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The List of Lepidoptera in the Hayk Mirzayans Insect Museum of
Iranian Research Institute of Plant Protection

Family: Pterophoridae

By:

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2014

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In the Name of God

The list of Lepidoptera in Hayk Mirzayans Insect Museum of the
Iranian Research Institute of Plant Protection
(Lepidoptera: Pterophoridae)

By:

H. Alipanah

The family Pterophoridae due to the presence of a cleft in the forewing and a double cleft in the hindwing in most species, is distinct in the order Lepidoptera. Although these characters differentiate them from all other Lepidoptera, does not apply to the entire family, as the Subfamily Agdistinae has uncleft wings. This cleft wing-shaped gives the wing a feather-like appearance, which is reflected in popular names of this family, Plume moths (Gielis, 1996). Pterophoridae, the only known family of Pterophoroidea is a very widespread family with a world-wide distribution. The biology of the different species reflects the diversity of their habitats and its major hostplant groups are Asteraceae, Labiatae, Gentianaceae and Rosaceae. This family is divided into five subfamilies, Macropirantinae, Agdistinae, Ochyroticinae, Deuterocopinae and Pterophorinae, of which the first three are monogeneric. According to the literature, almost 1249 species of this family in 91 genera are known worldwide, which Pterophorinae is by far the largest Subfamily (Gielis, 2003, 2006, 2008, 2009, 2011a, b; Arenberger, 2002, 2005, 2006; Alipanah & Ustjuzhanin, 2005, 2006; Rose & Pooni, 2005; Altermatt 2008; Gielis & Karsholt, 2009; Alipanah *et al.*, 2010, 2011; Ustjuzhanin & Kovtunovich, 2010, 2011a, b; Ustjuzhanin *et al.*, 2011; Gielis & Mano, 2013).

The pterophorid moths of Iran have been partly studied and several publications are available (Lederer, 1869, 1870; Staudinger & Rebel, 1901; Zerny, 1940; Amsel, 1959; Bigot, 1968; Bigot & Popescu-Gorj, 1974; Hannemann, 1977; Burmann, 1986; Sutter, 1991; Arenberger, 1981, 1995a, b, 1999, 2005; Alipanah *et al.*, 2003; Alipanah & Ustjuzhanin, 2005, 2006, 2013, Alipanah & Gielis, 2010; Alipanah, 2013a, b). So far, 95 species of this family have been reported from Iran which all except the eleven species namely, *Agdistis insidiatrix* Meyrick, 1936, *Paracapperia anatolicus* (Caradja, 1920), *Capperia celeusi* (Frey, 1886), *Oxyptilus pilosellae* (Zeller, 1841), *Crombruggia kollari* (Stainton, 1851), *Stenoptilodes taprobanes* (R. Felder & Rogenhofer, 1875), *Marasmarcha pulcher* (Christoph, 1885), *Hellinsia lienigianus* (Zeller, 1852), *Calyciphora albodactylus* (Fabricius, 1794), *C. nephelodactyla* (Eversmann, 1844) and *Wheeleria spilodactyla* (Curtis, 1827) can be found in the Hayk Mirzayans Insect Museum (HMIM). These species belong to 30 genera in 5 tribes. In the present checklist detailed data on the distribution of the pterophorid species previously reported from Iran and preserved in the Lepidoptera Collection of HMIM are presented.

This checklist would not have been completed without the friendly support of many colleagues. I would particularly appreciate Dr. Cees Gielis (Nationaal Centrum voor Biodiversiteit, Naturalis, Leiden, the Netherlands), Dr. Peter Ustjuzhanin (Siberian Division of the Russian Entomological Society), and Dr. Ernst Arenberger (Naturhistorisches Museum Wien, Austria) for their valuable comments during the study of Pterophoridae of Iran. My sincere thanks also goes to Mr. Mohammad Reza Nematian, Mr. Hossein Falsafi and Mr Abolfazl Hajiesmailian who spread the collected material carefully. I also thank to all my colleagues in the Iranian Research Institute of Plant Protection (IRIPP) and all my friends in Germany, who have collected the material from different parts of Iran.

THE LIST OF LEPIDOPTERA FROM IRAN

Order: **Lepidoptera**

Superfamily: **Pterophoroidea** Zeller, 1841

Family: **Pterophoridae** Zeller, 1841

Subfamily: **Agdistinae** Tutt, 1907

Genus: ***Agdistis*** Hübner, [1825]

Agdistis adactyla (Hübner, [1819])

Material examined:

Golestān:

Jalin- Shāhrud Rd.: Shāhkuh-e Bālā, 2400m., 19.VII.2003, 1♂, leg. Ebrāhimi, Ālipanāh.

Khorāsān-e Shomālī:

Golestān National Park: Ālmeh, 1600m., 19.–20.VIII.1985, 3♂♂, leg. Pāzuki;
Ālmeh, 1700m., 25.VII.2001, 3♂♂, leg. Gilāsīān, Mofidi-Neyestānak,
Ghayurfar; Sulgerd, 1100m., 16.–18.VII.1985, 3♀♀, leg. Pāzuki; Sulgerd,
1150m., 20.–21.VII.1996, 2♂♂, leg. Ebrāhimi, V. Nazari.

Agdistis adenensis Amsel, 1961

Material examined.

Bushehr:

Asaluyeh: Bidkhun, 0m., 18.XI.1997, 7♀♀ 7♂♂, leg. V. Nazari, Mofidi-Neyestānak, Barāri.

Dālaki: 130m., 20.III.1973, 1♀ 1♂, leg. Abāi; Booreki, 300m., 21.III.1973, 2♂♂, leg. Abāi;

Hormozgān:

Mināb: 15 km. Mināb, 150m., 1.IV.1973, 1♂, leg. Abāi.

***Agdistis arabica* Amsel, 1958**

Material examined:

Bushehr:

Asaluyeh: Bidkhun, 0m., 18.XI.1997, 1♀, leg. V. Nazari, Mofidi-Neyestānak,

Barāri; Bidkhun, Harrā forest, 0m., 9.I.1996, 1♀, leg. Ardeh, Badii, V. Nazari.

Borāzjān: Darvāhi, 50m., 22.–23.XII.1999, 1♀, leg. Badii, Mofidi-Neyestānak.

Kangān: Bandar-e Tāheri, 0m., 8.VIII.1996, 2♂♂, leg. Ardeh, Badii, V. Nazari.

Hormozgān:

Bandar Abbās: Isin, 150m., 26.IV.1986, 1♀, leg. Mirzāyāns, Borumand; 20 km. N.

E. Bandar Abbās, Ghaleh Ghāzi, Bāghu, 50m., 30.IV.1986, 2♀♀, leg.

Mirzāyāns, Borumand.

Bastak: Moghdoom, N 27°12'24.3", E 54°20'25.9", 428m., 16.II.2012, 1♀, leg.

Falsafi.

Mināb (20 km. S.): N 27°00'36.8", E 57°05'06.5", 8m., 1.I.2008, 9♂♂ 6♀♀, leg.

Zahiri, Lehmann, Stadie.

Persian Gulf: Ghesm Island, Dargāhān, 27.–28.II.1999, 2♀♀, leg. Ghayurfar,

Manzari; Ghesm Island, Salakh, 50m., 6.III.2002, 1♂, leg. Hājiesmailiān,

Mofidi-Neyestānak, Sādeghi; Hormoz Island, 7.III.1999, 1♂, leg. Ghayurfar,

Manzari; Lārak Island, 6.III.1999, 1♂, leg. Ghayurfar, Manzari.

***Agdistis caradjai* Arenberger, 1975**

Material examined.

Semnān:

Shāhrud: Kālpush, 1300m., 25.–26.VIII.1982, 1♀ 1♂, leg. Hāshemi.

***Agdistis falkovitshi* Zagulaev, 1986**

Material examined:

Alborz:

Sāvojbolāgh: E. Gatehdeh, Elburz Mt., N 36°10'39", E 51°02'20.9", 2260m.,
31.VII.–01.VIII.2007, 1♀, leg. Zahiri, Ālipanāh, Falsafi.

***Agdistis frankeniae* (Zeller, 1874)**

Material examined:

Ardebil:

Moghān: 18.IX.1974, 1♀, leg. Damanābi.

Semnān:

Dāmghān (20 km. N.): Cheshmeh Ali, N 35°19'01", E 054°27'17", 1560m., 23.–
24.V.2005, 3♂♂, leg. Trusch, Petschenka, Müller.

***Agdistis huemeri* Arenberger, 2002**

Material examined:

Esfahān:

Natanz: Natanz- Targh, Karkas Mt., Mazdeh, 2150m., 15.VI.2005, 2♂♂, leg.
Zahiri, Nematīān, Falsafi.

Semnān:

Dāmghān (20 km. N.): Cheshmeh Ali, N 35°19'01", E 054°27'17", 1560m., 23.–
24.V.2005, 4♂♂ 1♀, leg. Trusch, Petschenka, Müller; Dāmghān (95 km. S.),
N. Moallemān, Dārestān Mt., N 35°19'01", E 054°27'17", 1540m., 15.V.2005,
2♂♂, 2♀♀, leg. Trusch, Petschenka, Müller.
Moallemān: 1070m., 17.V.2005, 1♀, leg. Falsafi, Nematīān.

***Agdistis iranica* Alipanah & Ustjuzhanin, 2006**

Material examined.

Esfahān:

Nain: 8 km. N. E Anārak, N 33°22'43.5" E 53°43'13.5", 1560m., 31.V.2005, 2♀♀
4♂♂, illeg. Zahiri, Fibiger.

***Agdistis karakalensis* Zagulajev, 1990**

Material examined:

Semnān:

Eyvānakey: Ahmadābād, 1450m., 26.V.1982, 1♀, leg. Hāshemi.

***Agdistis nanodes* Meyrick, 1906**

Material examined:

Bushehr:

Persian Gulf: Negin Island, 17.IV.1999, 1♂, leg. Kalānaki, Mofidi-Neyestānak.

Hormozgān:

Mināb: Gurband, N 27°19'50.1", E 56°59'29.7", 34m., 20.II.2012, 1♂ 1♀, leg.
Falsafi.

***Agdistis olei* Arenberger, 1976**

Material examined.

Khuzestān:

Ābādān: Minu Island, 12m., 11.V.1975, 1♂, leg. Pāzuki, Borumand.

***Agdistis parvella* Amsel, 1958**

Material examined:

Hormozgān:

Bandar Abbās (20 km. N. E.): Ghaleh Ghāzi, Bāghu, 50m., 30.IV.1986, 1♀ 1♂,
leg. Mirzāyāns, Borumand.

***Agdistis protecta* Arenberger, 1999**

Material examined:

Hormozgān:

Jāsk: Bashāgard, Bashāgard Mts., Angohrān, N 26°34', E 57°54', 25.III.–
5.IV.2000, 1♀, leg. Siniaev & Plutenko.

***Agdistis sissia* Arenberger, 1987**

Material examined.

Esfahān:

Nāin: 8 km. N. E. Anārak, N 33°22'43.5", E 53°43'13.5", 1560m., 31.V.2005, 1♀,
leg. Zahiri, Fibiger.

***Agdistis tamaricis* (Zeller, 1847)**

Material examined:

Golestān:

Marāveh Tappeh: Gāvāndar, 250m., 30.IX.1992, 1♂, leg. Ebrāhimi, Badii.

Hormozgān:

Bandar Abbās: Dehbārez, 400m., 4.IV.1973, 1♂, leg. Abāi.

Mināb: Gurband, 50m., 1♂, leg. Badii, Mofidi-Neyestānak.

Khuzestān:

Ābādān: Hayyer, 8.V.2002, 2♂♂, leg. Moghaddam, Serri, Nematīān.

Ahwāz: Hamidiyeh dam, 20m., 20.–21.XI.1995, 1♀, leg. Mirzāyāns, Badii.

Sistān va Baluchestān:

Irānshahr (13 km. W.): Rig Kabud, 500m., 15.V.1972, 1♀, leg. Abāi, Ebert.

Tehrān:

Firuzkuh: Hesārbon, 1600m., 5.–6.X.1981, 1♂, leg. Pāzuki.

***Agdistis tenera* Arenberger, 1976**

Hormozgān:

Jāsk- Chābahār Rd.: 45 km. to Jegin, N 25°44'42.5", E 58°12'27.5", 27m.,
23.II.2012, 1♀, leg. Falsafi.

Subfamily: **Pterophorinae** [Zeller, 1841] = **Platyptiliinae** Tutt, 1906

Tribe: **Platyptiliini** Tutt, 1906

Genus: ***Platyptilia*** Hübner, [1825]

***Platyptilia calodactyla* (Denis & Schiffermüller, 1775)**

Material examined:

Alborz:

Sāvojbolāgh: E. Gatehdeh, Elburz Mt., N 36°10'39.6", E 51°02'20.9", 2260m.,
31.VII.–01.VIII.2007, 3♂♂ 1♀, leg. Zahiri, Ālipanāh, Falsafi.

Semnān:

Shāhrud: W. Tāsh, Shāvār Mt., 2900m., 19.VII.2003, 1♂, leg. Hofmann, Meineke,
Tremewan.

***Platyptilia farfarella* Zeller, 1867**

Material examined:

Ardebil:

Meshkinshahr : Sabalān, Ghotur Suiee, N 38°21'53.9", E 47°51'43.4", 2270m.,
25.–26.VII.2007, 2♂♂ 2♀♀, leg. Ālipanāh, Zahiri, Falsafi; Sabalān, N
38°27'10.7", E 47 50'38.8", 1680m., 15.IX.2008, 1♂, leg. Ālipanāh, Buszko.

Āzarbāijān-e Gharbi:

Māku (W.): Ghezel Bolāgh, 1910m., 27.VII.1976, 1♂, leg. Pāzuki, Borumand.

***Platyptilia nemoralis* Zeller, 1841**

Material examined:

Alborz:

Tāleghān: 26.–31.VII.1976, 3♂♂, leg. Kāviān.

Ghazvin:

Ghazvin- Alamut Rd.: after Gardaneh-e Alamut, Khanjar Bolāgh Rd., N 36°24'11", E 050°12'52", 2024m., 1.–2.VII.2009, 1♂, leg. Rajāei, Meineke, Hofmann.

***Platyptilia tesseradactyla* (Linnaeus, 1761)**

Material examined.

