

Article

Checklist of the flat mites (Acari: Trombidiformes: Tenuipalpidae) of Iran

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Abstract

We report on 59 recorded and described species in 11 different genera, providing their original combination and synonymy, if relevant. The type locality of 29 species (47.4%) is Iran and the distributions of the others as follows: 13.5% Nearctic, 10.1% Neotropical, 6.7% Afrotropical, 5% Eastern Palearctic, 10.1% Oriental, 5% Australian and 3.3% are Pacific Islands. At this early stage of research, the Iranian fauna is dominated by *Cenopalpus* and to a lesser extent by *Aegyptobia* and *Tenuipalpus*.

Key words: False spider mites, species, synonyms, new records

Introduction

Iran is located in the Middle East and is biogeographically under the influence of three different climates. The southeast part is has an Oriental climate and is bordered by the Afrotropical region in the southwest. In addition these two, a Palearctic climate affects the rest of the country. In this checklist, we reference Mesa *et al.* (2009) that placed Iran under the influence of a Western Palearctic region climate.

The earliest study of the Tenuipalpidae in Iran was by Dosse (1971). Later, Sepasgozarian (1996), Khosrowshahi & Arbabi (1997) and Kamali *et al.* (2001) made further contributions. More recently there has been renewed interest in the family (e.g. Khanjani *et al.* 2012, 2013; Farzan *et al.* 2012), with many new species described, yet indicating this is only a small portion of the actual fauna. To date, we record 61 species from Iran, showing that the false spider mite fauna of Iran is very rich. The aim of this paper is to compile data on false spider mites and their current geographic distribution in Iran. Species lists are important and necessary to access to all previous data and will be useful for future research. This checklist was compiled based on published records.

Taxonomy

Order Trombidiformes

Superfamily Tetranychoidae

Family Tenuipalpidae

Genus *Aegyptobia* Sayed

Aegyptobia Sayed, 1950: 1018. **Type species:** *Aegyptobia tragardhi* Sayed, 1950: 1019.

1. *Aegyptobia beglarovi* Livschitz & Mitrofanov 1967

Aegyptobia beglarovi Livschitz & Mitrofanov; Rahmani *et al.* (2008): 167; Khanjani *et al.* (2012a): 35.

Aegyptobia kharazii Mesa & Moraes, in Mesa *et al.* 2009: 15, **syn. nov.**

Aegyptobia meyeræ Khosrowshahi & Arbabi, 1997: 10.

Iranian records: Sanandaj, Kurdistan Province – Khanjani *et al.* 2012a; Mazandaran & Khuzestan Provinces – Kamali *et al.* 2001; Khabr, Kerman Province – Farzan & Asadi 2011.

Habitat: *Juniper* sp. (Cupressaceae), *Cupressus* sp. (Cupressaceae), *Barberis* sp. (Berberidaceae) – Kamali *et al.* 2001; *Pinus abies* L. (Pinnaceae) – Khanjani *et al.* 2012a; *Berberis integerrima* Bunge (Berberidaceae) – Farzan & Asadi 2011.

Distribution: Western Palearctic.

2. *Aegyptobia bromi* Khanjani *et al.*

Aegyptobia bromi Khanjani *et al.*, 2012a: 31.

Iranian records: Hamedan, Hamedan Province – Khanjani *et al.* 2012a.

Habitat: *Bromus tectorum* L. (Poaceae) under bushes of *Astragalus gossypinus* Fish. (Fabaceae) – Khanjani *et al.* 2012a.

Distribution: Western Palearctic.

3. *Aegyptobia glyptus* Pritchard & Baker

Aegyptobia glyptus Pritchard & Baker, 1958: 180; Rahmani *et al.* 2008: 166.

Iranian records: Tehran Province – Kamali *et al.* 2001.

Habitat: Conifers – Kamali *et al.* 2001.

Distribution: Western Palearctic & Neotropical.

4. *Aegyptobia hormozgani* Farzan *et al.*

Aegyptobia hormozgani Farzan *et al.*, 2012: 84.

Iranian records: Genow, Bandarabbas, Hormozgan Province – Farzan *et al.* 2012.

Habitat: *Artemisia siberia* L. (Asteraceae) – Farzan *et al.* 2012.

Distribution: Western Palearctic.

5. *Aegyptobia iraniensis* Khanjani *et al.*

Aegyptobia iraniensis Khanjani *et al.* 2008: 65.

Iranian records: Behshahr, Mazandaran Province – Khanjani *et al.* 2008.

Habitat: *Juniperus communis* L. (Cupressaceae) – Khanjani *et al.* 2008.

Distribution: Western Palearctic.

6. *Aegyptobia jiroftiensis* Farzan *et al.*

Aegyptobia jiroftiensis Farzan *et al.*, 2012: 80.

Iranian records: Karimabad, Jiroft, Kerman Province – Farzan *et al.* 2012.

Habitat: *Convolvulus polygonum* L. (Convolvulaceae) – Farzan *et al.* 2012.

Distribution: Western Palearctic.

7. *Aegyptobia nazarii* Khanjani *et al.*

Aegyptobia nazarii Khanjani *et al.*, 2012a: 34.

Iranian records: Nahavand, Hamedan Province – Khanjani *et al.* 2012a.

Habitat: *Poa bulbosa* L. (Poaceae) – Khanjani *et al.* 2012a.

Distribution: Western Palearctic.

8. *Aegyptobia pavlovskii* (Reck)

Aegyptobia pavlovskii (Reck, 1951): 292.

Brevipalpoides pavlovskii Reck, 1951: 292; *Aegyptobia pavlovskii* Pritchard & Baker, 1958 (key); *Aegyptobia (Aegyptobia) pavlovskii* Mitrofanov & Strunkova, 1979; Bagdasarian 1962 (key); Livschitz & Mitrofanov 1967 (redescription); Meyer 1979 (key); Mitrofanov & Strunkova 1979 (key); Strunkova 1978 (key); Farzan *et al.* 2012 : 85 (redescription).

Iranian records: Khabr, Baft, Kerman Province; Roodfargh, Jiroft, Kerman Province – Farzan *et al.* 2012.

Habitat: *Ephedra procera* Fisch. (Ephedraceae); *Crataegus azarolus* L. (Rosaceae); *Prunus amygdale* L. (Rosaceae) – Farzan *et al.* 2012.

Distribution: Western Palearctic.

9. *Aegyptobia persica* Khosrowshahi & Arbabi

Aegyptobia persica Khosrowshahi & Arbabi, 1997: 9; Khanjani *et al.* 2012a: 40; Rahmani *et al.* 2008: 167.

Iranian records: Tehran Province – Khosrowshahi & Arbabi (1997); Rafsanjan, Kerman Province – Khanjani *et al.* 2012a.

