ACARORUM
CATALOGUS
VII

Trombidiformes
Prostigmata
Raphignathoidea

Fam. Barbutiidae, Caligonellidae,
Camerobiidae, Cryptognathidae,
Dasythyreidae, Dytiscacaridae,
Eupalopsellidae, Homocaligidae,
Mecognathidae, Raphignathidae, Stigmaeidae,
Xenocaligonellididae

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ACARORUM CATALOGUS VI

Order Mesostigmata.
Gamasina: Dermanyssoidea
(Rhinonyssidae, Spinturnicidae)

Petar Beron

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Introduction

The 7th volume of my series “Acarorum Catalogus” concerns the mite superfamily Raphignathoidea. The 12 families of this superfamily consist of 69 genera and some 1087 species and are being studied intensely, particularly by acarologists from China, South Africa, Turkey, Iran, Crimea and other countries or areas. Some members of the Raphignathoidea are suitable for biological pest control (Gerson & Smiley 1990, Gerson, Smiley & Ochoa, 2003).
The Mite Superfamily Raphignathoidea

Raphignathoidea Kramer, 1877; Grandjean, 1944: 104

The superfamily Raphignathoidea contains many predators of small invertebrates. Some are herbivores and others parasites. Some of the predatory Raphignathoidea are suitable for biological pest control. They are bred and released to control such plant pests as gall mites (Eriophyidae), spider mites (Tetranychidae) or scale insects (Coccoidea) in agriculture and forestry.

This is a diverse and widespread group of mites, containing about 69 genera and some 1087 species in 12 families: Barbutiidae, Caligonellidae, Camerobiidae, Cryptognathidae, Dasythyreidae, Dytiscacaridae, Eupalopsellidae, Homocaligidae, Mecognathidae, Raphignathidae, Stigmaeidae, and Xenocaligonellidae. Nine of them have been described after 1944. Half of all genera and most of all species of the superfamily (636 species) form the biggest family Stigmaeidae, several other families consisting of few and rarely found species (Barbutiidae, Dasythyreidae, Homocaligidae, Mecognathidae and Xenocaligonellidae contain less than ten known species). The recently described family Dytiscacaridae contains so far only three species.

Until the end of 19th Century have been described only two valid genera (Raphignathus Dugès, 1834 and Stigmaeus Koch, 1836) and several valid species by Dugès, C.L. Koch, Kramer, Berlese and Canestrini. By 1944 only three families (Raphignathidae Kramer, 1877, Cryptognathidae Oudemans, 1902 and Stigmaeidae Oudemans, 1931) were in scientific use, with 9 valid genera. Starting with the description of Caligonellidae Grandjean, 1944, a real revolution took place in the system of Raphignathoidea, with the description of Eupalopsellidae Willmann, 1952, Camerobiidae Southcott, 1957, Homocaligidae Wood, 1970, Barbutiidae Robaux, 1975, Xenocaligonellidae Gonzalez, 1978, Dasythyreidae Walter et Gerson, 1998 and Mecognathidae Gerson et Walter, 1898, of many new genera and species by acarologists from South Africa, New Zealand, Australia, Brazil, Turkey, Iran, India, China (incl. Taiwan), Japan, USA, Israel, Holland, France, Germany, Ireland, Pakistan, Egypt, Russia, Ukraine, the Philippines, and other countries. In some countries (New Zealand, China, Turkey, Iran) the research has been particularly intensive, resulting of long lists of genera and species, only to indicate the minimal knowledge we have about the Raphignathoid mites of most other countries.

Some revisions and surveys took place. We shall mark here only the ones on Camerobiidae (Bolland, 1986, 1991), Caligonellidae (Summers & Schlinger, 1955), Eupalopsellidae (Meyer (Smith) & Ueckermann, 1984), Stigmaeidae, Barbutiidae (Fan, Walter & Proctor, 2003), The lists of Raphignathoidea of Turkey (Doğan, 2007, 2019), Pakistan (Halliday, Kamran & Bashir, 2018), China (Cheng & Fan, 2008, 2010), Hawaii (Swift, 1996), South Africa (Meyer-Smith & Ueckermann, 1989), Iran (Beyzavi et al., 2013) and especially the modern fauna of New Zealand (Fan & Zhang, 2005) should also be noted. A modern
annotated catalogue of the largest family (Stigmaeidae) is due to Fan, Flechtmann & de Moraes (2016, 2019).

**Some General Reference**


Acarorum Catalogus VII


O’Dowd D. J. 1994. Mite association with the leaf domatia of coffee (Coffea arabica) in north Queensland, Australia. – Bulletin of Entomological Research, 84: 361–366


Oudemans A.C. 1902. Acari, neue Arten, Klassification. – Tijdschrift voor Entomologie, 45: 50–64


Spongoski Sh. 2008. Ácaros em aceroleira (Malpighia emarginata Sessé e Moc. ex DC) e goiabeira (Psidium guajava L.) em Campinas, São Paulo, com fase na família Stigmaeidae, e lista de espécies dos acaros desta família. – Univ. de São Paulo, Piracicaba.


Wood T.G. 1970. Micro-arthropods from soils of the arid zone in Southern Australia. – Search, 1: 75


The Mite Family Barbutiidae Robaux

Barbutiidae Robaux, 1975: 480

Small family, known from Europe, Asia (Turkey, Iran), Australia and North America. To its study contributed mostly Oudemans (1927) who described the genus Barbutia, Robaux (1975) who raised it to family rank and described two more species from North America, the Iranian and Turkish acarologists and Fan, Walter & Proctor (2003) who added two more species from Australia.

Composition of Barbutiidae

Fam. Barbutiidae Robaux, 1975 – 1 gen., 5 sp.

Barbutia Oudemans, 1927 – 5 sp.

Catalogue of Barbutiidae

Fam. Barbutiidae Robaux, 1975: 487
Type genus: Barbutia Oudemans, 1927

Genus Barbutia Oudemans

Barbutia Oudemans, 1927: 262
Type species: Stigmaeusanguineus Berlese, 1910

Barbutiaanguineus (Berlese)

Stigmaeusanguineus Berlese, 1910: 204
Stigmaeus (Macrostigmaeus)anguineus Berlese, 1910: 208
Type locality: S. Vicenzo, Pisa (Italy)
Distribution: Canada, Crimea, Italy, Poland, Turkey, USA

Barbutiaaustralia Fan, Walter et Proctor

Barbutiaaustralia Fan, Walter & Proctor, 2003: 112; Navaei-Bonab et al., 2010; Beyzavi et al., 2013: 390
Type locality: Queensland, Toohey Forest, Nathan
Distribution: Australia, Iran

*Barbutia iranensis* Bagheri, Navaei & Ueckermann
Type locality: Marand, East Azerbaijan Province, Iran
Distribution: Iran, Turkey

*Barbutia longinqua* Fan, Walter et Proctor
*Barbutia longinqua* Fan, Walter & Proctor, 2003: 125
Type locality: New South Wales, northern sites
Distribution: Australia

*Barbutia perretae* Robaux
Type locality: California, Point Lobos State Reserve Park (Monterey Co.)
Distribution: USA (California)

**Index of Barbutiidae**

(Names in **bold** are accepted as valid)

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</table>

**Distribution of Barbutiidae**

**EUROPE**

**Italy** (contin.)(Berlese, 1910) – *Barbutia anguineus*

**Poland** (Doğan et al., 2014) – *Barbutia anguineus*

**Crimea** (Wainstein & Kuznetsov, 1978; Khaustov & Sergeyenko, 2014) – *Barbutia anguineus*

**Turkey** (all)(Doğan & Dönel, 2009; Doğan Sibel et al., 2016) – *Barbutia anguineus, B. iranensis*
ASIA
Iran (Bagheri et al., 2010; Navaei-Bonab et al., 2010, 2012; Beyzavi et al., 2013) – Barbutia australis, B. iranensis

NORTH AMERICA
Canada (Smith, 1987; Lafontain et al., 1987; Beaulieu et al., 2019) – Barbutia anguineus
USA (Summers, 1964; Robaux, 1975) – Barbutia anguineus, B. perretae

OCEANIA
Australia (mainland) (Fan, Walter & Proctor, 2003) – Barbutia australis, B. longinqua

Bibliography of Barbutiidae


The Mite Family Caligonellidae Grandjean

Caligonellidae Grandjean, 1944: 105

The Caligonellidae include five genera and ca. 60 species (plus many other undescribed species of *Neognathus* from dry soils in western North America and Australia). They are small, mostly soft bodied orange to red mites associated with dry soils, but are also found on bark, in bird nests, on low growing plants, and occasionally in litter overlying wet soil (Walter, Lindquist, Smith, Cook & Krantz, 2009). The family was studied mainly by Berlese (the first described genus *Caligonella* in 1910, after the species *Stigmaeus humilis* C.L. Koch), Grandjean, who raised this only known genus in 1944 as a separate family. Followed the article of Willmann (1952), the revision of Summers & Schlinger (1955), the phylogenetic analysis of Fan (2000) and the many contributions of acarologists from China, USA (incl. Hawaii), Iran, Turkey, Ukraine, Russia, South Africa, Egypt, Israel, Pakistan, and other countries.

### Composition of Caligonellidae

Fam. **Caligonellidae** Grandjean, 1944 – 5 gen., 61 sp.

- *Caligonella* Berlese, 1910 – 10 sp.
- *Coptocheles* Summers et Schlinger, 1955 – 9 sp.
- *Paraneognathus* Fan, 2000 – 5 sp.

### Catalogue of Caligonellidae

Fam. **Caligonellidae** Grandjean

Caligonellidae Grandjean, 1944: 105

Type genus: *Caligonella* Berlese, 1910

Genus **Caligonella** Berlese

*Caligonella* Berlese, 1910: 203

Type species: *Stigmaeus humilis* C.L. Koch, 1838

**Caligonella afroensis** Smith-Meyer et Ueckermann

*Caligonella afroensis* Smith-Meyer & Ueckermann, 1989: 20; Haddad Irani-Nejad et al., 1999; Beyzavi et al., 2013: 390
Type locality: Edenville, Orange Free State
Distribution: Iran, South Africa

**Caligonella claviparma** Smith-Meyer et Ueckermann
*Caligonella claviparma* Smith-Meyer & Ueckermann, 1989: 20
Type locality: Edenville, Orange Free State
Distribution: South Africa

**Caligonella geonoma** Smith-Meyer et Ueckermann
*Caligonella geonoma* Smith-Meyer & Ueckermann, 1989: 23
Type locality: Transvaal, Dendron
Distribution: South Africa

**Caligonella haddadi** Bagheri, Maleki et Changizi
*Caligonella haddadi* Bagheri, Maleki & Changizi, 2013: 632; Yamaç et al., 2019; Doğan, 2019: 131
Type locality: Chors village, Chaypareh, West Azerbaijan, Iran
Distribution: Iran, Turkey

**Caligonella humilis** (C.L. Koch)
*Stigmaeus humilis* C.L. Koch, 1838: Fasc. 17; 1842: 54
*Caligonus humilis* (C.L. Koch): Berlese, 1886: Fasc. XXII, No 5
Type locality: Germany
Distribution: Azerbaidjan, Crimea, Germany, Hungary, Iran, Italy, Latvia, Lituania, Poland, Slovakia, Switzerland, Turkey, Ukraine, USA (California)

**Caligonella saboorii** Hoseini, Khanjani et Javadi Khaderi
*Caligonella saboorii* Hoseini, Khanjani & Javadi Khaderi, 2014: 474
Type locality: Khorramabad, Lorestan Prov.
Distribution: Iran

**Caligonella scutovata** Smith-Meyer et Ueckermann
*Caligonella scutovata* Smith-Meyer & Ueckermann, 1989: 18
Type locality: Transvaal, Nwanezi River, Kruger Nat. Park
Distribution: South Africa
**Caligonella tunica** Fan
*Caligonella tunica* Fan, 2000: 423; Fan & Chen, 2010: 126
Type locality: Pucheng; Fujian
Distribution: China

**Caligonella tunxiensis** Hu et Hu
Type locality: Huangshan, Tunxi; Anhui
Distribution: China

**Caligonella urhani** Akyol
*Caligonella urhani* Akyol, 2018: 2339; Doğan, 2019: 132
Type locality: Turkey
Distribution: Turkey

**Genus Coptocheles** Summers et Schlinger
*Coptocheles* Summers & Schlinger, 1955: 548
Type species: *Coptocheles triscutatus* Summers & Schlinger, 1955

**Coptocheles boharti** Summers et Schlinger
*Coptocheles boharti* Summers & Schlinger, 1955: 549
Type locality: Florida, Punta Rassa
Distribution: Mexico, USA (Florida)

**Coptocheles farsiensis** Ueckermann, Khademi et Saboori
*Coptocheles farsiensis* Ueckermann, Khademi & Saboori, 2010: 243; Beyzavi et al., 2013: 390
Type locality: Jahrom, Fars Province
Distribution: Iran

**Coptocheles grandjeani** Robaux
*Coptocheles grandjeani* Robaux, 1975: 236
Type locality: California, Lexington Reservoir nr. San Jose (Sta Clara County)
Distribution: USA

**Coptocheles kalapanaensis** Swift
*Coptocheles kalapanaensis* Swift, 1996: 315
Type locality: Hawaii
Distribution: Hawaii

**Coptocheles nakaharai** Swift
*Coptocheles nakaharai* Swift, 1996: 314
Type locality: Hawaii
Distribution: Hawaii

_Coptocheles peltatus_ Smith-Meyer et Ueckermann
_Coptocheles peltatus_ Smith-Meyer & Ueckermann, 1989: 15
Type locality: Orange Free State
Distribution: South Africa

_Coptocheles shaowuensis_ Fan
_Coptocheles shaowuensis_ Fan, 2000: 425; Fan & Chen, 2010: 126
Type locality: Shaowu; Fujian
Distribution: China

_Coptocheles solanii_ Swift
_Coptocheles solanii_ Swift, 1996: 316
Type locality: Hawaii
Distribution: Hawaii

_Coptocheles triscutatus_ Summers et Schlinger
_Coptocheles triscutatus_ Summers & Schlinger, 1955: 548
Type locality: Walker Pass, Kern Co., California
Distribution: USA (California)
_Coptocheles_ nr. _boharti_ and _C. nr. triscutatus_ (Hawaii, Goff, 1987: 25)

Genus _Molothrognathus_ Summers et Schlinger
_Molothrognathus_ Summers & Schlinger, 1955: 543
Type species of _Molothrognathus_: _Molothrognathus leptostylus_ Summers et Schlinger, 1955

_Molothrognathus azizi_ Ueckermann et Khanjani
_Molothrognathus azizi_ Ueckermann & Khanjani, 2003: 295; Beyzavi et al., 2013: 391
Type locality: Hamedan
Distribution: Iran

_Molothrognathus bahariensis_ Ueckermann et Khanjani
_Molothrognathus bahariensis_ Ueckermann & Khanjani, 2003: 293; Navaei-Bonab, Bagheri & Zarei, 2012: 71; Beyzavi et al., 2013: 391
Type locality: Hamedan
Distribution: Iran
**Molothrognathus brasiliensis** Silva, Brentino et Ferla
*Molothrognathus brasiliensis* Silva, Brentino & Ferla, in Silva et al., 2017: 479
Type locality: Brazil
Distribution: Brazil

**Molothrognathus citrivallis** Smith-Meyer et Ueckermann
*Molothrognathus citrivallis* Smith-Meyer & Ueckermann, 1989: 26
Type locality: Cape Province, Citrusdal
Distribution: South Africa

**Molothrognathus colei** Swift
*Molothrognathus colei* Swift, 1996: 319
Type locality: Hawaii
Distribution: Hawaii

**Molothrognathus conantae** Swift
*Molothrognathus conantae* Swift, 1996: 320
Type locality: Hawaii
Distribution: Hawaii

**Molothrognathus crucis** Summers et Schlinger
Type locality: California, Tahoe Valley, El Dorado Co.
Distribution: Turkey, USA (California)

**Molothrognathus dilucidus** Kuznetsov
*Molothrognathus dilucidus* Kuznetsov, 1978: 53
Type locality: Crimea
Distribution: Crimea

**Molothrognathus flatichelus** Smith-Meyer et Ueckermann
*Molothrognathus flatichelus* Smith-Meyer & Ueckermann, 1989: 24
Type locality: Transvaal, Dendron
Distribution: South Africa

**Molothrognathus fulgidus** Summers et Schlinger
Type locality: California, Woodland
Distribution: Iran, Israel, Lebanon, Pakistan, USA

*Molothrognathus kamili* Doğan
Type locality: Akveren Village, Hınıs, Erzurum
Distribution: Turkey

*Molothrognathus kurdistaniensis* Amini, Khanjani et Khanjani
*Molothrognathus kurdistaniensis* Amini, Khanjani & Khanjani, 2018: 875
Type locality: Qorveh
Distribution: Iran

*Molothrognathus leptostylus* Summers et Schlinger
Type locality: Winters, California
Distribution: Canada, India, Pakistan, USA (California)

*Molothrognathus mehrnejadi* Liang et Zhang
Type locality: Rafsanjan
Distribution: Iran

*Molothrognathus mikaeeli* Bagheri et Ahaniazad
*Molothrognathus mikaeeli* Bagheri & Ahaniazad, 2012: 373; Beyzavi et al., 2013: 391
Type locality: Danalo Village, Ajabshir, East Azarbaidjan Prov.
Distribution: Iran

*Molothrognathus minutus* Soliman
*Molothrognathus minutus* Soliman, 1972: 96; Smith-Meyer & Ueckermann, 1989: 26; Khanjani & Kamali, 1993; Beyzavi et al., 2013: 391
Type locality: Egypt
Distribution: Egypt, Iran

*Molothrognathus paratumipapus* Bagheri, Maleki et Changizi
*Molothrognathus paratumipapus* Bagheri, Maleki & Changizi, 2013: 634
Type locality: Chors village, Chaypareh, West Azerbaijan Prov.
Distribution: Iran
**Molothrognathus parmatus** Smith-Meyer et Ueckermann
*Molothrognathus parmatus* Smith-Meyer & Ueckermann, 1989: 28
Type locality: 21 km south of Spingbok, Cape Province
Distribution: South Africa

**Molothrognathus phytocolus** Smith-Meyer et Ueckermann
Type locality: Messina, Transvaal
Distribution: Iran, South Africa, Turkey, Yemen

**Molothrognathus rosei** Smiley et Moser
*Molothrognathus rosei* Smiley & Moser, 1968: 309
Type locality: Puebla
Distribution: Mexico

**Molothrognathus seelyae** (André)
*Namibarbutia seelyae* André, 1996: 99
Type locality: Namibia, Namib desert, gravel plain near Mirabeb
Distribution: Namibia

**Molothrognathus seusius** Soliman et Gomaa
*Molothrognathus seusius* Soliman & Gomaa, 1980: 22
Type locality: Rafsanjan
Distribution: Iran

**Molothrognathus shirazicus** Khanjani, Bakhshi et Khanjani
*Molothrognathus shirazicus* Khanjani, Bakhshi & Khanjani, 2016: 291
Type locality: Shiraz
Distribution: Iran

**Molothrognathus terrulentus** Smith-Meyer et Ueckermann
Type locality: Orange-Free-State, Edenville
Distribution: Iran, South Africa, Turkey
**Molothrognathus tumipalpus** Smith-Meyer et Ueckermann

*Molothrognathus tumipalpus* Smith-Meyer & Ueckermann, 1989: 26; Changizi et al., 2011; Beyzavi et al., 2013: 392

Type locality: Dendron, Transvaal

Distribution: Iran, South Africa

**Molothrognathus venusta** (Khaustov et Kuznetzov)

*Caligonella venusta* Khaustov & Kuznetzov, 1997: 80

*Molothrognathus artvinensis* Koç & Ayyıldız, 1997: 47 – type from Artvin, Sivas, Rabat

– syn. by Doğan, 2003: 69

*Molothrognathus venusta* (Khaustov et Kuznetzov): Koç & Ayyıldız, 1997a; Doğan, 2003: 69; 2007: 2; 2019: 132; Erman et al., 2007; Doğan et al., 2015d

Type locality: Ukraine, Kharkovskaia oblast, Zimovkiy rayon, v. Andreevka

Distribution: Turkey, Ukraine

**Molothrognathus washingtonia** McGregor

*Molothrognathus washingtonia* McGregor, 1959: 112

Type locality: California

Distribution: USA

**Molothrognathus** sp. – Negm, 2014: 114

Distribution: United Arab Emirates

Genus **Neognathus** Willmann

*Neognathus* Willmann, 1952: 163

*Stigmagnathus* Summers & Schlinger, 1955: 546. Type species: *Stigmagnathus terrestris*


Type species: *Neognathus insolitus* Willmann, 1952

**Neognathus cinis** Chaudhri, Akbar et Rasool

*Neognathus cinis* Chaudhri, Akbar & Rasool, 1979: 143

Type locality: Pakistan

Distribution: Pakistan

**Neognathus davei** Smith-Meyer et Ueckermann

*Neognathus davei* Smith-Meyer & Ueckermann, 1989: 18

Type locality: Transvaal, Pongola

Distribution: South Africa
**Neognathus eupalopus** Smith-Meyer et Ueckermann  
*Neognathus eupalopus* Smith-Meyer & Ueckermann, 1989: 17; Changizi et al., 2011; Doğan & Doğan, 2019; Beyzavi et al., 2013: 392; Doğan, 2019: 132  
Type locality: Edenville, Orange Free State  
Distribution: Iran, South Africa, Turkey