Hamedān:

Hamedān (N. N. E.): N. Razan, Gardaneh-e Āvaj, 2300–2400m., 19.VI.1998, 2♀♀, leg. Hofmann, Meineke, Tremewan.

Genus: ***Amblyptilia*** Hübner, 1825

***Amblyptilia acanthadactyla* (Hübner, [1813])**

Material examined:

Māzandarān:

Tonekābon: Sehezār, N 36°41'37.2", E 050°50'20.6", 430m., 27.VI.2007, 1♀, leg. Ālipanāh.

Genus: ***Gillmeria*** Tutt, 1905

***Gillmeria irakella* (Amsel, 1959)**

Material examined:

Āzarbāijān-e Sharghi:

Miyāneh: Bozghush Mt., Torkamānchāy, Kalhor, N 37°42'27", E 47°22'25", 2150m., 12.VII.2005, 1♂, leg. Zahiri, Golmohammadzādeh-Khiābān.

Kordestān:

Saghez- Bāneh Rd.: 10 km. to Bāneh, Gardaneh-e Khān, N 36°04'13", E 045°59'31", 1976m., 26.–27.VI.2009, 1♀, leg. Rajāei, Meineke, Hofmann.

Zanjān:

Zanjān: Sohrein- Dagāhi Rd., 6 km. to Dagāhi, N 36°53'03.8", E 048°28'08.3", 2084m., 4.VI.2012, 2♀♀, leg. Ālipanāh, Falsafi.

***Gillmeria ochrodactyla* ([Dennis & Schiffermüller], 1775)**

Material examined:

Khorāsān-e Shomālī:

Āshkhāneh: E. Garmāb, N 37°40', E 56°14', 660m., 4.V. 2000, 1♂, leg. Flutsch, Möllet.

***Gillmeria pallidactyla* (Haworth, 1811)**

Material examined:

Ghazvin:

Ghazvin- Alamut Rd.: after Gardaneh-e Alamut, Khanjar Bolāgh Rd., N 36°24'11", E 050°12'52", 2024m., 1.–2.VII.2009, 1♂, leg. Rajāei, Meineke, Hofmann.

Kordestān:

Saghez- Bāneh Rd.: 10 km. to Bāneh, Gardaneh-e Khān, N 36°04'13", E 45°59'31", 1976m., 26.–27.VI.2009, 8♂♂ 1♀♀, leg. Rajāei, Meineke, Hofmann.

Markazi:

Tafresh: Dastgerd, 2300–2500m., 15.–16.VI.2005, 2♂♂ 6♀♀, leg. Meineke.

***Gillmeria rhusiodactyla* (Fuchs, 1903)**

Material examined:

Alborz:

Karaj: Kandovān, Sarchāl, 2800m., 4.–8.VII.1977, 1♂, leg. Pāzuki, Mortazavihā.

Āzarbāijān-e Sharghi:

Miyāneh: Bozghush Mt., Torkamānchāy, Kalhor, N 37°42'27", E 47°22'25",
2150m., 12.VII.2005, 2♂♂ 1♀, leg. Zahiri, Golmohammadzādeh-Khiābān.

Esfahān:

Fereydunshahr (S.): Fereydunshahr- Sibak Rd., 2 km. to Sibak, N 32°54'07", E
050°04'48", 2622m., 19.–20.VII.2009, 10♂♂ 5♀♀, leg. Rajāei, Meineke,
Hofmann.

Kermānshāh:

Kangāvar- Sahneh Rd.: 6 km. E. Sahneh, Bidsorkh., N 34°25'10.1", E 47°45'52.3",
1790m., 21.V.2007, 1♂, leg. Nāserzādeh, Zahiri, Olivier.

Khorāsān-e Shomālī:

Āshkhāneh (6 km. S. W.): Mehmānak, N 37°29'36.5", E 056°52'27.6", 1040m.,
17.VI.2013, 1♂, leg. Ālipanāh, Falsafi.

Kordestān:

Saghez- Bāneh Rd.: 10 km. to Bāneh, Gardaneh-e Khān, N 36°04'13", E
045°59'31", 1976m., 26.–27.VI.2009, 1♂ 1♀, leg. Rajāei, Meineke, Hofmann.

Māzandarān:

Nur: Baladeh, Yush, 2900m., 17.VII.2005, 1♂, leg. ten Hagen.

Rāmsar: Rāmsar- Javāherdeh Rd. (km. 6), N 36°54'29.3", E 050°35'13.2", 550m.,
23.VII.2007, 1♀, leg. Zahiri, Ālipanāh, Falsafi.

Siāhbisheh: 3 km. to Kamarbon., N 36°13'51.7", E 051°24'45.3", 2557m., 21,
22.VII.2007, 1♂, leg. Ālipanāh, Zahiri, Falsafi.

Zanjān:

Zanjān- Ābbār Rd.: 40 km. after Zanjān, N 36°44'07.8", E 46°47'34.2", 1706m.,
5.VI.2012, 1♀, Ālipanāh, Falsafi.

Genus: *Paraplatyptilia* Bigot & Picard, 1986

Paraplatyptilia metzneri (Zeller, 1841)

Material examined:

Ardebil:

Khalkhāl: Almās, 1900m., 30.VI.1998, 1♂, leg. Barāri, Mofidi-Neyestānak.

Āzarbāijān-e Gharbi:

Takht-e Soleymān- Dandi Rd.: Gharghāvol Khāneh, N 36°37'06", E 47°18'42",
2335m., 30.VI.2009, 5♂♂, leg. Rajāei, Meineke, Hofmann.

Genus: *Stenoptilia* Hübner, [1825]

Stenoptilia aridus (Zeller, 1847)

Material examined:

Alborz:

Tāleghān: 8 km. W. Zidasht, 2200m., 10.–13.VI.1977, 1♂, leg. Pāzuki,
Mortazavīhā.

Āzarbāijān-e Gharbi:

Sarāb: Ghushchi, N 38°3'27", E 44°59'23", 1700m., 17.VII.2005, 1♂, leg. Zahiri,
Golmohammadzādeh-Khiābān.

Āzarbāijān-e Sharghi:

Kaleybar: Āinālou, Alhord, Arasbārān forest, N 38°55'1.1", E 46°47'38", 1440m.,
28.VII.2007, 1♀, leg. Zahiri, Ālipanāh, Falsafi.

Khodāāfarin: Arasbārān forest, Gandomnān, N 38°59'25", E 48°52'12", 128m.,
15.VII.2005, 1♂, 2♀♀, leg. Zahiri, Golmohammadzādeh-Khiābān.

Miyāneh: Bozghush Mt., Torkamānchāy, Kalhor, N 37°42'27", E 47°22'25",
2150m., 12.VII.2005, 1♀, leg. Zahiri.

Ghazvin:

Ghazvin- Alamut Rd.: after Gardaneh-e Alamut, Khanjar Bolāgh Rd., N 36°24'11", E 050°12'52", 2024m., 1.–2.VII.2009, 1♂, leg. Rajāei, Meineke, Hofmann.

Gilān:

Amlash: Rahimābād, Ziāz., N 36°52'11.0", E 50°13'480", 405m., 12.IX.2008, 1♂, leg. Ālipanāh, Buszko.

***Stenoptilia bipunctidactyla* (Scopoli, 1763)**

Material examined:

Āzarbāijān-e Sharghi:

Kaleybar: Āinālou, Alhord, Arasbārān forest, N 38°55'1.1", E 46°47'38", 1440m., 28.VII.2007, 1♂, leg. Zahiri, Ālipanāh, Falsafi.

Tehrān:

Tehrān: Evīn, 10.VII.1974, 1♂, leg. unknown.

***Stenoptilia lucasi* Arenberger, 1990**

Material examined.

Alborz:

Karaj: Dizin, 17.VIII.1973, 2♂♂, leg. Ebert.

***Stenoptilia manni* (Zeller, 1852)**

Material examined:

Ardebil:

Meshkinshahr: Ilāndu, 1800m., 3.VII.1997, 1♂, leg. Barāri, Mofidi-Neyestānak.

Āzarbāijān-e Gharbi:

Khoy: Mārmishou, N 37°34'26', E 44°37'25", 1760m., 18.VII.2005, 3♂♂, leg. Zahiri, Golmohammadzādeh-Khiābān.

***Stenoptilia parnasia* Arenberger, 1986**

Material examined:

Kermān:

Bāft: Ghanāt-e Marvān, 2800m., 23.V.1977, 1♀, leg. Pāzuki, Safavi, Abāi.

***Stenoptilia pterodactyla* (Linnaeus, 1761)**

Material examined:

Fārs:

Eghlid (S. S. E.): Bel Mt., Darreh-e Ābsad, 2750m., 7.VI.2005, 1♀, leg. Hofmann, Meineke.

Māzandarān:

Nur: Baladeh, Yush, 2900m., 17.VII.2005, 1♂, leg. ten Hagen.

***Stenoptilia stigmatodactylus* (Zeller, 1852)**

Material examined:

Alborz:

Karaj: Kandovān, Sarchāl, 2800m., 4.–8.VII.1977, 1♂, leg. Pāzuki, Mortazavihā.

Āzarbāijān-e Sharghi:

Sahand: Chini Bolāgh, 2300m., 25.VI.1985, 1♂, leg. Mirzāyāns, Pāzuki.

Tehrān:

Shemirān: Tochāl, 2200-2600m., 6.VII.1995, 1♂, leg. V. Nazari.

Tehrān: Evin, 28.IX.1972, 1♂, leg. unknown; Evin, 10.VII.1974, 1♂, leg. unknown.

Zanjān:

Tārom: Gilvān, Gharghāvol Dāgh, 2500m., 26.–27.VI.2001, 1♀, leg. Hofmann, Meineke & Tremewan.

***Stenoptilia zophadactyla* (Duponchel, 1840)**

Material examined:

Gilān:

Asālem: Parehsar, 750m., 13.VIII.1974, 1♀, leg. Mirzāyāns

Hormozgān:

Bandar Abbās: Isin, 11.III.1972, 1♀, leg. Mirzāyāns, Borumand.

Genus: ***Cnaemidophorus*** Wallengren, 1862

***Cnaemidophorus rhododactylus* (Denis & Schiffermüller, 1775)**

Material examined:

Alborz:

Sāvojbolāgh: E. Gatehdeh, Elburz Mt., N 36°10'39.6", E 51°02'20.9", 2260m.,
31.VII-01.VIII.2007, 1♂, leg. Zahirī, Ālipanāh, Falsafī.

Āzarbāijān-e Sharghi:

Kaleybar: Āinālou, Alhord, Arasbārān forest, 1440m., N 38°55'1.1", E 46°47'38",
28.VII.2007, 1♀, leg. Zahirī, Ālipanāh, Falsafī.

Māku (W.): Ghezel Bolāgh, 1910m., 27.VII.1976, 1♂, leg. Pāzuki, Borumand.

Esfahān:

Kāshān: 22.V.2000, 3♂♂, leg. Nematollāhi.

Hamedān:

Āvaj: 13.VII.1978, 1♀, leg. Hāshemi, Zairi.

Khorāsān-e Shomālī:

Bojnurd (15 km. W.): N 37°31'31.6", E 057°08'08.4", 1058m., 16.VI.2013, 1♂,
leg. Falsafī, Ālipanāh.

Fāruj: Khosraviyeh, Ālā Dāgh, 1600m., 16.VI.1974, 1♀, leg. Rajabi, Pāzuki.

Khorāsān-e Razavi:

Ghuchān- Bājgirān Rd.: 46 km. N. Ghuchān, Dorbādām protected area, N
37°25'25.5", E 058°31'34.0", 1800m., 20.VI.2013, 1♀, leg. Ālipanāh, Falsafī.

Kordestān:

Sanandaj (N. W.): Saghez- Bāneh Rd., 1950–2100m., 28.-29.VI.2005, (without abdomen), leg. Hofmann.

Māzandarān:

Rāmsar: 6 km. Javāherdeh, N 36°54'29.3", E 050°35'13.2", 554m., 23.VII.2007, 1♂, leg. Ālipanāh, Zahiri.

Siāhbisheh: 3 km. to Kamarbon, N 36°13'51.7", E 051°24'45.3", 2557m., 21, 22.VII.2007, 1♂, leg. Ālipanāh, Falsafi, Zahiri.

Zanjān:

Zanjān: Soltāniyeh, Gheydār, 1950m., 2.VII.1974, 1♀, leg. Termeh, Mousavi.

Tribe: **Exelastini** Gielis, 2000

Genus: **Exelastis** Meyrick, 1886

Exelastis atomosa (Walsingham, 1885)

Material examined:

Hormozgān:

Mināb (20 km. S.): N 27°10'42.1", E 57°03'47.9", 3m., 1.I.2008, 4♂♂ 2♀♀, leg. Zahiri, Lehmann, Stadie.

Genus: **Marasmarcha** Meyrick, 1886

Marasmarcha asiatica (Rebel, 1906)

Material examined:

Ardebil:

Khalkhāl (62 km.): 1500m., 29.VII.1976, 2♂♂ 1♀, leg. Pāzuki, Borumand.

Āzarbāijān-e Gharbi:

Orumiyeh: Silvāneh, Rāzhān (30 km. S. W. Orumiyeh), 1650m., 24.VII.1976, 1♂, leg. Pāzuki, Borumand.

Chāhārmahāl va Bakhtiāri:

Borujen: S. Borujen, 6 km. S. Dorāhun, 1850–2100m., 1.VI.2005, 1♂, leg. Hofmann, Meineke.

Esfahān

Semirom: Behruz Mt., 2700m., 31.V.2006, 1♂, leg. Keil.

Fārs:

Firuzābād: Mehkuyeh, 1450m., 11.VI.1986, 1♂ 2♀♀, leg. Mirzāyāns, Hāshemi.

Hormozgān:

Dehbārez (38 km. S.): 270m., 29.IV.1986, (one specimen without abdomen), leg. Mirzāyāns, Hāshemi.

Jāsk: Bashāgard, N. Tidar, Bākhun Mt., N 27°58'26.8", E 56°15'31.3", 1330m., 25.IV.2006, 1♀, leg. Tarmann, Plössl.

Kermān:

Bāft- Jiroft Rd.: 55 km. Jiroft, Shingerā, 2800m., 22, 23.V.2004, 1♀, leg. Rajāei.