Habitat: *Plantago lanceolata* L. (Plantaginaceae) under *Amygdalus communis* L. (Rosaceae) – Khanjani *et al.* 2012a.

Distribution: Western Palearctic.

10. *Aegyptobia pirii* Khanjani, Zahiri & Khanjani

Aegyptobia pirii Khanjani, Zahiri & Khanjani 2013a: 31.

Iranian records: Tuyserkhan, Hamedan Province – Khanjani *et al.* 2013a.

Habitat: *Bromus tectorum* L. (Poaceae) – Khanjani *et al.* 2013a.

Distribution: Western Palearctic.

11. *Aegyptobia tragardhi* Sayed

Aegyptobia tragardhi Sayed, 1950: 1019; Khanjani *et al.* 2012a: 43; Rahmani *et al.* 2008: 166.

Aegyptobia ueckermanni Khosrowshahi & Arbabi, 1997: 9; Rahmani *et al.* 2008: 167.

Remarks: Khanjani *et al.* (2012a) synonymized *A. ueckermanni* with *A. tragardhi* Sayed, 1950.

Iranian records: Mazandaran & Khuzestan Provinces – Kamali *et al.* 2001; Hamedan, Hamedan Province – Khanjani *et al.* 2012a; Farzan & Asadi 2011.

Habitat: *Malus domestica* L. (Rosaceae); *Pinus abies* L. (Pinnaceae); *Juniperus communis* L. (Cupressaceae); *Juglans regia* L. (Juglandaceae); *Prunus domestica* L. (Rosaceae) – Khanjani *et al.* 2012a; *Cupressus* sp. (Cupressaceae) – Kamali *et al.* 2001; *Pinus Eldarica* Medw. (Pinaceae) – Jabalbarez, Jiroft, Kerman Province – Farzan & Asadi 2011.

Distribution: Western Palearctic.

Genus *Brevipalpus* Donnadieu

Brevipalpus Donnadieu, 1875: 115. Type species: *Brevipalpus obovatus* Donnadieu, 1875.

1. *Brevipalpus obovatus* Donnadieu

Brevipalpus obovatus Donnadieu, 1875: 115.

Brevipalpus obovatus Donnadieu; Khosrowshahi & Arbabi 1997: 50; Rahmani *et al.* 2008: 169; Khanjani *et al.* 2012.

Iranian records: Guilan, Mazandaran and Tehran Provinces – Kamali *et al.* 2001; Abhendo village, Hamedan, Hamedan Province – Khanjani *et al.* 2012

Habitat: *Peteridium aquilinum* Kuhn (Dennstaedtiaceae); *Prunus armeniaca* L. (Rosaceae); *Citrus* spp. (Rutaceae); *Camellia sinensis* L. (Theaceae); *Pelargonium zonale* (Geraniaceae); *Ligustrum vulgare* L. (Oleaceae); *Rubus idaeus* L. (Rosaceae) – Khosrowshahi & Arbabi 1997.

Distribution: World-wide.

2. *Brevipalpus lewisi* McGregor

Brevipalpus lewisi McGregor, 1949: 17.

Brevipalpus lewisi McGregor; Khosrowshahi & Arbabi 1997: 53; Rahmani *et al.* 2008: 169.

Iranian records: Khoramabad, Lorestan Province – Khosrowshahi & Arbabi 1997; Tehran, Guilan, Mazandaran & Azarbaijan Provinces – Kamali *et al.* 2001; Kerman, Kerman Province; Dalfard, Jiroft, Kerman Province; Karimabad, Jiroft, Kerman Province – Farzan & Asadi 2011.

Habitat: Ornamental plants; *Citrus* spp. (Rutaceae); *Solanum melongena* L. (Solanaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001; *Populus* sp. (Salicaceae); *Medicago sativa* L. (Fabaceae); *Vitis* sp. (Vitaceae)– Kamali *et al.* 2001; *Medicago sativa* L. (Fabaceae) – Farzan & Asadi 2011.

Distribution: Nearctic; Western Palearctic; Eastern Palearctic; Australian.

3. *Brevipalpus mcgregori* Baker

Brevipalpus mcgregori Baker, 1949: 357.

Brevipalpus mcgregori Baker ; Khosrowshahi & Arbabi 1997: 53; Rahmani *et al.* 2008: 169.

Iranian records: Gorgan and Golestan Province – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Habitat: *Populus* sp. (Salicaceae) – Khosrowshahi & Arbabi 1997 ; Kamali *et al.* 2001; *Citrus* sp. (Rutaceae) – Khosrowshahi & Arbabi 1997.

Distribution: Neotropical & Western Palearctic.

4. *Brevipalpus olearius* Sayed

Brevipalpus olearius Sayed, 1950: 1018.

Brevipalpus olearius Sayed; Khosrowshahi & Arbabi 1997: 53; Rahmani *et al.* 2008: 169; Khanjani *et al.* 2012.

Iranian records: Haraz road, Amol town, Mazandaran Province – Khanjani 2012; Guilan Province – Kamali *et al.* 2001.

Habitat: *Sambucus ebulus* L. (Adoxaceae); *Buxus hircana* Pojark. (Buxaceae) – Khanjani 2012; *Olea* sp. (Oleaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Distribution: Western Palearctic.

5. *Brevipalpus phoenicis* (Geijskes)

Brevipalpus phoenicis (Geijskes, 1939): 23.

Brevipalpus phoenicis (Geijskes); Khosrowshahi & Arbabi 1997: 49; Rahmani *et al.* 2008: 169.

Iranian records: Golestan Province – Kamali *et al.* 2001.

Habitat: *Cyclamen officinale* (Primulaceae); *Mentha* sp. (Lamiaceae); *Citrus* sp. (Rutaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Distribution: World-wide.

Genus *Cenopalpus* Pritchard & Baker

Cenopalpus Pritchard & Baker, 1958: 190. Type species: *Brevipalpus spinosus* (Donnadieu, 1875).

1. *Cenopalpus abaii* Khosrowshahi & Arbabi

Cenopalpus abaii Khosrowshahi & Arbabi, 1997: 7–8.

Cenopalpus abaii Khosrowshahi & Arbabi; Rahmani *et al.* 2008: 171; Khanjani *et al.* 2012c: 39.

Iranian records: Kazeron, Fars Province – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Habitat: *Quercus* sp. (Fagaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001; Khanjani *et al.* 2012c.

Distribution: Western Palearctic.

2. *Cenopalpus bakeri* Düzgünes

Cenopalpus bakeri Düzgünes, 1967: 91.

Cenopalpus bakeri Düzgünes; Khosrowshahi & Arbabi 1997: 13; Khanjani *et al.* 2012c: 42; Rahmani *et al.* 2008: 170.