**Neognathus harteni** Ueckermann  
*Neognathus harteni* Ueckermann, 2008: 33  
Type locality: Shardjah Desert Park, UAE  
Distribution: United Arab Emirates

**Neognathus insolitus** Willmann  
*Neognathus insolitus* Willmann, 1952: 163  
Type locality: Wangerooge Island  
Distribution: Germany

**Neognathus jieiui** Hu et Yu  
Type locality: China  
Distribution: China

**Neognathus linanensis** Hu  
Type locality: China  
Distribution: China

**Neognathus orientalis** Soliman  
*Neognathus orientalis* Soliman, 1972: 102; Smith-Meyer & Ueckermann, 1989: 18  
Type locality: Egypt  
Distribution: Egypt

**Neognathus ozkani** Akyol et Koç  
*Neognathus ozkani* Akyol & Koç, 2012: 40; Akyol, 2017; Koç & Poyraz Tınartaş, 2017a; Doğan, 2019: 132  
Type locality: Ablak Village, Emirdag District  
Distribution: Turkey

**Neognathus pusillus** Doğan et Doğan  
*Neognathus pusillus* Doğan & Doğan, 2019b; Doğan, 2019: 132  
Type locality: Turkey  
Distribution: Turkey
**Neognathus rijabicus** Nazari, Khanjani et Kamali

*Neognathus rijabicus* Nazari, Khanjani & Kamali, 2013: 476  
Type locality: Dalahoo, Rijab, Kermanshah Prov.  
Distribution: Iran

**Neognathus sinaei** Samadpour, Khanjani et Azalifayaz  
*Neognathus sinaei* Samadpour, Khanjani & Azalifayaz, 2014: 146  
Type locality: Mallayer vic., Hamedan Prov.  
Distribution: Iran

**Neognathus spectabilis** (Summers et Schlinger)  
*Stigmagnathus spectabilis* Summers & Schlinger, 1955: 546  
Type locality: California  
Distribution: Hungary, Iran, Israel, Latvia, Turkey, Ukraine, USA (California and Hawaii)

**Neognathus terrestris** (Summers et Schlinger)  
*Stigmagnathus terrestris* Summers & Schlinger, 1955: 547  
Type locality: Glendale, California  
Distribution: Canada, Crimea, Hungary, Iran, Turkey, USA (California)

**Neognathus ueckermanni** Bagheri, Doğan et Haddad Irani-Nejad  
*Neognathus ueckermanni* Bagheri, Doğan & Haddad Irani-Nejad, 2010: 66; Beyzavi et al., 2013: 392; Dilkaraoğlu et al., 2014; 2015e; Doğan et al., 2018d; Doğan, 2019: 132  
Type locality: Lahijan Village, Osku, East Azerbaijan (Iran)  
Distribution: Iran, Turkey

Genus **Paraneognathus** Fan  
*Paraneognathus* Fan, 2000: 423  
*Sinognathus* Fan & Li, 1995: 323 [praeocc. Young 1959]  
Type species: *Sinognathus wangae* Fan et Li, 1995
**Paraneognathus afrasiaticus** (Soliman)
*Neognathus afrasiaticus* Soliman, 1972: 97; Smith-Meyer & Ueckermann, 1989: 17
*Paraneognathus afrasiaticus* (Soliman): Fan, 2000: 423  
Type locality: Egypt  
Distribution: Egypt

**Paraneognathus oblongus** (Soliman)
*Neognathus oblongus* Soliman, 1972: 100; Smith-Meyer & Ueckermann, 1989: 17
*Paraneognathus oblongus* (Soliman): Fan, 2000: 423; Noei et al., 2008; Beyzavi et al., 2013: 392  
Type locality: Egypt  
Distribution: Egypt, Iran

**Paraneognathus summersi** (Gerson)
*Neognathus summersi* Gerson, 1968: 429  
*Paraneognathus summersi* (Gerson): Fan, 2000: 423  
Type locality: Rehovot  
Distribution: Israel

**Paraneognathus vulsus** (Chaudhri, Akbar et Rasool)
*Neognathus vulsus* Chaudhri, Akbar & Rasool, 1979: 141  
*Paraneognathus vulsus* (Chaudhri, Akbar et Rasool): Fan, 2000: 423  
Type locality: Pakistan  
Distribution: Pakistan

**Paraneognathus wangae** (Fan et Li)
*Sinognathus wangae* Fan & Li, 1995: 323  
Type locality: China  
Distribution: Brazil, China, Iran

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EUROPE
Germany (C.L. Koch, 1838, 1842; Willmann, 1952) – Caligonella humilis, Neognathus insolitus
Hungary (Ripka et al., 2005) – Caligonella humilis, Neognathus spectabilis, N. terrestris
Italy (Castagnoli & Nannelli, 1995) – Caligonella humilis
Sicily (Castagnoli & Nannelli, 1995) – Molothrognathus fulgidus
Latvia (Kuznetsov & Petrov, 1984) – Caligonella humilis, Neognathus spectabilis
Lituania (Kuznetsov & Petrov, 1984) – Caligonella humilis
Poland (Kazmierski, 2000, 2008) – Caligonella humilis
Crimea (Kuznetsov, 1978, Khaustov & Sergeyenko, 2014) – Caligonella humilis, Neognathus terrestris
Slovakia (Kalúz, 2009; Vrabec, Fenda & Kalúz, 2012) – Caligonella humilis
Switzerland (Schweizer & Bader, 1963) – Caligonella humilis
Ukraine (Kuznetsov, 1978; Khaustov & Kuznetsov, 1997) – Caligonella humilis, Molothrognathus dilucidus, Molothrognathus [Caligonella] venusta, Neognathus spectabilis

AFRICA
Algeria (Athias-Hentiot, 1959) – Caligonellidae
Egypt (Soliman, 1972; Soliman & Gomaa, 1980; Zaher et al., 1980) – Molothrognathus minutus, M. seiusus, Neognathus orientalis, Paraneognathus afrasiaticus, P. oblongus
Namibia (André, 1996) – Molothrognathus [Namibarbutia] seelyae

ASIA
India (Gupta, 2002) – Molothrognathus leptostylus
Iran (Soliman & Gomaa, 1980; Liang & Zhang, 1997; Ueckermann & Khanjani, 2003; Bagheri, Doğan, Haddad Irani-Nejad, Kamali, Khanjani & Saboori, 2010; Zarei et al., 2011; Rahmdeli et al., 2011; Navaei-Bonab, Bagheri & Zarei, 2012; Ahaniazad &

**Israel and Palestina** (Gerson, 1968) – *Molothrognathus fulgidus, Neognathus spectabilis, N. summersi, Paraneognathus summersi*  

**Lebanon** (Dosse, 1967) – *Molothrognathus fulgidus*  

**Pakistan** (Chaudhri, Akbar & Rasool, 1974, 1979) – *Molothrognathus fulgidus, M. leptostylus, Neognathus cinis, Paraneognathus vulsus*  

**United Arab Emirates** (Ueckermann, 2008; Negm, 2014) – *Molothrognathus sp., Neognathus harteni*  

**Yemen** (Ueckermann, van Harten & Smith Meyer, 2006) – *Molothrognathus phytoocolus*  

**NORTH AMERICA**  

**Canada** (Lafontain et al., 1987; Beaulieu et al., 2019) – *Molothrognathus leptostylus, Neognathus terrestris*  

**Mexico** (Smiley & Moser, 1968) – *Coptocheles boharti, Molothrognathus rosei*  

**USA** (Summers & Schlinger, 1955; McGregor, 1959; Robaux, 1975) – *Coptocheles botarti, C. grandjeani, Molothrognathus fulgidus, M. laticelus, M. washingtonia, Neognathus spectabilis, N. terrestris*  

**Hawaii** (Goff, 1987; Swift, 1996) – *Coptocheles kalapaanaensis, C. nakaharai, C. solanii, Coptocheles nr. boharti, C. nr. triscutatus, Molothrognathus colei, M. conantae, Neognathus spectabilis*  

**SOUTH AMERICA**  

**Brazil** (Silva et al., 2017) – *Molothrognathus brasiliensis, Paraneognathus wangae*  

**Bibliography of Caligonellidae**  


The Mite Family Camerobiidae Southcott

Camerobiidae Southcott, 1957: 311

Seven genera and almost 170 species of stilt legged mites form this family. Camerobiids are found in leaf mold, on or under tree bark, or on vegetation or epiphytes in temperate and tropical realms. They feed on plant pests such as scale insects and plant parasitic mites (Walter et al., 2009).

The first description of a member of this family is due to Berlese (1886) – *Neophyllobius elegans* from Italy. One century after Berlese Bolland (1986, 1991) provided revision of the group and described the new genera *Decaphyllobius*, *Tillandsobius* and *Tycherobius*. During this century have been described only 26 species (by Berlese, Canestrini, Banks, McGregor, Gerson, Soliman & Zaher, Zaher & Gomaa, Bolland, Meyer, de Leon, Indira, Rao & Thakur, Smiley & Moser, Meyer & Ryke, Kuznetzov & Livshitz, Womersley, Oudemans, Summers & Schlinger. After 1983 Bolland described (alone or with co-authors) also 65 of the 169 accepted species in the family. The family Camerobiidae and the type genus *Camerobia* have been described by Southcott (1957). After the revision of Bolland only two new genera have been added (*Bisetulobius* du Toit, Theron et Ueckermann, 1998 and *Acamerobia* Fan et Walter, 2011), but many more species have been described mostly from USA (26, without Hawaii), South Africa (22), Turkey (15), Iran (4), Israel (8), China and other countries by the researchers du Toit, Theron & Ueckermann (1998), Doğan & Ayyıldız (2003), Khanjani & Ueckermann (2002), Koç & Madanlar (2002), Bolland & Swift (2000), Fan (2001), Bolland & Mehrnejad (2001), Akyol & Koç (2006). Now the bulk of the family is contained in the genus *Neophyllobius*, until 1983 considered to represent a separate family Neophyllobiidae.

**Composition of Camerobiidae**

Fam. **Camerobiidae** Southcott, 1957 – 7 gen., 169 sp.

*Acamerobia* Fan et Walter, 2011 – 1 sp.

*Bisetulobius* du Toit, Theron et Ueckermann, 1998 – 1 sp.

*Camerobia* Southcott, 1957 – 6 sp.

*Decaphyllobius* Bolland, 1986 – 4 sp.

*Neophyllobius* Berlese, 1886 – 131 sp.

*Tillandsobius* Bolland, 1986 – 1 sp.

*Tycherobius* Bolland, 1986 – 25 sp.
Catalogue of Camerobiidae

Fam. *Camerobiidae* Southcott  
*Camerobiidae* Southcott, 1957: 311  
*Neophyllobiidae* Southcott, 1957: 311; syn. by Gerson, 1972: 507  
Type genus: *Camerobia* Southcott, 1957

Genus *Acamerobia* Fan et Walter  
*Acamerobia* Fan & Walter, 2011: 45  
Type species: *Acamerobia inflatus* Fan et Walter, 2011

*Acamerobia inflatus* Fan et Walter  
*Acamerobia inflatus* Fan & Walter, 2011: 45  
Type locality: Brisbane, Queensland  
Distribution: Australia

Genus *Bisetulobius* du Toit, Theron et Ueckermann  
*Bisetulobius* du Toit, Theron & Ueckermann, 1998: 4  
Type species: *Bisetulobius varius* du Toit, Theron et Ueckermann, 1998

*Bisetulobius varius* du Toit, Theron et Ueckermann  
*Bisetulobius varius* du Toit, Theron & Ueckermann, 1998: 4  
Type locality: Weber, 90 km from Pofadder to Kakamas, Prov. of Northern Cape  
Distribution: South Africa

Genus *Camerobia* Southcott  
*Camerobia* Southcott, 1957: 306  
Type species: *Camerobia australis* Southcott, 1957

*Camerobia australis* Southcott  
*Camerobia australis* Southcott, 1957: 306; Fan & Walter, 2006: 3  
Type locality: Kaban, Atherton Tableland, Queensland  
Distribution: Australia

*Camerobia monspeliensis* Bolland  
*Camerobia monspeliensis* Bolland, 1986: 199  
Type locality: Montpellier  
Distribution: France
**Camerobia pistaciae** Bolland, 1986
Type locality: Zikhron Yaakov (Israel)
Distribution: Crimea, Hungary, Israel

**Camerobia rugulosa** Fan et Chen
*Camerobia rugulosa* Fan & Chen, 1997: 42; 2010: 126
Type locality: China
Distribution: China

**Camerobia southcotti** Gerson
*Camerobia southcotti* Gerson, 1972: 502
Type locality: Montfort
Distribution: Israel

**Camerobia turcica** Koç
*Camerobia turcicus* Koç & Kara, 2005: 201; Doğan, 2007, 2019: 132; Erman et al., 2007
Type locality: Izmir
Distribution: Turkey

Genus *Decaphyllobius* Bolland
*Decaphyllobius* Bolland, 1986: 201
Type species: *Decaphyllobius gersoni* Bolland, 1986

**Decaphyllobius agrifoliiae** (McGregor)
*Neophyllobius agrifoliiae* McGregor, 1950: 56
*Decaphyllobius agrifoliiae* (McGregor): Bolland 1986: 201
Type locality: California, South Pasadena
Distribution: USA

**Decaphyllobius citri** (Soliman et Zaher)
*Neophyllobius citri* Soliman & Zaher, 1967: 27
*Decaphyllobius citri* (Soliman et Zaher): Bolland 1986: 201
Type locality: Upper Egypt, Kom Omdo
Distribution: Egypt

**Decaphyllobius gersoni** Bolland
*Decaphyllobius gersoni* Bolland, 1986: 201
Type locality: Elat, on *Tamarix aphylla*
Distribution: Israel
Decaphyllobius hadros (Chaudhri, Akbar et Rasool)
Neophyllobius hadros Chaudhri, Akbar & Rasool, 1974: 188
Decaphyllobius hadros (Chaudhri, Akbar et Rasool): Bolland, 1986: 202
Type locality: Univ. Agric. Lyallpur Campus
Distribution: Pakistan

Genus Neophyllobius Berlese
Neophyllobius Berlese, 1886: 19
Type species: Neophyllobius elegans Berlese, 1886

Neophyllobius abiegnus Khaustov et Abramov
Neophyllobius abiegnus Khaustov & Abramov, 2017: 1385
Type locality: European Russia, in the galleries of Pityophthorus micrographus (L.) (Coleoptera: Curculionidae: Scolytinae)
Distribution: Russia

Neophyllobius acaciae Bolland
Neophyllobius acaciae Bolland, 1991: 167
Type locality: Nelspruit
Distribution: South Africa

Neophyllobius aegyptium Soliman et Zaher
Type locality: Giza, Wadi El-Natroun
Distribution: Egypt

Neophyllobius aesculi Bolland
Neophyllobius aesculi Bolland, 1983: 42; 1991: 157
Type locality: Amsterdam, on Aesculus hippocastanum
Distribution: Belgium, France, Holland

Neophyllobius afyonensis Akyol et Koç
Neophyllobius afyonensis Akyol & Koç, 2006: 66; Erman et al., 2007; Doğan, 2007; 2019: 131
Type locality: Afyon
Distribution: Turkey

Neophyllobius ambulans Meyer
Type locality: Leteba, Northern Transvaal
Distribution: South Africa

**Neophyllobius americanus** Banks
Type locality: USA
Distribution: USA

**Neophyllobius arenarius** Bolland
*Neophyllobius arenarius* Bolland, 1991: 143
Type locality: Florida, Winter Haven
Distribution: USA (Florida)

**Neophyllobius armeniaca** Bolland
*Neophyllobius armeniaca* Bolland, 1991: 181
Type locality: Hawaii, from apricot “New Zealand”
Distribution: Hawaii

**Neophyllobius asalii** Khanjani et Ueckermann
*Neophyllobius asalii* Khanjani & Ueckermann, 2006: 280; Hoseini & Khanjani, 2013: 210; Beyzavi et al., 2013: 393
Type locality: Khorramabad, Lorestan Province
Distribution: Iran

**Neophyllobius askalensis** Doğan et Ayyıldız
*Neophyllobius askalensis* Doğan & Ayyıldız, 2003: 129; Erman et al., 2007; Doğan, 2007: 3; 2019: 131
Type locality: Erzurum
Distribution: Turkey

**Neophyllobius astragalusi** Khanjani et Ueckermann
*Neophyllobius astragalusi* Khanjani & Ueckermann, 2002: 162; Hoseini & Khanjani, 2013: 210; Yazdanpanah et al., 2012; Beyzavi et al., 2013: 393
Type locality: Azad-Abad, Hamedan Province
Distribution: Iran

**Neophyllobius atriplicis** Bolland
Type locality: Colorado, El Passo Co., host *Atriplex canescens* (plant)
Distribution: Turkey, USA (Colorado)
Neophyllobius ayvalikensis Akyol
*Neophyllobius ayvalikensis* Akyol, 2013: 543; Doğan, 2007; 2019: 131
Type locality: Prov. of Balikesir, Ayvalik Distr., Altinova town
Distribution: Turkey

Neophyllobius ayyildizi Koç et Madanlar
Type locality: Izmir
Distribution: Turkey

Neophyllobius bamiensis Khanjani, Asadabadi, Izadi et Doğan
*Neophyllobius bamiensis* Khanjani, Asadabadi, Izadi & Doğan, 2012: 68; Hoseini & Khanjani, 2013: 210; Beyzavi et al., 2013: 393
Type locality: Bam city, Kerman province
Distribution: Iran

Neophyllobius bequartiodendri Bolland
*Neophyllobius bequartiodendri* Bolland, 1991: 95
Type locality: Blijderivierpoort; host Bequartiodendron (plant)
Distribution: South Africa

Neophyllobius bialagorensis Bolland
*Neophyllobius bialagorensis* Bolland, 1991: 80; Ripka et al., 2005: 166
Type locality: Sztum, “Biala Gora” Reserve
Distribution: Hungary, Poland

Neophyllobius binisetosus Bolland
*Neophyllobius binisetosus* Bolland, 1991: 173
Type locality: Oregon, Benton Co., 3.5 mi N.E.Summit
Distribution: USA (Oregon)

Neophyllobius bisetalis Bolland et Swift
*Neophyllobius bisetalis* Bolland & Swift, 2001: 351
Type locality: Hawaii I., South Kona
Distribution: Hawaii (Hawaii and Oahu Isl.)

Neophyllobius bolvadinensis Akyol et Koç
*Neophyllobius bolvadinensis* Akyol & Koç, 2006b: 131; Doğan, 2007: 4; 2019: 132
Type locality: Afyon, Emirdağ mountains
Distribution: Turkey
**Neophyllobius burrellis** McGregor  
Type locality: Washington, Yakima  
Distribution: USA

**Neophyllobius camelli** Khanjani et Ueckermann  
*Neophyllobius camelli* Khanjani & Ueckermann, 2002: 164; Hoseini & Khanjani, 2013: 210; Beyzavi et al., 2013: 393  
Type locality: Lahijan, Guilan Province  
Distribution: Iran

**Neophyllobius capparidis** Bolland  
*Neophyllobius capparidis* Bolland, 1991: 92  
Type locality: Addo Nat. Park, host *Capparis ciltifolia* (plant)  
Distribution: South Africa

**Neophyllobius cavumarboris** Meyer et Ryke  
Type locality: Potchefstroom  
Distribution: South Africa

**Neophyllobius ceratoniae** Bolland  
*Neophyllobius ceratoniae* Bolland, 1991: 170  
Type locality: Valencia, host *Ceratonia siliqua* (plant)  
Distribution: Spain

**Neophyllobius coloradensis** Bolland  
*Neophyllobius coloradensis* Bolland, 1991: 147  
Type locality: Colorado, Nunn  
Distribution: USA

**Neophyllobius combreticola** Bolland  
*Neophyllobius combreticola* Bolland, 1991: 196; Soroosh & Kamali, 2002; Beyzavi et al., 2013: 393  
Type locality: Tshipise pad, 5 km outside Messina (South Africa), host *Combretum apiculatum* (plant)  
Distribution: Iran, South Africa
**Neophyllobius communis** Gerson
Type locality: Israel, Misgav Am
Distribution: Israel, Italy (Sicily), Turkey

**Neophyllobius conocarpi** Bolland
*Neophyllobius conocarpi* Bolland, 1991: 163
Type locality: Florida, on orange
Distribution: USA (Florida)

**Neophyllobius consobrinus** de Leon
Type locality: Tuxtla Gutierrez, Chiapas
Distribution: Mexico, Hawaii (Oahu I.)

**Neophyllobius coxalis** Bolland
*Neophyllobius coxalis* Bolland, 1991: 141
Type locality: Colorado, El Passo County, host *Atriplex canescens* (plant)
Distribution: USA (Colorado)

**Neophyllobius crinitus** du Toit, Theron et Ueckermann
*Neophyllobius crinitus* du Toit, Theron & Ueckermann, 1998: 11
Type locality: Eastern Cape, 100 km from Beaufort West to Aberdeen
Distribution: South Africa

**Neophyllobius curtipilis** de Leon
Type locality: Tuxtla Gutierrez, Chiapas
Distribution: Mexico

**Neophyllobius danthoniae** Bolland
*Neophyllobius danthoniae* Bolland, 1991: 143
Type locality: Missouri, North of Vichy, host *Danthonia spicata* (plant)
Distribution: USA (Missouri)

**Neophyllobius deleoni** Bolland
*Neophyllobius horridus* de Leon, 1958: 178 [praeocc. from Berlese 1886]
*Neophyllobius deleoni* Bolland, 1991: 132
Type locality: Route 35, 18 miles southwest of Guadalajara, Jal.
Distribution: Mexico