Bam: Dehbakry, 2400–2600m., 21, 22.V.2004, 3♂♂ 1♀, leg. Rajāei.

Kermānshāh:

Eslāmābād-e Gharb: Sorkhehdizeh, 1600m., 2.VII.1972, 4♂♂ 1♀, leg. Mirzāyāns, Abāi; Eslāmābād-e Gharb, 1500m., 3.VII.1972, 1♂ 2♀♀, leg. Mirzāyāns, Abāi.

Kermānshāh: 24.–30.V.1975, 1♂, leg. Ghāziof; Kermānshāh, 9, 18.VI.1975, 2♂♂ 1♀, leg. Abāi.

Khorāsān-e Shomālī:

Bojnurd: 15 km. W. Bojnurd, N 37°31'31.6", E 057°08'08.4", 1058m., 16.VI.2013, 1♂, 13♂♂ 4♀♀, leg. Falsafi, Ālipānāh.

Fāruj: Khosraviyeh, Ālā Dāgh, 1600m., 16.VI.1974, 1♂, leg. Rajabi, Pāzuki.

Khuzestān

Ābādān: Minu Island, 14.IV.2002, 1♀, leg. Ghayurfar.

Kohgiluyeh va Boyerahmad:

Yāsuj: Ganjegin, N 30°25'03", E 51°44'17", 2190m., 18.VI.2005, 1♂, leg. Zahiri, Nematiān, Falsafi; E. Yāsuj, Islāmiyeh, E. Deshkord, 2340–2360m., 8.VI.2005, 1♂, leg. Hofmann, Meineke; Yāsuj (E.), Denā Mt., N. Nurābād, 2450m., 8.VI.2005, 2♂♂, leg. Hofmann, Meineke.

Lorestān:

Khorramābād: Badrābād, 1200m., 13.V.1994, 1♂, leg. Sarafrāzi, Hāshemi.

Semnān:

Eyvānakey: Ahmadābād, 1450m., 26.V.1982, 1♀, leg. Hāshemi.

Tehrān:

Tehrān: Pārchin (40 km. E. Tehrān), 1360m., 2.V.2005, 1♂, leg. Zahiri, Fibiger.

Yazd:

Taft (S. W.): Shirkuh, Dāmāk, Aliābād, 2550–2650m., 4.–6.VI.2005 (without abdomen), leg. Hofmann, Meineke.

Zanjān:

Zanjān- Bijār Rd.: 50 km. S. W. Zanjān, 1700m., 28.VI.1975, 1♀, leg. Pāzuki.

***Marasmarcha ehrenbergianus* (Zeller, 1841)**

Material examined:

Āzarbāijān-e Gharbi:

Khoy: Mārmishou, N 37°34'26", E 44°37'25", 1760m., 18.VII.2005, 1♀, leg. Zahiri, Golmohammadzādeh-Khiābān.

Sardasht (15 km. N. E.): 23.VI.1975, 5♂♂, leg. Abāi.

Takāb- Shāhindezh Rd.: N 36°32'19.7", E 046°41'43.9", 1521m., 2.VII.2013, 4♂♂ 7♀♀, leg. Afsariān.

Āzarbāijān-e Sharghi:

Tabriz: Gharachaman, 1100m., 23.VI.1985, 2♂♂, leg. Mirzāyāns, Pāzuki; Gharachaman, 1600m., 15.VII.1976, 1♂, leg. Pāzuki, Borumand.

Ghazvin:

Alamut: Gāzorkhān, 2000m., 24.VII.1994, 1♂, leg. Ebrāhimi.

Kermānshāh:

Eslāmābād-e Gharb: Sorkhehdizeh, 1600m., 2.VII.1972, 1♂ 1♀, leg. Mirzāyāns, Abāi; Sorkhehdizeh, 18.VI.1975, 1♀, leg. Nuri.

Javānrūd- Tāzehābād Rd.: 10 km. W. Javānrūd, Azizābād, N 34°48'8.7", E 46°27'43.5", 29.V.2007, 1260m., 2♂♂, leg. Nāserzādeh, Montreuil, Zahiri.

Kangāvar (5 km. E.): 1500m., 29.VI.1972, 1♂, leg. Mirzāyāns, Abāi.

Kermānshāh: 18.VI.1975, 1♂, leg. Abāi; Kermānshāh, VII.1987, 1♂ 3♀♀, leg. Nuri.

Pāveh- Nowsud Rd.: Komeh Darreh, N 35°06'22", E 46°18'18", 1170m., 29.V.2007, 1♂, leg. Zahiri.

Pāveh (8 km. N.): Sār Darreh, N 35°04'9.1", E 46°21'54.6", 1630m., 28.V.2007, 2♂♂, leg. Zahiri.

Sar-e Pol-e Zahāb: 5 km. S. Rijāb, N 34°27'9.9", E 46°00'51.4", 1300m., 24.V.2007, 3♂♂ 4♀♀, leg. Zahiri; S. E. Sar-e Pol-e Zahāb, Sagān, Navā Mt., N 34°14'12.7", E 46°7'44", 1270m., 26.V.2007, 3♂♂, leg. Zahiri.

Kordestān:

Bāneh (25 km. E.): 1950m., 4.VII.1975, 1♂, leg. Pāzuki.

Marivān: Miān Dāgh, 2000m., 6.VII.1972, 1♀, leg. Mirzāyāns, Abāi.

Ravānsar: 20.VI.1975, 1♀, leg. Abāi.

Saghez- Bāneh Rd.: 45 km. S. W. Saghez, 2000m., 30.VI.1975 (without abdomen), leg. Pāzuki.

Sanandaj (28 km. E.): 1600m., 6.VI.1975, 1♂, leg. Abāi.

Zanjān:

Tārom: Gilvān, Gharghāvol Dāgh, 2500m., 26.–27.VI.2001, 1♂, leg. Hofmann, Meineke, Tremewan; Gilvān, 1400m., 21.VI.2006, 2♂♂, leg. ten-Hagen.

Zanjān- Gilvān Rd. (N.): 1400m., 21.VI.2006, 2♂♂, leg. ten Hagen.

***Marasmarcha iranica* Arenberger, 1999**

Material examined:

Chāhārmahāl va Bakhtiāri:

Shahrekord: 21.VII.1974, (without abdomen), leg. Hāshemi, Zairi.

Kermān:

Bāft: 6.VI.1971, 1♂, leg. Hāshemi, Naim.

Bardsir: Lālehzār, 6.VI.1971, 1♂, leg. Hāshemi, Naim.

***Marasmarcha rhypodactylus* (Staudinger, 1870)**

Material examined:

Hormozgān:

Jāsk: Bashāgard, N. Tidar, Bākhun Mt., N 27°58'26.8", E 56°15'31.3", 1330m.,
25.IV.2006, 1 ♀, leg. Tarmann, Plössl.

Kermān:

Jiroft: Esfandagheh, Sargaz, 1650m., 20.V.1977, 2♂♂, leg. Safavi, Pāzuki.

Kermān: Gardaneh-e Khāneh Sorkh, N 29°78', E 55°99', 8.VI.1998, 2400–
2500m., 1♂, leg. Möllet.

Kermānshāh:

Eslāmābād-e Gharb: Sorkhehdizeh, 1600m., 2.VII.1972, 1♂, leg. Mirzāyāns, Abāi.

Kermānshāh: 18.VI.1975, 1♂, leg. Abāi.

Tribe: **Oxyptilini** Bigot, Gibeaux, Nel & Picard, 1998

Genus: ***Procapperia*** Adamczewski, 1951

***Procapperia amira* Arenberger, 1988**

Material examined:

Khorāsān-e Razavi:

Neyshābur: Binālud Mt., 2♂♂, 2800–3000m., 24.VII.2000, leg. Möllet.

***Procapperia linariae* (Chrétien, 1922)**

Material examined:

Alborz:

Sāvojbolāgh: E. Gatehdeh, Elburz Mts, N 36°10'39.6", E 51°02'20.9", 2260m.,
31.VII.–01.VIII.2007, 1♂, leg. Ālipanāh.

Taleghān: 8 km. W. Zidasht, 2200m., 10.–13.VI.1977, 1♀, leg. Pāzuki,
Mortazavihā.

Ardebil:

Meshkinshahr: Sabalān, N 33°27'10.7", E 47°50'38.8", 1680m., 15.IX.2008, 3♂♂,
leg. Ālipanāh, Buszko, Falsafi.

Āzarbāijān-e Sharghi:

Kaleybar: Āinālou, Alhord, Arasbārān forest, N 38°55'1.1", E 46°47'38", 1440m.,
28.VII.2007, 3♀♀ 4♂♂, leg. Zahiri, Ālipanāh, Falsafi; Kaleybar, 16.IX.2008,
1♂, leg. Buszko; Arasbārān forest, Āsheghlou- Vāyeghān Rd., N 38°58'04.3",
E 46°42'27.6", 513m., 17.IX.2008, 1♀, leg. Buszko, Ālipanāh, Falsafi.

Khodāāfarin: Arasbārān forest, Gandomnān, N 38°52'25", E 48°52'12",
15.VII.2005, 1280m., 3♀♀ 2♂♂, leg. Zahiri, Golmohammadzādeh-Khiābān.

Miyāneh: Bozghoush Mt., Turkamanchāy, Kalhor, N 37°42'27", E 47°22'25",
2150m., 12.VII.2005, 1♂, leg. Zahiri.

Esfahān:

Natanz: Natanz- Targh Rd., Karkas Mt., Mazdeh, N 33°23'45", E 51°61'03",
2150m., 15.VI.2005, 4♀♀, leg. Zahiri, Nematīān, Falsafi.

Gilān:

Lowshān, Bivarzin, 900m., 27. –28.V.1997, 1♂, leg. Badii, V. Nazari, Sarafrāzi.

Golestān:

Jalin- Shāhrud Rd.: Shāhkuh-e Bālā, 2400m., 19.VII.2003, 4♂♂ 4♀♀, leg.
Ālipanāh, Ebrāhimi.

Kermān:

Bāft- Jiroft Rd.: 55 km. to Jiroft, Shingerā, 2800m., 22.–25.V.2004, 1♀, leg. Rajāei.

Kohgiluyeh va Boyerahmad:

Yāsuj: Sisakht, N 30°53'46", E 51°25'10", 2430m., 22.VI.2005, 3♀♀, leg. Zahiri, Nematiān, Falsafi.

Kordestān:

Saghez- Bāneh Rd.: 10 km. to Bāneh, Gardaneh-e Khān, N 36°04'13", E 045°59'31", 1976m., 26.–27.VI.2009, 1 ♀, leg. Rajāei, Meineke, Hofmann.

Zanjān:

Tārom: Gilvān, Gharghāvol Dāgh, 2500m., 26, 27.VI.2001, 1♂, leg. Hofmann, Meineke, Tremewan.

Genus: *Capperia* Tutt, 1905

***Capperia fusca* (Hofmann, 1898)**

Material examined:

Golestān:

Golestān National Park: Tang-e Gol, 700m., 27.VII.1995, 1♀, leg. Ebrāhimi, V. Nazari.

Semnān:

Golestān National Park: Dasht-e Shād, 1390m., 25.–26.VII.1995, 1♀, leg. Ebrāhimi, V. Nazari.

***Capperia maratonica* Adamczewski, 1951**

Material examined:

Bushehr:

Dayyer: Domeygez, 0m., 20.–22.IV.1999, 1♀, leg. Kalānaki, Mofidi-Neyestānak.

Kangān (10 km. N. W.): 70m., 21.IV.1977, 1♀, leg. Pāzuki, Hāshemi.

Esfahān:

Dārān: Āshān, 2500m., 25.VI.2005, 1♂, leg. Hofmann.

Natanz: Natanz-Targh, Karkas Mt., Mazdeh, N 33°23'45", E 51°61'03", 2150m., 15.VI.2005, 1♀, leg. Zahiri, Nematiān, Falsafi; Tāmeḥ, 2000m., 19.VI.1988, 1♀, leg. Hāshemi, Badii; Targh, 2630m., 8.VIII.2003, 1♀ 4 ♂♂, leg. Ghayurfar, Trusch, Ebert, Nematiān.

Gilān:

Asālem: Parehsar, 950m., 14.VIII.1974, 1♂, leg. Mirzāyāns, Abāi.

Kertmān:

Bam: Dehbakry, 2400–2600m., 21, 22.V.2004, 1♀, leg. Rajāei.

Jiroft: Esfandagheh, Sargaz, 1650m., 20.V.1977, 1♀, leg. Safavi, Pāzuki.

Tehrān:

Firuzkuh: Chehel Cheshmeh Mt., 1930m., 29.VII.1996, 1♀, leg. Ebrāhimi, V. Nazari.

***Capperia salanga* Arenberger, 1995**

Material examined:

Chāhārmahāl va Bakhtiāri:

Borujen (S.): 6 km. S. Dorāhun, 1850–2100m., 1.VI.2005, 1♀, leg. Hofmann, Meineke.

Khorāsān-e Shomāli:

Āshkhāneh (6 km. S. W.): Mehmānak, N 37°29'36.5", E 056°52'27.6", 1040m., 17.VI.2013, 1♂, leg. Ālipanāh, Falsafi.

Bojnurd (15 km. W.): N 37°31'31.6", E 057°08'08.4", 1058m., 16.VI.2013, 1♂, leg. Falsafi, Ālipanāh.

Khorāsān-e Razavi:

Ghuchān- Bājgirān Rd.: 46 km. N. Ghuchān, Dorbādām protected area, N 37°25'25.5", E 058°31'34.0", 1800m., 20.VI.2013, 2♂♂ 3♀♀, leg. Ālipanāh, Falsafi.

Tehrān:

Rudehen: Ābali, Mobārakābād, 26.V.2005, 1♂ 1♀, leg Hofmann.

***Capperia washbourni* Adamczewski, 1951**

Material examined:

Chāhārmahāl va Bakhtiāri:

Borujen (S.): 6 km. S. Dorāhun, 1850–2100m., 1.VI.2005, 1♂, leg. Hofmann, Meineke.

Esfahān:

Kāshān (15 km. S. W.): Niāsar, 31.V.2005, 1♂, leg Gelbrecht.