Iranian records: Heyran, Ardabil Province; Hamedan, Hamedan Province – Khanjani *et al.* 2012c; Mazandaran & Tehran Provinces – Kamali *et al.* 2001.

Habitat: *Vitis vinifera* L. (Vitaceae); *Crataegus monogyna* Jacq. (Rosaceae); *Cydonia oblonga* Mill. (Rosaceae); *Quercus* sp. (Fagaceae) – Kamali *et al.* 2001; Khanjani *et al.* 2012c.

Distribution: Western Palearctic.

3. *Cenopalpus crataegi* Dosse

Cenopalpus crataegi Dosse, 1971: 580.

Cenopalpus crataegi Dosse; Khosrowshahi & Arbabi 1997: 16; Khanjani *et al.* 2012c: 49; Rahmani *et al.* 2008: 170.

Iranian records: Hamedan, Hamedan Province – Khanjani *et al.* 2012c, Karaj, Alborz Province – Khosrowshahi & Arbabi 1997, Kamali *et al.* 2001.

Habitat: *Crataegus oxyacantha* L. (Rosaceae); *Crataegus monogyna* Jacq. (Rosaceae) – Khosrowshahi & Arbabi 1997; *Crataegus monogyna* Jacq. (Rosaceae) – Kamali *et al.* 2001; *Cydonia oblonga* Mill. (Rosaceae) – Khanjani *et al.* 2012c.

Distribution: Western Palearctic.

4. *Cenopalpus evini* Khosrowshahi

Cenopalpus evini Khosrowshahi, 1991: 7.

Cenopalpus evini Khosrowshahi; Khosrowshahi & Arbabi 1997: 22; Rahmani *et al.* 2008: 171.

Iranian records: Saveh, Markazi Province – Khosrowshahi & Arbabi 1997; Khosrowshahi 1991, Kamali *et al.* 2001.

Habitat: *Populus alba* L. (Salicaceae) – Khosrowshahi & Arbabi 1997, Khosrowshahi 1991, Kamali *et al.* 2001.

Distribution: Western Palearctic.

5. *Cenopalpus irani* Dosse

Cenopalpus irani Dosse, 1971: 579 ; *Brevipalpus irani* (Meyer, 1979): 84.

Cenopalpus irani Dosse ; Khosrowshahi & Arbabi 1997: 13; Khanjani *et al.* 2012c: 28; Rahmani *et al.* 2008: 170.

Iranian records: Generally distributed in Iran (Kamali *et al.* 2001), for example: Vicinity of Razan city, Ghorveh Dar Jazin town, Hamedan Province; Chano village, Sanandaj, Kurdistan Province; Ganjnameh, Hamedan, Hamedan Province; Heydare village, Hamedan, Hamedan Province; Marivan, Kurdistan Province; Saleh Abad, Hamedan Province; Banmazaran village, Kermanshah Province – Khanjani *et al.* 2012c; Kerman Province – Farzan & Asadi 2011.

Habitat: *Ficus carica* L. (Moraceae); *Vitis vinifera* L. (Vitaceae); *Populus alba* L. (Salicaceae); *Prunus cerasus* L. (Rosaceae); *Prunus domestica* L. (Rosaceae); *Pyrus persica* L. (Rosaceae) – Khanjani *et al.*, 2012c: 38; *Pyrus communis* L. (Rosaceae); *Cydonia oblonga* Mill. (Rosaceae); *Malus domestica* Borkh. (Rosaceae); soil samples; ornamental plants; *Olea* sp. (Oleaceae) – Kamali *et al.* 2001; *Malus domestica* Borkh. (Rosaceae) – Farzan & Asadi 2011.

Distribution: Western Palearctic.

6. *Cenopalpus khosrowshahi* Khanjani *et al.*

Cenopalpus khosrowshahi Khanjani *et al.* 2012c: 11.

Iranian records: Hamedan, Hamedan Province – Khanjani *et al.* 2012c.

Habitat: *Sophora alopecuroides* L. (Fabaceae) – Khanjani *et al.* 2012c.

Distribution: Western Palearctic.

7. *Cenopalpus lanceolatisetae* (Attiah)

Brevipalpus lanceolatisetae Attiah, 1956: 436.

Cenopalpus lanceolatisetae; Pritchard and Baker 1958: 192.

Cenopalpus lanceolatisetae; Khosrowshahi & Arbabi 1997: 17; Khanjani *et al.* 2012c: 20; Rahmani *et al.* 2008: 171.

Iranian records: Banmazaran village, Kermanshah Province; Shalan village, Kermanshah Province; Baba Pir-Ahmad, Chahar Mahal va Bakhtiari Province – Khanjani *et al.* 2012c; Isfahan, Fars, Guilan, Khuzestan & Tehran Provinces – Kamali *et al.* 2001.

Habitat: *Prunus armeniaca* L. (Rosaceae); *Prunus avium* L. (Rosaceae); *Platanus orientalis* L. (Platanaceae); *Prunus dulcis* (Mill.) (Rosaceae) – Khanjani *et al.* 2012c; *Pyrus communis* L. (Rosaceae); *Pyrus malus* L. (Rosaceae); *Prunus domestica* L. (Rosaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001; *Viscum album* L. (Viscaceae); *Salix* sp. (Salicaceae) – Kamali *et al.* 2001.

Distribution: Western Palearctic.

8. *Cenopalpus lineola* (Canestrini & Fanzago)

Cenopalpus lineola (Canestrini & Fanzago, 1876): 105.

Cenopalpus lineola (Canestrini & Fanzago); Rahmani *et al.* 2008: 169.

Iranian records: Mazandaran Province – Kamali *et al.* 2001.

Habitat: *Pinus* sp. (Pinaceae) – Kamali *et al.* 2001.

Distribution: Western Palearctic.

9. *Cenopalpus meyeræ* Khosrowshahi

Cenopalpus meyeræ Khosrowshahi, 1991: 6.

Cenopalpus meyeræ Khosrowshahi; Khosrowshahi & Arbabi 1997: 15; Rahmani *et al.* 2008: 170.

Iranian records: Generally distributed – Kamali *et al.* 2001

Habitat: *Platanus* sp. (Platanaceae) – Khosrowshahi 1991; Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Distribution: Western Palearctic.

10. *Cenopalpus quercusi* Khanjani *et al.*

Cenopalpus quercusi Khanjani *et al.*, 2012c: 14

Iranian records: Robat namaki, Lorestan Province – Khanjani *et al.* 2012c.

Habitat: *Quercus castaneifolia* C.A. Mey (Fagaceae) – Khanjani *et al.* 2012c.

Distribution: Western Palearctic.