*Neophyllobius demirsoyi* Akyol et Koç
*Neophyllobius demirsoyi* Akyol & Koç, 2006a: 125; Doğan, 2007: 4; 2019: 132
Type locality: Afyon, Tasköprü place, Sultandağı district
Distribution: Turkey

*Neophyllobius dichantii* Bolland
*Neophyllobius dichantii* Bolland, 1991: 65
Type locality: Chakari pad 15 miles from Gatooma
Distribution: South Africa

*Neophyllobius* sp. near *dichantii* Boland – Hungary (Ripka et al., 2005: 166)

*Neophyllobius dickansoni* Bolland
*Neophyllobius dickansoni* Bolland, 1991: 154
Type locality: Oregon, Klamath Co., 1 mi sw. Chiloquin
Distribution: USA (Oregon)

*Neophyllobius dogani* Khanjani et Hoseini
*Neophyllobius dogani* Khanjani & Hoseini, 2013a: 518; Hoseini & Khanjani, 2013b: 210
Type locality: Chaghlvandy, Khorramabad, Lorestan Province
Distribution: Iran

*Neophyllobius edwardi* Khanjani et Hoseini
*Neophyllobius edwardi* Khanjani & Hoseini, 2013a: 511; Hoseini & Khanjani, 2013b: 210
Type locality: Sorkhi region, Fars Province
Distribution: Iran

*Neophyllobius elegans* Berlese
*Neophyllobius elegans* Berlese, 1886: 19; 1887: fasc. 34, No 2 and 5; 1900: 288; Canestrini, 1890: 457; Bolland, 1991: 212
Type locality: Padova
Distribution: Italy

*Neophyllobius equalis* de Leon
Type locality: Navarette, Nay. (Mexico)
Distribution: Crimea, Mexico
**Neophyllobius euonymi** Bolland et Ripka
*Neophyllobius euonymi* Bolland & Ripka, 2000: 357; Ripka et al., 2005: 166
Type locality: Budapest
Distribution: Hungary

**Neophyllobius fani** Doğan et Ayyıldız
Type locality: Erzurum
Distribution: Turkey

**Neophyllobius farrieri** de Leon
Type locality: Puenta de Nejapa, Oaxaca
Distribution: Crimea (?), Mexico

**Neophyllobius femoralis** Bolland
Type locality: Fayoum, from palm tree
Distribution: Egypt

**Neophyllobius ferrugineus** Fan
*Neophyllobius ferrugineus* Fan, 2001: 140; Fan & Chen, 2010: 126
Type locality: Fuzhou City; Fujian
Distribution: China

**Neophyllobius fissus** de Leon
*Neophyllobius fissus* de Leon, 1967: 31; Bolland, 1991: 212
Type locality: St. Augustinae
Distribution: Trinidad

**Neophyllobius foliosetosus** Fan
Type locality: Gutian; Fujian
Distribution: China

**Neophyllobius gigantorum** Bolland
*Neophyllobius gigantorum* Bolland, 1991: 97
Type locality: Giants-Castle
Distribution: South Africa
**Neophyllobius gonzali** Zaher et Gomaa
Type locality: Fayoum
Distribution: Egypt

**Neophyllobius graminicola** Bolland
*Neophyllobius graminicola* Bolland, 1991: 77
Type locality: Springfield
Distribution: USA

**Neophyllobius graminum** Bolland
*Neophyllobius graminum* Bolland, 1991: 92
Type locality: Die Kelders, host *Phyllica nigrita* (plant)
Distribution: South Africa

**Neophyllobius guajavae** Chatterjee et Gupta
*Neophyllobius guajavae* Chatterjee et Gupta, in Gupta, 2002: 38
Type locality: West Bengal, Kalyani
Distribution: India

**Neophyllobius helichrysi** du Toit, Theron et Ueckermann
*Neophyllobius helichrysi* du Toit, Theron & Ueckermann, 1998: 15
Type locality: Western Cape, George to Oudtshoorn, Prov. of the Western Cape
Distribution: South Africa

**Neophyllobius hispanicus** Bolland
*Neophyllobius hispanicus* Bolland, 1991: 132
Type locality: Spain, from orange leaves
Distribution: Spain

**Neophyllobius hyderabadensis** Indira, Rao et Thakur
*Neophyllobius hyderabadensis* Indira, Rao & Thakur, 1980: 121
Type locality: Hyderabad, host *Caryota urens* (plant)
Distribution: India

**Neophyllobius hypoleanae** Bolland
*Neophyllobius hypoleanae* Bolland, 1991: 97
Type locality: Kaappunt; host *Hypoleana digitata* (plant)
Distribution: South Africa
**Neophyllobius inequalis** de Leon
Type locality: Veracruz, Ver.
Distribution: Crimea, Mexico

**Neophyllobius interruptus** Bolland
*Neophyllobius interruptus* Bolland, 1991: 65
Type locality: Florida, 3 mi S. Sevilla, host *Citrus*
Distribution: USA (Florida)

**Neophyllobius iramus** de Leon
*Neophyllobius iramus* de Leon, 1967: 30; Bolland, 1991: 184
Type locality: Trinidad, Arima, (Cleaver Reserve)
Distribution: Trinidad

**Neophyllobius izmirensis** Akyol
*Neophyllobius izmirensis* Akyol, 2013: 544; Doğan, 2019: 132
Type locality: Prov. of Izmir, Cigli Distr., Camaltı Tuzlası place
Distribution: Turkey

**Neophyllobius kamalii** Khanjani, Asali Fayaz et Ghanbalani
*Neophyllobius kamalii* Khanjani, Asali Fayaz & Ghanbalani, 2010: 58; Hoseini & Khanjani, 2013b: 211; Beyzavi et al., 2013: 393
Type locality: Dalahoo, Rijab, Kermanshah Prov.
Distribution: Iran

**Neophyllobius karabagiensis** Akyol et Koç
*Neophyllobius karabagiensis* Akyol & Koç, 2006c: 489; Doğan, 2007: 5; 2019: 132
Type locality: B. Karabag, Afyonkarahisar
Distribution: Turkey

**Neophyllobius lachishensis** Bolland
Type locality: Lachis (Israel)
Distribution: Israel, Turkey

**Neophyllobius lalbaghensis** Zeity et Gowda
*Neophyllobius lalbaghensis* Zeity & Gowda, 2013: 547
Type locality: Bangalore
Distribution: India

**Neophyllobius lamimani** McGregor
Type locality: Fresno, California
Distribution: Turkey, USA

**Neophyllobius lanceolatus** Bolland
*Neophyllobius lanceolatus* Bolland, 1991: 173
Type locality: Montpellier, host *Platanus acerifolia* (plant)
Distribution: France

**Neophyllobius levanticola** Bolland
*Neophyllobius levanticola* Bolland, 1991: 136
Type locality: Arad
Distribution: Israel

**Neophyllobius lobatus** de Leon
Type locality: San Blas, Nay.
Distribution: Mexico

**Neophyllobius longulus** de Leon
Type locality: Matias Romero, Oax.
Distribution: Mexico

**Neophyllobius lorestanicus** Khanjani, Hoseini, Yazdanpanah et Masoudian
*Neophyllobius lorestanicus* Khanjani, Hoseini, Yazdanpanah & Masoudian, 2014: 441; Hoseini & Khanjani, 2013: 211
Type locality: Sarcheshmahe village, Mahallat, Markazi province
Distribution: Iran

**Neophyllobius lorioi** Smiley et Moser
Type locality: Pineville, Louisiana
Distribution: USA

**Neophyllobius mamaneae** Bolland et Swift
*Neophyllobius mamaneae* Bolland & Swift, 2001: 352
Type locality: Hawaii I., Mauna Kea (2438 – 2590 m)
Distribution: Hawaii

**Neophyllobius mangiferus** Zaher et Gomaa
Type locality: Giza
Distribution: Egypt

**Neophyllobius marginatus** de Leon
Type locality: Ixtlan del Rio, Nay. (Mexico)
Distribution: Italy, Mexico

**Neophyllobius mexicanus** McGregor
Type locality: intercepted at Brownsville, Texas on avocado budwood from “Mexico”
Distribution: Mexico

**Neophyllobius meyerae** Bolland
*Neophyllobius meyerae* Bolland, 1991: 63
Type locality: Jozini
Distribution: South Africa

**Neophyllobius mitrae** Khanjani, Molavi et Ueckermann
*Neophyllobius mitrae* Khanjani, Molavi & Ueckermann, 2011: 130; Hoseini & Khanjani, 2013b: 211; Beyzavi et al., 2013: 393
Type locality: Ahwas, Khuzestan Province
Distribution: Iran

**Neophyllobius mkuzensis** du Toit, Theron et Ueckermann
*Neophyllobius mkuzensis* du Toit, Theron & Ueckermann, 1998: 15
Type locality: Mkuze Game Reserve, Prov. of Kwazulu/Natal
Distribution: South Africa

**Neophyllobius montanus** Bolland
*Neophyllobius montanus* Bolland, 1991: 88
Type locality: Giants-Castle
Distribution: South Africa
Neophyllobius muscantribii Bolland
Neophyllobius muscantribii Bolland, 1991: 73
Type locality: Oribi Gorge, host Muscantribium sorghium (plant)
Distribution: South Africa

Neophyllobius natalensis Meyer et Ryke
Type locality: Munster, Natal
Distribution: South Africa

Neophyllobius nemoralis Kuznetsov et Livshits
Neophyllobius nemoralis Kuznetsov & Livshits, 1979: 83; Bolland, 1991: 107
Type locality: Crimea, Yalta
Distribution: Crimea

Neophyllobius niloticus Bolland
Neophyllobius niloticus Bolland, 1991: 210; Dehghan-Dolati et al., 2011; Beyzavi et al., 2013: 393
Type locality: Beni-Suif, on palmtrees
Distribution: Egypt, Iran

Neophyllobius olurensis Doğan et Ayyıldız
Type locality: Erzurum
Distribution: Turkey

Neophyllobius oregonensis Bolland
Neophyllobius oregonensis Bolland, 1991: 143
Type locality: Oregon, Criterion Pass 3000, Wasco Co., from grass
Distribution: USA (Oregon)

Neophyllobius orhani Doğan et Ayyıldız
Type locality: Erzurum
Distribution: Turkey

Neophyllobius ornatus Womersley
Type locality: New South Wales, Boomi
Distribution: Australia

*Neophyllobius ostovani* Khanjani et Hoseini
*Neophyllobius ostovani* Khanjani & Hoseini, 2013: 443; Hoseini & Khanjani, 2013b: 211
Type locality: Koohmare Region, Fars Province
Distribution: Iran

*Neophyllobius panici* Bolland
*Neophyllobius panici* Bolland, 1991: 69
Type locality: nr. St-Luciameer
Distribution: South Africa

*Neophyllobius parisianus* Bolland
*Neophyllobius parisianus* Bolland, 1991: 149
Type locality: Versailles, host *Platanus* (plant)
Distribution: France

*Neophyllobius parthenocissi* Bolland
Type locality: Washington, District-of-Columbia, host *Parthenocissus* (plant)
Distribution: Turkey, USA

*Neophyllobius persiaensis* Khanjani et Ueckermann
Type locality: Asad-Abad region, Hamedan Prov.
Distribution: Iran, Turkey

*Neophyllobius piniphilus* Bolland
*Neophyllobius piniphilus* Bolland, 2001: 129
Type locality: Santpoort
Distribution: Holland

*Neophyllobius pistaciae* Bolland et Mehrnejad
*Neophyllobius pistaciae* Bolland & Mehrnejad, 2001: 49; Mehrnejad & Ueckermann, 2001; Khadem et al., 2006; Hoseini & Khanjani, 2013b: 211; Beyzavi et al., 2013: 393
Type locality: Sirjan, Kerman Province
Distribution: Iran
Neophyllobius platanobius Bolland
Neophyllobius platanobius Bolland, 1991: 108
Type locality: Montpellier, host Platanus acerifolia (plant)
Distribution: France

Neophyllobius plumifer Bolland
Neophyllobius plumifer Bolland, 1991: 100
Type locality: Warszawa, Kampinoski Nat. Park; host Pinus sylvestris (plant)
Distribution: Poland

Neophyllobius podocarpi Bolland
Type locality: Florida, Gainsville, host Podocarpus (plant)
Distribution: Turkey, USA (Florida)

Neophyllobius ponderosus Bolland
Neophyllobius ponderosus Bolland, 1991: 151
Type locality: Oregon, Harney Co., Poison Creek Rd., 13 mi n. of Burns 5300
Distribution: USA (Oregon)

Neophyllobius populus Akyol et Koç
Neophyllobius populus Akyol & Koç, 2006c: 487; Doğan, 2007: 5; 2019: 132
Type locality: Afyonkarahisar, Sultandağı District
Distribution: Turkey

Neophyllobius pruni Bolland
Neophyllobius pruni Bolland, 1991: 190
Type locality: Mo., Boone country S. of Columbia, host apple
Distribution: USA

Neophyllobius punctulatus Fan
Neophyllobius punctulatus Fan, 2001: 142; Fan & Chen, 2010: 126
Type locality: Shanghai City
Distribution: China

Neophyllobius quadrirsetosus de Leon
Neophyllobius quadrirsetosus de Leon, 1958: 175; Bolland, 1991: 83
Type locality: Guaymas, Son.
Distribution: Mexico
**Neophyllobius quercus** Uluçay & Koç
*Neophyllobius quercus* Uluçay & Koç, 2014: 15; Doğan, 2019: 132
Type locality: Kütahya Prov.
Distribution: Turkey

**Neophyllobius quinquepilis** Bolland
*Neophyllobius quinquepilis* Bolland, 1991: 77
Type locality: USA, Lancaster, host *Danthonia spicata* (plant)
Distribution: USA

**Neophyllobius saberi** Ahaniazad, Bagheri, Gharekhani et Maleki
*Neophyllobius saberi* Ahaniazad, Bagheri, Gharekhani & Maleki, 2013: 341
Type locality: Northest Azerbaijan
Distribution: Iran

**Neophyllobius sanctaeluciae** Bolland
*Neophyllobius sanctaeluciae* Bolland, 1991: 85
Type locality: St. Luciameer
Distribution: South Africa

**Neophyllobius saxatilis** Halbert
Type locality: Co.Dublin
Distribution: Ireland

**Neophyllobius seemani** Khanjani et Hoseini
*Neophyllobius seemani* Khanjani & Hoseini, 2013a: 514; Hoseini & Khanjani, 2013b: 211
Type locality: Nahavad, Hamedan Prov.
Distribution: Iran

**Neophyllobius setosus** Bolland
*Neophyllobius setosus* Bolland, 1991: 186
Type locality: Rehovot, host *Myrtus* (plant)
Distribution: Israel

**Neophyllobius sierrae** McGregor
*Neophyllobius sierrae* McGregor, 1950: 64; Kuznetsov & Livshits, 1979: 84; Bolland, 1991: 201
Type locality: Camp Nelson, California
Distribution: Crimea, USA
**Neophyllobius spatulus** de Leon
*Neophyllobius spatulus* de Leon, 1958: 181; Bolland, 1991: 201
Type locality: Route 15, nine miles west of Tepic, Nay.
Distribution: Mexico

**Neophyllobius sturmerwoodi** Bolland
Type locality: Woolstone Church, Davis Gelatine Orchard
Distribution: New Zealand

**Neophyllobius succineus** Bolland et Magowski
*Neophyllobius succineus* Bolland & Magowski, 1990: 17
Type locality: in amber; upper Eocene Fossil
Distribution: Poland

**Neophyllobius sultanensis** Akyol et Koç
*Neophyllobius sultanensis* Akyol & Koç, 2006b: 64; Doğan, 2007: 5; 2019: 132
Type locality: Afyon
Distribution: Turkey

**Neophyllobius summersi** McGregor
Type locality: Davis, California
Distribution: USA

**Neophyllobius sycomorus** Zaher et Gomaa
Type locality: Dakahli, Manzala
Distribution: Egypt

**Neophyllobius tamarindi** Bolland
*Neophyllobius tamarindi* Bolland, 1991: 161
Type locality: Florida, on big Pine Key, host *Tamarindus indica* (plant)
Distribution: USA (Florida)

**Neophyllobius tenuipilis** Bolland
*Neophyllobius tenuipilis* Bolland, 1991: 113
Type locality: Rehovot
Distribution: Israel
**Neophyllobius texanus** McGregor
Type locality: Tyler, Texas
Distribution: USA

**Neophyllobius theobromae** Bolland
*Neophyllobius theobromae* Bolland, 1991: 124
Type locality: Nandaime, on cacao
Distribution: Nicaragua

**Neophyllobius trisetosus** de Leon
*Neophyllobius trisetosus* de Leon, 1958: 175; Bolland, 1991: 88
Type locality: Oxaca, Oax.
Distribution: Mexico

**Neophyllobius turcicus** Koç et Ayyıldız
Type locality: Erzurum
Distribution: Turkey

**Neophyllobius ueckermanni** Bolland
*Neophyllobius ueckermanni* Bolland, 1991: 85
Type locality: 25 km from Badplaas (Chrissiemeer-pad)
Distribution: South Africa

**Neophyllobius vandebundi** Bolland
*Neophyllobius vandebundi* Bolland, 1991: 80
Type locality: Ouddorp, Westduinen
Distribution: Holland

**Neophyllobius vanderwieli** Oudemans
*Neophyllobius vanderwieli* Oudemans, 1926: 121; Corporal, 1928: 129; Bolland, 1991: 219
Type locality: Naardemeer
Distribution: Holland

**Neophyllobius variegata** Fan et Walter
*Neophyllobius variegata* Fan & Walter, 2006: 8
Type locality: Gubara Walk, Baroalba Gorge, Kakadu National Park, Northern Territory
Distribution: Australia
**Neophyllobius viticola** Bolland
*Neophyllobius viticola* Bolland, 1991: 193
Type locality: Valras (Hérault – 34), host *Vitis vinifera* (plant)
Distribution: France

**Neophyllobius womersleyi** Fan et Walter
*Neophyllobius womersleyi* Fan et Walter, 2006: 14
Type locality: Waywood ph, Adelaide
Distribution: Australia

**Neophyllobius yunusi** Akyol et Koç
Type locality: Afyon, Çay district, Sultandağı district
Distribution: Turkey

**Neophyllobius zolfigolii** Khanjani, Asali Fayaz et Ghanbalani
*Neophyllobius zolfigolii* Khanjani, Asali Fayaz & Ghanbalani, 2010: 54; Hoseini & Khanjani, 2013b: 211; Beyzavi et al., 2013: 394
Type locality: Nahavad, Hamedan Prov.
Distribution: Iran

**Neophyllobius** sp. – Yemen (Ueckermann et al., 2006: 263)

Genus *Tillandsobius* Bolland, 1986
*Tillandsobius* Bolland, 1986: 205
Type species: *Neophyllobius floridensis* McGregor, 1950

**Tillandsobius floridensis** (McGregor)
*Neophyllobius floridensis* McGregor, 1950: 61
Type locality: Florida, Duval County, Dupont Road
Distribution: USA (Florida)

Genus *Tycherobius* Bolland
*Tycherobius* Bolland, 1986: 205
Type species: *Neophyllobius lombardinii* Summers et Schlinger, 1955

**Tycherobius acicula** Fan et Walter
*Tycherobius acicula* Fan & Walter, 2006a: 40
Type locality: North Queensland
Distribution: Australia
**Tycherobius anatolicus** Uluçay, Koç et Akyol
*Tycherobius anatolicus* Uluçay, Koç et Akyol, in Uluçay et al., 2016c; Doğan, 2019:132
Type locality: Turkey
Distribution: Turkey

**Tycherobius aotearoa** Fan et Zhang
*Tycherobius aotearoa* Fan & Zhang, 2005: 25; Fan & Walter, 2006a: 11
Type locality: Nelson, Boulder Bank
Distribution: New Zealand

**Tycherobius australis** Fan et Walter
*Tycherobius australis* Fan & Walter, 2006a: 23
Type locality: Brisbane
Distribution: Australia

**Tycherobius banehiensis** Nasrollahi, Khanjani et Mirfakhraee
*Tycherobius banehiensis* Nasrollahi, Khanjani & Mirfakhraee, 2019: 2231
Type locality: Baneh City, Kurdistan Prov.
Distribution: Iran

**Tycherobius bollandi** Ayyıldız et Doğan
Type locality: Dagtarlarlari District, Olur, Erzurum
Distribution: Turkey

**Tycherobius dazkiriensis** Akyol et Koç
Type locality: Afyonkarahisar, Dazkiri District
Distribution: Turkey

**Tycherobius edaphon** Flechtmann
*Tycherobius edaphon* Flechtmann, 2001: 41; Fan & Walter, 2006a: 10
Type locality: Sao Paulo, Itirapina
Distribution: Brazil

**Tycherobius elongata** Fan et Walter
*Tycherobius elongata* Fan & Walter, 2006a: 45
Type locality: Brisbane
Distribution: Australia
**Tycherobius emadi** Khanjani, Hajizadeh, Ostovan et Asali Fayaz  
*Tycherobius emadi* Khanjani, Hajizadeh, Ostovan & Asali Fayaz, 2013: 134; Hoseini & Khanjani, 2013b: 212  
Type locality: Saravan forest, Rasht, Guilan Province  
Distribution: Iran

**Tycherobius farsiensis** Khanjani, Yazyanpenah, Ostovan et Asali Fayaz  
Type locality: Koohmare Sorkhi region, Fars Province, Iran  
Distribution: Iran, Turkey