Natanz: Natanz- Targh, Karkas Mt., Mazdeh, N 33°23'45", E 51°61'03", 2150m., 15.VI.2005, 1♀, leg. Zahiri, Nematīān, Falsafi.

Fārs:

Eghlid (S. S. E.): Bel Mt., Darreh-e Ābsad, 2700–3000m., 7.VI.2005, 1♀, leg. Hofmann, Meineke.

Neyriz: Poshtkuh, Moshkān, 2250m., 29.V.2004, 1♀, leg. Rajāei.

Khorāsān-e Razavi:

Chenārān (N.): N. Rādkān, Dalameh-e Olyā, N 36°55'56.6", E 059°2'18.6", 1560m., 8.–9.V.2008, 1♀, leg. Trusch, Falkenberg, Müller.

Khorāsān-e Shomāli:

Bojnurd: Kopet Dāgh, Izmān, 17.V.2005, 1♀, leg. Falsafi, Nematīān; 50 km. N. Bojnurd, Kopet Dāgh, Izmān-e Soflā, N 37°44'20", E 057°25'53", 1240m., 17.–19.V.2005, 2♂♂, leg. Trusch, Petschenka, Müller.

Genus: ***Oxyptilus*** Zeller, 1841

***Oxyptilus parvidactylus* (Haworth, 1811)**

Material examined:

Kordestān:

Marivān: 2 km. to Sardoush, N 35°32'00.3", E 046°04'38.4", 1419m., 2.VI.2012,
1♂, leg. Ālipanāh, Falsafi.

Genus: *Crombrugghia* Tutt, 1906

***Crombrugghia distans* (Zeller, 1847)**

Material examined:

Alborz:

Sāvojbolāgh: E. Gatehdeh, Elburz Mt., N 36°10'39", E 51°02'20.9", 2260m.,
31.VII.–01.VIII.2007, 1♀, leg. Zahiri, Ālipanāh, Falsafi.

Āzarbāijān-e Sharghi:

Kaleybar: Ainālou, Alhord, Arasbārān forest, N 38°55'1.1", E 46°47'38", 1440m.,
28.VII.2007, 1♀, leg. Zahiri, Ālipanāh, Falsafi.

Khorāsān-e Shomālī:

Āshkhāneh (6 km. S. W.): Mehmānak, N 37°29'36.5", E 056°52'27.6", 1040m.,
17.VI.2013, 1♀, leg. Ālipanāh, Falsafi.

***Crombrugghia laeta* (Zeller, 1847)**

Material examined:

Āzarbāijān-e Gharbi:

Takāb- Shāhindezh Rd.: N 36°32'19.7", E 046°41'43.9", 1521m., 2.VII.2013, 1♀,
leg. Afsariān.

Āzarbāijān-e Sharghi:

Khodāāfarin: Arasbārān forest, Gandomnān, N 38°52'25", E 48°52'12", 1280m.,
15.VII.2005, 1♂, leg. Zahiri, Golmohammadzādeh-Khiābān.

Chāhārmahāl va Bakhtiāri:

Ardal: Dopolān, Mashāyekh-e Bakhtiāri, Helen forest, N 31°53'50", E 50°34'56",
1800m., 23.VI.2005, 1♂, leg. Zahiri, Montreuil; Rostamābād, Surāb, Ghaleh-e
Sorkh, 2800m., 20.VI.2001, 1♀, leg. Hofmann, Meineke, Tremewan.

Esfahān:

Natanz: Lākaj, 1550m., 21.–23.IX.1996, 1♀, leg. Parchami-Arāghi, Barāri;
Natanz- Targh, Karkas Mt., Mazdeh, N 33°23'45", E 51°61'03", 2150m.,
15.VI.2005, 1♀, leg. Zahiri, Nematiān, Falsafi.

Fārs:

Kāzerun: Miān Kotal, 1900m., 11.VI.1972, (without abdomen), leg. Ebert, Pāzuki.
Neyriz: Poshtkuh, Moshkān, 2250m., 29.V.2004, 1♂ 1♀, leg. Rajāei.
Nurābād: Masiri, Kushk (30 km. S. Yāsuj), 2200m., 12.VI.1972, (without
abdomen), leg. Ebert, Pāzuki.
Shirāz: Dasht-e Arzhan, Chehel Cheshmeh, Zanganeh, 1800m., 17.V.1986, 1♀,
leg. Mirzāyāns, Hāshemi.

Ghazvin:

Ziārān: N 36°06'10", E 50°30'16", 1461m., 22.VII.2005, 1♀, leg. Zahiri.

Hamedān:

Hamedān: Arzanfūt, 2240m., 29.VII.1987, 1 ♀, leg. Mirzāyāns, Hāshemi; Darreh-
e Morādbeyk, 2200m., 25.–26.VIII.1995, 2♀♀, leg. Mirzāyāns, Badii.

Hormozgān:

Bandar Abbās: Hājiābād, 1140m., 25.IV.1996, (without abdomen), leg. Ardeh,
Badii, V. Nazari; Hājiābād, 1050m., 3.V.1996, leg. Badii, Ardeh, V. Nazari.
Jāsk: Bashāgard, N. Tidar, Bākhun Mt., N 27°58'26.8", E 56°15'31.3", 1330m.,
25.IV.2006, 1 ♀, leg. Tarmann, Plössl.

Kermān:

Bāft: Ghanāt-e Marvān, 2800m., 23.V.1977, 3♀♀, leg. Safavi, Pāzuki, Abāi.
Jiroft: Esfandagheh, Sargaz, 1650m., 20.V.1977, (without abdomen), leg. Safavi,
Pāzuki.
Shahdād: 670m., 31.V.1977, (without abdomen), leg. Safavi, Pāzuki, Abāi.
Sirjān- Bardsir Rd.: Gardaneh-e Khāneh Sorkh, N 29°78', E 55°99', 2400–2500m.,
8.VI.1998, 4♀♀, leg. Möllet.

Kermānshāh:

Eslāmābād-e Gharb: 1500m., 3.VII.1972, (without abdomen), leg. Mirzāyāns, Abāi; Kerend, Jalilvand, Emāmzādeh Panj Savār, N 34°13'1.4", E 46°32'5.1", 1740m., 22.–23.V.2007, 1♂ 4♀♀, leg. Zahiri.

Kermānshāh: Māhidasht, Chāhārzebar-e Olyā, 1500m., 21.VIII.1996, 1♂, leg. Parchami-Arāghi, Barāri, V. Nazari.

Sar-e Pol-e Zahāb: 5 km. S. Rijāb, N 34°27'9.9", E 46°00'51.4", 1300m., 24.V.2007, 1♂ 2♀♀, leg. Zahiri; S. E. Sar-e Pol-e Zahāb, Sagān, Navā Mt., N 34°14'12.7", E 46°7'44", 1270m., 26.V.2007, 4♂♂ 14♀♀, leg. Zahiri;

Khorāsān-e Shomālī:

Mashhad: Torogh, 4.VIII.1971, 1♂, leg. Zāre.

Khuzestān:

Izeh: Susan, 910m., 2.VI.1998, 1♀, leg. Mofidi-Neyestānak, Ebrāhimi.

Kohgiluyeh va Boyerahmad:

Meymand (5 km. N.): N. W. Denā Mt., 2210m., 18.–20.VIII.1976, 1♀, leg. Pāzuki, Borumand.

Yāsuj: Tang-e Sorkh, 12, 13.VI.1986, 1♂ 1♀, leg. Mirzāyāns, Hāshemi.

Kordestān:

Kāmyārān: Fārsābād, 1610m., 20.IX.2002, 1♂, leg. Moghaddam, Hājiesmailiān, Ebrāhimi.

Marivān: Kānisānān, 1320m., 9.VIII.2004, 1♂ 1♀, leg. Ghayurfar, Nematīān.

Sanandaj: N. W. Saghez- Bāneh Rd., 1950–2100m., 28.–29.VI.2005, 2♀♀, leg. Hofmann.

Lorestān:

Aznā: Oshtorānkuh, Kamandān, 2050m., 24.VII.1994, 1♂, leg. Mirzāyāns, Sarafrāzi; Oshtorānkuh, Kamandān, 2050m., 23.VIII.1995, 1♀, leg. Mirzāyāns, Badii; Oshtorānkuh, Narimān, 2400m., 4.–5.VIII.1975, 1♂, leg. Pāzuki; Oshtorānkuh, Dorud- Gahar lake Rd., before Cheshmeh Khorram, N

33°22'41", E 049°11'13", 2360m., 24.VI.2009, 1♀, leg. Rajāei, Meineke, Hofmann.

Aznā- Kamandān Rd.: 10 km. S. Aznā, Darreh Takht, 1840m., 6.VIII.2006, 1♂ 2♀♀, leg. Nāserzādeh, Nematīān.

Dorud: Hendikosh, 2.V.2004, 1♂, leg. Zahiri, Nematīān.

Khoramābād: Badrābād, 1200m., 13.V.1994, 1♀, leg. Sarafrāzi, Hāshemi.

Pol-e Dokhtar: Malāvi, 730m., 14.V.1975, (without abdomen), leg. Pāzuki, Borumand.

Pol-e Zāl (N. Andimeshk): 25.IV.1976, 1♂, leg. Pāzuki, Abāi.

Sistān va Baluchestān:

Sarāvān: Bakhshān, 1250m., 5.VI.1996, 2♀♀, leg. Mirzāyāns, Borumand, Faghīh, Ebrāhimi.

Tehrān:

Tehrān: Evin, 22.VII.1973, 1♂, leg. unknown; 1600m., 8.VI.1972, (without abdomen), leg. unknown; Parchin (40 km. E. Tehrān), 1350m., 2.V.2005, 2♀♀, leg. Fibiger, Zahiri.

Zanjān:

Tārom: Darrām, Pāveh Rood., N 37°02'58.2", E 048°44'46.4", 497m., 27.VI.2013, 3♂♂ 2♀♀, leg. Afsariān.

***Crombrugghia tristis* (Zeller, 1841)**

Material examined:

Alborz:

Āzādbar: 2400m., 7.-9.V.1995, 1♂, leg. Sarafrāzi, Badii, Linnavori; 6 km. E. Āzādbar- Tāleghān Rd., 2350m., 21.VII.1988, (without abdomen), leg. Mirzāyāns, Badii.

Ardebil:

Meshkinshahr: Sabalān, Ghotur Suiee, N 38°21'53.9", E 47°51'43.4", 2276m.,
25.–26.VII.2007, 1♂, leg. Ālipanāh, Zahiri, Falsafi.

Āzarbāijān-e Sharghi:

Miyāneh: Bozghush Mt., Torkamānchāy, Kalhor, N 37°42'27", E 47°22'25",
2150m., 12.VII.2005, 2♂♂ 1♀, leg. Zahiri, Golmohammadzādeh-Khiābān.

Fārs:

Kāzerun (30 km. N.): Tang-e Chogān, 930m., 23.III.1973, 1♂, leg. Abāi.

Golestān:

Gorgān: Aliābād, Shirinābād, 22.V.2005, 1♀, leg. Falsafi, Nematian.

Māzandarān:

Āmol: Chamestān, 1 km. after Jurband, N 36°41'37.2", E 050°50'20.6", 441m.,
27.VI.2007, 1♂, leg. Ālipanāh.

Genus: *Sphenarches* Meyrick, 1886

***Sphenarches anisodactyla* (Walker, 1864)**

Material examined:

Āzarbāijān-e Gharbi:

Orumiyeh (15 km. S.): 2.IV.1975, 1♂, leg. Abāi.

Genus: *Megalorhipida* Amsel, 1935

***Megalorhipida leucodactylus* (Fabricious, 1794)**

Material examined:

Hormozgān:

Mināb: Gurband, N 27°19'50.1", E 56°59'29.7", 34m., 20.II.2012, 1♂, leg. Falsafi.

Lorestān:

Pol-e Dokhtar: Malāvi, 730m., 14.V.2005, 1♂, leg. Pāzuki, Borumand.

Genus: *Stangeia* Tutt, 1905

***Stangeia siceliota* (Zeller, 1847)**

Material examined:

Ardebil:

Meshkinshahr: Sabalān, N 38°27'10.7", E 47°50'38.8", 1680m., 15.IX.2008, 4♂♂,
leg. Ālipanāh, Buszko.

Āzarbāijān-e Gharbi:

Orumiyeh: Ghoushchi, 1700m., N 38°03'27", E 44°59'23", 1♂ 1♀, leg. Zahiri,
Golmohammadzādeh-Khiābān.

Bushehr:

Asaluyeh: Chāh-e Mobārak, Khalij-e Nāyband, 27.XI.1998, 1 ♀, leg. Ghayurfar,
Barāri, Mofidi-Neyestānak.

Kordestān:

Marivān: N 35°29'52.6", E 046°10'12.06", 1392m., 11.IX.2011, 1♀, leg. Ālipanāh,
Falsafi.

Lorestān:

Aznā: Darband, 1700m., 5 –6.VI.2000, (without abdomen), leg. Badii, Mofidi-
Neyestānak.

Genus: *Stenodacma* Amsel, 1959

***Stenodacma wahlbergi* (Zeller, 1852)**

Material examined:

Kermān:

Jiroft: Narāb, 900m., 16.XI.1999, 1♂, leg. Badii, Barāri, Mofidi-Neyestānak.

Sistān va Baluchestān:

Irānshahr: Daman, N 27°22'43.3", E 60°47'65.01", 737m., 21.IV.2012, 6♂♂ 5♀♀,
leg. Afsariān, Moghaddam, Mozaffariān.

Genus: *Buckleria* Tutt, 1905

Buckleria paludum (Zeller, 1839)

Material examined:

Ardebil:

Meshkinshahr: Sabalān, N 38°27'10.7", E 47°50'38.8", 1680m., 15.IX.2008, 2♂♂,
leg. Ālipanāh, Buszko.

Tribe: **Oidaematophorini**

Genus: *Puerphorus* Wallengren, 1881

Puerphorus olbiadactylus (Millière, 1859)

Material examined:

Kermān:

Bāft: 1 km. N. Torong, Torong Mt., N 28°46'39.3", E 56°48'47.9", 2220m.,
23.IV.2006, 1♂, leg. Tarmann, Plössl.