11. *Cenopalpus pennatisetis* (Wainstein)

Cenopalpus pennatisetis (Wainstein, 1958): 458.

Cenopalpus pennatisetis (Wainstein); Khosrowshahi & Arbabi 1997: 21; Rahmani *et al.* 2008: 171.

Iranian records: Isfahan Province – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Habitat: *Salix aegyptiaca* L. (Salicaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Distribution: Western Palearctic.

12. *Cenopalpus pritchardi* Düzgünez

Cenopalpus pritchardi Düzgünez, 1967: 90.

Cenopalpus pritchardi Düzgünez; Khosrowshahi & Arbabi 1997: 17; Rahmani *et al.* 2008: 171.

Iranian records: Isfahan Province – Khosrowshahi & Arbabi (1997); Kamali *et al.* 2001.

Habitat: *Salix aegyptiaca* L. (Salicaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Distribution: Western Palearctic.

13. *Cenopalpus prunusi* Khanjani *et al.*

Cenopalpus prunusi Khanjani *et al.* 2012c: 8

Iranian records: Hamedan, Hamedan Province – Khanjani *et al.* 2012c.

Habitat: *Prunus domestica* L. (Rosaceae) – Khanjani *et al.* 2012c.

Distribution: Western Palearctic.

14. *Cenopalpus pulcher* (Canestrini & Fangazo)

Cenopalpus pulcher (Canestrini & Fangazo, 1876): 134.

Cenopalpus pulcher (Canestrini & Fangazo); Khosrowshahi & Arbabi 1997: 12; Rahmani *et al.* 2008: 170.

Iranian records: Generally distributed – Kamali *et al.* 2001

Habitat: *Cydonia oblonga* Mill. (Rosaceae); *Malus domestica* Borkh. (Rosaceae); *Prunus persica* (L.) (Rosaceae); *Platanus* sp. (Platanaceae); *Ficus carica* L. (Moraceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Distribution: Western Palearctic; Nearctic.

15. *Cenopalpus ruber* Wainstein

Cenopalpus ruber Wainstein, 1960: 236.

Cenopalpus ruber Wainstein; Rahmani *et al.* 2008: 165; Rahmani *et al.* 2008: 170.

Iranian records: Zanjan, Zanjan Province – Rahmani *et al.* 2008.

Habitat: *Pyrus malus* L. (Rosaceae) – Rahmani *et al.* 2008.

Distribution: Western Palearctic.

16. *Cenopalpus rubusi* Khanjani *et al.*

Cenopalpus rubusi Khanjani *et al.* 2012c: 3.

Iranian records: Angozhan village, Sanandaj, Kurdistan Province – Khanjani *et al.* 2012c.

Habitat: *Rubus persica* L. (Rosaceae) – Khanjani *et al.* 2012c.

Distribution: Western Palearctic.

17. *Cenopalpus saryabiensis* Akbar & Chaudhri

Cenopalpus saryabiensis Akbar & Chaudhri, 1958: 270.

Cenopalpus saryabiensis Akbar & Chaudhri; Khosrowshahi & Arbabi 1997: 9; Rahmani *et al.* 2008: 169; Khanjani *et al.* 2012c: 17

Iranian records: Karaj Alborz, Province – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001 ; Khanjani *et al.* 2012c.

Habitat: *Pinus* spp. (Pinaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Distribution: Western Palearctic & Oriental.

18. *Cenopalpus spinosus* (Donnadieu)

Cenopalpus spinosus (Donnadieu, 1875): 114.

Cenopalpus spinosus (Donnadieu); Khosrowshahi & Arbabi 1997: 10; Rahmani *et al.* 2008: 170.

Iranian records: Tonekabon, Mazandaran Province – Khosrowshahi & Arbabi 1997, Kamali *et al.* 2001.

Habitat: *Rubus idaeus* L. (Rosaceae) – Khosrowshahi & Arbabi 1997, Kamali *et al.* 2001.

Distribution: Western Palearctic.

Genus *Dolichotetranychus* Sayed, 1938

Dolichotetranychus Sayed, 1938: 606. **Type species:** *Stigmaeus floridanus* Banks, 1900: 77.

1. *Dolichotetranychus kermanicus* Khanjani *et al.*

Dolichotetranychus kermanicus Khanjani *et al.* 2011: 92.

Iranian records: Kerman Province – Khanjani *et al.* 2011.

Habitat: Soil under *Citrus sinensis* Pers. (Rutaceae) – Khanjani *et al.* 2011.

Distribution: Western Palearctic.

Genus *Obdulia* Pritchard & Baker

Obdoulia Pritchard & Baker, 1958: 260. Type species: *Obdoulia tamaricis* Pritchard & Baker, 1958.

1. *Obdoulia daadi* Al-Gboory

Obdoulia daadi Al-Gboory, 1987: 94.

Iranian records: Zarand, Kerman Province, Kahnuj, Kerman Province & Genow, Hormozgan Province – Farzan & Asadi 2011.

Habitat: *Tamarix* sp. (Tamaricaceae) – Farzan & Asadi 2011.

Distribution: Western Palearctic.

2. *Obdoulia tamaricis* Pritchard & Baker

Obdoulia tamaricis Pritchard & Baker, 1958: 260.

Obdoulia tamaricis Pritchard & Baker; Khosrowshahi & Arbabi 1997: 23; Rahmani *et al.* 2008: 165.

Iranian records: Qom Province – Khosrowshahi & Arbabi 1997; Markazi & Tehran Provinces – Kamali *et al.* 2001.

Habitat: *Tamarix ramosissima* Ledeb. (Tamaricaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Distribution: Western Palearctic.

Genus *Pentamerismus* McGregor

Pentamerismus McGregor 1949: 23. Type species: *Tenuipalpus erythreus* Ewing 1917: 152.

1. *Pentamerismus behsharicus* Khanjani & Gotoh

Pentamerismus behsharicus Khanjani & Gotoh, 2008: 56.

Iranian records: Behshahr, Mazandaran Province – Khanjani & Gotoh 2008.

Habitat: *Juniperus polycarpus* L. (Cupressaceae) – Khanjani & Gotoh 2008.

Distribution: Western Palearctic.

2. *Pentamerismus canadensis* McGregor

Pentamerismus canadensis McGregor, 1949: 24.

Pentamerismus canadensis McGregor; Rahmani *et al.* 2008: 171.

Iranian records: Karaj, Alborz Province – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Habitat: *Juniperus* sp. (Cupressaceae) – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001.

Distribution: Western Palearctic; Nearctic.

3. *Pentamerismus foliisetis* Livschitz & Mitrofanov

Pentamerismus foliisetis Livschitz & Mitrofanov, 1967: 38.

Pentamerismus foliisetis Livschitz & Mitrofanov; Rahmani *et al.* 2008: 171.