**Tycherobius iranensis** Khanjani, Yazyanpenah, Ostovan et Asali Fayaz  
*Tycherobius iranensis* Khanjani, Yazyanpenah, Ostovan & Asali Fayaz, 2012: 25; Hoseini & Khanjani, 2013b: 212; Beyzavi et al., 2013: 394; Uluçay et al., 2016c; Doğan, 2019:132  
Type locality: Koohmare Sorkhi region, Fars Province  
Distribution: Iran

**Tycherobius izmirensis** Akyol et Koç  
*Tycherobius izmirensis* Akyol & Koç, 2017: 22; Akyol & Gül, 2018c; Doğan, 2019:132  
Type locality: Izmir  
Distribution: Turkey

**Tycherobius hawaiiensis** Bolland et Swift  
*Tycherobius hawaiiensis* Bolland & Swift, 2001: 347; Fan & Walter, 2006a: 9  
Type locality: Hawaii, Nihoa  
Distribution: Hawaii

**Tycherobius lombardinii** (Summers et Schlinger)  
*Neophyllobius lombardinii* Summers & Schlinger, 1955: 550  
*Tycherobius lombardinii* (Summers et Schlinger): Fan & Walter, 2006a: 8  
Type locality: California, Glendale  
Distribution: USA (California)

**Tycherobius polonicus** Bolland  
Type locality: Poland  
Distribution: Poland, Turkey, Ukraine
**Tycherobius quercus** Bolland et Koç
_Tycherobius quercus_ Bolland & Koç, 2001: 135; Fan & Walter, 2006a: 10; Erman et al., 2007; Doğan, 2007: 6; 2019: 132
Type locality: Artvin
Distribution: Turkey

**Tycherobius rhytis** (Chaudhri, Akbar et Rasool)
_Neophyllobius rhytis_ Chaudhri, Akbar & Rasool, 1974: 190
_Tycherobius rhytis_ (Chaudhri, Akbar et Rasool): Fan & Walter, 2006a: 8
Type locality: 3 mi. W Hyderabad
Distribution: Pakistan

**Tycherobius sahragardi** Khanjani, Hadjizadeh, Hoseini et Jalili
_Tycherobius sahragardi_ Khanjani, Hadjizadeh, Hoseini & Jalili, 2013: 131; Hoseini & Khanjani, 2013b: 213; Uluçay et al., 2016c; Doğan, 2019:132
Type locality: Parashkoh village, Langarud vic., Guilan Province (Iran)
Distribution: Iran, Turkey

**Tycherobius stipula** Fan et Walter
_Tycherobius stipula_ Fan & Walter, 2006a: 14
Type locality: Brisbane
Distribution: Australia

**Tycherobius stramenticola** Bolland
Type locality: Israel, Mount Carmel
Distribution: Israel, Turkey

**Tycherobius superbus** (Canestrini)
_Neophyllobius superbus_ Canestrini, 1889: 523; Kuznetsov & Livshits, 1979: 82
Type locality: Padovano, Trentino
Distribution: Crimea, Italy

**Tycherobius turcicus** Ayyıldız et Doğan
Type locality: Dikyarkapi District, Uzundere, Erzurum
Distribution: Turkey
Tycherobius ueckermanni Khanjani, Yazyanpenah, Ostovan et Asali Fayaz
Tycherobius ueckermanni Khanjani, Yazyanpenah, Ostovan & Asali Fayaz, 2012: 30; Hoseini & Khanjani, 2013b: 213; Beyzavi et al., 2013: 394
Type locality: Koohmare Sorkhi region, Fars Province
Distribution: Iran

Tycherobius virginiensis (McGregor)
Neoplylabius virginiensis McGregor, 1950: 69
Type locality: Virginia, Arlington
Distribution: USA

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Hungary (Bolland, 1986; Ripka, Fain & Bolland, 1999; Bolland & Ripka, 2000) – Camerobia pistaciae, Neophyllobius euonymi, Neophyllobius sp. nr. sturmerwoodi

Ireland (Halbert, 1923) – Neophyllobius saxatilis

Italy (contin.)(Berlese, 1886; Canestrini, 1889; Bolland, 1986) – Neophyllobius communis, N. elegans, N. marginatus, Tycheroebius superbus

Poland (Bolland, 1986; Kazmierski, 2000, 2008) – Neophyllobius bialagorensis, Tycheroebius polonicus

Russia (contin.)(Khaustov & Abramov, 2017) – Neophyllobius abiegnus

Crimea (Kuznetsov & Livshits, 1979; Khaustov & Sergeyenko, 2014) – Camerobia pistaciae, Neophyllobius equalis, N. farrieri, N. inequalis, N. nemoralis, N. sierrae, Tycheroebius superbus


AFRICA


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India (Indira, Rao & Thakur, 1980; Gupta, 2002; Zeity & Gowda, 2013) – Neophyllobius hyderabadensis, N. lalbaghensis


Israel and Palestina (Gerson, 1972; Bolland, 1986, 1991) – Camerobia southcotti, C. pistaciae, Decaphyllobius gersoni, Neophyllobius communis, N. levanticola, Tycherobius stramenticola

Pakistan (Chaudhri, 1974; Chaudhri, Akbar & Rasool, 1979) – Decaphyllobius hadros, Tycherobius rhytis


NORTH AMERICA


Hawaii (Swift, 1996; Bolland & Swift, 2001) – Neophyllobius bisetalis, N. consobrinus, N. mamaneae, Tycherobius hawaiiensis

SOUTH and CENTRAL AMERICA

Brazil (Flechtmann, 2001) – Tycherobius edaphon

Nicaragua (Boland, 1991) – Neophyllobius theobromae

Trinidad (De Leon, 1967) – Neophyllobius fissus

OCEANIA

Australia (continent) (Womersley, 1940; Southcott, 1957; Fan & Walter, 2006a, 2006b; 2011) – Acamerobia inflatus, Camerobia australis, Neophyllobius elongata, N. ornatus, N. variegata, N. womersleyi, Tycherobius acicula, T. australis, T. elongata, T. stipula

New Zealand (Fan & Zhang, 2005) – Neophyllobius sturmerwoodi, Tycherobius aotearoa
Bibliography of Camerobiidae


Koç K., M. Kara. 2005. Two new species of Raphignathoidea (Acari: Raphignathidae; Camerobiidae) from Turkey. – Acarologia, 45(3): 197–204.


The Mite Family Cryptognathidae Oudemans

Cryptognathidae Oudemans, 1902: 59

Tiny (300–400 µm) red mites, living in moss, leaf litter, on plants, under stones. Predaceous, feed on small arthropods. Three genera with ca. 66 valid species. After the description of Cryptognathus Kramer, 1879 was needed almost a century for the next genus Favognathus Luxton, 1973 and the major contributions were made by Ayyıldız, Chaudhri, Doğan, Dönel, Fan, Hirst, Koç, Krantz, Kuznetsov, Livshitz, Luxton, McDaniel, Moser, Robaux, Smiley, Smith Meyer, Summers, Swift, Ueckermann, Zhang and others. Summers & Chaudhri (1965) described 10 species, before this publication have been described only five sp. (by Kramer, 1879, Berlese, 1916, Hirst, 1926, Krantz, 1958, Meyer & Ryke, 1960) and after it – another 41 species and two of the three genera in the family.

Composition of Cryptognathidae

Fam. Cryptognathidae Oudemans, 1902 – 3 gen., 66 sp.
Cryptofavognathus Doğan et Dönel, 2010 – 2 sp.
Cryptognathus Kramer, 1879 – 22 sp.
Favognathus Luxton, 1973 – 42 sp.

Catalogue of Cryptognathidae

Fam. Cryptognathidae Oudemans
Cryptognathidae Oudemans, 1902: 59
Type genus: Cryptognathus Kramer, 1879

Genus Cryptofavognathus Doğan et Dönel
Cryptofavognathus Doğan & Dönel, 2010: 36
Type species: Favognathus afyonensis Koç et Akyol, 2004

Cryptofavognathus afyonensis (Koç et Akyol)
Favognathus afyonensis Koç & Akyol, 2004: 475; Doğan, 2008: 1674
Cryptofavognathus afyonensis (Koç et Akyol): Doğan & Dönel, 2010: 37; Doğan, 2019: 133
Type locality: Afyon
Distribution: Turkey
Cryptofavognathus anatolicus Doğan et Dönel
Cryptofavognathus anatolicus Doğan & Dönel, 2010: 37; Doğan, 2019: 133
Type locality: Ağcaalan Village, Erbaa District, Tokat Province
Distribution: Turkey

Genus Cryptognathus Kramer
Cryptognathus Kramer, 1879: 154
Type species: Cryptognathus lagena Kramer, 1879

Cryptognathus attenuatus Luxton
Type locality: Israel
Distribution: Israel

Cryptognathus aureatus Summers et Chaudhri
Type locality: California, Quincy
Distribution: USA

Cryptognathus australiensis Hirst
Cryptognathus (C.) australiensis Hirst: Luxton, 1973: 73
Type locality: South Australia, Kuitpo Forest, ca. 30 miles from Adelaide
Distribution: Australia

Cryptognathus ayyildizi Akyol et Koç
Cryptognathus ayyildizi Akyol & Koç, 2010: 160; Uluçay and Koç, 2013a; Doğan, 2019: 132; Doustaresharaf, Bagheri & Saber, 2019: 1693
Type locality: Afyonkarahisar, Çakirköy town, Kestanelik (Turkey)
Distribution: Iran, Turkey

Cryptognathus cucullus Summers et Chaudhri
Type locality: California
Distribution: USA
**Cryptognathus eurytopus** Luxton
Type locality: summit of Mt Kosciusko, NSW, 7300 ft.
Distribution: Australia (NSW, SA)

**Cryptognathus imbricatus** Summers et Chaudhri
Type locality: California, Altadena
Distribution: USA

**Cryptognathus incertus** Robaux
Type locality: California, Cowell, Park (Sta Cruz Co)
Distribution: USA (California)

**Cryptognathus khaustovi** Doustaresharaf, Bagheri et Saber
*Cryptognathus khaustovi* Doustaresharaf, Bagheri & Saber, 2019:
Type locality: Mahabad
Distribution: Iran

**Cryptognathus lagena** Kramer
Distribution: Austria, China, Crimea, England, France, Hungary, Ireland, Italy, Latvia, Lituania, Norway, Scotland, Slovenia, Spain, Switzerland, Turkey, USA, Wales
Type locality of *C. lagena* Kramer: Germany
Distribution: Austria, Canada, China, England, Estonia, France, Germany, Holland, Iran, Ireland, Italy, Latvia, Lithuania, Norway, Scotland, Slovenia, Spain, Switzerland, Turkey, Ukraine, USA, Wales
Cryptognathus lateropunctatus Luxton
Type locality: nr. Coonalpyn, South Australia
Distribution: Australia (SA)

Cryptognathus luteolus Summers et Chaudhri
Type locality: California, Walker Pass, Kern Co.
Distribution: Turkey, USA

Cryptognathus kutahyaensis Uluçay et Koç
Cryptognathus kutahyaensis Uluçay & Koç, 2013a; Doğan, 2019: 132
Type locality: Kutahya
Distribution: Turkey

Cryptognathus ozkani Doğan et Ayyıldız
Type locality: Turkey
Distribution: Turkey

Cryptognathus scutellatus Summers et Chaudhri
Type locality: California, Green Valley, Solano Co.
Distribution: USA

Cryptognathus sternalis Krantz
Cryptognathus sternalis Krantz, 1958: 82; Krisper & Schneider, 1998: 200; Doğan, 2008: 1668; Luxton (1972) synonymized this species with C. lagena, but Khanjani et al. (2014) restaured it as valid species.
Type locality: Oregon, USA
Distribution: USA

Cryptognathus striatus Luxton
Type locality: Waitangi
Distribution: New Zealand
**Cryptognathus summersi** Robaux
Type locality: California, Cowell, Park (Sta Cruz Co)
Distribution: USA (California)

**Cryptognathus tenuis** Luxton
Type locality: Wilson's Valley, Mt Kosciusko Road (NSW)
Distribution: Australia

**Cryptognathus ultrarostratus** Summers et Chaudri
Type locality: California, Mix Canyon, Solano Co.
Distribution: USA

**Cryptognathus vulgaris** Luxton
*Cryptognathus (C.) vulgaris* Luxton, 1973: 72; Fan & Zhang, 2005: 27
Type locality: Kaiteriteri, Nelson
Distribution: New Zealand

**Cryptognathus woodi** Luxton
Type locality: Australia
Distribution: Australia

Genus *Favognathus* Luxton
*Cryptognathus (Favognathus)* Luxton, 1973: 62 (subgenus)
*Favognathus* Luxton, 1987: 113 (genus)
Type species: *Cryptognathus (Favognathus) magnus* Luxton, 1973

**Favognathus acaciae** Doğan et Ayyıldız
*Favognathus acaciae* Doğan & Ayyıldız, 2004: 127; Doğan, 2007: 8; 2008: 1673; Doğan, 2019: 133
Type locality: Erzurum
Distribution: Turkey
**Favognathus agapictus** (Flechtmann)
*Cryptognathus agapictus* Flechtmann, 1971: 47
*Favognathus agapictus* (Flechtmann): Krisper & Schneider, 1998: 200; Doğan, 2008: 1674
Type locality: Piracicaba
Distribution: Brazil

**Favognathus alvandii** Khanjani, Khanjani, Najaf-Abadi et Seeman
*Favognathus alvandii* Khanjani, Khanjani, Najaf-Abadi & Seeman, 2014: 376
Type locality: Hamedan Prov., Simin Village, 2260 m
Distribution: Iran

**Favognathus amygdalus** Doğan et Ayyıldız
*Favognathus amygdalus* Doğan & Ayyıldız, 2004: 125; Doğan, 2007: 8; 2008: 1675; 2019: 133; Rahmati et al., 2015: 414
Type locality: Erzurum (Turkey)
Distribution: Iran, Turkey

**Favognathus bafranus** Doğan
*Favognathus bafranus* Doğan, 2008: 1681; 2019: 133
Type locality: Bafra, Samsun
Distribution: Turkey

**Favognathus barrasi** (Smiley et Moser)
*Cryptognathus barrasi* Smiley & Moser, 1968: 313
Type locality: Louisiana
Distribution: USA

**Favognathus cordylus** Luxton
Type locality: Israel
Distribution: Iran, Israel, Syria

**Favognathus cucurbita** (Berlese)
*Cryptognathus orbiculatus* Livshits, 1974; Khaustov & Kuznetsov, 1997: 81

Type locality: Bosa (Sardinia)
Distribution: Australia, Azarbaidjan, China, Ireland, Italy, Poland, Sardinia, Turkey, Ukraine

**Favognathus cucurbita** var. *subnitidus* (Berlese)

*Cryptognathus cucurbita var. subnitidus* Berlese, 1916: 133

Type locality: “ad fauces Jubae, Somalia italiana”
Distribution: Italy, Sardinia, Somalia

**Favognathus cucurbitellus** (Meyer et Ryke)

*Cryptognathus cucurbitella cucurbitella* Meyer & Ryke, 1960: 233

*Cryptognathus cucurbitellus* Meyer & Ryke: Summers & Chaudhri, 1965: 320


Type locality: Bathurst
Distribution: South Africa

**Favognathus cypselus** Fan


Type locality: Fuzhou City, Fujian
Distribution: China

**Favognathus dakotaensis** (McDaniel et Bolen)

*Cryptognathus (Favognathus) dakotaensis* McDaniel & Bolen, 1979: 97


Type locality: South Dakota, Corson Co.
Distribution: USA

**Favognathus dama** (Chaudhri, Akbar et Rasool)

*Cryptognathus dama* Chaudhri, Akbar & Rasool, 1979: 169

**Favognathus dama** (Chaudhri, Akbar et Rasool): Doğan, 2008: 1676

Type locality: Pakistan
Distribution: Pakistan

**Favognathus denticulatus** (Luxton)

*Cryptognathus (Favognathus) denticulatus* Luxton, 1973: 62

Type locality: New South Wales, between Sawpit and Wilson's Valley, Mt Kosciusko Road
Distribution: Australia

**Favognathus distinctus** Swift
Type locality: Kauai Island, Kuia Natural Area Reserve, Nualolo Trail, 1000 m
Distribution: Hawaii

**Favognathus distortus** (Kuznetzov)
*Cryptognathus distortus* Kuznetzov & Livshitz, 1974: 1724; Wainstein & Kuznetsov, 1978: 151
Type locality: Crimea
Distribution: China, Crimea, Iran, Turkey, Ukraine

**Favognathus erzurumensis** Doğan et Ayyıldız
*Favognathus erzurumensis* Doğan & Ayyıldız, 2004: 371; Doğan, 2007: 8; 2008: 1677
Type locality: Erzurum
Distribution: Turkey

**Favognathus esfahaniensis** Khanjani, Khanjani, Najaf-Abadi & Seeman
*Favognathus esfahaniensis* Khanjani, Khanjani, Najaf-Abadi & Seeman, 2014: 374
Type locality: Esfahan Prov., Najaf-Abad, Mohammad Abad
Distribution: Iran

**Favognathus farshchiani** Saboori, Jafari & Bagheri
*Favognathus farshchiani* Saboori, Jafari & Bagheri, 2014: 354
Type locality: Isfahan, Iran
Distribution: Iran

**Favognathus favus** (Summers et Chaudhri)
*Cryptognathus favus* Summers & Chaudhri, 1965: 317
Type locality: California, Mix Canyon, Solano Co.
Distribution: USA

**Favognathus gersoni** Luxton
Type locality: Rami
Distribution: Israel

**Favognathus goffi** Swift
*Cryptognathus flavus* [sic] (Summers et Chaudhri): Goff, 1987: 28
Type locality: Oahu Island, Mt. Kaala, 500 m
Distribution: Hawaii

**Favognathus guilanicus** Khanjani, Khanjani, Najaf-Abadi et Seeman
*Favognathus guilanicus* Khanjani, Khanjani, Najaf-Abadi & Seeman, 2014: 380
Type locality: Guilan, Langarud
Distribution: Iran

**Favognathus hyrcanensis** Shirinbeik Mohajer et Bagheri
*Favognathus hyrcanensis* Shirinbeik Mohajer & Bagheri, 2014: 194
Type locality: Gorgan City (Golestan Province)
Distribution: Iran

**Favognathus insularis** (Luxton)
*Cryptognathus* (Favognathus) *insularis* Luxton, 1973: 64
Type locality: Niue Island
Distribution: Niue

**Favognathus izmirensis** Akyol
*Favognathus izmirensis* Akyol, 2011: 207; Doğan, 2019: 133
Type locality: İzmir
Distribution: Turkey

**Favognathus kamali** Dönel et Doğan
*Favognathus kamali* Dönel & Doğan, 2011: 375
Type locality of *F. kamali*: Turkey
Distribution: Turkey (Latvia, Crimea, as *F. orbiculatus*)
**Favognathus kazemii** Doustaresharaf, Bagheri et Saber
*Favognathus kazemii* Doustaresharaf, Bagheri & Saber, 2019:
Type locality: Urmia
Distribution: Iran

**Favognathus latibarrus** Smith Meyer et Ueckermann
Type locality: Cape Prov., Addo Elephant Nat. Park
Distribution: South Africa

**Favognathus leopardus** (Luxton)
*Cryptognathus (Favognathus) leopardus* Luxton, 1973: 65
Type locality: Balloon Hill, nr. Mt Arthur, West Nelson, NZ
Distribution: New Zealand

**Favognathus luxtoni** Koç et Ayyıldız
*Favognathus luxtoni* Koç & Ayyıldız, 1999: 622; Doğan & Ayyıldız, 2004: 125; Doğan, 2007: 8; 2008: 1678; 2019: 133; Gheblealivand et al., 2011; Beyzavi et al., 2013: 394
Type locality: Artvin
Distribution: Iran, Turkey

**Favognathus magnus** (Luxton)
*Cryptognathus (Favognathus) magnus* Luxton, 1973: 62
Type locality: Queensland, Chinchilla, Darling Downs
Distribution: Australia

**Favognathus manisaensis** Akyol et Koç
*Favognathus manisaensis* Akyol & Koç, 2017a: 287; Doğan, 2019: 133
Type locality: Spil Mt., Manisa Prov., Gölcük, Ödemiş, Izmir Prov., Gölet, Kula Prov.
Distribution: Turkey

**Favognathus maritimus** (Shiba)
*Cryptognathus maritimus* Shiba, 1969: 171
*Favognathus maritimus* (Shiba) – Doğan, 2008; Kontschán et al., 2014: 67
Type locality: Japan
Distribution: Japan, Korea (North)
Favognathus mirazii Khanjani et Ueckermann
Favognathus mirazii Khanjani & Ueckermann, 2008: 179; Beyzavi et al., 2013: 394
Type locality: Baneh Kurdistan Province
Distribution: Iran

Favognathus naghii Hassanzadeh, Khanjani, SafarAlizadeh et Mirfakhraee
Favognathus naghii Hassanzadeh, Khanjani, SafarAlizadeh & Mirfakhraee, 2014: 314
Type locality: Sardasht, Western Azerbaijan Prov.
Distribution: Iran

Favognathus observabilis (Kuznetsov)
Cryptognathus observabilis Kuznetsov, 1974: 1724
Favognathus observabilis (Kuznetsov): Luxton, 1987: 113; Krisper & Schneider, 1998: 201;
Doğan, 2008: 1678; Khaustov & Sergeyenko, 2014: 366
Type locality: Crimea, Nikitskiy Botanical Garden
Distribution: Crimea