Genus: *Pselnophorus* Wallengren, 1881

Pselnophorus poggei (Mann, 1862)

Material examined:

Māzandarān:

Sāri: Amreh forest, 500m., 10.VI.2005, 1♀, leg. Ālipanāh, Nematiān, Sinev.
Nekā: N 36°30'16.7", E 053°23'27", 527m., 30.IX.2007, 1♂ 1♀, leg. Ālipanāh,
Buszko, Zahiri.

Genus: *Pterophorus* Schäffer, 1766

Pterophorus ischnodactylus (Treitschke, 1835)

Material examined:

Golestān:

Golestān National Park: Savār- Ghush Cheshmeh Rd., N 37°31'02.4", E 055°44'43.3" 849m., 1.IX.2009, 1♀, leg. Ālipanāh, Buszko.

***Pterophorus pentadactyla* (Linnaeus, 1758)**

Material examined:

Āzarbāijān-e Gharbi:

Orumiyeh: Sizvand Mt., 24.VI.1970, 1♀, leg. Pāzuki.

Gilān:

Asālem: Shondol, 950m., 9.VII.1974, 1♀, leg. Mirzāyāns, Farahbakhsh; Asālem, Pisāson, 750m., 13.VIII.1974, 1♂, leg. Mirzāyāns; Pisāson, 1300m., 16.–19.VIII.1980, 1♀, leg. Pāzuki, Borumand.

Āstārā: Hazelnut Res. St., N 37°07'32.8", E 049°11'19.4", 28m., 30.VI.2008, 1♂ 1♀, leg. Nematīān, Ālipanāh.

Rāmsar: Jannt Rudbār, N 36°49'9.84", E 50°39'49.74", 721m., 4.VII.2011, 1♀, leg. Ālipanāh, Nematīān.

Golestān:

Bandar-e Gaz: Kārkandeh, 5.VII.2003, 2♀ 1♂, leg. Rajāei.

Golestān National Park: Tang-e Gol, 620m., 23.–25.V.1986, 1♀, leg. Pāzuki; Tang-e Gol, Koylar, N 37°30'42.5", E 055°50'48.8", 1306m., 2.IX.2009, 1♀, leg. Ālipanāh, Buszko; Savār- Ghush Cheshmeh Rd., N 37°31'02.4", E 055°44'43.3", 849m., 1.IX.2009, 1♀, leg. Ālipanāh, Buszko.

Gorgān: Aliābād, Shirinābād, 22.V.2005, 1♂, leg. Nematīān, Falsafi.

Māzandarān:

Āmol: Mangol, Pāshākolāy-e Chelāv, leg. Moghaddam, Nematīān (without abdomen); Chamestān- Vāz Rd., N 36°21'46.9", E 052°06'03.1", 557m., 28.VI.2007, 1♀ 1♂, leg. Ālipanāh, Nematīān; Chamestān, Vāz- Gaznāsarā Rd., N 36°18'51.7", E 052°07'17.0", 1761m., 28.VI.2007, 1♀, leg. Ālipanāh, Nematīān.

Kelārdasht: Rudbārak, 1800m., 30.V.2005, 1♀, leg. ten Hagen.

Nowshahr: 6.VIII.1974 (without abdomen).

Rāmsar: Chālakrud, Ekrāsar, 1560m., 11.IX.1990, 1♂, leg. Ebrāhimi, Badii;
Rāmsar- Javāherdeh Rd. (km. 6), N 36°54'29.3", E 050°35'13.2", 550m.,
23.VII.2007, 1♀, leg. Zahiri, Ālipanāh, Falsafi.

Savādkuh: Pol-e Sefid, Dodāngeh, Sangedeh, 1997m., 7.IX.2003, 1♀, leg.
Moghaddam, Nematīān.

Shirgāh: Gārou, 180m., 30.VI.2003, (without abdomen), leg. Gilāsiān,
Hājiesmailiān.

Tonekābon: 11.VII.1974, 1♀, leg. Abāi; Dohezār, 1000m., 9.VI.2005, 1♀, leg.
Nematīān, Ālipanāh, Sinev.

Genus: *Hellinsia* Tutt, 1905

Hellinsia distinctus (Herrich-Schäffer, 1855)

Material examined:

Kermān:

Jiroft: Dalfārd, N 29°00'14.3", E 057°36'45.3", 2112m., 27.IV.2012, 1♀, leg.
Afsariān, Moghaddam, Mozaffariān.

Hellinsia pectodactylus (Staudinger, 1859)

Material examined:

Kermān:

Bāft- Jiroft Rd.: Shingerā, 2800m., 22, 23.V.2004, 1♀, leg. Rajāei.

Kermān: Rāyen, Hezār Mt., 2600–2800m., 26.V.2004, 2♂♂, leg. Rajāei.

Yazd:

Taft: N. Nir, N 31°35', E 54°00', 2505m., 17.V.2004, 1♂, leg. Flutsch, Möllet.

***Hellinsia carphodactyla* (Hübner, [1813])**

Material examined:

Golestān:

Golestān National Park: Koylar, N 37°30'42.5", E 055°50'48.8", 1306m.,
2.IX.2009, 2♂♂ 11♀♀, leg. Ālipanāh, Buszko; Savār- Ghush Cheshmeh Rd.,
N 37°31'02.4", E 055°44'43.4", 849m., 1.IX.2009, 1♀, leg. Ālipanāh, Buszko.

Genus: ***Oidaematophorus*** Wallengren, 1862

***Oidaematophorus lithodactylus* (Treitschke, 1833)**

Material examined:

Āzarbāijān-e Sharghi:

Khodāāfarin: Arasbārān forest, Gandomnān, N 38°52'25", E 48°52'12", 1280m.,
1♂, leg. Zahiri, Golmohammadzādeh-Khiābān.

Genus: ***Emmelina*** Tutt, 1905

***Emmelina argoteles* (Meyrick, 1922)**

Material examined:

Fārs:

Kāzerun: 970m., 10.X.1994, 1♂, leg. Abāi.

Māzāndarān:

Nowshahr: Nāyrank, 0m., 10.X.1995, 1♀, leg. Rezwāni, Badii, Ebrāhimi.

Tonekābon: Dohezār, N 36°40'32.1", E 50°49'33.6", 422m., 3.VII.2011, 1♂, leg.
Ālipanāh, Nematīān.

***Emmelina monodactyla* (Linnaeus, 1758)**

Material examined:

Alborz:

Karaj: Kalhā, 2000m., 25.–26.VIII.1996, 1♂, leg. Barāri, Badii, Sarafrāzi; Karaj, Dāneshkadeh, 29.IX.1964, 1♂, leg. Javān-Moghaddam; Kandovān, 2000m., 1.VIII.2002, 1♀, leg. Dantchenko.

Tāleghān: 26.–31.VII.1976, (without abdomen), leg. Kāviān.

Ardebil:

Ardebil: Ardebil- Khalkhāl Rd., Ardebil Res. St., N 38°10'14.6", E 048°23'27.9", 1320m., 14.IX.2008, 1♀ 4♂♂, leg. Ālipanāh, Buszko.

Meshkinshahr: Sabalān, Ghotur Suiee, N 38°21'53.9", E 47°51'43.4", 2270m., 25.–26.VII.2007, 1♂, leg. Ālipanāh, Zahiri, Falsafi.

Pārsābād: 80m., 19.V.2004, (without abdomen), Ghayurfar, Gilāsiān.

Āzarbāijān-e Gharbi:

Khoy: Habasheh-e Soflā, 1825m., 19.–20.VIII.1994, 1♀, leg. Ebrāhimi,

Māku: Sangar, N 39°18'37.5", E 44°26'8.52", 1004m., 16.IX.2011, 1♀, leg. Ālipanāh, Falsafi.

Orumiyeh: Silvāneh, Rāzhān (30 km. S. W. Orumiyeh), 1650m., 24.VII.1976, 1♂, leg. Pāzuki, Borumand.

Takāb: Takht-e Soleymān, N 36°35'40.0", E 047°19'43.5", 2528m., 1.VII.2013, 1♂, leg. Afsariān.

Āzarbāijān-e Sharghi:

Jolfā: Nourduz, Aras river, 520m., N 38°53'59", E 46°17'53", 14.VII. 2005, 2♀♀, leg. Zahiri, Golmohammadzādeh-Khiābān

Kaleybar: Vināgh, 800m., 7.–8.VIII.1992, 1♀, leg. Parchami-Arāghi, Badii.

Khalkhāl (62 km.): 1500m., 29.VII.1976, (without abdomen), leg. Pāzuki, Borumand.

Tabriz: Kalātpushān, 26.VIII.1974, 1♂ 1♀, leg. Mashāyekhi; Kalātpushān, N 38°01'25", E 46°25'33", 1680m., 16.VII.2005, 1♀, leg. Zahiri, Golmohamazādeh-Khiābān.

Esfahān:

Kāshān: Ghamsar, Ghohrud, 2400m., 2.VI.2005, 1♀, leg. Gelbrecht; Niāsar, Sericheh, 1650m., 29.–31.VII.1983, 1♂ 1♀, leg. Pāzuki, Hāshemi.
Meymeh (35 km. N.): 2050m., 6.VIII.1978, 1♂, leg. Pāzuki, Borumand.

Fārs:

Firuzābād: 1330m., 28.X.1997, 1♀, leg. Moghaddam, Barāri, Mofidi-Neyestānak
Kāzerun: Tang-e Chogān, 900m., 9.V.1974, (without abdomen), leg. Abāi, Pāzuki.
Jahrom: Khafr, Khāvarān, 1450m., 16.XI.1997, 1♀, leg. V. Nazari, Barāri, Mofidi-Neyestānak.

Ghom:

Kahak: Vesf, 2300m., 5.VIII.1988, 2♀♀, leg. Hāshemi.

Gilān:

Amlash: Rahimābād, Ziāz, N 36°52'11.0", E 50°13'48.0", 405m., 12.IX.2008, 1♀, leg. Ālipanāh, Buszko.
Asālem: Sheikh Mahal, 160m., 28.–30.VI.1977, 1♀, leg. Pāzuki, Mortazavihā;
Pisāson, 1300m., 15.–16.VIII.1980, 1♂ 1♀, leg. Pāzuki, Borumand; Pisāson, Asālem, 29.IX.1970, 1♀, leg. Abāi.
Āstārā: Hazelnut Res. St., N 37°07'32.8", E 049°11'19.4", 28m., 30.VI.2008, 1♀ 1♂, leg. Nematīān, Ālipanāh.
Āstārā- Ardebil Rd.: Meshend, Shāghouleh to Goudievlar Rd., N 38°23'32.3", E 048°35'59.2", 448m., 1.VII.2008, 2♂♂, leg. Ālipanāh, Baixeras, Nematīān.
Bandar-e Anzali: 15 km. Asālem- Pisāson Rd., 220m., 30.VIII.1975, 1♂, leg. Mirzāyāns.
Fuman: Gashtudkhān, N 38°15'15.2", E 47°23'52.1", 295m., 29.VI.2008, 1♀, leg. Nematīān, Ālipanāh.
Hashtpar, Rek, 570m., 31.VIII.1975, 1♂, leg. Mirzāyāns.
Lowshān: Bivarzin, 900m., 27.–28.V.1997, 1♀, leg. Badii, V. Nazari, Sarafrāzi.
Rudsar: 8.VIII.1969, (without abdomen), leg. Abāi.
Siāhkal: Mehrbān, 201m., 21.IX.2004, 1♂, leg. Moghaddam, Hājiesmailiān.

Golestān:

Aliābād: Kabudvāl, 200m., 22.VIII.1983, 1♀, leg. Borumand, Pāzuki.

Bandar-e Gaz: Kārkandeh, 5.VII.2003, 1♂, leg. Rajāei.

Golestān National Park: Tang-e Gol, 620m., 23.–25.V.1986, 2♂♂ 1♀, leg. Pāzuki; Tang-e Gol, 700m., 27.VII.1996, 2♀♀, leg. Ebrāhimi., V. Nazari; Tang-e Gol, 720m., 29.–30.XI.1998, 2♂♂ 1♀, leg. Manzari, Moghaddam, N. Nazari; Tang-e Gol, 5.V.1999, 1♂, leg. Moghaddam, Barāri, Manzari.

Gorgān: Shastkolā, 500m., 28.VII.1996, 1♂, 2♀♀, leg. Ebrāhimi, V. Nazari.

Hamedān:

Hamedān: Darreh-e Morādbeyk, 2200m., 25.–26.VIII.1995, 1♀, leg. Mirzāyāns, Badii.

Hormozgān:

Bandar Abbās: Sikhorān, 900m., 27.XI.1999, 1♀, leg. Badii, Barāri, Mofidi-Neyestānak.

Jāsk: Bashāgard, N. Tidar, Bākhun Mt., N 27°58'26.8", E 56°15'31.3", 1330m., 25.IV.2006, 1♀, leg. Tarmann, Plössl.

Kermān:

Bam: Dehbakry, 2400–2600m., 21, 22.V.2004, 1♀, leg. Rajāei.

Jiroft: Narāb, 900m., 16.XI.1999, 5♀♀, leg. Badii, Barāri, Mofidi-Neyestānak; Dalfārd, 1100m., 14.XI.1999, 2♀♀, leg. Badii, Barāri, Mofidi-Neyestānak; Dalfārd, N 29°00'14.3", E 057°36'45.3", 2112m., 27.IV.2012, 1♀, leg. Afsariān, Moghaddam, Mozaffariān.

Kermān: Rāyen, Hezār Mt., 2600–2800m., 26.V.2004, 1♂, leg. Rajāei.

Khorāsān-e Razavi:

Kāshmar: 24.VII.1971, 1♀, leg. Pāzuki, Āyatollāhi.

Mashhad: Torogh, 23.VII.1973, 1♀, leg. Zāre.

Khorāsān-e Shomālī:

Āshkhāneh (6 km. S. W.): Mehmānak, N 37°29'36.5", E 056°52'27.6", 1040m., 17.VI.2013, 1♂, leg. Ālipanāh, Falsafi.

Bojnurd (15 km. W.): N 37°31'31.6", E 057°08'08.4", 1058 m, 16.VI.2013, 1♂, leg. Falsafi, Ālipanāh.

Ghuchān- Bājgirān Rd.: 46 km. N. Ghuchān, Dorbādām protected area, N 37°25'25.5", E 058°31'34.0", 1800m., 20.VI.2013, 1♂, leg. Ālipanāh, Falsafi.