Iranian records: Mazandaran Province – Kamali *et al.* 2001.

Habitat: *Juniperus* sp. (Cupressaceae) – Kamali *et al.* 2001.

Distribution: Western Palearctic.

4. *Pentamerismus judiciarus* De Leon

Pentamerismus judiciarus De Leon, 1961: 177.

Pentamerismus judiciarus De Leon, Rahmani *et al.* 2008: 172; Khanjani & Gotoh 2008: 58.

Iranian records: Behshahr, Mazandaran Province – Khanjani & Gotoh 2008; Kamali *et al.* 2001.

Habitat: *Juniperus polycarpus* L. (Cupressaceae) – Khanjani & Gotoh 2008; Kamali *et al.* 2001.

Distribution: Western Palearctic; Nearctic.

5. *Pentamerismus oregonensis* McGregor

Pentamerismus oregonensis McGregor, 1949: 27.

Pentamerismus oregonensis McGregor; Rahmani *et al.* 2008: 172.

Iranian records: Mazandaran Province – Kamali *et al.* 2001.

Habitat: *Juniperus* sp. (Cupressaceae) – Kamali *et al.* 2001.

Distribution: Western Palearctic; Nearctic.

6. *Pentamerismus ueckermanni* Khanjani & Gotoh

Pentamerismus ueckermanni Khanjani & Gotoh, 2008: 54.

Iranian records: Behshahr, Mazandaran Province – Khanjani & Gotoh 2008.

Habitat: *Juniperus communis* L. (Cupressaceae) – Khanjani & Gotoh 2008.

Distribution: Western Palearctic.

Genus *Phyllotetranychus* Sayed

Phyllotetranychus Sayed, 1938: 602. Type species: *Phyllotetranychus aegyptium* Sayed, 1938: 602.

1. *Phyllotetranychus aegyptiacus* Sayed

Phyllotetranychus aegyptiacus Sayed, 1938: 602.

Phyllotetranychus aegyptiacus Sayed; Khosrowshahi & Arbabi 1997: 25; Rahmani *et al.* 2008: 166.

Iranian records: Borazjan, Bushehr Province – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001; Jiroft, Kerman Province – Farzan & Asadi 2011.

Habitat: *Phoenix dactylifera* L. (Arecaceae) – Khosrowshahi & Arbabi 1997, Kamali *et al.*, 2001, Farzan & Asadi, 2011.

Distribution: Western Palearctic.

Genus *Phytoptipalpus* Trågärddh

Phytoptipalpus Trågärddh, 1904: 9. Type species: *Phytoptipalpus paradoxus* Trågärddh, 1904: 10.

1. *Phytoptipalpus salicicola* Al-Gboory

Phytoptipalpus salicicola Al-Gboory, 1987: 106; Khanjani *et al.* 2012a.

Phytoptipalpus salicicola Al-Gboory, 1987: 106; Khanjani *et al.* 2012a: 50.

Aegyptobia daneshvari Parsi & Khosrowshahi, 1990: 37; Rahmani *et al.* 2008: 167.

Iranian records: Hamedan, Hamedan Province – Khanjani *et al.* 2012a; Tehran Province – Khosrowshahi & Arbabi 1997; Khabr, Baft, Kerman Province – Farzan & Asadi 2011; Dalfard, Jiroft, Kerman Province – Farzan & Asadi 2011.

Habitat: Soil surface under pussy willow trees, *Salix aegyptiaca* L. (Salicaceae) – Khanjani *et al.* 2012a; Farzan & Asadi 2011; *Populus* sp. (Salicaceae) – Khosrowshahi & Arbabi 1997; Farzan & Asadi 2011.

Distribution: Western Palearctic

2. *Phytoptipalpus rosae* (Mitrofanov & Strunkova)

Phytoptipalpus rosae (Mitrofanov & Strunkova, 1978): 1097, *Zaheria rosae* original designation, *Phytoptipalpus rosae* – Meyer 1979.

Phytoptipalpus kurdistaniensis Khanjani *et al.* 2012a: 47, **syn. nov.**

Iranian records: Sanandaj, Kurdistan Province – Khanjani *et al.* 2012a. Dalfard, Jiroft, Kerman Province; Kahnuj, Kerman Province – Farzan & Asadi 2011.

Habitat: Wild rose bushes, *Rosa woodsii* Lindl. (Rosaceae) – Khanjani *et al.* 2012a.

Distribution: Western Palearctic.

Genus *Pseudoleptus* Bruyant

Pseudoleptus Bruyant, 1911: 340. Type species: *Pseudoleptus arechavaletae* Bruyant, 1911.

1. *Pseudoleptus hamedaniensis* Khanjani *et al.*

Pseudoleptus hamedaniensis Khanjani *et al.*, 2012b: 43.

Iranian records: Hamedan, Hamedan Province – Khanjani *et al.* 2012b.

Habitat: *Bromus tectorum* L. (Poaceae) under gum bushes, *Astragalus gossypinus* Fisch. (Fabaceae) – Khanjani *et al.* 2012b.

Distribution: Western Palearctic.

2. *Pseudoleptus iranensis* Khanjani *et al.*

Pseudoleptus iranensis Khanjani *et al.*, 2012b: 46.

Iranian records: Hamedan, Hamedan Province – Khanjani *et al.* 2012b.

Habitat: *Bromus danthoniae* Elumus (Poaceae) under hawthorn trees, *Crataegus aronia* L. (Rosaceae) – Khanjani *et al.* 2012b.

Distribution: Western Palearctic.

3. *Pseudoleptus kermanshahiensis* Khanjani *et al.*

Pseudoleptus kermanshahiensis Khanjani *et al.*, 2012b: 52.

Iranian records: Sahneh, Kermanshah Province – Khanjani *et al.* 2012b.

Habitat: *Alopecurus myosuroides* Hadson (Poaceae) under apple trees *Malus domestica* L. (Rosaceae) – Khanjani *et al.* 2012b.

Distribution: Western Palearctic.

Genus *Raoiella* Hirst

Raoiella Hirst, 1924: 522. Type species: *Raoiella indica* Hirst, 1924: 522.

1. *Raoiella indica* Hirst

Raoiella indica Hirst, 1924: 522.

Raoiella indica Hirst; Khosrowshahi & Arbabi 1997: 24; Rahmani *et al.* 2008: 165.

Iranian records: Bushehr, Fars & Khuzestan Provinces – Kamali *et al.* 2001; Karimabad, Jiroft, Kerman Province – Farzan & Asadi 2011.

Habitat: *Phoenix dactylifera* L. (Arecaceae), *Vitis vinifera* L. (Vitaceae) – Kamali *et al.* 2001; *Phoenix dactylifera* L. (Arecaceae) – Farzan & Asadi 2011.