Favognathus ochraceus (Summers et Chaudhri)
Favognathus ochraceus (Summers et Chaudhri): Luxton, 1987: 113; Krisper & Schneider, 1998: 201;
Doğan, 2008: 1678
Type locality: Santa Cruz Island, Old Bella Vista Trail
Distribution: Galapagos, Israel

Favognathus pictus (Summers et Chaudhri)
Cryptognathus pictus Summers & Chaudhri, 1965: 319
Swift & Goff, 2001: 28; Doğan, 2008: 1679
Type locality: Santa Cruz Island, Horneman Farm
Distribution: Galapagos and Hawaiian Islands

Favognathus pongolensis Smith Meyer et Ueckermann
Doğan, 2008: 1679
Type locality: Transvaal, Pongola
Distribution: Iran, South Africa

Favognathus rugosus (Kuznetsov et Livshitz)
Cryptognathus rugosus Kuznetsov & Livshitz, 1974: 1722; Wainstein & Kuznetsov, 1978: 150
Type locality: Crimea
Distribution: Azarbaidjan, Crimea

**Favognathus texasensis** (McDaniel et Bolen)
*Cryptognathus (Favognathus) texasensis* McDaniel & Bolen, 1979: 93
Type locality: Texas, San Patricio Co., Sinton
Distribution: USA

**Favognathus turcicus** Koç et Ayyıldız
Type locality: Artvin
Distribution: Turkey

**Favognathus variabilis** Swift
Type locality: Oahu I., Mt. Kaala, 500 m, Hawaii State
Distribution: Hawaii (Oahu, Molokai)

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(Names in **bold** are accepted as valid)

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**Distribution of Cryptognathidae**

**EUROPE**

**Austria** (Schmölder, 1962, 1993; Krisper & Schneider, 1998) – *Cryptognathus lagena*

**Estonia** (Kuznetsov & Petrov, 1984) – *Cryptognathus lagena*

**France** (contin.)(Baker & Wharton, 1952) – *Cryptognathus lagena*
Germany (Kramer, 1879) – Cryptognathus lagena
Great Britain (Hull, 1918; Luxton, 1987) – Cryptognathus lagena
Holland (Baker & Wharton, 1952) – Cryptognathus lagena
Hungary (Dudich, Kolosváry & Szalay, 1940) – Cryptognathus lagena
Ireland (Halbert, 1915, Hull, 1918) – Cryptognathus lagena, Favognathus cucurbita
Italy (contin.) (Berlese, 1916) – Cryptognathus lagena, Favognathus cucurbita (var. subnitidus)
Sardinia (Berlese, 1916) – Favognathus cucurbita
Latvia (Kuznetsov & Petrov, 1984) – Cryptognathus lagena, Favognathus kamali (= orbiculatus)
Lithuania (Kuznetsov & Petrov, 1984) – Cryptognathus lagena
Norway (Baker & Wharton, 1952) – Cryptognathus lagena
Poland (Kazmierski, Bloszyk & Michocka, 1997; Doğan et al., 2014) – Cryptognathus lagena, Favognathus cucurbita
Crimea (Kuznetsov & Livshitz, 1974; Khaustov & Sergeyenko, 2014) – Cryptognathus lagena (?= corrugis), Favognathus distortus, F. observabilis, F. kamali (= orbiculatus), F. rugosus
Slovenia (Krisper & Schneider, 1998) – Cryptognathus lagena, Favognathus cucurbita
Spain (cont.) (Mihelčič, 1958) – Cryptognathus lagena
Switzerland (Baker & Wharton, 1952) – Cryptognathus lagena
Ukraine (Khaustov & Kuznetsov, 1997) – Favognathus cucurbita, F. distortus

AFRICA
Somalia (Berlese, 1916) – Favognathus cucurbita (var. subnitidus)
South Africa (Meyer & Ryke, 1960; Smith Meyer & Ueckermann, 1989) – Favognathus cucurbitellus, F. latibarrus, F. pongolensis

ASIA
Iran (Khanjani & Ueckermann, 2008; Gheblealivand et al., 2011; Gheblealivand et al., 2011; Nazari, Khanjani & Kamali, 2013; Beyzavi et al., 2013; Bagheri, Paktinat Saeij & Shirinbeik Mohajer, 2013; Bagheri, Maleki, Gharekhani & Ahaniazad, 2013; Shirinbeik Mohajer, Bagheri, Yazdanian, Saboori & Paktinat Saeij, 2014; Saboori, Jafari & Bagheri, 2014; Khanjani, Khanjani, Najaf-Abadi & Seeman, 2014; Hassanzadeh, Khanjani, Safar Ali-zadeh

Israel and Palestina (Gerson, 1968; Luxton, 1993) – Cryptognathus attenuates, C. ochraceus, Favognathus cordylus, F. gersoni

Japan (Shiba, 1969) – Favognathus

Korea (North) (Kontschán et al., 2014) – Favognathus maritimus

Malaysia (Shiba, 1976; Ehara, 1993) – Cryptognathidae

Pakistan (Chaudhri, Akbar & Rasool, 1979) – Favognathus dama

Syria (Barbar, 2018) – Favognathus cordylus

NORTH AMERICA

Canada (Smith, 1987; Lafontain et al., 1987; Beaulieu et al., 2019) – Cryptognathus lagena (= corrugis)


Hawaii (Swift, 1987, 1996; Swift & Goff, 2001) – Favognathus distinctus, F. goffi, F. pictus, F. variabilis

SOUTH and CENTRAL AMERICA

Brazil (Flechtmann, 1971) – Favognathus agapictus

Ecuador (contin.)

Galapagos (Summers & Chaudhri, 1965) – Favognathus ochraceus, F. pictus

OCEANIA

Australia (continent)(Hirst, 1926; Womersley, 1935; Luxton, 1973) – Cryptognathus australiensis, C. eurytopus, C. lateropunctatus, C. tenuis, Favognathus denticulatus, F. magnus


Niue (Luxton, 1973) – Favognathus insularis

Bibliography of Cryptognathidae


The Mite Family Dasythyreidae Walter et Gerson

Dasythyreidae Walter & Gerson, 1998: 196

Small family of three known species, living in soil or litter or under tree bark, known from North America, Europe and Australia. Undescribed species of *Dasythyreus* have been found on logs in boreal forest in Alberta, Canada, phoretic as adult females on click beetles (Coleoptera: Elateridae) (after E. E. Lindquist, unpublished).

Composition of Dasythyreidae

*Dasythyreus* Atyeo, 1961 – 2 sp.
*Xanthodasythyreus* Walter et Gerson, 1998 – 1 sp.

Catalogue of Dasythyreidae

Fam. *Dasythyreidae* Walter et Gerson
Dasythyreidae Walter & Gerson, 1998: 196
Type genus: *Dasythyreus* Atyeo, 1961

Genus *Dasythyreus* Atyeo
*Dasythyreus* Atyeo, 1961: 155
Type species: *Dasythyreus hirsutus* Atyeo, 1961

*Dasythyreus hirsutus* Atyeo
*Dasythyreus hirsutus* Atyeo, 1961: 155; Skvarla et al., 2013: 401
Type locality: Fayetteville, Arkansas, under the bark of a dead tree
Distribution: USA (Arkansas)

*Dasythyreus polytrichus* Khaustov et Abramov
*Dasythyreus polytrichus* Khaustov & Abramov, 2010: 266
Type locality: European Russia
Distribution: Russia

Genus *Xanthodasythyreus* Walter et Gerson
*Xanthodasythyreus* Walter & Gerson, 1998: 190
Type species: *Xanthodasythyreus toohey* Walter et Gerson, 1998
**Xanthodasythyreus toohey** Walter et Gerson

*Xanthodasythyreus toohey* Walter & Gerson, 1998: 190

Type locality: Queensland, Toohey Forest, Griffith Univ., Nathan

Distribution: Australia (Queensland)

# Index of Dasythyreidae

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# Distribution of Dasythyreidae

**EUROPE**

**Russia** (Khaustov & Abramov, 2010) – *Dasythyreus polytrichus*

**NORTH AMERICA**

**Canada** (Beaulieu et al., 2019) – *Dasythyreus* sp.

**USA** (Atyeo, 1961; Skvarla et al., 2013) – *Dasythyreus hirsutus*

**OCEANIA**

**Australia** (Walter & Gerson, 1998) – *Xanthodasythyreus toohey*

# Bibliography of Dasythyreidae


The Mite Family Dytiscacaridae
Hajikanbar et Lindquist

Dytiscacaridae Hajikanbar & Lindquist, 2018: 700

Specialized parasites, undergoing their entire life cycle in the space beneath the elytrae of water beetles (Dytiscidae – *Hydaticus, Thermonectus*).

Composition of Dytiscacaridae

Family *Dytiscacaridae* Hajikanbar et Lindquist, 2018 – 1 genus, 3 sp.
*Dytiscacarus* Hajikanbar et Lindquist, 2018 – 3 sp.

Catalogue of Dytiscacaridae

Genus *Dytiscacarus* Hajikanbar et Lindquist
*Dytiscacarus* Hajikanbar & Lindquist, 2018: 700
Type species: *Dytiscacarus* Hajikanbar & Lindquist, 2018

*Dytiscacarus americanus* Hajikanbar et Lindquist
*Dytiscacarus americanus* Hajikanbar & Lindquist, 2018: 713
Type locality: USA
Distribution: USA
Host: under elytrae of water beetles (Coleoptera: Dytiscidae)

*Dytiscacarus iranicus* Hajikanbar et Lindquist
*Dytiscacarus iranicus* Hajikanbar & Lindquist, 2018: 701
Type locality: Iran
Distribution: Iran
Host: under elytrae of water beetles (Coleoptera: Dytiscidae)

*Dytiscacarus thermonecti* Hajikanbar et Lindquist
*Dytiscacarus thermonecti* Hajikanbar & Lindquist, 2018: 723
Type locality: USA
Distribution: USA
Host: under elytrae of *Thermonectus* Dejean (Coleoptera: Dytiscidae)
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- Dytiscacaridae  95
- Dytiscacarus  95
- iranicus, Dytiscacarus  95
- thermonecti, Dytiscacarus  95

Distribution of Dytiscacaridae

ASIA
Iran (Mortazavi, Hajiqanbar & Lindquist, 2018) – Dytiscacarus iranicus

NORTH AMERICA
USA (Mortazavi, Hajiqanbar & Lindquist, 2018) – Dytiscacarus americanus, D. thermonecti

Bibliography of Dytiscacaridae

The Mite Family Eupalopsellidae Willmann

Eupalopsellidae Willmann, 1952: 252


Composition of Eupalopsellidae

Family Eupalopsellidae Willmann, 1952 – 7 gen., 50 sp.
Acaciacarus Gerson, Frost et Swift, 1997 – 1 sp.
Eupalopsellus Sellnick, 1949 – 19 sp.
Eupalopsis G. Canestrini, 1886 – 4 sp.
Exothorhis Summers, 1960 – 16 sp.
Paraeupalopsellus Smiley et Moser, 1968 – 3 sp.
Peltasellus Smith-Meyer et Ueckermann, 1984 – 1 sp.
Saniosulus Summers, 1960 – 6 sp.

Catalogue of Eupalopsellidae

Fam. Eupalopsellidae Willmann
Eupalopsellidae Willmann, 1952: 163
Type genus: Eupalopsellus Sellnick, 1949

Genus Acaciacarus Gerson, Frost et Swift
Acaciacarus Gerson, Frost & Swift, 1997: 185
Type species: Acaciacarus paradoxus Gerson, Frost et Swift, 1997

Acaciacarus paradoxus Gerson, Frost et Swift
Acaciacarus paradoxus Gerson, Frost & Swift, 1997: 186
Type locality: Glen Osmond, South Australia
Distribution: Australia (SA)
Genus *Eupalopsellus* Sellnick
*Eupalopsellus* Sellnick, 1949: 132
Type species: *Eupalopsellus olandicus* Sellnick, 1949

*Eupalopsellus brevipilus* (Meyer et Ryke)
*Eupalopsis brevipilus* Meyer & Ryke, 1960: 223
Type locality: Kaap Muiden, South Africa
Distribution: Cameroon, South Africa, Mozambique, Yemen, Zimbabwe

*Eupalopsellus crotovallaris* Van Dis et Ueckermann
*Eupalopsellus crotovallaris* Van Dis & Ueckermann, 1993: 130; Fan, 2004: 542; Bagheri et al., 2006; Gheblealivand et al., 2011; Beyzavi et al., 2013: 394
Type locality: Gamkaskloof, Cape province
Distribution: Iran, South Africa

*Eupalopsellus deformatus* Fan
*Eupalopsellus deformatus* Fan, 2004: 534; Fan & Chen, 2010: 127; Dilkaraoğlu et al., 2016c; Doğan et al., 2017g; Doğan, 2019: 133
Type locality: Yangyuan, Zhenhe Co., Fujian Prov.
Distribution: China, Turkey

*Eupalopsellus fasipalmus* Van Dis et Ueckermann
*Eupalopsellus fasipalmus* Van Dis & Ueckermann, 1993: 127; Fan, 2004: 543
Type locality: Ysterfontein
Distribution: South Africa

*Eupalopsellus hamedaniensis* Khanjani, Eghbalian, Ueckermann et Pourmirza
*Eupalopsellus hamedaniensis* Khanjani, Eghbalian, Ueckermann & Pourmirza, 2007: 319; Beyzavi et al., 2013: 394
Type locality: Hamedan Prov.
Distribution: Iran

*Eupalopsellus kermaniensis* Mahdavi, Asadi et Farzan
*Eupalopsellus kermaniensis* Mahdavi, Asadi & Farzan, 2013: 190
Type locality: Kerman Prov.
Distribution: Iran
**Eupalopsellus oelandicus** Sellnick
Type locality: “Hornsudde auf Öland” (Sweden)
Distribution: Belgium, England, Germany (Wangerooge Island), Iran, Sweden, Turkey, Crimea, USA

**Eupalopsellus olearius** Zaher et Gomaa
Type locality: Egypt, El-Manzala, Dakahlia Governorate
Distribution: Egypt
Host: from olive buds associated with scale insects

**Eupalopsellus oresbiosis** Smith-Meyer et Ueckermann
Type locality: Cape Province, Table Mountain, Cape Town
Distribution: South Africa

**Eupalopsellus passerinae** Smith-Meyer et Ueckermann
Type locality: Cape Province, Sir Lowry’s Pass, near Grabouw
Distribution: South Africa

**Eupalopsellus prasadi** Bagheri et Khanjani
*Eupalopsellus prasadi* Bagheri & Khanjani, 2009: 54; Beyzavi et al., 2013: 395; Kasap et al., 2013a, b; Doğan, 2019: 133
Type locality: Zanjan
Distribution: Iran, Turkey

**Eupalopsellus pteroniae** Van Dis et Ueckermann
*Eupalopsellus pteroniae* Van Dis & Ueckermann, 1993: 134
Type locality: Oudtshoorn
Distribution: South Africa

**Eupalopsellus retiscutatus** Smith-Meyer et Ueckermann
*Eupalopsellus retiscutatus* Smith-Meyer & Ueckermann, 1989: 13
Type locality: Transvaal, Graskop
Distribution: South Africa

*Eupalopsellus rostridius* Summers
Type locality: Scotland, intercepted at Boston
Distribution: Latvia, Scotland, Turkey, Crimea, USA

*Eupalopsellus sellnicki* Smith-Meyer et Ueckermann
Type locality: Orange Free State, Golden Gate Highland National Park
Distribution: Angola, South Africa

*Eupalopsellus summersi* Smith-Meyer et Ueckermann
Type locality: Cape Province, Cape Point Nature Reserve
Distribution: South Africa

*Eupalopsellus trudis* Summers
Type locality: Ogden Canyon, Utah (USA)
Distribution: Canada, Germany, Crimea, Hungary, Ukraine, USA

*Eupalopsellus ueckermanni* Khanjani, Massoudian et Asali-Fayaz
*Lepidocybe ueckermanni* Khanjani, Massoudian & Asali-Fayaz, 2011: 104; Beyzavi et al., 2013: 395
Type locality: Hamedan
Distribution: Iran

*Eupalopsellus xerotopicus* van-Dis et Ueckermann
*Lepidocybe xerotopicus* van-Dis & Ueckermann, 1993: 127; Fan, 2004: 544
Type locality: Karoo National Park
Distribution: South Africa

Genus *Eupalopsis* G. Canestrini
*Lepidocybe* G. Canestrini, 1886: 670
Type species: *Eupalus maseriensis* Canestrini et Fanzago, 1876

**Eupalopsis gersoni** Smith-Meyer et Ueckermann


Type locality: Middelburg, Cape Province

Distribution: South Africa

**Eupalopsis jamesi** Gerson

*Eupalopsis jamesi* Gerson, 1994: 64; Matioli, Ueckermann & Oliveira, 2002: 30

Type locality: New South Wales

Distribution: Australia

**Eupalopsis maseriensis** (Canestrini et Fanzago)

*Eupalus maseriensis* Canestrini & Fanzago, 1876: 138

*Mediolata arvensis* G. Canestrini, 1889; Berlese, A.M.S.It., 71(9)


Type locality: Italy

Distribution: Hungary, Israel, Italy, Syria, Turkey

**Eupalopsis pentascuta** Zaher et Gomaa

*Eupalopsellus pentascuta* Zaher & Gomaa, 1978: 549

Type locality: Demiatta, Kafr Elshaikh Governorate

Distribution: Egypt

Host: from mango buds associated with scale insects

Genus **Exothorhis** Summers

*Exothorhis* Summers, 1960: 131

Type species: *Exothorhis caudata* Summers, 1960

**Exothorhis armata** Summers


Type locality: Australia, intercepted at Hawaii

Distribution: Australia

**Exothorhis bixae** Rimando et Corpuz-Raros

*Exothorhis bixae* Rimando & Corpuz-Raros, 1996: 112

Type locality: Philippines
Distribution: Philippines

*Exothorhis camelliae* Smith-Meyer et Ueckermann
*Exothorhis camelliae* Smith-Meyer & Ueckermann, 1984: 125; 1989: 10
Type locality: Transvaal, Letsitele
Distribution: South Africa

*Exothorhis caudata* Summers
*Exothorhis citri* Meyer and Ueckermann, 1989: 10; T. loc.: St. Suzanne, Reunion Island
(syn. by Matioli et al., 2002: 27)
Type locality: Florida
Distribution: Brazil, Reunion Island, USA (Florida and Hawaii)

*Exothorhis damortis* Rimando et Corpuz-Raros
*Exothorhis damortis* Rimando & Corpuz-Raros, 1996: 105
Type locality: Philippines
Distribution: Philippines

*Exothorhis echinocactii* Gerson
*Exothorhis echinocactii* Gerson, 1994: 70
Type locality: Queensland
Distribution: Australia

*Exothorhis eorhis* Rimando et Corpuz-Raros
*Exothorhis eorhis* Rimando & Corpuz-Raros, 1996: 114
Type locality: Philippines
Distribution: Philippines

*Exothorhis jinganensis* Hu et Chen
Type locality: Jinan, host Platanaceae orientalis, Jiangxi
Distribution: China

*Exothorhis justicia* Roy, Gupta et Saha
Type locality: West Bengal
Distribution: India
**Exothorhis kenyae** Bolland  
Type locality: Nairobi  
Distribution: Kenya

**Exothorhis lenis** Rimando et Corpuz-Raros  
*Exothorhis lenis* Rimando & Corpuz-Raros, 1996: 110  
Type locality: Philippines  
Distribution: Philippines

**Exothorhis matulis** Rimando et Corpuz-Raros  
*Exothorhis matulis* Rimando & Corpuz-Raros, 1996: 108  
Type locality: Philippines  
Distribution: Philippines

**Exothorhis nadiaensis** Chatterjee et Gupta  
*Exothorhis nadiaensis* Chatterjee et Gupta, in Gupta, 2002: 93  
Type locality: West Bengal, Nadia Distr., Kalyani  
Distribution: India

**Exothorhis okinawana** Ehara  
Type locality: Nakijin, Okinawa  
Distribution: Japan (Okinawa)

**Exothorhis phoenici** Smith-Meyer et Ueckermann  
*Exothorhis phoenici* Smith-Meyer & Ueckermann, 1989: 8  
Type locality: Khartoum  
Distribution: Sudan

**Exothorhis sudanicus** Zaher et Youseff  
Type locality: Sudan  
Distribution: Sudan

Genus **Paraeupalopsellus** Smiley et Moser  
*Paraeupalopsellus* Smiley & Moser, 1968: 315  
Type species: *Paraeupalopsellus hodgesi* Smiley et Moser, 1968
**Paraeupalopsellus aquatilis** Smith-Meyer et Ueckermann
Type locality: Vygeboom Dam, near Badplaas
Distribution: South Africa

**Paraeupalopsellus clareae** Rimando et Corpuz-Raros
*Paraeupalopsellus clareae* Rimando & Corpuz-Raros, 1996: 100
Type locality: Philippines
Distribution: Philippines

**Paraeupalopsellus hodgesi** Smiley et Moser
*Paraeupalopsellus hodgesi* Smiley & Moser, 1968: 315
Type locality: Elizabeth, Louisiana
Distribution: USA (Louisiana)

Genus **Peltasellus** Smith-Meyer et Ueckermann
*Peltasellus* Smith-Meyer & Ueckermann, 1984: 124
Type species: *Peltasellus parmus* Meyer et Ueckermann, 1984

**Peltasellus parmus** Meyer et Ueckermann
Type locality: Rietspruit, nr. Pongola (Transvaal)
Distribution: South Africa

Genus **Saniosulus** Summers
*Saniosulus* Summers, 1960: 135
Type species: *Saniosulus nudus* Summers, 1960