Kordestān:

Marivān: Kānisānān, 1320m., 9.VIII.2004, 6♀♀, leg. Ghayurfar, Nematīān.

Khuzestān:

Dezful: Safiābād, 150m., 23.IV.1995, 1♀, leg. Parchami-Arāghi, Ardeh, Badii.

Lorestān:

Aznā: Oshtorānkuh, Kamandān, 2050m., 23.VIII.1995, 1♀, leg. Mirzāyāns, Badii.

Aznā- Kamandān Rd.: 10 km. S. Aznā, Darreh Takht, 1840m., 6.VIII.2006, 1♂ 1♀, leg. Nāserzādeh, Nematīān.

Khorramābād: Manuchehrābād, 1150m., 4.V.1994, 1♀, leg. Hāshemi, Sarafrāzi.

Māzandarān:

Āmol: 250m., 28.X.1970, (without abdomen), leg. Mirzāyāns, Ebert.

Nekā: Estakhrposht, 820m., 6.IX.2003, 2♀♀, leg. Moghaddam, Nematīān; S. Nekā, Nekā Choob, Nahālestān, Vanāmak, E. Elburz Mt., N 36°30'29.2", E 53°23'23.4", 16.–17.IX.2007, 8♀♀, leg. Zahiri, Falsafi.

Nur: 10 km. E. Baladeh, Eel, N 36°19'12.4", E 051°55'37.6", 2308m., 5, 6.VII.2005, 1♀, leg. Moghaddam, Hājiesmailiān, Serri.

Rāmsar: Javāherdeh, Eshkatehchāl, 1152m., 26.VII.2002, 2♀♀, leg. Moghaddam, Nematīān; 4 km. E. Rāmsar, 8.IX.2005, 1♀, leg. Zahiri; 6 km. Javāherdeh, N 36°54'29.3", E 050°35'13.2", 554m., 23.VII.2007, 2♀♀, leg. Ālipanāh, Zahiri; Rāmsar, N 36°54'29.6", E 050°35'13.6", 6m., 23.VII.2007, 1♀, leg. Ālipanāh.

Sāri: 0m., 23.VI.1995, 1♀, leg. Mirzāyāns, Sarafrāzi, Badii; Kordekhil, 45m., 5.V.2000, 1♀, leg. Badii, Ebrāhimi, Moghaddam, Mofidi-Neyestānak.
Siāhbisheh: 3 km. to Kamarbon, N 36°13'51.7", E 051°24'45.3", 2557m., 21, 22.VII.2007, 1♀, leg. Ālipanāh, Falsafi, Zahiri.
Tonekābon: 30.IX.1981, 2♀♀, leg. Pāzuki; Tonekābon, Sehezār, Āsh Mahalleh, 750m., 7.IX.1990, 1♀, leg. Ebrāhimi, Badii; Tonekābon, Dohezār, Asal Mahalleh, 1400–1800m., 9.VIII.1999, (without abdomen), leg. Badii, Ebrāhimi, Mofidi-Neyestānak.

Semnān:

Shāhrud (S.): S. Shāvār Mt., 2030m., 26.–28.VIII.1983, 1♂ 1♀, leg. Borumand, Pāzuki; Shāhrud, N. W. Shāvār Mt., W. Tāsh, 2720–2720m., 24.VII.2005, 1♀, leg. Hofmann, Møllet; Shāvār-e Kuchek Mt., N 36°35', E 54°42', 2800–3500m., 24, 26.VII.2005, 1♂, leg. Hofmann, Møllet.

Tehrān:

Damāvand: Ābsard, 1900m., 3.–7.VII.1978, (without abdomen), leg. Pāzuki, Sabzevāri.
Firuzkuh: Hesārbon, 1600m., 5.–6.X.1981, (without abdomen), leg. Pāzuki.
Tehrān: Evin, 22.X.1970, (without abdomen), leg. Mirzāyāns; Pārchin (40 km. E. Tehrān), 1350m., 2.V.2005, 1♀, leg. Fibiger, Zahiri.
Varāmin: 14.VII.1949, 1♀, leg. Eghlidi.

Zanjān:

Soltāniyeh: Asadābād, 1750m., 14.VIII.1993, 1♀, leg. Ebrāhimi, Sarafrāzi.

Genus: *Adania* Tutt, 1905

Adaina microdactyla (Hübner, [1813])

Material examined:

Golestān:

Golestān National Park: Tang-e Gol, N 37°22'14.7", E 055°56'00.0", 718m.,
6.IX.2009, 1♀, leg. Ālipanāh, Buszko.

Māzandarān:

Āmol: Chamestān, Vāz, N 36°21'46.9", E 052°06'03.1", 557m., 28.VII.2007, 1♂,
leg. Ālipanāh, Nematīān leg.

Tribe: **Pterophorini** Bigot, Gibeaux, Nel & Picard, 1998

Genus: *Calyciphora* Kasy, 1960

Calyciphora golestonica Alipanah & Ustjuzhanin, 2005

Material examined:

Khorāsān-e Razavi:

Bājgirān: 7 km. W., Gharah Chegheh, Gharah Chegheh protected area, N
37°39'11.8", E 058°14'32.9", 2036m., 21.VI.2013, 2♀♀, leg. Ālipanāh,
Falsafi.

Mashhad (N. W.): N. Chenārān, N. Rādkān, Dalmi-e Olyā, N 36°55'56.6", E
059°2'18.6", 1560m., 8.–9.V.2008, 3♂♂ 2♀♀, leg. Trusch, Falkenberg,
Müller.

Khorāsān-e Shomālī:

Bojnurd (15 km. W.): N 37°31'31.6", E 057°08'08.4", 1058 m, 16.VI.2013, 1♂,
leg. Falsafi, Ālipanāh.

Golestān National Park: Ālmeh, 1650m., 17.–25.V.1988, 1♂, leg. Pāzuki,
(Holotype); Sulgerd, 1150m., 7.V.1999, 2♂♂ 1♀, leg. Moghaddam, Manzari,
Barāri (Paratypes).

Genus: *Tabulaephorus* Arenberger, 1993

Tabulaephorus djebeli (Arenberger, 1981)

Material examined:

Khorāsān-e Shomālī:

Golestān National Park: Sulgerd, 1100m., 23.–24.VIII.1984, 1♂, leg. Borumand, Mirzāyāns; Ālmeh, 1600m., 19.–20.VII.1985, 1♂, leg. Pāzuki; Ālmeh, 1600m., 1.IX.1987, 8♂♂ 2♀♀, leg. Pāzuki; Ālmeh, N 37°28'31.8", E 055°42'43.6", 1658m., 4.IX.2009, 4♂♂, leg. Ālipanāh, Buszko.

***Tabulaephorus decipiens* (Lederer, 1870)**

Material examined:

Alborz:

Karaj: Dizin, 17.VIII.1973, 1♂, leg. Ebert.

Golestān:

Jalin- Shāhrud Rd.: Shāhkuh-e Bālā, 2400m., 19.VII.2003, 1♂, leg. Ālipanāh, Ebrāhimi.

Semnān:

Shāhrud (25 km.): Shāvār Mt., 30.VII.2003, (without abdomen), leg. Rajāei; Shāvār Mt., N 36°35'2.35", E 54°42'9.42", 2855m., 21, 22.VII.2006, 2♂♂, leg. Flutsch, Möllet; Shāvār-e Kuchek Mt., N 36°35', E 54°42', 2800–3500m., 24.–26.VII.2005, 1♂, leg. Hofmann, Möllet.

***Tabulaephorus parthicus* (Lederer, 1870)**

Material examined:

Āzarbāijān-e Sharghi:

Miyāneh: Bozghush Mt., Torkamānchāy, Kalhor, N 37°42'27", E 47°22'25", 2150m., 12.VII.2005, 1♂, leg. Zahiri, Golmohammadzādeh- Khiābān.

Chāhārmahāl va Bakhtiāri:

Ardal (S. E.): N. Kalān Mt., 2900–3000m., 11.VII.2005, 2♂♂ 1♀, leg. Hofmann, Möllet.

Shalamzār (S.): Tang-e Chogān, 220m., 11.VII.1982, 1♂ 2♀♀, leg. Pāzuki, Borumand.

Esfahān:

Fereydunshahr: W. Meydānak, 2000m., 12.VII.2003, 1♂, leg. Hofmann, Meineke, Tremewan.

Natanz: N. Targh, Karkas Mt., 2600m., 8.VII.2003, 9♂♂ 9♀♀, leg. Ebert, Trusch.

Fārs:

Eghlid: Gardaneh-e Timārgun, 2650–2750m., 12.–14.VI.2001, 7♂♂, leg. Hofmann, Meineke, Tremewan.

Khorrambid: Safāshahr, 2150m., 19.VI.1986, 4♂♂, leg. Mirzāyāns, Hāshemi; Safāshahr, Ghāderābād (10 km. N. Fārs), 2100m., 28.V.1995, 2♂♂, leg. Möllet.

Golestān:

Jalin- Shāhrud Rd.: Shāhkuh-e Bālā, 2200m., 18.VII.2005, 1♂, leg. ten Hagen.

Kermān:

Bāft: Darreh Pahn, 1750m., 21.V.1977, 1♂, leg. Safavi, Pāzuki, Abāi.

Jiroft: Esfandagheh, Sargaz, 1650m., 20.V.1977, 1♀, leg. Pāzuki, Safavi; Jiroft-Esfandagheh Rd., 30 km. after Jiroft, N 28°43'42.8", E 057°26'41.0", 29.IV.2012, 1321m., 1♀, leg. Afsariān, Moghaddam, Mozaffariān.

Khorāsān-e Razavi:

Bājgirān: N 37°37'27.5", E 058°25'03.7", 1638m., 22.VI.2013, 1♂, Ālipanāh, Falsafi leg.

Khorāsān-e Shomālī:

Bojnurd (15 km. W.): N 37°31'31.6", E 057°08'08.4", 1058m. 16.VI.2013, 2♂♂ 1♀, leg. Falsafi, Ālipanāh.

Golestān National Park: Ālmeh, 1600m., 19.–20.VII.1985, 2♂♂, leg. Pāzuki.

Kohgiluyeh va Boyerahmad:

Lordegān: Denā, Gardaneh-e Meymand, 2450-2800m., 14.–15.VI.2001, leg. Hofmann, Meineke, Tremewan.

Lorestān:

Nurābād- Nahāvand Rd: 25 km. to Nahāvand, Gardaneh-e Garrin, N 34° 02' 48",
E 48° 20' 31", 2135m., 25.VI.2009, 1 ♀, leg. Rajāei, Meineke, Hofmann.

Markazi:

Narāgh: Gorān Mt. (N. E. Narāgh), 2500m., 6.VII.2003, 3♀♀ 2♂♂, leg. Ebert,
Trusch.

Genus: *Merrifieldia* Tutt, 1905

***Merrifieldia brandti* (Arenberger, 1981)**

Material examined:

Chāhārmahāl va Bakhtiāri:

Borujen (S.): 6 km. S. Dorāhun, 1850–2100m., 1.VI.2005, 3♀♀, leg. Hofmann,
Meineke.

Hamedān:

Razan (N.): Gardaneh-e Āvaj, 2300–2400m., 19.VI.1998, 1♀, leg. Hofmann,
Meineke.

Kordestān:

Saghez (45 km. N. W.): Saghez- Bāneh, 2000m., 30.VI.1975, 1♀, leg. Pāzuki.

***Merrifieldia calcarius* (Lederer, 1870)**

Material examined:

Golestān:

Golestān National Park: Yākhtikalān, 2.VII.1985, 2♀♀, leg. Pāzuki.

Khorāsān-e Shomālī:

Āshkhāneh (6 km. S. W.): Mehmānak, N 37°29'36.5", E 056°52'27.6", 1040m.,
17.VI.2013, 2♀♀, leg. Ālipanāh, Falsafi.

Bojnurd (15 km. S. W.): Ālā Dāgh Mt., Hesār Hoseini, 1500-1700m., 23.V.2007,
1♂, leg. ten Hagen; W. Bojnurd, E. Chamanbid, 1400m., 23.V.2007, 1♂, leg.

ten Hagen; 15 km. W. Bojnurd, N 37°31'31.6", E 057°08'08.4", 1058m.,
16.VI.2013, 1♀, leg. Falsafi, Ālipanāh.

Māzandarān:

Amol: Chamestān, Vāz to Gaznāsarā, N 36°18'51.7", E 052°07'17.0", 1761m.,
28.VI.2007, 1♂, leg. Ālipanāh, Nematīān.

Nur: 10 km. E. Baladeh, Eel, N 36°19'12.4", E 051°55'37.6", 2308m., 5,
6.VII.2005, 4♂♂ 1♀, leg. Moghaddam, Hājiesmailiān, Serri.

Rāmsar: 6 km. Javāherdeh, N 36°54'29.3", E 050°35'13.2", 554m., 23.VII.2007,
5♂♂ 1♀, leg. Ālipanāh, Zahiri.

Siāhbisheh: 3 km. to Kamarbon, N 36°13'51.7", E 051°24'45.3", 2557m., 21,
22.VII.2007, 1♂, leg. Ālipanāh, Falsafi, Zahiri.

***Merrifieldia caspius* (Lederer, 1870)**

Material examined:

Khorāsān-e Shomālī:

Āshkhāneh (6 km. S. W.): Mehmānak, N 37°29'36.5", E 056°52'27.6", 1040m.,
17.VI.2013, 2♂♂ 1♀, leg. Ālipanāh, Falsafi.

Bojnurd- Esfarāyen Rd.: Sāluk National Park, N 37°12'23.6", E 057°15'25.7",
1463m., 18.VI.2013, 1♂, leg. Falsafi, Ālipanāh.

Golestān National Park: Ālmeh, 1700m., 25.VII.2001, 2♂♂, leg. Gilāsiān, Mofidi-
Neyestānak, Ghayurfar; Sulgerd, 1150m., 20.–21.VII.1996, 1♀, leg. Ebrāhimi,
V. Nazari.

***Merrifieldia diwani* (Arenberger, 1981)**

Material examined:

Zanjān:

Zanjān- Bijār Rd.: 50 km. S. W. Zanjān, 1800m., 28.VI.1975, 1♀, leg. Pāzuki.

