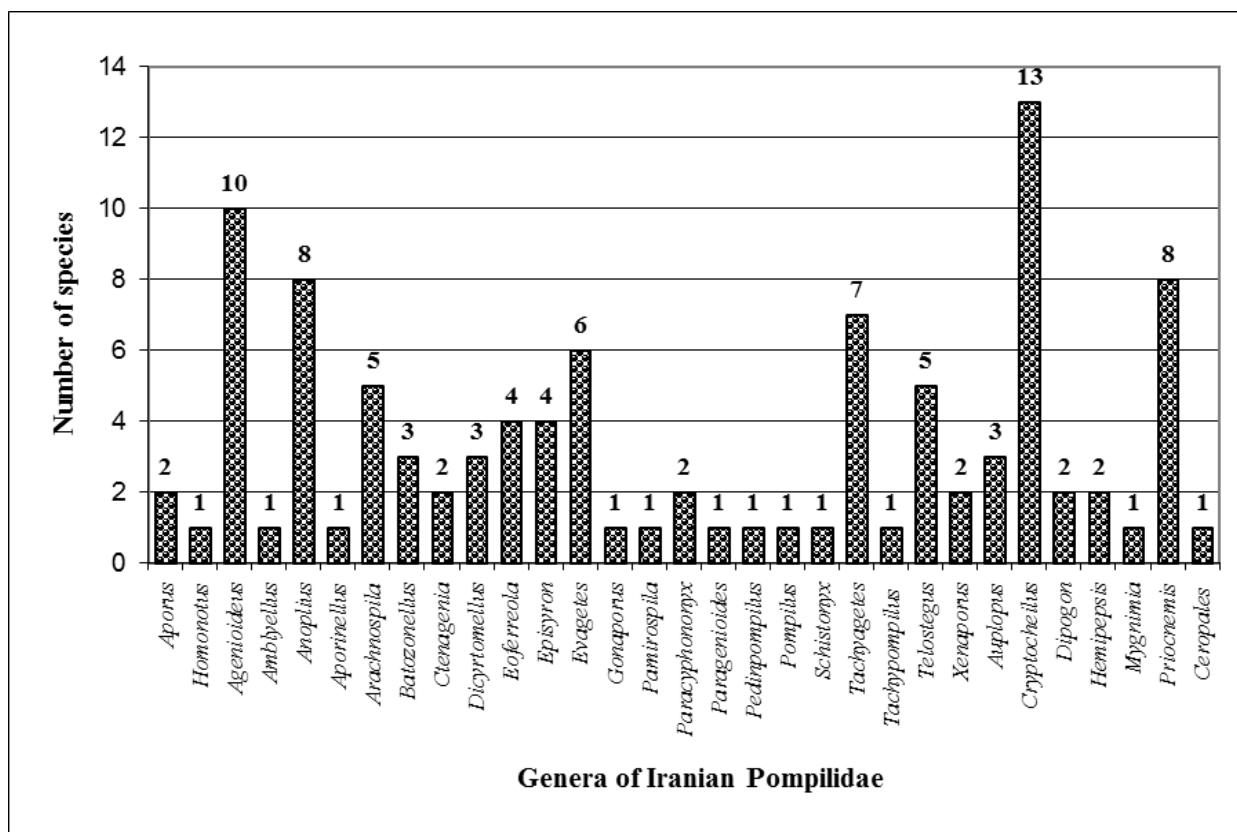


Figure 2: Species diversity of the genera of Iranian Pompilidae. In fig.2 : Number of recorded species.

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