**Saniosulus deliquus** Doğan, Bingül et Doğan
*Saniosulus deliquus* Doğan, Bingül & Doğan, 2019: 222; Doğan, 2019: 133
Type locality: Erzincan and Pülümür Valley
Distribution: Turkey

**Saniosulus gersoni** Hu et Liang
*Saniosulus gersoni* Hu & Liang, 1995: 56; Fan & Chen, 2010: 127
Type locality: Zhangfeng Park, Shanghai
Distribution: China

**Saniosulus harteni** (Van-Dis et Ueckermann)
*Eryngiopus harteni* Van-Dis & Ueckermann, 1993: 123; Matioli, Ueckermann & de-Oliveira, 2002: 24; Ueckermann, van Harten & Smith Meyer, 2006: 264; Dehghan-Dolati et al., 2011; Beyzavi et al., 2013: 398
Saniosulus harteni (Van-Dis et Ueckermann): Childers & Ueckermann, 2014: 187
Type locality: Haman Ali, Yemen
Distribution: Iran, USA, Yemen

Saniosulus longidius Fan, Zhang et Liu
Type locality: Fuan, Chengyang; Fujian
Distribution: China

Saniosulus molliculus Fan, Zhang et Liu
Type locality: Fuzhou; Fujian
Distribution: China

Saniosulus nudus Summers
Type locality: Mexico, intercepted at Texas, and Texas (Valverde)
Distribution: China, Egypt, India, Israel, Mexico, USA (California, Hawaii)

Saniosulus yonganensis Fan, Zhang et Liu
Saniosulus yonganensis Fan, Zhang & Liu, 2000: 64; Fan & Chen, 2010: 127
Type locality: Yongan, Shengqing; Fujian
Distribution: China

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EUROPE
Belgium (Cooreman, 1958) – Eupalopsellus oelandicus
Germany (Willmann, 1952; Strandtmann & Prasse, 1976) – Eupalopsellus oelandicus, E. trudis
Great Britain (Evans, 1954; Cooreman, 1958; Summers, 1960) – Eupalopsellus rostridius, E. oelandicus
Holland (Gomaa, 1982) – Eupalopsis vandergeesti
Hungary (Ripka, Fain & Bolland, 1999; Ripka et al., 2005) – Eupalopsellus trudis, Eupalopsis maseriensis
Italy (contin.)(Canestrini & Fanzago, 1876) – Eupalopsis maseriensis
Crimea (Livshitz & Kuznetzov, 1976) – Eupalopsellus oelandicus, E. rostridius, E. trudis
Sweden (Sellnick, 1940) – Eupalopsellus olandicus
Latvia (Kuznetsov & Petrov, 1984) – Eupalopsellus rostridius
Ukraine (Khaustov & Kuznetsov, 1997) – Eupalopsellus trudis

AFRICA
Angola (Meyer & Ueckermann, 1984, 1989) – Eupalopsellus sellnicki
Cameroon (Bolland & Ueckermann, 1984) – Eupalopsis brevipilus

Kenya (Bolland, 1988) – Exothorhis kenyae

Mozambique (Meyer & Ueckermann, 1984) – Eupalopsis brevipilus

Namibia – one species

Reunion (Smith-Meyer & Ueckermann, 1989) – Exothorhis caudate (= citri)


Sudan (Zaher & Yousef, 1973) – Exothorhis phoenixi, E. sudanicus

Zimbabwe (Meyer & Ueckermann, 1984) – Eupalopsellus brevipilus

ASIA


India (Gupta, 2002; Roy, 2006) – Exothorhis justicia, E. nadianensis, Saniosulus nudus


Israel and Palestina (Gerson, 1966, 1968, 1971) – Eupalopsis maseriensis, Saniosulus nudus

Japan (Ehara, 1967) – Exothorhis okinawana (Okinawa)


Syria (Barbar, 2018) – Eupalopsis maseriensis

Yemen (Ueckermann, van Harten & Smith Meyer, 2006) – Eupalopsellus brevipilis

NORTH AMERICA

Canada (Smith, 1987; Lafontain et al., 1987; Beaulieu et al., 2019) – Eupalopsellus trudis

Mexico (Summers, 1960; Smiley & Moser, 1968) – Saniosulus nudus

USA (Summers, 1960; Smiley & Moser, 1968; Rakha & McCoy, 1985; Childers & Ueckermann, 2014) – Eupalopsellus trudis, Exothorhis caudata, Paraeupalopsellus hodgesi, Saniosulus harteni, S. nudus

Hawaii (Swift, 1996, 1997) – Exothorhis caudata, Saniosulus nudus

SOUTH AMERICA

Brazil (Matioli, Ueckermann & de Oliveira, 2002) – Exothorhis caudata
OCEANIA
Australia (continent) (Summers, 1960; Gerson, 1994; Gerson, Frost & Swift, 1997) – *Aca-
ciacarus paradoxus, Eupalopsis jamesi, Exothorhis armata, E. echinocactii*

**Bibliography of Eupalopsellidae**


The Mite Family Homocaligidae Wood

Homocaligidae Wood, 1970: 711

The Homocaligidae (eight sp., discovered in Europe, China, Thailand, Malaysia, USA, and South Africa) are capable of skating across the surface of water, and the adults have what appear to be accessory sacs or tubes apparently used in respiration or flotation (Walter, Lindquist, Smith, Cook & Krantz, 2009). The information concerning these mites comes mainly from C. L. Koch, Berlese, Wood, Habeeb, Fan, González-Rodríguez, Wainstein, Meyer et Ryke.

Composition of Homocaligidae

Anna Rossella Habeeb, 1966 – 4 sp.
Homocaligus Berlese, 1910 – 4 sp.

Catalogue of Homocaligidae

Fam. Homocaligidae Wood
Homocaligidae Wood, 1970: 711
Type genus: Homocaligus Berlese, 1910

Genus Anna Rossella Habeeb
Anna Rossella Habeeb, 1966: 1
Anna Rossela [misspelling Z. Rec.]
Type species: Ledermülleria lineolata Meyer et Ryke, 1960

Anna Rossella knorri Gonzalez
Anna Rossella knorri Gonzalez, 1978: 221
Type locality: Thailand.
Distribution: Thailand

Anna Rossella lii Fan
Anna Rossella lii Fan, 1997: 337; Fan & Chen, 2010: 127
Type locality: Fuzhou City, Fujian Prov.
Distribution: China

Anna Rossella lineolata (Meyer et Ryke)
Ledermülleria lineolata Meyer & Ryke, 1960: 217
Mullederia lineolata: Wood, 1964: 583
Homocaligus lineolatus: Meyer, 1969: 270
Type locality: Duiwelskloof
Distribution: South Africa

Annerossella pacifica Wood
Annerossella pacifica Wood, 1969: 714
Type locality: Malaya
Distribution: Malaysia

Genus Homocaligus Berlese
Homocaligus Berlese, 1910: 203 [was in Stigmaeidae]
Type species: Stigmaeus scapularis C.L.Koch, 1838

Homocaligus amphibius Wainstein
Homocaligus amphibius Wainstein, 1975: 40; Tolstikov & Piterskih, 1996: 172
Type locality: Russia (Yaroslavskaya oblast)
Distribution: Russia, Uzbekistan

Homocaligus crassipus Fan
Type locality: Fuzhou City, Host Eichhornia crassipes (plant); Fujian
Distribution: China, Turkey

Homocaligus muscorum Habeeb
Homocaligus muscorum Habeeb, 1962: 1; Smith, 1987: 41
Type locality: Maine (bog water near Caribou, Aroostook County), New Brunswick, New York
Distribution: Canada, USA

Homocaligus scapularis (C.L.Koch)
Stigmaeus scapularis C.L.Koch, 1838: 1
Homocaligus scapularis (C.L.Koch): Berlese, 1910: 203; Dudich, Kolosváry & Szalay, 1940: 54; Franz, 1954: 366
Type locality: Germany
Distribution: Austria, Germany, Holland, Hungary, Italy
Index of Homocaligidae

(Names in bold are accepted as valid)

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Distribution of Homocaligidae

EUROPE

Austria (Franz, 1954) – Homocaligus scapularis
Germany (C.L. Koch, 1838) – Homocaligus scapularis
Holland – Homocaligus scapularis
Hungary (Dudich, Kolosváry & Szalay, 1940) – Homocaligus scapularis
Italy (Castagnoli & Nannelli, 1995) – Homocaligus scapularis
Russia (all, continent.) (Wainstein, 1975; [Tolstikov & Piterskih], 1996; Tolstikov, 2001)
  – Homocaligus amphibius
Turkey (Doğan et al., 2014, Doğan, 2019) – Homocaligus crassipus

AFRICA

South Africa (Meyer & Ryke, 1960; Meyer, 1969) – Annerossella lineolata

ASIA

China (Fan, 1997; Fan & Chen, 2010) – Annerossella lii, Homocaligus crassipus
Malaysia (Wood, 1969) – Annerossella pacifica
Thailand (González-Rodríguez, 1978) – Annerossella knorri
Uzbekistan (Tolstikov & Piterskih, 1996) – Homocaligus amphibius

NORTH AMERICA

Canada (Smith, 1987) – Homocaligus muscorum
USA (Habeeb, 1962) – Homocaligus muscorum
Bibliography of Homocaligidae


The Mite Family Mecognathidae
Gerson et Walter

Mecognathidae Gerson & Walter, 1998: 145

Small family of seven known species described from Australia, New Zealand, South Africa, the Philippines and the USA.

Composition of Mecognathidae

Fam. Mecognathidae – 2 gen., 7 sp.
Paraeupalopsellus Smiley et Moser, 1968 – 3 sp.

Catalogue of Mecognathidae

Fam. Mecognathidae Gerson et Walter
Mecognathidae Gerson & Walter, 1998: 145
Type genus: Mecognatha Wood, 1967

Genus Mecognatha Wood
Mecognatha Wood, 1967: 115
Type species: Mecognatha hirsuta Wood, 1967

Mecognatha hirsuta Wood
Type locality: NZ, Mt Albert Res. Centre
Distribution: Australia, Campbell Island, New Zealand

Mecognatha paradoxa (Gerson, Frost et Swift)
Acaciacarus paradoxus Gerson, Frost & Swift, 1997: 186
Mecognatha paradoxus (Gerson, Frost et Swift): several papers
Type locality: Glen Osmond nr. Adelaida
Distribution: Australia
**Mecognatha parilis** Fan et Zhang
*Mecognatha parilis* Fan & Zhang, 2005: 31
Type locality: NZ, Wanaka
Distribution: New Zealand

**Mecognatha rara** Fan et Zhang
*Mecognatha rara* Fan & Zhang, 2005: 32
Type locality: NZ, Kumeu
Distribution: New Zealand

Genus *Paraeupalopsellus* Smiley et Moser
*Paraeupalopsellus* Smiley & Moser, 1968: 315
Type species: *Paraeupalopsellus hodgesi* Smiley et Moser, 1968

**Paraeupalopsellus aquatilis** Meyer et Ueckermann
*Paraeupalopsellus aquatilis* Meyer & Ueckermann, 1984: 122
Type locality: Transvaal
Distribution: South Africa

**Paraeupalopsellus clareae** Rimando et Corpuz-Raros
*Paraeupalopsellus clareae* Rimando & Corpuz-Raros, 1996: 100
Type locality: Philippines
Distribution: Philippines

**Paraeupalopsellus hodgesi** Smiley et Moser
*Paraeupalopsellus hodgesi* Smiley & Moser, 1968: 315
Type locality: Elizabeth, Louisiana
Distribution: USA

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Distribution of Mecognathidae

AFRICA
South Africa (Smith-Meyer & Ueckermann, 1984) – *Paraeupalopsellus aquatilis*

ASIA
Philippines (Rimando & Corpuz-Raros, 1996) – *Paraeupalopsellus clareae*

NORTH AMERICA
USA (Smiley & Moser, 1968) – *Paraeupalopsellus hodgesi*

OCEANIA
Australia (continent) (Wood, 1971a; Gerson, Frost & Swift, 1997) – *Mecognatha hirsuta, M. paradoxa*
Campbell Island (Wood, 1971a) – *Mecognatha hirsuta*

Bibliography of Mecognathidae

The Mite Family Raphignathidae Kramer

Raphignathidae Kramer, 1877: 215

More than 75 species of the family Raphignathidae have been described from around the world, found on or beneath tree bark, in moss, and in dry organic litter, sometimes in synanthropic habitats, such as house dust or stored grain. The first family described in Raphignathoidea still consists only of three genera and of at least 70 valid species. After Dugès (1834) and Kramer (1877) the family has been studied by numerous acarologists, including Smiley & Moser, 1968 (having described the second genus in Raphignathidae), Atyeo, Baker & Crossley (1961), Atyeo (1963), Athias-Henriot (1961), Fan & Yin (2000), Fan & Zhang (2005), Mitra & Mitra (1953), Robaux (1976), Kuznetsov (1976), Shiba (1969), Meyer & Ryke (1960), Smith-Meyer & Ueckermann (1989), Womersley (1937), Zaher & Gomaa (1980), and, recently, by many Turkish (Doğan, Ayyıldız) and Iranian (Ahaniazad, Bagheri, Akrami, Majidi, Gharakhany, Zarei) acarologists. Willmann (1951) described the genus *Acheleopsis*, based on a species inquirenda.

Composition of Raphignathidae

Fam. **Raphignathidae** Kramer, 1877 – 3 gen., 77 sp.

* Acheleopsis Willmann, 1951 – 1 sp.
* Neoraphignathus Smiley et Moser, 1968 – 1 sp.
* Raphignathus Dugès, 1834 – 75 sp.

Catalogue of Raphignathidae

Fam. **Raphignathidae** Kramer
Raphignathidae Kramer, 1877: 215
Type genus: *Raphignathus* Dugès, 1834

Genus **Acheleopsis** Willmann
*Acheleopsis* Willmann, 1951: 141 [?]
Type species: *Acheleopsis quadrioculata* Willmann, 1951 [Species Inquirendus]

*Acheleopsis quadrioculata* Willmann
*Acheleopsis quadrioculata* Willmann, 1951: 141[Species Inquirendus]
Type locality: Austria
Distribution: Austria
Genus **Neoraphignathus** Smiley et Moser  
*Neoraphignathus* Smiley & Moser, 1968: 315  
Type species: *Neoraphignathus howei* Smiley et Moser, 1968

**Neoraphignathus howei** Smiley et Moser  
*Neoraphignathus howei* Smiley & Moser, 1968: 315  
Type locality: Elizabeth, Louisiana  
Distribution: USA

Genus **Raphignathus** Dugès  
*Raphignathus* Dugès, 1834: 53  
*Acheles* Oudemans, 1903: 101; Type: *Acheles mirabilis* Oudemans  
*Syncaligus* Berlese, 1910: 202 – Type: *Caligonus petrobius* Canestrini, 1889; synonymy by Oudemans, 1923a: 138  
Type species: *Raphignathus ruberrimus* Dugès, 1834

**Raphignathus aciculatus** Fan  
*Raphignathus aciculatus* Fan & Yin, 2000: 91; Fan & Chen, 2010: 127; Ghorbani et al., 2010; 2013; Beyzavi et al., 2013: 395  
Type locality: Fuzhou; Fujian  
Distribution: China, Iran

**Raphignathus aethiopicus** (Meyer et Ryke)  
*Acheles aethiopica* Meyer & Ryke, 1960: 231  
*Raphignathus aethiopicus* (Meyer & Ryke): Smith-Meyer & Ueckermann, 1989: 38; Shirinbeik-Mohajer et al., 2012; Beyzavi et al., 2013: 395  
Type locality: Bathurst  
Distribution: Iran, South Africa

**Raphignathus africanus** Smith-Meyer et Ueckermann  
*Raphignathus africanus* Smith-Meyer & Ueckermann, 1989: 34; Doğan et al., 2012: 720; Beyzavi et al., 2013: 395  
Type locality: Addo Elephant nat. Park, Cape Province (South Africa)  
Distribution: Iran, South Africa, Zimbabwe

**Raphignathus afyonensis** Akyol et Koç  
*Raphignathus afyonensis* Akyol & Koç, 2006: 1158; Doğan, 2007: 10; 2019: 133  
Type locality: Afyon  
Distribution: Turkey
**Raphignathus arabicus** Gomaa et Hassan
*Raphignathus arabicus* Gomaa & Hassan, 1983: 98
Type locality: Egypt
Distribution: Egypt

**Raphignathus atomatus** Fan et Zhang
*Raphignathus atomatus* Fan & Zhang, 2005: 34
Type locality: Three Kings Is, Great I.
Distribution: New Zealand

**Raphignathus atyeoi** Smith-Meyer et Ueckermann
Type locality: Orange Free State (South Africa)
Distribution: Iran, South Africa, Turkey, Zimbabwe

**Raphignathus azarshahriensis** Ahaniazad, Bagheri, Gharakhany et Zarei
*Raphignathus azarshahriensis* Ahaniazad, Bagheri, Gharakhany & Zarei, 2012: 368; Beyzavi et al., 2013: 395
Type locality: Azarshahr
Distribution: Iran

**Raphignathus bakeri** Zaher et Gomaa
*Raphignathus bakeri* Zaher & Gomaa, 1980: 200; Smith-Meyer & Ueckermann, 1989: 38; Beyzavi et al., 2013: 395
Type locality: Egypt
Distribution: Egypt, Iran

**Raphignathus bathursti** Meyer et Ryke
Type locality: Bathurst
Distribution: South Africa

**Raphignathus broomicus** Podder, Gupta et Saha
*Raphignathus broomicus* Podder, Gupta & Saha, 2009: 47
Type locality: West Bengal
Distribution: India

**Raphignathus cardinalis** (Ewing)
*Caligonus cardinalis* Ewing, 1905: 403
Raphignathus cardinalis (Ewing): Atyeo, Baker & Crossley, 1961: 16
Type locality: Xenia, Ohio
Distribution: USA

Raphignathus collegiatus Atyeo, Baker et Crossley
Type locality: Univ. of Maryland Campus, Colledge Park, Maryland
Distribution: China, Egypt, Hungary, Iran, New Zealand, Turkey, Ukraine, USA

Raphignathus cometes Atyeo
Raphignathus cometes Atyeo, 1963: 182
Type locality: South Bimini, Bahama Islands
Distribution: Bahama Islands, USA

Raphignathus conspicuus (Berlese)
Syncaligus conspicuus Berlese, 1910: 203
Type locality: Colombia
Distribution: Colombia

Raphignathus costatus Chaudhri, Akbar et Bashir
Type locality: Pakistan
Distribution: Pakistan

Raphignathus crustus Fan et Zhang
Raphignathus crustus Fan & Zhang, 2005: 36
Type locality: Mount Albert
Distribution: New Zealand

Raphignathus curtipilus Berlese
Raphignathus curtipilus Berlese, 1888: 4
Type locality: Italy
Distribution: Italy
**Raphignathus darjeelingensis** Gupta
*Raphignathus curtipilus* Chatterjee et Gupta, in Gupta, 2002: 95
Type locality: W. Bengal, Darjeeling
Distribution: India

**Raphignathus deinos** Akbar et Mushtak
*Raphignathus deinos* Akbar & Mushtak, 1996: 1
Type locality: Pakistan
Distribution: Pakistan

**Raphignathus deserticola** (Trägårdh)
*Caligonus deserticola* Trägårdh, 1904: 28
Type locality: Wadi Hof, Cairo
Distribution: Egypt

**Raphignathus domesticus** Shiba
Type locality: Kuwabara-cho Matsuyama
Distribution: China, Japan

**Raphignathus ebrius** Akbar et Mushtak
*Raphignathus ebrius* Akbar & Mushtak, 1996: 1
Type locality: Pakistan
Distribution: Pakistan

**Raphignathus ehari** Zaher et Gomaa
*Raphignathus ehari* Zaher & Gomaa, 1980: 201; Smith-Meyer & Ueckermann, 1989: 38; Haddad Irani-Nejad et al., 1999; Beyzavi et al., 2013: 396
Type locality: Egypt
Distribution: Egypt, Iran

**Raphignathus emirdagiensis** Akyol et Koç
*Raphignathus emirdagiensis* Akyol & Koç, 2006: 1153; Doğan, 2007: 10; 2019: 133
Type locality: Afyon
Distribution: Turkey

**Raphignathus ensipilosus** Smith-Meyer et Ueckermann
Type locality: Pongola, Transvaal (South Africa)
Distribution: South Africa, Turkey
**Raphignathus erzincanica** Doğan
*Raphignathus erzincanica* Doğan, 2003: 146; 2007: 10; 2019: 133
Type locality: Erzincan
Distribution: Turkey

**Raphignathus evansi** Zaher et Gomaa
Type locality: Giza, Middle Egypt
Distribution: Egypt

**Raphignathus evidus** Fan
Type locality: Yuanming Park; Beijing
Distribution: China

**Raphignathus fani** Doğan et Ayyıldız
*Raphignathus fani* Doğan & Ayyıldız, 2003: 142; Doğan, 2007: 11; 2019: 133; Dönel & Doğan, 2011:
Type locality: Erzurum
Distribution: Turkey

**Raphignathus furcisetosus** Smith-Meyer et Ueckermann
*Raphignathus furcisetosus* Smith-Meyer & Ueckermann, 1989: 38
Type locality: Pongola, Transvaal
Distribution: South Africa

**Raphignathus giresuniensis** Doğan
Type locality: Giresun
Distribution: Turkey

**Raphignathus giselae** Smith-Meyer et Ueckermann
Type locality: Stockdale Estates, Hartley, Zimbabwe
Distribution: Iran, South Africa, Turkey, Yemen, Zimbabwe