Kordestān:

Divāndareh (2 km. E.): 1900–2000m., 27.VI.2005, 1♀, leg. Hofmann.

***Merrifieldia farsi* (Arenberger, 1981)**

Material examined:

Chāhārmahāl va Bakhtiāri:

Borujen (S.): 6 km. S. Dorāhun, 1850–2100m., 1.VI.2005, 1♂, leg. Hofmann, Meineke.

Esfahān:

Esfahān: Jarghuyeh-e Olyā, Asadābād, N 31°45′, E 52°10′, 1800m., 9.V.2002, 2♂♂ 1♀, leg. Möllet, Flutsch.

Fārs:

Ābādeh: 3 km. S. Didegān, 1900m., 20.VI.1972, 1♀, leg. Ebert, Pāzuki.

Firuzābād: Muk, 1800m., 8.–9.V.1985, 1♂ 1♀, leg. Mirzāyāns, Hāshemi.

Khorrambid: Safāshahr, Ghāderābād (10 km. N. Fārs), 2100m., 28.V.1995, 1♂, leg. Möllet.

Shirāz: Dasht-e Arzhan, 1940m., 6.VI.1990, 1♀, leg. Ebrāhimi, Badii.

Hormozgān:

Dehbārez (38 km. S.): 270m., 29.IV.1986, 1♀, leg. Mirzāyāns, Hāshemi.

Kohgiluyeh va Boyerahmad:

Yāsuj: Denā, Ābsepāh, N 31°00′07″, E 51°20′34″, 2490m., 4♀♀, leg. Zahiri, Nematīān, Falsafi; Ganjegin, N 30°25′03″, E 51°44′17″, 2190m., 17.VI.2005, 1♀, leg. Zahiri, Nematīān, Falsafi.

Tehrān:

Rudehen: Ābali, Mobārakābād, 26.V.2005, 1♀, leg. Hofmann.

Yazd:

Taft: N. Nir, 2505m., 17.V.2004, 1♂, leg. Flutsch, Möllet; S. W. Taft, Shirkuh, Damak, Aliābād, 2550–2650m., 1♀, leg. Hofmann, Meineke.

***Merrifieldia leucodactyla* (Denis & Schiffermuller, 1775)**

Material examined:

Kordestān:

Saghez- Bāneh Rd.: 10 km. to Bāneh, Gardaneh-e Khān, N 36°04'13", E 045°59'31", 1976m., 26.–27.VI.2009, 1♀, leg. Rajāei, Meineke, Hofmann.

***Merrifieldia malacodactylus* (Zeller, 1847)**

Material examined:

Āzarbāijān-e Gharbi:

Orumiyeh (15 km. S.): 2.IV.1975, 3♂♂, leg. Abāi.

Takht-e Soleymān- Dandi Rd.: Gharghāvol Khāneh, N 36°37'06", E 47°18'42", 2335m., 30.VI.2009, 1♂, leg. Rajāei, Meineke, Hofmann.

Kermān:

Bāft- Jiroft Rd.: Shingerā, 2800m., 22, 23.V.2004, 1♂, leg. Rajāei.

Bam: Dehbakry, 2400–2600m., 21, 22.V.2004, 2♂♂ 1♀, leg. Rajāei.

Semnān:

Golestān National Park: Dasht-e Shād, 1390m., 25.–26.VII.1995, 1♀, leg. Ebrāhimi, V. Nazari.

***Merrifieldia tridactyla* (Linnaeus, 1758)**

Material examined:

Alborz:

Karaj: Kandovān, 2600m., 3.–4.VII.1995, 1♀, leg. Sarafrāzi, Linnavori, Badii.

Āzarbāijān-e Gharbi:

Māku (W.): Ghezel Bolāgh, 27.VII.1976, 1♂, leg. Pāzuki, Borumand.

Genus: ***Wheeleria*** Tutt, 1905

***Wheeleria elbursi* (Arenberger, 1981)**

Material examined:

Alborz:

Karaj: Arangeh, 1550m., 15.VI.1972, 2♂♂, leg. Mirzāyāns, Abāi, Kāviān, Ghāziof.

Āzarbāijān-e Gharbi:

Bāzargān (15 km.): 1450m., 5.VI.1975, 2♂♂, leg. Abāi.

Esfahān:

Meymeh (20 km. N.): 2100m., 31.V.2005, 1♂, leg. Hofmann, Meineke.

Tirān: Cheshmeh Khodādād, 2125m., N 32°51'29", E 51°05'03", 1♂, leg. Ebrāhimi, Hājiesmailiān.

Gilān:

Lowshān: Bivarzin, 900m., 27.–28.V.1997, 4♂♂, leg. Sarafrāzi, Badii, V. Nazari.

Hamedān:

Razan (N.): Gardaneh-e Āvaj, 2300–2400m., 19.VI.1998, 4♂♂ 4♀♀, leg. Hofmann, Meineke.

Lorestān:

Aznā: Oshtorānkuh, Dorud- Gahar lake Rd., before Cheshmeh Khorram, N 33°22'41", E 049°11'13", 2360m., 24.VI.2009, 1♀, leg. Rajāei, Meineke, Hofmann.

Semnān:

Dāmghān (20 km. N.): Cheshmeh Ali, 1560m., 23.–24.V.2005, 1♂, leg. Falsafi, Nematiān; Dāmghān (95 km. S.), N. Moallemān, Dārestān Mt., N 35°19'01", E 054°27'17", 1540m., 15.V.2005, 4♂♂ 6♀♀, leg. Trusch, Petschenka, Müller.

***Wheeleria kabuli* (Arenberger, 1981)**

Material examined:

Māzandarān:

Nur: Baladeh, 21.IX.1987, 1 ♀, leg. Hāshemi.

***Wheeleria obsoletus* (Zeller, 1841)**

Material examined:

Alborz:

Asārā: Shahrestānak, Cheshmeh-e Kiā Kolā, 2400m., 20.VII.1988, 1 ♂, leg. Mirzāyāns, Badii.

Āzādbar- Tāleghān Rd. (6 km. E.): 2350m., 21.VII.1988, 2 ♀♀, leg. Mirzāyāns, Badii.

Karaj: Dizin: 17.VIII.1973, 6 ♂♂ 3 ♀♀, leg. Ebert; Kandovān, Sarchāl, 2800m., 4.–8.VII.1977, 1 ♂ 1 ♀, leg. Pāzuki, Mortazavihā.

Tāleghān: 26.–31.VII.1976, 1 ♂, leg. Kāviān.

Ardebil:

Ardebil: Sarein, Ardestān, 1700m., 2.VII.1997, 2 ♂♂, leg. Mofidi-Neyestānak, Barāri.

Āzarbāijān-e Gharbi:

Māku (W.): Ghezel Bolāgh, 1910m., 27.VIII.1976, 2 ♀♀, leg. Pāzuki, Borumand.

Esfahān:

Kāshān: Ghamsar, Ghohrud, Jewinān, 2000m., 12.–13.VI.1984, 1 ♀, leg. Pāzuki, Hāshemi; Ghohrud, 2800m., 3.VI.2005, 5 ♂♂, leg. Gelbrecht.

Fārs:

Ābādeh: Didegān, 2000m., 20.V.1974, 1 ♀, leg. Pāzuki, Abāi.

Kāzerun: Nowdān, 1250m., 17.V.1975, 2 ♂♂, leg. Abāi, Pāzuki.

Shirāz: 10 km. N. Sivand, 1150m., 15.V.1974, 1 ♂, leg. Abāi, Pāzuki.

Hormozgān:

Bandar Abbās: Hājiābād, 1050m., 3.V.1996, 2 ♀♀, leg. Badii, Ardeh, V. Nazari.

Kermān:

Bāft- Jiroft Rd.: Shingerā, 22, 23.V.2004, 5 ♂♂, leg. Rajāei.

Rāyen (N. W.): Hezār Mt., Ābshār, N 29°33'03.7", E 57°17'52.6", 2820–2950m.,
29.IV.2006, 1♂, leg. Tarmann, Plössl.

Kermānshāh:

Kermānshāh: 24.–30.V.1975, 2♂♂, leg. Ghāziof.

Khorāsān-e Razavi:

Ghuchān- Bājgirān Rd.: 46 km. N. Ghuchān, Dorbādām protected area, N
37°25'25.5", E 058°31'34.0", 1800m., 20.VI.2013, 3♀♀, leg. Ālipanāh,
Falsafi.

Khorāsān-e Shomāil:

Bojnurd (50 km. N.): Kopet Dāgh, S. Izmān-e Soflā, N 37°44'20", E 057°25'53",
1240m., 10.–11.V.2008, 1♂, leg. Trusch, Falkenberg, Müller.

Golestān National Park: Ālmeh, 1600m., 20.V.1974, 1♂, leg. Pāzuki.

Māzandarān:

Damāvand: Tizkuh, 1950m., 9.VII.1997, 1♀, leg. Mofidi-Neyestānak, Barāri.

Siāhbisheh: 3 km. to Kamarbon, N 36°13'51.7", E 051°24'45.3", 2557m., 21,
22.VII.2007, 1♂, leg. Ālipanāh, Falsafi, Zahiri.

Semnān:

Shāhrud: Cheheldokhtar, 1700m., 3.VI.1982, 1♂, leg. Hāshemi; Kālpush: 1300m.,
25.–26.VIII.1982, 1♂, leg. Hāshemi.

Tehrān:

Tehrān: Evin, 12.VII.1967, 1♀, leg. Mirzāyāns; Evin, (without abdomen),
26.V.1972, leg. unknown.

Yazd:

Taft (S. W.): Shirkuh, Damak, Aliābād, 2600m., 4.–6.VI.2005, 3♂♂ 4 ♀♀, leg.
Hofmann, Meineke.

***Wheeleria phlomidis* (Staudinger, 1870)**

Material examined:

Alborz:

Āzādbar: 2300m., 12.VII.1996, 1♂ 1♀, leg. Barāri, Badii; Āzādbar, 2400m., 7.–9.V.1995, 1♂, leg. Sarafrāzi, Linnavori, Badii.

Karaj: Āsārā, 1850m., 27.VI.1971, 1♀, leg. Farahbakhsh, Kāviān, Ghāziof; Kandovān, 2600m., 3, 4.VII.1995, 1♂, leg. Sarafrāzi, Badii, Linnavori; Kandovān, N 36°09'24.73", E 51°18'20.98, 3000m., 27.VII.1998, 1♀, leg. Carbonell; Kandovān, Sarchāl, 2800m., 4.–8.VII.1977, 2♂♂ 1♀, leg. Pāzuki, Mortazavihā.

Āzarbāijān-e Gharbi:

Māku: Ārājigh, Bāshkand, 1400m., 16.VI.1976, 1♂, leg. Pāzuki, Borumand.

Orumiyeh: 1350m., 7.VI.1975, 2♀♀, leg. Abāi; Ghāsemlou, 16.VI.1975, 1♀, leg. Abāi.

Chāhārmahāl va Bakhtiāri:

Borujen (S.): 6 km. S. Dorāhun, 1850–2100m., 1.VI.2005, 1♀, leg. Hofmann, Meineke.

Esfahān:

Dārān: Āshān, 2500m., 25.VI.2005 (without abdomen), leg. Hofmann.

Fereydunshahr (S.): Fereydunshahr- Sibak Rd., 2 km. to Sibak, N 32°54'07", E 050°04'48", 2622m., 19.–20.VI.2009, 13♂♂ 5♀♀, leg. Rajāei, Meineke, Hofmann.

Semirom: Behrouz Mt., 2700m., 31.V.2006, 1♂, leg. Keil.

Fārs:

Eghlid (S. S. E.): Bel Mt., Darreh-e Ābsad, 2700–3000m., 7.VI.2005, 1♀, leg. Hofmann, Meineke.

Firuzābād: Farāshband, Chāh Torkaman, 1200m., 10.IV.1975, 2♂♂, leg. Borumand; Farāshband (40 km. Firuzābād), 7.V.2004, 1♂ 4♀♀, leg. Bolonjā, Serri, Hājiesmailiān.

Kāzerun: Nowdān, 1250m., 15.IV.1975, 1♂ 2♀♀, leg. Borumand; Kuhmareh, Gaw Koshak, 1170m., 16.IV.1975, 1♀, leg. Borumand.

Sarvestān: Robāt, 1400m., 5.V.1996, 1♂ 2♀♀, leg. Badii, Ardeh, V. Nazari.

Shirāz: Dasht-e Arzhan, 2100m., 27.V.1995, 1♀, leg. Möllet; Khānezeniān, 2000m., 18.V.1974, 1♂, leg. Abāi, Pāzuki; 10 km. N. Sivand, 1150m., 15.V.1974, 1♀, leg. Abāi, Pāzuki; Sivand, 1700m., 24.V.1995, (without abdomen), leg. Hāshemi, Badii, Sarafrāzi.

Ghazvin:

Alamut: Kashkdasht, 1470m., 19.VI.1995, 1♂, leg. Parchami-Arāghi, Ardeh, Ebrāhimi.

Ghazvin- Alamut Rd.: after Gardaneh-e Alamut, Khanjar Bolāgh Rd., N 36°24'11", E 050°12'52", 2024m., 1.–2.VII.2009, 1♂, leg. Rajāei, Meineke, Hofmann.

Hamedān:

Razan (N.): Gardaneh-e Āvaj, 2300–2400m., 19.VI.1998, 1♂ 2♀♀, leg. Hofmann, Meineke.

Hormozgān:

Bandar Abbās: Hājiābād, 1050m., 3.V.1996, (without abdomen), leg. Badii, Ardeh, V. Nazari.

Kermānshāh:

Eslāmābād-e Gharb: Kerend, Jalilvand, Emāmzādeh Panj Savār, N 34°13'1.4", E 46°32'5.1", 1740m., 22.–23.V.2007, 14♂♂ 1♀, leg. Zahiri.

Kangāvar-Sahneh Rd.: 6 km. E. Sahneh, Bidsorkh, N 34°25'10.1", E 47°45'52.3", 1790m., 21.V.2007, 2♂♂, leg. Nāserzādeh, Zahiri, Olivier.

Kermānshāh: 24.–30.V.1975, 1♂, leg. Ghāziof; Kermānshāh, 9.VI.1975, 1♀, leg. Abāi.