Distribution: Nearctic, Neotropical, Afrotropical, Oriental & Western Palearctic.

Genus *Tenuipalpus* Donnadieu

Tenuipalpus Donnadieu, 1875: 139. Type species: *Tenuipalpus palmatus* Donnadieu, 1875.

1. *Tenuipalpus daneshvari* Khosrowshahi & Arbabi

Tenuipalpus daneshvari Khosrowshahi & Arbabi, 1997: 14.

Tenuipalpus daneshvari Khosrowshahi & Arbabi; Rahmani *et al.* 2008: 168; Khanjani *et al.* 2013a.

Iranian records: Sistan & Baluchestan Province – Khosrowshahi & Arbabi 1997.

Habitat: *Solanum melongena* L. (Solanaceae) – Khosrowshahi & Arbabi 1997.

Distribution: Western Palearctic.

2. *Tenuipalpus eriophyoides* Baker

Tenuipalpus eriophyoides Baker, 1948: 59.

Tenuipalpus eriophyoides Baker; Khosrowshahi & Arbabi 1997: 39; Rahmani *et al.* 2008: 168.

Iranian records: Southern Provinces – Kamali *et al.* 1990, Farzan & Asadi 2011.

Habitat: *Phoenix dactylifera* L. (Aecaceae) – Kamali *et al.* 1990, Farzan & Asadi 2011.

Distribution: Western Palearctic & Oriental.

3. *Tenuipalpus euonymi* Khosrowshahi

Tenuipalpus euonymi Khosrowshahi, 1991: 11.

Tenuipalpus euonymi Khosrowshahi; Khosrowshahi & Arbabi 1997: 42; Khanjani *et al.* 2013a; Rahmani *et al.* 2008: 168.

Iranian records: Tehran Province – Khosrowshahi & Arbabi 1997; Kamali *et al.* 2001; Kurdistan Province – Khanjani *et al.* 2013a.

Habitat: *Euonymus* sp. (Celastraceae) – Khosrowshahi 1990; *Robinia pseudoacacia* L. (Fabaceae), *Rosa woodsii* Lindl. (Rosaceae) – Khanjani *et al.* (in press).

Distribution: Western Palearctic.

4. *Tenuipalpus granati* Sayed

Tenuipalpus granati Sayed, 1946: 100.

Tenuipalpus granati Sayed; Khosrowshahi & Arbabi 1997: 35; Rahmani *et al.* 2008: 167; Khanjani *et al.* (in press).

Iranian records: Hamedan, Kerman, Khuzestan & Tehran Provinces – Kamali *et al.* 2001; Asadabad, Hamedan, Hamedan Province – Khanjani *et al.* (in press); Banmazaran, Shalan, Zhalageh, Babajani, Kermanshah Province – Khanjani *et al.* (in press).

Habitat: *Vitis vinifera* L. (Vitaceae) – Khosrowshahi & Arbabi 1997; *Pistacia vera* L. (Anacardiaceae) – Khosrowshahi & Arbabi 1997; *Berberis vulgaris* L. (Berberidaceae) – Khosrowshahi & Arbabi 1997; *Ficus carica* L. (Moraceae) – Kamali *et al.* 2001; *Punica granatum* L. (Lythraceae) – Kamali *et al.* 2001; *Phaseolus vulgaris* L. (Fabaceae) – Kamali *et al.* 2001; *Juglans regia* L. (Juglandaceae) – Khanjani *et al.* (in press); *Cydonia oblonga* Mill. (Rosaceae) – Khanjani *et al.* (in press); *Prunus armeniaca* L. (Rosaceae) – Khanjani *et al.* (in press); *Olea europaea* L. (Oleaceae) – Khanjani *et al.* (in press).

Distribution: Nearctic, Neotropical, Afrotropical, Oriental & Western Palearctic.

5. *Tenuipalpus kamalii* Khosrowshahi & Arbabi

Tenuipalpus kamalii Khosrowshahi & Arbabi, 1997: 11.

Tenuipalpus kamalii Khosrowshahi & Arbabi; Khanjani *et al.* 2013a; Rahmani *et al.* 2008: 168.

Iranian records: Tehran Province – Kamali *et al.* 1990, Khosrowshahi & Arbabi 1997; Hamedan Province – Khanjani *et al.* 2013a.

Habitat: *Fraxinus excelsior* L. (Oleaceae) – Khosrowshahi & Arbabi 1997; *Ligustrum ovalifolium* Hassk. (Oleaceae) – Khanjani *et al.* 2013a.

Distribution: Western Palearctic.

6. *Tenuipalpus parsii* Khosrowshahi & Arbabi

Tenuipalpus parsii Khosrowshahi & Arbabi 1997: 13.

Tenuipalpus parsii Khosrowshahi & Arbabi; Khanjani *et al.* 2013a; Rahmani *et al.* 2008: 168.

Iranian records: Tehran Province – Khosrowshahi & Arbabi 1997.

Habitat: *Plantago lanceolata* L. (Plantaginaceae) – Khosrowshahi & Arbabi 1997.

Distribution: Western Palearctic.

7. *Tenuipalpus portulacae* Parsi *et al.*

Tenuipalpus portulacae Parsi *et al.* 1990: 39.

Tenuipalpus portulacae Parsi *et al.*; Khosrowshahi & Arbabi 1997: 37; Rahmani *et al.* 2008: 168.

Iranian records: Jiroft, Kerman Province – Parsi *et al.* 1990.

Habitat: *Portulacaceae oleraceae* L. (Portulacaceae) – Parsi *et al.* 1990.

Distribution: Western Palearctic.

8. *Tenuipalpus punicae* Pritchard & Baker

Tenuipalpus punicae Pritchard & Baker, 1958: 240.

Tenuipalpus punicae Pritchard & Baker; Khosrowshahi & Arbabi 1997: 38; Khanjani *et al.* 2013a; Rahmani *et al.* 2008: 168.

Iranian records: Generally distributed – Kamali *et al.* 2001; Shalan, Banmazaran & Zhalakeh, Kermanshah Province – Khanjani *et al.* 2013a; Dalfard, Jiroft, Kerman Province – Farzan & Asadi 2011.

Habitat: *Punica granatum* L. (Lythraceae); *Ficus carica* L. (Moraceae) – Kamali *et al.* 2001, Khosrowshahi & Arbabi 1997, Farzan & Asadi 2011, Khanjani *et al.* 2013a.

Distribution: Western Palearctic.

9. *Tenuipalpus shishebouri* Khanjani *et al.*

Tenuipalpus shishebouri Khanjani *et al.*, 2013a.

Iranian records: Darab, Fars Province, Shalan village, Kermanshah Province – Khanjani *et al.* 2013a.