**Raphignathus gracilis** (Rack)
*Acheles gracilis* Rack, 1962: 281
Type locality: Schwenkestrasse, Hamburg
Distribution: Algeria, China, Crimea, Egypt, Germany, Hungary, Iran, Israel, Italy, Japan, New Zealand, Poland, Slovakia, South Africa, Turkey, Ukraine, USA

**Raphignathus guajavae** (Gupta)
*Acheles guajavae* Gupta, 1992: 134
*Raphignathus guajavae* Gupta, 2002: 95
Type locality: W. Bengal
Distribution: India

**Raphignathus hamooniensis** Poudineh, Ramroodi et Bagheri
*Raphignathus hamooniensis* Poudineh, Ramroodi & Bagheri, 2019: 1006
Type locality: Southeast Iran
Distribution: Iran

**Raphignathus hatamii** Khanjani, Pishehvar, Mirmoayedi et Khanjani
*Raphignathus hatamii* Khanjani, Pishehvar, Mirmoayedi & Khanjani, 2013: 62
Type locality: Hamadan
Distribution: Iran

**Raphignathus hecmatanaensis** Khanjani et Ueckermann
Type locality: Iran, Hamedan
Distribution: Crimea, Iran, Syria, Turkey

**Raphignathus hexeris** Chaudhri, Akbar et Rasool
*Raphignathus hexeris* Chaudhri, Akbar & Rasool, 1979: 197; Khanjani & Kamali, 1993; Beyzavi et al., 2013: 397; Halliday, Kamran & Bashir, 2018: 104
Type locality: Pakistan
Distribution: Iran, Pakistan

**Raphignathus hirstellus** Athias-Henriot
Type locality: Algeria
Distribution: Algeria
**Raphignathus hispidus** Dugès
*Raphignathus hispidus* Dugès, 1834: 56; Atyeo, Baker & Crossley, 1961: 15
*Syncaligus echidna* Berlese, 1910: 209
Type locality: Palermo (“agri Panormitani”)
Distribution: Italy (Sicily)

**Raphignathus hsiufui** Fan
Type locality: Fuzhou, Huaian; Fujian
Distribution: China

**Raphignathus impressus** (C.L. Koch)
*Caligonus impressus* C.L. Koch, 1838: fasc. 20; t.17
*Caligonus petrobius* Canestrini, 1889: 530
*Syncaligus petrobius* (Canestrini)
Type locality: Germany
Distribution: Germany, Italy

**Raphignathus johnstoni** Womersley
*Raphignathus johnstoni* Womersley, 1937: 10; Atyeo, 1963: 182
Type locality: amongst Cestodes from the intestine of a Weddell seal from Commonwealth Bay, King George V [Coast]
Distribution: Australia

**Raphignathus kamiensis** Smith-Meyer et Ueckermann
*Raphignathus kamiensis* Smith-Meyer & Ueckermann, 1989: 36
Type locality: Cape Province, 15 km south of Kamieskroon
Distribution: South Africa

**Raphignathus karabagiensis** Akyol et Koç
Type locality: Afyon
Distribution: Turkey

**Raphignathus karooi** Smith-Meyer et Ueckermann
*Raphignathus karooi* Smith-Meyer & Ueckermann, 1989: 30
Type locality: Jansenville, Cape Province
Distribution: Namibia, South Africa

**Raphignathus kelkitensis** Dönel et Doğan
*Raphignathus kelkitensis* Dönel & Doğan, 2011: 28; Doğan, 2019: 134
Acarorum Catalogus VII

Type locality: Kelkit
Distribution: Turkey

**Raphignathus keratos** Akbar et Mushtak
*Raphignathus keratos* Akbar & Mushtak, 1996: 2
Type locality: Pakistan
Distribution: Pakistan

**Raphignathus khorramabadensis** Bagheri, Jafari et Paktinat Saeej
*Raphignathus khorramabadensis* Bagheri, Jafari & Paktinat Saeej, 2013: 481; Uluçay et al., 2016b; Doğan, 2019: 134
Type locality: Horramabad
Distribution: Turkey

**Raphignathus koseiensis** Dönel et Doğan
*Raphignathus koseiensis* Dönel & Doğan, 1976: 181; Doğan, 2019: 134
Type locality: Köse Mt., Gümüşhane, 1877 m
Distribution: Turkey

**Raphignathus kurdistaniensis** Nasrollahi, Khanjani et Mirfakhraee
*Raphignathus kurdistaniensis* Nasrollahi, Khanjani & Mirfakhraee, 2018: 2070
Type locality: Kurdistan Province
Distribution: Iran

**Raphignathus kuznetzovi** Doğan et Ayyıldız
Type locality: Artvin, Erzurum
Distribution: Crimea, Turkey

**Raphignathus lanuginosus** Atyeo
*Raphignathus lanuginosus* Atyeo, 1963: 179
Type locality: Kimberley Research Station (60 miles south from Wyndham), Western Australia
Distribution: Australia (WA)

**Raphignathus laresetanensis** Bagheri, Akrami et Majidi
*Raphignathus laresetanensis* Bagheri, Akrami & Majidi, 2012: 53; Beyzavi et al., 2013: 397
Type locality: Larestan, Goude Ivan Village, Fars Province
Distribution: Iran
**Raphignathus lenis** Barilo
*Raphignathus lenis* Barilo, 1989: 134
Type locality: Samarkand
Distribution: Uzbekistan

**Raphignathus longimanus** (C.L. Koch)
*Caligonus longimanus* C.L. Koch, 1838: 18
Type locality: Germany
Distribution: Germany, Italy

**Raphignathus membranatus** Fan
Type locality: Yuanming Park, Beijing
Distribution: China

**Raphignathus meyerae** (Gupta et Paul)
*Acheles meyerae* Gupta & Paul, 1985: 17
*Raphignathus meyerae* (Gupta et Paul): Nasrollahi et al., 2018
Type locality: West Bengal
Distribution: India

**Raphignathus neocardinalis** Atyeo
*Raphignathus neocardinalis* Atyeo, 1963: 184
Type locality: South Bimini
Distribution: Bahama Islands

**Raphignathus neogracilis** Robaux
*Raphignathus neogracilis* Robaux, 1976: 511
Type locality: San Jose, Sta Clara Co., California
Distribution: USA (California)

**Raphignathus nilloticus** Rakha et Mohamed
*Raphignathus nilloticus* Rakha & Mohamed, 1980: 3
Type locality: Egypt
Distribution: Egypt

**Raphignathus orientalis** Fan et Li
Type locality: Chongqing, Fujian
Distribution: China
**Raphignathus ozkani** Doğan
*Raphignathus domesticus* Shiba: Doğan & Ayyıldız, 2006: 267
Type locality: Erzurum
Distribution: Turkey

**Raphignathus patrius** Berlese (sp. dubia)
*Raphignathus patrius* Berlese, 1885: 4; Hull, 1918: 30
Type locality: Italy
Distribution: England, Italy

**Raphignathus protaspus** Khanjani et Ueckermann
Doğan, 2007: 12; 2019: 134; Beyzavi et al., 2013: 397
Type locality: Iran
Distribution: Iran, Turkey

**Raphignathus pycnonotus** (Gupta et Paul)
*Acheles pycnonotus* Gupta & Paul, 1992: 82 (Species Inquirendus)
*Raphignathus pycnonotus* (Gupta et Paul)
Type locality: host *Pycnonotus cafer* (Aves); West-Bengal
Distribution: India

**Raphignathus quadrigeminus** Dönel et Doğan
*Raphignathus quadrigeminus* Dönel & Doğan, 1976: 179; Doğan, 2019: 134
Type locality: Niksar, Tokat
Distribution: Turkey

**Raphignathus rarus** Kuznetsov
*Raphignathus rarus* Kuznetsov, 1976: 41
Type locality: Dushanbe
Distribution: Tadjikistan

**Raphignathus ruberrimus** Dugès
*Raphignathus ruberrimus* Dugès, 1834: 22; Atyeo, Baker & Crossley, 1961: 15
*Caligonus cerasinus* Koch, 1838
*Syncaligus cerasinus* (Koch)
Type locality: Italy
Distribution: Italy
Raphignathus saboorii Ghorbani et Bagheri
Raphignathus saboorii Ghorbani & Bagheri, 2011: 426; Beyzavi et al., 2013: 397
Type locality: Maragheh, East Azerbaidjan province
Distribution: Iran

Raphignathus satoi Shiba
Raphignathus satoi Shiba, 1978: 159
Type locality: Malay Peninsula
Distribution: Malaysia

Raphignathus sceptrum Chaudhri, Akbar et Rasool
Raphignathus sceptrum Chaudhri, Akbar & Rasool, 1979: 195; Ghorbani et al., 2010; Bagheri et al., 2011; Beyzavi et al., 2013: 397; Halliday, Kamran & Bashir, 2018: 104
Type locality: Pakistan
Distribution: Iran, Pakistan

Raphignathus scutatus Halbert
Raphignathus scutatus Halbert, 1920: 142
Type locality: Ireland
Distribution: Ireland

Raphignathus smithi Mitra et Mitra
Raphignathus smithi Mitra & Mitra, 1953: 429
Type locality: Pashan, 6 miles NE of Poona
Distribution: India

Raphignathus solimani Hassan et Gomaa
Raphignathus solimani Hassan & Gomaa, 1982: 103
Type locality: Egypt
Distribution: Egypt

Raphignathus striatus Trägårdh
Raphignathus striatus Trägårdh, 1904: 30
Type locality: Cairo
Distribution: Egypt

Raphignathus summersi Robaux
Raphignathus summersi Robaux, 1976: 506
Type locality: Los Gatos et al. (California)
Distribution: USA (California)
**Raphignathus tamaricis** Poudineh, Ramroodi & Bagheri
*Raphignathus tamaricis* Poudineh, Ramroodi & Bagheri, 2019: 1006
Type locality: Southeast Iran
Distribution: Iran

**Raphignathus tauricus** nom. novum pro *Raphignathus scutatus* Kuznetsov, 1976: 40, non Halbert, 1920: 142
Type locality: Sudak, Crimea
Distribution: Crimea

**Raphignathus tumidus** Kuznetsov
*Raphignathus tumidus* Kuznetsov, 1976: 41
Type locality: Megri
Distribution: Armenia

**Raphignathus ueckermanni** Koç & Kara
Type locality: Izmir (Turkey)
Distribution: Crimea, Turkey

**Raphignathus vahiti** Doğan
Type locality: Erzincan
Distribution: Turkey

**Raphignathus zhaoi** Hu, Jing & Liang
Type locality: China
Distribution: China, Iran, Turkey

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Distribution of Raphignathidae

EUROPE

Armenia (Kuznetsov, 1976) – Raphignathus tumidus
Austria (Willmann, 1951) – Acheleopsis quadrioculata [Species Inquirendus]
Germany (C.L. Koch, 1838; Rack, 1962) – Raphignathus gracilis, R. impressus, R. longimanus
Estonia (Kuznetsov & Petrov, 1984) – Raphignathus collegiatus
Hungary (Ripka et al., 2005) – Raphignathus collegiatus, R. gracilis
Italy (contin.) (Bernini, Castagnoli & Nannelli, 1995) – Raphignathus conspicuus, R. curtipilis, R. gracilis, R. impressus (= petrobius), R. longimanus, R. ruberrimus
Sicily (Berlese, 1910) – Raphignathus hispidus (= echidna)
Latvia (Kuznetsov & Petrov, 1984) – Raphignathus collegiatus, R. gracilis
Lituania (Kuznetsov & Petrov, 1984) – Raphignathus collegiatus
Poland (Kazmierski, 2000) – Caligonella humilis, Cheylostigmaeus howelli, Eustigmaeus pinnatus, Raphignathus gracilis, Stigmaeus pilatus
Crimea (Kuznetsov, 1976 (as R. hirtellus); Khaustov & Sergeyenko, 2014) – Raphignathus gracilis, R. hecmatanaensis, R. kuznetsovi, R. ueckermanni
Slovakia (Vrabec, Fenda & Kalúz, 2012) – Raphignathus gracilis
Switzerland (Schweizer & Bader, 1963) – Raphignathus gracilis, R. longimanus
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hecmetaensis, R. karabagiensis, R. kelkitensis, R. koseiensis, R. kuznetsovi, R. ozkani, R. protaspus, R. quadrigeminus, R. uckermannii, R. vahiti, R. zhaoi

Ukraine (Kuznetsov, 1976) – Raphignathus collegiatus, R. gracilis, R. hirtellus, R. “scutatus”

AFRICA

Algeria (Athias-Henriot, 1961) – Raphignathus gracilis, R. hirstellus


Namibia (Smith-Meyer & Ueckermann, 1989) – Raphignathus africanus, R. atyeoi, R. giselae


ASIA


Israel and Palestina (Gerson, 1968, 1971) – Raphignathus gracilis

Japan (Ehara, 1980; Shiba, 1969a, 1969b) – Raphignathus domesticus, R. gracilis

Malaysia (Shiba, 1978) – Raphignathus satoi


Tadjikistan (Kuznetsovo, 1976) – Raphignathus rarus

Uzbekistan (Barilo, 1989) – Raphignathus lenis

Yemen (Ueckermann, van Harten & Smith Meyer, 2006) – Raphignathus giselae
NORTH AMERICA
Canada (Beaulieu et al., 2019) – 4 sp.
Hawaii (Swift, 1996) – Raphignathus aethiopicus
Bahama Islands (Atyeo, 1963) – Raphignathus cometes, R. neocardinalis

SOUTH AMERICA
Colombia (Berlese, 1910) – Raphignathus conspicuus

OCEANIA
Australia (continent) (Womersley, 1937; Atyeo, 1963) – Raphignathus johnstoni, R. lanuginosus
New Zealand (Fan & Zhang, 2005) – Raphignathus atomatus, R. collegiatus, R. crustus, R. gracilis

ANTARCTICA (Womersley, 1937) – Raphignathus johnstoni

Bibliography of Raphignathidae

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Koç K., M. Kara. 2005. Two new species of Raphignathoidea (Acari: Raphignathidae; Camerobiidae) from Turkey. – Acarologia, 45(3): 197–204.


The Mite Family Stigmaeidae Oudemans

Stigmaeidae Oudemans, 1931: 252

The biggest family of Raphignathoidea (33 genera and 634 species)(Fan, Flechtmann & de Moraes, 2016, with suppl.). consists of small mites (300–600 μm), living on plants, in moss and leaf litter. They feed on tiny insects and mites. The Stigmaeids have been studied first by C.L. Koch (1836), than by Canestrini and Berlese. Oudemans (1931) raised them in special family Stigmaeidae. From 1836 to 1950 have been published by Koch, Canestrini, Berlese and Oudemans 6 of the 33 known genera (Stigmaeus, Mediolata, Eustigmaeus, Macrostigmaeus, Storchia and Zetzellia), after 1950 – 25 genera and most of the species by Summers, Fan, Habeeb, Willmann, Ehara, Ueckermann, Gupta, Rimando & Copuz-Raros, Gerson, Wood, Khaustov, Kuznetsov, Meyer & Ryke, Bolland, Dosse, Hu, Shiba, Chaudhri, Tseng, Akbar, Barilo, Wood, Zhang, Doğan, González-Rodríguez, Akashi, Gomaa, Uluçay, Khanjani, Momen, Wang, Habeeb, Koç, Thor, Halbert, and other specialists.

Composition of Stigmaeidae

Family Stigmaeidae Oudemans, 1931 – 33 gen., 634 sp.
   Agistemus Summers, 1960 – 85 sp.
   Caligohomus Habeeb, 1966 – 2 sp.
   Cheylostigmaeus Willmann, 1951 – 34 sp.
   Eryngiopus Summers, 1964 – 32 sp.
   Eryngiopusopsis Tseng, 1982 – 1 sp.
   Faradjimaeus Ueckermann, 2008 – 1 sp.
   Gymnostigmaeus Ehara et Ueckermann, 2006 – 1 sp.
   Indostigmaeus Gupta et Ghosh, 1980 – 2 sp.
   Ledermuelleriopsis Willmann, 1953 – 35 sp.
   Macrostigmaeus Berlese, 1910 – 1 sp.
   Makilingeria Rimando et Corpuz-Raros, 1996 – 2 sp.
   Mediolata Canestrini, 1889 – 30 sp.
   Mediostigmaeus Fan et Walter, 2005 – 2 sp.
   Mendanaia Wood, 1971 – 1 sp.
   Mullederia Wood, 1964 – 6 sp.
   Mullederiopsis Rimando et Corpuz-Raros, 1996 – 2 sp.
   Neilstigmaeus Gerson et Meyer, 1995 – 1 sp.
   Nonocaligus Habeeb, 1966 – 2 sp.
   Parastigmaeus Kuznetsov, 1978 – 2 sp.
Postumius Kuznetsov, 1977 – 2 sp.
Primagistemus Fan et Zhang, 2002 – 2 sp.
Prostigmaeus Kuznetsov, 1984 – 6 sp.
Scutastigmaeus Fan et Zhang, 2005 – 3 sp.
Stigmaeus C.L. Koch, 1836 – 148 sp.
Storchiia Oudemans, 1923 – 11 sp.
Summersiella González-Rodríguez, 1967: 2 sp.
Villersia Oudemans, 1927 – 2 sp.
Villersiella Willmann, 1953 – 1 sp.
Zetzelia Oudemans, 1927 – 34 sp.
Zetzelliopsis Willmann, 1956 – 1 sp.

Catalogue of Stigmaeidae

Fam. Stigmaeidae Oudemans
Stigmaeidae Oudemans, 1931: 252
Type genus: Stigmaeus C.L. Koch, 1836

Genus Agistemus Summers
Agistemus Summers, 1960: 234
Type species: Caligonus terminalis Quayle, 1912

Agistemus africanus (Meyer et Ryke)
Mediolata africana Meyer & Ryke, 1960: 220
Type locality: Stellenbosch (S. Africa)
Distribution: Angola, Malawi, South Africa, Zimbabwe; Madeira

Agistemus aimogastaensis Leiva, Fernandez, Theron et Rollard
Agistemus aimogastaensis Leiva, Fernandez, Theron & Rollard, 2013: 65; Fan et al., 2016: 29; Rehman, Kamran & Alatawi, 2018:
Type locality: Aimogasta, Prov. de La Rioja
Distribution: Argentina, Saudi Arabia
**Agistemus albae** Roy, Gupta et Saha
*Agistemus albae* Roy, Gupta & Saha, 2009: 176; Fan et al., 2016: 29
Type locality: West Bengal
Distribution: India

**Agistemus amazonicus** Paktinat-Saeij, Bagheri et Noronha
*Agistemus amazonicus* Paktinat-Saeij, Bagheri & Noronha, 2016: 814; Fan et al., 2016: 29
Type locality: Embrata Amazônia Oriental, Belém City, state of Para
Distribution: Brazil

**Agistemus ampliatus** Fan, Chen et Lin
*Agistemus ampliatus* Fan, Chen & Lin, 1997: 144; Fan & Chen, 2010: 127; Fan et al., 2016: 29
Type locality: Fuzhou, Fujian, Host *Ligustrum lucidum* (Oleaceae)
Distribution: China

**Agistemus aramatai** Gupta
Type locality: Garu; Arunachal-Pradesh
Distribution: India

**Agistemus arcypaurus** González-Rodríguez
*Agistemus arcypaurus* González-Rodríguez, 1965: 35; Estrada-Venegas et al., 2002; Paktinat-Saeij et al., 2016: 818; Fan et al., 2016: 30
Type locality: Carpinteria, Sta Barbara Co, California
Distribution: Mexico, USA

**Agistemus bakeri** González-Rodríguez
Type locality: Kysenyi (Congo)
Distribution: Brazil, DR Congo (Zaire), Iran

**Agistemus brasiliensis** Matioli, Ueckermann et de-Oliveira
*Agistemus brasiliensis* Matioli, Ueckermann & de-Oliveira, 2002: 13; Johann et al., 2013: 240; Fan et al., 2016: 30
Type locality: Sao Paulo
Distribution: Brazil
**Agistemus brideliae** González-Rodríguez
Type locality: “Leopoldville” (Kinshassa)
Distribution: DR Congo (Zaire)

**Agistemus buntex** Chaudhri et Akbar
*Agistemus buntex* Chaudhri & Akbar, 1985: 262; Rehman et al., 2016: 1275; Fan et al., 2016: 30
Type locality: Pakistan, Faisalabad (Punjab)
Distribution: Pakistan

**Agistemus caissara** de-Arruda-Filho et Moraes
*Agistemus caissara* de-Arruda-Filho & Moraes, 2003: 51; Fan et al., 2016: 31
Type locality: State of São Paulo
Distribution: Brazil

**Agistemus camerounensis** Bolland et Ueckermann
Type locality: Bamenda (Cameroon)
Distribution: Cabo Verde, Cameroon, South Africa

**Agistemus citrinus** Ehara
Type locality: Itoman, Okinawa
Distribution: China, Japan, Thailand

**Agistemus clavatus** González-Rodríguez
Type locality: Mt Hoyo (DR Congo)
Distribution: Brazil, DR Congo (Zaire)

**Agistemus collyerae** González-Rodríguez
*Agistemus collyerae* González-Rodríguez, 1963: 349; Ueckermann, van Harten & Smith Meyer, 2006: 264; Fan & Zhang, 2005: 41; Rahmani et al., 2010; Shirinbeik-Mohajer
et al., 2012; Beyzavi et al., 2013: 397; Saccaggi & Ueckermann, 2018: 116; Doğan, 2019: 134