Sar-e Pol-e Zahāb: 5 km. S. Rijāb, N 34°27'9.9", E 46°00'51.4", 1300m.,
24.V.2007, 2♂♂, leg. Zahiri; S. E. Sar-e Pol-e Zahab, Sagān, Navā Mt., N
34°14'12.7", E 46°7'44", 1270m., 26.V.2007, 2♂♂, leg. Zahiri.

Khuzestān:

Izeh: Āzhgil, 950m., 26.IV.1995, 1♂, leg. Parchami-Arāghi, Ardeh, Badii.

Kohgiluyeh va Boyerahmad:

Shahrekord (N.): W. Ben, 2490–2550m., 24.VI.2005, 3♂♂ 1♀, leg. Hofmann.

Yāsuj: Sisakht, 2250m., 13.VI.1972, 1♂, leg. Pāzuki, Ebert; Yāsuj (E.), Ābnār,
Kākān, Bāba Hasan, 2550–2800m., 24.VI.2005, 3♀♀, leg. Hofmann.

Kordestān:

Marivān: 2 km. to Sardoush, N 35°32'00.3", E 046°04'38.4", 1419m., 2.VI.2012,
2♂♂, leg. Ālipanāh, Falsafi.

Saghez (45 km. S. W.): 2000m., 30.VI.1975, 2♀♀, leg. Pāzuki

Saghez- Bāneh Rd.: N. W. Sanandaj, 1950–2100m., 28.–29.VI.2005, 1♂, leg.
Hofmann; 10 km. to Bāneh, Gardaneh-e Khān, N 36°04'13", E 045°59'31",
1976m., 26.–27.VI.2009, 1♂, leg. Rajāei, Meineke, Hofmann.

Sarvābād- Marivān Rd.: 16 km. to Marivān, N 35°23'22.5", E 046°16'09.8",
1283m., 31.V.2012, 1♀, leg. Ālipanāh, Falsafi.

Lorestān:

Aznā: Darband, 1700m., 5.–6.VI.2000, 1♂, leg. Mofidi-Neyestānak;
Oshtorānkuh, Dorud- Gahar lake Rd., before Cheshmeh Khorram, N
33°22'41", E 049°11'13", 2360m., 24.VI.2009, 2♂♂ 1♀, leg. Rajāei, Meineke,
Hofmann.

Khorramābād: Badrābād, 1200m., 13.V.1994, 1♂, leg. Sarafrāzi, Hāshemi.

Markazi:

Tafresh: Dastgerd, 2300–2500m., 15, 16.VI.2005, 1♂, leg. Meineke.

Māzandarān:

Nur: Baladeh, Yush, 2100m., 26.VI.1998, 4♀♀ 2♂♂, leg. Mofidi-Neyestānak.

Tehrān:

Shemirānāt: Rudbar-e Ghasrān, Meygun, 2080m., N 35°57', E 51°29', 1♂, leg.

Zahiri, Hājiesmailiān, Gelbrecht, Drechsel.

Tehrān: Evin, 1600m., 6.VI.1972, 3♀♀, leg. Mirzāyāns; Evin, 9, 10, 12.VI.1973,

2♂♂, leg. unknown; Evin, 6, 11.VI.1974, 2♂♂ 1♀, leg. unknown; Evin, 10,

11.VII.1974, 3♂♂, leg. unknown.

***Wheeleria sobeidae* (Arenberger, 1981)**

Material examined:

Ardebil:

Ardebil: 3 km. W. Neur lake, E. Helābād, 2600m., 23.VI.2006, 1♂, leg. ten

Hagen.

Esfahān:

Borujen (35 km. N.): 2400m., 19.V.2005, 1♂, leg. ten Hagen.

Fereydunshahr (S.): Fereydunshahr- Sibak Rd., 2 km. to Sibak, N 32°54'07", E

050°04'48", 2622m., 19.–20.VII.2009, 9♂♂ 16♀♀, leg. Rajāei, Meineke,

Hofmann.

Kāshān: 4 km. S. Jahogh, 2000m., 14.–15.VI.1984, (without abdomen), leg.

Pāzuki, Hāshemi.

Ghom:

Kahak: Vesf (8 km. S. Fordu), 2320m., 7.–8.VI.1984, 1♂, leg. Pāzuki, Hāshemi.

Khorāsān-e Shomālī:

Āshkhāneh (W.): 885m., N 37°35', E 56°45', 22.V.2004, 1♀ 1♂, leg. Möllet,

Flutsch.

Kohgiluyeh va Boyerahmad:

Yāsuj: Sisakht, 2100m., 16.VI.1986, 1♂, leg. Mirzāyāns, Hāshemi.

Lorestān:

Aznā: Darband, 1700m., 5.–6.VI.2000, 1♂ 1♀, leg. Mofidi-Neyestānak.

Mazandarān:

Nur: Baladeh, 1600m., 21.IX.1987, 1♀, leg. Hāshemi.

Rāmsar: S. Jannat Rudbār, Tomol Rd., 3000–3350m., 12.VII.2007, 1♂, leg. ten Hagen.

Tehrān:

Shemirānāt: Rudbar-e Ghasrān, Meygun, 2080m., N 35°57', E 51°29', 1♂, leg. Zahiri, Hājiesmailiān, Gelbrecht, Drechsel.

Zanjān:

Zanjān: Sohrein- Dagāhi Rd., 6 km. to Dagāhi, N 36°53'03.8", E 048°28'08.3", 2084m., 4.VI.2012, 7♀♀, leg. Ālipanāh, Falsafi.

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<i>wahlbergi</i> , <i>Stenodacma</i>	30
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Old and new names of Localities

<u>Old name</u>	<u>New name</u>
Alafdun Island	Negin Island
Aliābād, Shāhi	Ghāemshahr
Ardekān (Fārs)	Sepidān
Astarābād	Gorgān
Ashraf	Behshahr
Bahrāmābād	Rafsanjān
Bandar-e Farahnāz	Kiāshahr
Bandar-e Māhshahr	Emāmsahr
Bandar-e Pahlavi	Bandar-e Anzali
Bandar-e Shāh	Bandar-e Torkeman
Bandar-e Shāpur	Bandar-e Emām Khomeyni
Bārforush	Bābol
Biābān	Sirik
Dasht-e Mishān	Dasht-e Abbās
Dehbid	Safāshahr
Dozdāb	Zāhedān
Geh	Nikshahr
Ghomsheh	Shahrezā
Golshan	Tabas
Kamareh	Khomeyn
Khāneh	Pirānshahr
Khār	Garmsār
Mashhadsar	Bābolsar
Motelghu	Salmānshahr
Pahlavidezh	Āghghaleh
Rezāieh	Orumiyeh

Rudān	Dehbārez
Saādatābād	Saādatshahr
Sabzevārān	Jiroft
Sakhtsar	Rāmsar
Sangsar	Mehdishahr
Shāhābād-e Gharb	Eslāmābād-e Gharb
Shāhindezh	Sāinghaleh
Shāhpasand	Āzādshahr
Shāhpur	Salmās
Shahsāvār	Tonekābon

In order to facilitate the transliteration of Iranian localities in latin characters and provide the correct pronunciation of these names for foreigners, the following signs are proposed.

<u>Sign</u>	<u>Loc.</u>	<u>Persian pronounc.</u>
a	Sanandaj, Karaj	آ
ā	Tehrān, Kāshān	آ
ay	Tayebād, Bandar-e Dayyer	آی
āy	Malāyer, Golpāyegān	آی
ch	Sirch, Chamanbid	چ
e	Kermān, Bāneh	ا
ey	Meymeh, Eyvānkey	ای
g	Gorgān, Angurān	گ
gh	Ghom, Ghazvin	ق - غ
h	Hamadān, Dehbid	ه - ح
i	Isin, Sāri	ای
j	Javarg, Bijār	ج

k	Kākān, Arāk	ک
kh	Khorramābād, Khāsh	خ
o	Osku, Borāzjān	اُ
ow	Howeizeh, Dowlatābād	اُو
s	Sistān, Rāmsar	ص - ث - س
sh	Shirāz, Mashhad	ش
t	Tabas, Alamut	ت - ط
u	Bushehr, Orumiyeh	او
v	Āvaj, Varāmin	و
y	Yazd, Yāsuj	ی
z	Zāhedān, Alborz	ض - ز - ذ - ظ
zh	Dasht-e Arzhan, Gardaneh Bizhan	ژ

بنام خدا

فهرست بال پولک داران موجود در موزهی حشرات هایک میرزایانس

موسسهی تحقیقات گیاه پزشکی کشور

Family: Pterophoridae

از: هلن عالی پناه

اعضای خانوادهی Pterophoridae به لحاظ داشتن یک و دو شکاف، به ترتیب در بالهای جلو و عقب بیش تر گونه ها، از سایر خانواده های راسته ی بال پولک داران متمایز می شوند. علی رغم این تمایز، این ویژگی ها در تمام اعضای خانواده وجود ندارند، به طوری که در زیرخانواده ی Agdistinae بال ها شکاف دار نیستند. وجود بال های شکاف دار ظاهری پرمایند به این گروه از بال پولک داران داده و به همین دلیل به آنها Plume moth گفته می شود (Gielis, 1996). خانواده ی Pterophoridae که تنها خانواده از بالا خانواده ی Pterophoroidea است، دارای پراکندگی وسیعی بوده و گونه های متعلق به این خانواده در همه جای دنیا پراکندگی دارند. زیست شناسی گونه های مختلف این خانواده منعکس کننده ی تنوع زیستگاهی آنها بوده و مهم ترین میزبان های این گونه ها، گیاهان تیره ی Asteraceae، Lamiaceae، Gentianaceae و Rosaceae هستند. این خانواده به پنج زیرخانواده ی Macropiratinae، Agdistinae، Ochyroticinae، Deuterocopinae و Pterophorinae تقسیم می شود که سه خانواده ی اول هر یک دارای یک جنس می باشند. با استناد به جدیدترین منابع موجود، از این خانواده تاکنون ۱۲۴۹ گونه از ۹۱ جنس در سراسر دنیا شناخته شده است (Gielis 2003, 2006, 2008, 2009, 2011a, b; Rose & Pooni, 2005; Alipanah & Ustjuzhanin 2005, 2006; Arenberger 2002, 2005, 2006; Ustjuzhanin & Alipanah et al., 2010, 2011; Gielis & Karsholt 2009; Altermatt 2008).

و (Gielis & Mano, 2013؛ Ustjuzhanin *et al.*, 2011؛ Kovtunovich, 2010, 2011a, b زیرخانواده‌ی Pterophorinae بزرگ‌ترین زیرخانواده‌ی این خانواده محسوب می‌شود (Gielis, 2003). تاکنون مطالعات چندی روی این خانواده در ایران صورت گرفته و مقالات متعددی به چاپ رسیده‌اند (Amsel, 1959؛ Zerny, 1940؛ Staudinger & Rebel, 1901؛ Lederer, 1869, 1870؛ Sutter, 1968؛ Bigot & Popescu-Gorj, 1974؛ Bigot, 1968؛ Alipanah *et al.*, 2003؛ Gielis, 2003؛ Arenberger, 1981, 1995a, b, 1999, 2005؛ 1991؛ Alipanah & Ustjuzhanin, 2005, 2006, 2013؛ Alipanah & Gielis, 2010؛ Alipanah, 2013a, b). بر این اساس تا به حال ۹۵ گونه از ایران گزارش شده که همگی به استثنای یازده گونه‌ی *Agdistis* *Capperia celeusi*، *Paracapperia anatolicus* (Caradja, 1920)، *insidiatrix* Meyrick, 1936 (Frey, 1886)، *Oxyptilus pilosellae* (Zeller, 1841)، *Crombrugghia kollari* (Stainton, 1851)، *Marasmarcha pulcher* *Stenoptilodes taprobanes* (R. Felder & Rogenhofer, 1875) (Christoph, 1885)، *Calyciphora albodactylus* (Fabricius, 1794)، *C. nephelodactyla* (Eversmann, 1844)، *Hellinsia lienigianus* (Zeller, 1852) و *Wheeleria spilodactyla* (Curtis, 1827) در مجموعه‌ی بال‌پولک‌داران موزه‌ی حشرات هایک میرزایانس وجود دارند. گونه‌های گزارش شده از ایران به ۳۰ جنس و ۵ قبیله تعلق دارند. در فهرست حاضر اطلاعات کاملی از پراکندگی گونه‌هایی که قبلاً از ایران گزارش شده و در موزه‌ی حشرات هایک میرزایانس نگهداری می‌شوند، ارائه شده است.

بی‌شک، تهیه‌ی این فهرست بدون حمایت صمیمانه‌ی برخی از همکاران امکان‌پذیر نبود. در اینجا به ویژه از دکتر Cees Gielis (Natuurhistorisch Museum Wien, Austria)، دکتر Peter Ustjuzhanin (Siberian Division of the Russian Entomological Society) و دکتر Ernst Arenberger (Society) کمک‌های صمیمانه و توصیه‌های با ارزش ایشان در طول مطالعه‌ی این خانواده در ایران قدردانی می‌شود. از آقایان محمدرضا نعمتیان، حسین فلسفی و ابوالفضل حاجی‌اسمعیلیان که در اتالهی دقیق نمونه‌ها همکاری داشته‌اند تشکر می‌کنم. هم‌چنین از تمامی همکارانم در مؤسسه‌ی تحقیقات

گیاه پزشکی کشور و محققین آلمانی که در جمع آوری نمونه ها از قسمت های مختلف ایران نقش داشته اند، تشکر می کنم.

چاپ این نشریه در سومین جلسه‌ی مورخ ۹۲/۸/۱۱ شورای انتشارات مؤسسه تحقیقات گیاهپزشکی کشور مورد تأیید قرار گرفت.

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نام کامل نویسنده: هلن عالی‌پناه
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مؤسسه تحقیقات گیاهپزشکی کشور

وزارت جهاد کشاورزی

بخش تحقیقات رده‌بندی حشرات

سازمان تحقیقات، آموزش و ترویج

نشریه شماره ۱۹

کشاورزی

حشرات ایران:

فهرست بال‌پولک‌داران موجود در موزه‌ی حشرات هایک میرزایانس

مؤسسه تحقیقات گیاهپزشکی کشور

Family: Pterophoridae

از:

هلن عالی‌پناه

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