Habitat: *Punica granatum* L. (Lythraceae) – Khanjani *et al.* 2013a.

Distribution: Western Palearctic.

References

- Akbar, S. & Chaudhri, W.M. (1985) New species of the genus *Cenopalpus* (Acari: Tenuipalpidae) from Pakistan and their phonetic affinities. *Acarologia*, 26(3): 269–287.
- Al-Gboory, I. (1987) Taxonomic studies of false spider mites (Acari: Tenuipalpidae) in central Iraq. Ph. D. Thesis—*Institut für angewandte Zoologie der Rheinischen Friedrich-Wilhelms—Universität Bonn*, Bonn, 205 pp.

- Attiah, H.H. (1956) The genus *Brevipalpus* in Egypt (Acarina: Tenuipalpidae). *Bulletin de la Société Entomologique, d'Egypte*, 40: 433–477.
- Bagdasarian, A.T. (1962) Contribution to the fauna false spider mites from Armenia. *Izvestiia Akademii Nauk SSR, Moscow*, 15: 49–58.
- Baker, E.W. (1948) A new tetranychid mite which further indicates a phylogenetic relationship between the Tetranychidae and Eriophyidae. *Proceedings of the Entomological Society of Washington*, 50(3): 59–60.
- Baker, E.W. (1949) The genus *Brevipalpus* (Acarina: Pseudoleptidae). *The American Midland Naturalist*, 42(2): 350–402.
- Baker, E.W. Tuttle, D.M. & Abbatiello, M.J. (1975) The false spider mites of northwestern and north central Mexico (Acarina: Tenuipalpidae). *Smithsonian Contributions to Zoology*, 194: 1–22.
- Banks, N. (1912) New American mites. *Proceedings of the Entomological Society of Washington*, 14: 96–102.
- Blanchard, E.E. (1940) Tres ácaros dañinos para los cultivos argentinos. *Revista de la Facultad de Agronomía de La Plata*, 24: 11–18.
- Bruyant, L. 1911. *Pseudoleptus arechavaletae* n. gen. n. sp. nouvel Acarien Chélétiné de l'Uruguay. *Zoologischer Anzeiger*, 38: 340–345.
- Canestrini, G. & Fanzago, F. (1876) Nuovi acari Italiani. *Atti Academia Cientifico Veneto, Trentino, Istriana, Pádua, Italy*, 5: 130–142.
- Chaudhri, W.M. (1972) The genus *Brevipalpus* in Pakistan. I. Description of six new species and redescription of one species, with new records. *Pakistan Journal of Zoology*, 4(1): 53–68.
- De Leon, D. (1961c) New false spider mites with notes on some previously described species (Acarina: Tenuipalpidae). *Florida Entomologist*, 44(4): 167–179.
- Donnadieu, A.L. (1875) Recherches pour servir a l'histoire des Tétranyques. Thèses. *Faculté des Sciences de Lyon—France*, 131pp.
- Dosse, G. (1971). Die familie Tenuipalpidae in Iran (Acari). *Pflanzenkrankheiten und Pflanzenschutz*, 78: 577–585.
- Düzgünes, Z. (1967) Two new species of the genus *Cenopalpus* (Acarina: Tenuipalpidae). *Yearbook Ankara Universitesi Basimevi. Faculty of Agriculture*, 90–98.
- Ewing, H.E. (1917) New Acarina part II. Descriptions of new species and varieties from Iowa, Missouri, Illinois, Indiana and Ohio. *Bulletin of the American Museum of Natural History*, 37: 149–172.
- Farzan, S. Asadi, M. & Ueckermann E.A. (2012) Redescription of *Aegyptobia pavlovskii* (Reck, 1951) (Acari: Trombidiformes: Tenuipalpidae) with new host records from Iran. *Persian Journal of Acarology*, 2: 85–92.
- Farzan, S. Asadi, M. Ueckermann E. A. & Shirvani, A. (2012) Two new flat mite species of the genus *Aegyptobia* Sayed, 1950 (Acari: Trombidiformes: Tenuipalpidae) from Iran. *Zootaxa*, 3518: 79–88.
- Geijskes, D.C. (1939) Beiträge zur kenntnis der europäischen spinnmilben (Acari, Tetranychidae), mit besonderer berücksichtigung der Niederländischen arten. *Mededeelingen van de Landbouwboogeschool—Wageningen*, 42: 1–68.
- González, R.H. (1975) Revision of the *Brevipalpus phoenicis* “complex” with descriptions of new species from Chile and Thailand (Acarina: Tenuipalpidae). *Acarologia*, 17(1): 81–91.


- Hirst, S. (1924) On some new species of red spider. *Annals and Magazine of Natural History Serie*, 9(14): 522–527.
- Khanjani, M. (2012) Taxonomic studies of false spider mite (Tenuipalpidae) in west of Iran, M. Sc. thesis in Agricultural Entomology, *Bu Ali-Sina University, Hamedan, Iran*, 120 pp.
- Khanjani, M., Asadabadi, A. & Izadi, H. (2011) A false spider mite *Dolichotetranychus kermanicus* sp. nov. (Acari: Tenuipalpidae) from southeast Iran. *Systematic & Applied Acarology*, 16: 90–96.
- Khanjani, M., Gotoh, T. (2008) False spider mites of the genus *Pentamerismus* McGregor (Acari: Tenuipalpidae) from Iran. *Zootaxa*, 1768: 52–60.
- Khanjani, M., Gotoh, T. & Barimani Varandi, H. (2008) A new species of the genus *Aegyptobia* Sayed (Acari: Prostigmata, Tenuipalpidae) from Iran. *Systematic & Applied Acarology*, 13: 65–69.
- Khanjani, M., Khanjani, M. & Seeman, O. (2012a) The false spider mites of the genera *Aegyptobia* Sayed and *Phytoptipalpus* Trägårdh (Acari: Tenuipalpidae) from Iran. *Zootaxa*, 3295: 30–58.
- Khanjani, M., Khanjani, M., Saboori, A. & Seeman, O. (2012b) Three new false spider mites of the genus *Pseudoleptus* Bruyant (Acari: Tenuipalpidae) from Iran. *Zootaxa*, 3297: 41–56.
- Khanjani, M., Khanjani, M., Saboori, A. & Seeman, O. (2012c) The false spider mites of the genus *Cenopalpus* Pritchard & Baker (Acari: Tenuipalpidae) from Iran. *Zootaxa*, 3433: 1–59.
- Khanjani, M., Khanjani, M. & Seeman, O. (2013) The false spider mites of the genus *Tenuipalpus* Donnadieu (Acari: Tenuipalpidae) from Iran. *International Journal of Acarology*, (in press).
- Khanjani, M., Zahiri, B., Khanjani, M. (2013) A new species of *Aegyptobia* (Acari: Tenuipalpidae) from Hamedan Province, Iran. *Persian Journal of Acarology*, 2(1): 49–55.
- Khosrowshahi, M. (1991) Three new species of false spider mites (Acari: Tenuipalpidae) from Iran. *Applied Entomology and Phytopathology*, 58(1/2): 5–14.
- Khosrowshahi, M. & Arbabi, M. (1997) The Tenuipalpidae (Acari) of Iran with introduction of new species for the world fauna and Iran. *Plant Pests and Diseases Research Institute Publication, Tehran*, 56 pp.
- Livschitz, I.Z. & Mitrofanov, V.I. (1967) Materials to the knowledge of the fauna of the false spider mites (Acariformes: Tenuipalpaes). *Proceedings of Nikitsky Botanic Garden*, 39: 1–72.
- McGregor, E.A. (1914) Four new tetranychids. *Annals of the Entomological Society of America*, 7: 354–365.
- McGregor, E.A. (1949) Nearctic mites of the family Pseudoleptidae. *Memoir of the Southern California Academy of Sciences*, 3(2): 1–45.
- Mitrofanov, V.I. & Strunkova, Z.I. (1978) A new genus and species of the family Tenuipalpidae (Trombidiformes). *Zoologicheskii Zhurnal*, 52: 1095–1099.
- Mohanasundaram, M. (1996) A new tenuipalpid mite, *Neoraiella eugeniae* gen et sp. nov. from south India (Tenuipalpidae: Acari). *Journal of Entomology Research*, 20(2): 141–143.
- Mesa, N.C., Ochoa, R., Welbourn, W.C., Evans, G.A. & de Moraes, G.J. (2009) A catalog of the Tenuipalpidae (Acari) of the World with a key to genera. *Zootaxa*, 2098: 1–185.

- Meyer, M.K.P. (1979) The Tenuipalpidae (Acari) of Africa with keys to the world fauna. *Entomology Memoir, Department of Agriculture Republic South Africa, Pretoria*, 50: 1–33.
- Parsi, B. & Khosrowshahi, M. (1990) A new species of false spider mite (Acari: Tenuipalpidae) from Iran. *Applied Entomology & Phytopathology of Iran*, 57(1, 2): 37–40.
- Parsi, B. Khosrowshahi, M. & Farid, A. (1990) *Tenuipalpus portulacae* sp. n. a new species of false spider mites (Acari: Tenuipalpidae) from Iran. *Journal of the Entomological Society of Iran*, 10(1/2): 39–42.
- Pritchard, A.E. & Baker, E.W. (1958) The false spider mites (Acarina: Tenuipalpidae). *University of California Publications in Entomology*, 9: 1–94.
- Rahmani, H. Kamali, K. & Fathipour, Y. (2008) A new record for Iranian false spider mites with key to the known species of Tenuipalpidae (Acari: Prostigmata) in Iran. *Turkey Entomology derg*, 32(3): 163–175.
- Reck, G. (1951) Kleshchirodov *Tenuipalpus*, *Brevipalpus* e *Brevipalpoides* (Trichadenidae, Acarina) po materialam iz grunzii. *Trudy Instituta Zoologii Akademiya Nauk Gruz SSR*, 10: 289–297.
- Rimando, L.C. (1962) The tetranychoid mites of the Philippines. *University of Philippines, College Agricultural. Laguna, Technical Bulletin*, 11: 1–52.
- Rübsaamen, E.W. (1910) Über deutsche Gallmücken und Gallen. *Zoologischen Wiss InsektenBiologie*, 6: 125–133.
- Sadana, G.L. & Gupta, B.K. (1983) Phytophagous mite fauna of Assam together with new records and new species. *Entomon*, 8(1): 1–6.
- Siddiqui, E.M. & Chaudhri, W.M. (1972) Three new species of mites of the genus *Tenuipalpus* from Pakistan (Tenuipalpidae). *Pakistan Journal of Scientific Research*, 24(3/4): 328–332.
- Sayed, M.T. (1938) Sur une nouvelle sous-famille et deux nouveaux genres de Tétranyques (Acarins). *Bulletin du Muséum National d'Histoire Naturelle, Paris (série 2)*, 10: 601–610.
- Sayed, M.T. (1946) Description of *Tenuipalpus granati* nov. sp. and *Brevipalpus pyri* nov. sp. (Acarina: Trichadenidae). *Bulletin of the Society Fouad Ier. Entomology*, 30: 99–103.
- Sayed, M.T. (1950) Description of a new genus and two new species of the family Tenuipalpidae Sayed (Acarina). *Proceedings of the 8th International Congress of Entomology, Stockholm, Sweden*, 1018–1021.
- Strunkova, Z.I. (1978) Fauna mites of families Bryobiidae, Tetranychidae, Tenuipalpidae from Tadzhikistan and adjacent areas of the central Asia. *Izvestiia Akademii nauk Tadzhikskoï SSR, Stalinabad*, 3: 27–30.
- Trägårdh, I. (1904) Acariden aus Ägypten und dem Sudan. K.W. Appelbergs boktryckeri, Stockholm. 124 pp.
- Wainstein, B.A. (1958) A contribution to the knowledge of the fauna and the taxonomy of spider mites (Acariformes, Tetranychoida). *Revue d'Entomologie de l'URSS*, 37: 455–459.
- Wainstein, B.A. (1960) Tetranychoid mites of Khazakhstan (with revision of the family). *Issledoniya Institut Zash Rast Trudy, Moscow*, 5: 231–248.

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فهرست کنه های تارتن دروغین (*Acari: Trombidiformes: Tenuipalpidae*)

ایران

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چکیده

۵۹ گونه در غالب ۱۱ جنس شامل گونه‌های توصیف شده، گزارش شده و مترادف از خانواده *Tenuipalpidae* در ایران گزارش می‌شود. از این تعداد ۲۹ گونه (۴۷/۴٪) بومی ایران و سایرین به شرح زیر است: نئوتروپیکال (۱۳/۵٪)، نئوتروپیکال (۱۰/۱٪)، آفروتروپیکال (۶/۷٪) و پالئوآرکتیک شرقی (۵٪)، ارینتال (۱۰/۱٪)، استرالیا (۵٪) و جزایر اقیانوس آرام (۳/۳٪). بر اساس مطالعات اولیه بیشترین شمار گونه‌های کنه‌های این خانواده در ایران در درجه نخست متعلق به جنس *Cenopalpus* و سپس جنس‌های *Tenuipalpus* و *Aegyptobia* است.

واژگان کلیدی: کنه‌های تارتن دروغین، گونه، مترادف‌ها، گزارش‌های جدید

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