*Zetzellia collyerae* Wood, 1967: 131
Type locality: New Zealand, Little Huia, near Auckland
Distribution: Australia, Iran, Italy, New Zealand, Portugal, South Africa, Turkey, Yemen

**Agistemus congolensis** González-Rodríguez
Type locality: “Stanleyville” (Kisangani) (DR Congo)
Distribution: China (Taiwan), DR Congo (Zaire), Hawaii

**Agistemus cyclobalanopsis** Hu et Chen
*Agistemus cyclobalanopsis* Hu & Chen, 1994: 43; Fan & Chen, 2010: 127; Fan et al., 2016: 32
Type locality: Jiangxi, host *Cyclobalanopsis glauca* (plant)
Distribution: China

**Agistemus cyprius** González-Rodríguez
*Agistemus cyprius* González-Rodríguez, 1965: 39; García-Mari et al., 1986; Fan et al., 2016: 32
Type locality: Fassouri (Cyprus)
Distribution: Cyprus, Egypt, Israel, Spain, USA

**Agistemus denotatus** González-Rodríguez
*Agistemus denotatus* González-Rodríguez, 1965: 31; Fan et al., 2016: 32
Type locality: Coral Gables, Florida
Distribution: USA

**Agistemus divisus** González-Rodríguez
*Agistemus divisus* González-Rodríguez, 1965: 32; Fan & Chen, 2010: 127; Fan et al., 2016: 33
Type locality: China, intercepted at Seattle
Distribution: China, intercepted at Seattle

**Agistemus duzgunesae** Koç
Type locality: Bursa, Izmir (Turkey)
Distribution: Greece, Syria, Turkey
**Agistemus ecuadoriensis** González-Rodríguez
*Agistemus ecuadoriensis* González-Rodríguez, 1965: 31; Paktinat-Saeij et al., 2016: 818; Fan et al., 2016: 33
Type locality: Tumbaco
Distribution: Ecuador

**Agistemus edulis** Gupta
Type locality: Arunachal-Pradesh
Distribution: India

**Agistemus exsertus** González-Rodríguez
*Zetzellia exserta* (Gonz.-Rodr.): Tseng, 1982b: 15
*Agistmus lichuanensis* Hu & Chen, 1994: 43 – China; syn. by Fan ey al., 1997: 141
Type locality: Kurume, Japan
Distribution: Algeria, Canada, China, Taiwan, Egypt, India, Israel, Japan, Pakistan, Saudi Arabia, Serbia, Syria

**Agistemus fanari** Dosse
*Agistemus fanari* Dosse, 1967: 37; Fan et al., 2016: 35
Type locality: “Hundsfluss”
Distribution: Lebanon

**Agistemus fani** (nom. nov., replacing *A. lobata* Roy, Gupta et Saha, 2006: 312, praeocc. from *Agistemus lobatus* Ehara, 1964, see Fan et al., 2016: 40)
Type locality: Narendrapur, Kolkata
Distribution: India

**Agistemus fleschneri** Summers
*Agistemus fleschneri* Summers, 1960: 237; Smith-Meyer & Ueckermann, 1989: 47; Matioli, Ueckermann & Oliveira, 2002: 8; Rehman, Kamran & Alatawi, 2018
*Zetzellia fleschneri* (Summers): Tseng, 1982: 20
Type locality: Virginia
Distribution: Canada, Chile, China, Costa Rica, Egypt, El Salvador, Guatemala, Honduras, India, Japan, Korea, Mexico, Peru, Saudi Arabia, Serbia, South Africa, Taiwan, USA
**Agistemus floridanus** González-Rodríguez
*Agistemus floridanus* González-Rodríguez, 1965: 42; Muma & Selhine, 1971: 249; Matioli, Ueckermann & de Oliveira 2002: 11; de Arruda Filho & Moraes 2003: 52; Johann et al., 2013: 240; Fan et al., 2016: 36; Torre Santana & Montalvo, 2016
Type locality: Orlando, Florida
Distribution: Brazil, Chile, Costa Rica, Cuba, Guadeloupe, Guatemala, Mexico, Peru, Serbia, USA

**Agistemus gamblei** Gupta
*Agistemus gamblei* Gupta, 1991: 218; 2002: 102; Fan et al., 2016: 36
Type locality: Digaru; Arunachal-Pradesh
Distribution: India

**Agistemus garrulus** Chaudhri, Akbar et Rasool
*Agistemus layyahensis* Khan, 2016: 1; Type locality: Punjab, Pakistan (syn. Rahman et al., 2018: 1066)
*Agistemus rafiqi* Khan, Afzal & Kamran, 2005: 55; Rehman et al., 2016: 1275 (as *rafiqii*); Fan et al., 2016: 44 (Type loc. Katas, 30 km SE of Chakwal, Pakistan), syn. by Rehman et al. 2018
*Agistemus rawalpindiensis* Khan, Bashir, Farooq & Khan, 2010: 25; Rehman et al., 2016: 1275; Fan et al., 2016: 44 (Type loc. Rawalpindi)
Type locality: U.A.L. Campus, Lyallpur, from *Morus alba*
Distribution: Pakistan

**Agistemus giganteus** Ehara et Wongsiri
*Agistemus giganteus* Ehara & Wongsiri, 1984: 114; Fan et al., 1997; Matioli, Ueckermann & Oliveira, 2002: 12; Fan & Chen, 2010: 127; Fan et al., 2016: 37
Type locality: Ban Kad, nr. Chiang Mai
Distribution: China, Thailand

**Agistemus gratus** Kuznetsov et Wainstein
*Agistemus gratus* Kuznetsov & Wainstein, 1976: 477; Khaustov & Kuznetsov, 1997: 82; Fan et al., 2016: 37
Type locality: Almaty, Kargalinka (Kazakhstan)
Distribution: Kazakhstan, Russia, Ukraine

**Agistemus herbarius** Kuznetsov et Wainstein
*Agistemus herbarius* Kuznetsov & Wainstein, 1976: 479; Wainstein & Kuznetsov, 1978: 151; Sizova et al., 1980; Fan et al., 2016: 37
Type locality: Panfilov [now Jarkent], Kazakhstan
Distribution: Kazakhstan, Uzbekistan

*Agistemus heterophylla* Gupta
*Agistemus heterophylla* Gupta, 1991: 211; 2002: 104; Fan et al., 2016: 37
Type locality: Loiland; Arunachal-Pradesh
Distribution: India

*Agistemus huangshanensis* Hu et Hu
*Agistemus huangshanensis* Hu & Hu, 1998: 30; Fan et al., 2000: 50; Fan et al., 2016: 38
Type locality: Huangshan City, Tunxi District, Anhui
Distribution: China

*Agistemus hystricis* Gupta
Type locality: Moreh; Manipur
Distribution: India

*Agistemus iburiensis* Ehara
*Agistemus iburiensis* Ehara, 1985: 60; Negm et al., 2015: 965; Fan et al., 2016: 38
Type locality: Takaoka, Tomakomai, Hokkaido
Distribution: Japan

*Agistemus ikusimai* (Shiba)
*Zetzellia ikusimai* Shiba, 1978: 163
*Agistemus ikusimai* (Shiba): Ehara, 1993: 79; Spongoski, 2008: 67; Fan et al., 2016: 38
Type locality: Pasoh Forest Reserve, Malaya
Distribution: Malaysia

*Agistemus impavidus* Chaudhri, Akbar et Rasool
*Agistemus impavidus* Chaudhri Akbar & Rasool, 1974: 194; Khan et al., 2010b: 27; Matioli, Ueckermann & Oliveira, 2002: 12; Rahman et al., 2016: 1275; Fan et al., 2016: 38
Type locality: U.A.L. Campus, Lyallpur
Distribution: Pakistan

*Agistemus industani* González-Rodriguez
Type locality: Coimbatore (India)
Distribution: India, Iran, Israel, Egypt, USA

**Agistemus infissus** Flechtmann, Kreiter, Etienne et Moraes

*Agistemus infissus* Flechtmann, Kreiter, Etienne & Moraes, 2000: 401; Fan et al., 2016: 39; Fan et al., 2016: 39

Type locality: Parasite of *Piscidia carthagenensis* (plant)
Distribution: Leeward-Islands (Guadeloupe)

**Agistemus inflatus** Meyer


Type locality: Lake St. Lucia, Natal
Distribution: India, South Africa

**Agistemus javanicum** Gupta


Type locality: Ukhrul; Manipur
Distribution: India

**Agistemus jawadi** Rehman, Kamran et Alatawi

*Agistemus jawadi* Rehman, Kamran & Alatawi, 2018: 1051; Fan et al., 2019: 89

Type locality: Al-Hada Road, Taif
Distribution: Saudi Arabia

**Agistemus juniperus** Hu et Chen

*Agistemus juniperus* Hu & Chen, 1994: 42; Fan et al., 1997; Fan & Chen, 2010: 127; Fan et al., 2016: 39

Type locality: host *Juniperus* (plant), Jiangxi, Loushan Mt.
Distribution: China

**Agistemus lakoocha** Gupta

*Agistemus lakoocha* Gupta, 1991: 211; 2002: 106; Fan et al., 2016: 39

Type locality: Tezu; Arunachal-Pradesh
Distribution: India

**Agistemus litchii** (Tseng)

*Zetzellia litchii* Tseng, 1982: 9

*Agistemus litchii* (Tseng): Fan & Chen, 2010: 127; Fan et al., 2016: 40

Type locality: Chungshinlin, Nantou Hsien
Distribution: Taiwan
**Agistemus lobatus** Ehara
*Agistemus lobatus* Ehara, 1964: 230; Fan et al., 2016: 39
Type locality: Kuroishi (Japan)
Distribution: Japan, Korea

**Agistemus longanae** (Tseng)
*Zetzellia longanae* Tseng, 1982: 16
*Agistemus longanae* (Tseng): Fan & Chen, 2010: 127; Fan et al., 2016: 40
Type locality: Chungshinlin, Nantou Hsien
Distribution: Taiwan

**Agistemus longisetus** González-Rodríguez
*Agistemus longisetus* González-Rodríguez, 1963: 364; Fan & Zhang, 2005: 42; Fan & Chen, 2010: 127; Fan et al., 2016: 40
Type locality: Pelarco, Talca, Chile
Distribution: Australia, Chile, El Salvador, Honduras, Mexico, New Zealand, Peru, Portugal, Reunion, Serbia, Taiwan

**Agistemus macrommatus** González-Rodríguez
*Agistemus macrommatus* González-Rodríguez, 1965: 38; Khanjani & Ueckermann, 2002; Matioli, Ueckermann & Oliveira, 2002: 12; Fan & Chen, 2010: 127; Beyzavi et al., 2013: 398; Fan et al., 2016: 41
*Zetzellia macrommata*: Tseng, 1982b: 10
Type locality: Coimbatore (India)
Distribution: India, Iran, Taiwan

**Agistemus macrosetosus** Stathakis et Kapaxidi
*Agistemus macrosetosus* Stathakis & Kapaxidi, 2014: 162; Fan et al., 2016: 41
Type locality: at Kaiafas Lake, Co. Elia, on *Rubus* sp. (Rosaceae)
Distribution: Greece

**Agistemus malayensis** Ehara
*Agistemus malayensis* Ehara, 1993: 79; Fan et al., 2016: 41
Type locality: Depong, on *Macaranga tanaria* (plant)
Distribution: Malaysia

**Agistemus manjilicus** Khanjani, Hajizadeh et Zarei
*Agistemus manjilicus* Khanjani, Hajizadeh & Zarei, in Khanjani et al., 2015b: 2; Fan et al., 2016: 41
Type locality: Manjil, Guilan province
Distribution: Iran

**Agistemus mectrichus** Fan et Zhang

*Agistemus mectrichus* Fan & Zhang, 2005: 44; Fan et al., 2016: 41  
Type locality: Whangarei  
Distribution: New Zealand

**Agistemus mendozensis** Rossi de Simons

*Agistemus mendozensis* Rosi de Simons, 1967: 56; Johann et al., 2013: 245; Paktinat-Saeij et al., 2016b: 818; Fan et al., 2016: 41  
Type locality: La Consulta, Mendoza  
Distribution: Argentina, Brazil

**Agistemus mirabilis** Chaudhri, Akbar et Rasool

*Agistemus mirabilis* Chaudhri, Akbar & Rasool, 1974: 197; Khan et al., 2010: 27; Rehman et al., 2016: 1275; Fan et al., 2016: 41  
Type locality: U.A.L. Campus, Lyallpur  
Distribution: Pakistan

**Agistemus miyiensis** Fan, Chen et Lin

*Agistemus miyiensis* Fan, Chen & Lin, 1997: 143; Fan & Chen, 2010: 127  
Type locality: Miyi County, Sichuan  
Distribution: China

**Agistemus nagrii** Akbar, Aheer et Ishtiaq

*Agistemus nagrii* Akbar, Aheer & Ishtiaq, 1993: 296; Rehman et al., 2016: 1275 (nagri); Fan et al., 2016: 41  
Type locality: Rasoolnagar  
Distribution: Pakistan

**Agistemus novazelandicus** González-Rodríguez

*Agistemus novazelandicus* González-Rodríguez, 1963: 344; Fan & Zhang, 2005: 45; Fan & Chen, 2010: 127; Fan et al., 2016: 41  
Type locality: Auckland, NZ  
Distribution: China (Taiwan), New Zealand

**Agistemus obscura** Gupta

Type locality: Imphal; Manipur  
Distribution: India
**Agistemus orbicularis** Ehara et Oomen-Kalsbeek  
*Agistemus orbicularis* Ehara & Oomen-Kalsbeek, 1983: 22; Fan et al., 2016: 43  
Type locality: Cigaru, Java  
Distribution: Indonesia

**Agistemus pallinii** Matioli, Tavares et Pallini  
*Agistemus pallinii* Matioli, Tavares & Pallini, 2007: 245; Fan et al., 2016: 43  
Type locality: Viçosa, Minas Gerais  
Distribution: Brazil

**Agistemus palmae** de-Arruda-Filho et Moraes  
*Agistemus palmae* de-Arruda-Filho & Moraes, 2003: 50; Fan et al., 2016: 43  
Type locality: São Pedro, State of São Paulo  
Distribution: Brazil

**Agistemus paraguariensis** Johann, Carvalho, Rocha et Ferla  
*Agistemus paraguariensis* Johann, Carvalho, Rocha & Ferla, 2013: 1; Fan et al., 2016: 43  
Type locality: Rio Grande do Sul  
Distribution: Brazil

**Agistemus pieteri** Ehara et Oomen-Kalsbeek  
*Agistemus pieteri* Ehara & Oomen-Kalsbeek, 1983: 25; Fan et al., 2016: 43  
Type locality: Gambung  
Distribution: Indonesia

**Agistemus pinus** Hu et Chen  
*Agistemus pinus* Hu & Chen, in Hu, Chen & Huang 1997: 1; Fan et al., 2016: 44  
Type locality: Lichuan; Jiangxi  
Distribution: China

**Agistemus prinia** Gupta et Paul  
*Agistemus prinia* Gupta & Paul, 1985: 13; Fan et al., 2016: 44  
Type locality: Midnapur, Patharkumkumi, West Bengal  
Distribution: India

**Agistemus riograndensis** Johann et Ferla  
*Agistemus riograndensis* Johann & Ferla, 2013: 247; Reichert et al., 2014: 130; Fan et al., 2016: 44  
Type locality: Candiota, Rio Grande do Sul  
Distribution: Brazil
Agistemus rodriguezi Paktinat-Saeij et Cruz
*Agistemus rodriguezi* Paktinat-Saeij & Cruz, in Paktinat-Saeij, Barroso & Pires da Cruz, 2017: 373; Fan et al., 2019: 89
Type locality: Pio Preto da Eva, state of Amazonas
Distribution: Brazil

Agistemus sanctiluciae Meyer
Type locality: Lake St. Lucia, Natal
Distribution: Cameroon, South Africa

Agistemus siamensis Ehara et Wongsiri
*Agistemus siamensis* Ehara & Wongsiri, 1984: 116; Fan & Chen, 2010: 127; Fan et al., 2016: 45
Type locality: Doi Chiang Dao
Distribution: China, Thailand

Agistemus simplex González-Rodríguez
*Agistemus simplex* González-Rodríguez, 1965: 33; Roy et al., 2010: 178; Fan et al., 2016: 45
Type locality: Cuernavaca (Mexico)
Distribution: India, Mexico

Agistemus spinosus (Tseng)
*Zetzellia spinosa* Tseng, 1982: 12
*Agistemus spinosus* (Tseng): Fan & Chen, 2010: 127; Fan et al., 2016: 45
Type locality: Wusha, Nantou Hsien
Distribution: Taiwan

Agistemus striolatus González-Rodríguez
*Agistemus striolatus* González-Rodríguez, 1965: 32; Fan et al., 2016: 45
Type locality: Gainesville, Florida
Distribution: El Salvador, Guatemala, Mexico, Nicaragua, USA

Agistemus subreticulatus (Wood)
*Zetzellia subreticulata* Wood, 1967: 129
Type locality: Pelorus, Nelson
Distribution: New Zealand
**Agistemus sumatrensis** Ehara et Oomen-Kalsbeek
*Agistemus sumatrensis* Ehara & Oomen-Kalsbeek, 1983: 24; Fan et al., 2016: 45
Type locality: Sumatra
Distribution: Indonesia

**Agistemus summersi** Ehara
Type locality: Sapporo, Hokkaido
Distribution: China, Japan

**Agistemus takagii** Ehara
*Agistemus takagii* Ehara, 1993: 81; Fan et al., 2016: 46
Type locality: Kepong, Selangor, host *Bambusa vulgaris* (plant)
Distribution: Malaysia

**Agistemus tarsilobus** Flechtmann
*Agistemus tarsilobus* Flechtmann, 1995: 245; Johann et al., 2013b: 584; Fan et al., 2016: 46
Type locality: Parque Nac. do Itatiaia, Rio de Janeiro
Distribution: Brazil

**Agistemus terminalis** (Quayle)
*Caligonus terminalis* Quayle, 1912: 499
*Zetzellia terminalis* (Quayle): Tseng, 1982b: 6
Type locality: Santa Paula, California, USA
Distribution: Chile, China, Guatemala, Japan, Hawaii, India, Indonesia, Korea, Mexico, Peru, Portugal, Taiwan, Thailand, Turkey, USA, Hawaii

**Agistemus thaianus** Ehara et Wongsiri
*Agistemus thaianus* Ehara & Wongsiri, 1984: 112
Type locality: Fang, on *Ficus* sp.
Distribution: Thailand

**Agistemus tranatalensis** Meyer
Type locality: Mkuze Game Reserve, Natal
Distribution: Angola, Malawi, South Africa, Zimbabwe

**Agistemus tucumanensis** González-Rodríguez
*Agistemus tucumanensis* González-Rodríguez, 1965: 37; Tseng, 1982b; Cuervo et al., 1994; Fan & Chen, 2010: 128; Fan et al., 2016: 47; Torre Santana & Montalvo, 2016
Type locality: Tucumán (Argentina)
Distribution: Argentina, China (incl. Taiwan), Cuba

**Agistemus unguiparvus** González-Rodríguez
*Zetzellia unguiparva* (Gonz.-Rodr.): Wood, 1967
Type locality: “Lourenco Marques” (Maputu)
Distribution: India, Mozambique

**Agistemus vulgaris** Soliman et Gomaa
*Agistemus vulgaris* Soliman & Gomaa, in Zaher, 1986: 344; Al-Atawy, 2011a, b: 245; Fan et al., 2016: 48
Type locality: Beni Suef, Upper Egypt
Distribution: Egypt, Saudi Arabia

**Agistemus yunusi** Chaudhri, Akbar et Rasool
*Agistemus yunusi* Chaudhri, Akbar & Rasool, 1974: 200; Rehman et al., 2016: 1275 (as *yunusii*); Fan et al., 2016: 48
Type locality: U.A.L. Campus, Lyallpur
Distribution: Pakistan

Genus **Caligohomus** Habeeb
*Caligohomus* Habeeb, 1966: 1
Type species: *Homocaligus aquaticus* Habeeb, 1961

**Caligohomus aquaticus** (Habeeb)
*Homocaligus aquaticus* Habeeb, 1961: 2
*Caligohomus aquaticus* (Habeeb): Habeeb, 1966: 1; Qing-Hai Fan & Zhang, 2004: 8; Fan et al., 2016: 48
Type locality: New York
Distribution: USA

**Caligohomus durus** Fan et Walter
*Caligohomus durus* Fan & Walter, 2004: 82; Fan et al., 2016: 48
Type locality: Tosohatchie State Reserve, Orlando, Florida
Distribution: USA

Genus *Cheylostigmaeus* Willmann
*Cheylostigmaeus* Willmann, 1951: 136
Type species: *Cheylostigmaeus grandiceps* Willmann, 1951

*Cheylostigmaeus angustimaxillatus* Willmann
*Cheylostigmaeus angustimaxillatus* Willmann, 1953: 486; Fan et al., 2016: 49
Type locality: Pinzgau
Distribution: Austria

*Cheylostigmaeus aphatos* Chaudhri, Akbar et Rasool
*Cheylostigmaeus aphatos* Chaudhri, Akbar & Rasool, 1979: 216; Rehman et al., 2016: 1276; Fan et al., 2016: 49
Type locality: Gatwala Forests
Distribution: Pakistan

*Cheylostigmaeus austriacus* Willmann
Type locality: Ebreichsdorf (Austria)
Distribution: Austria, Switzerland

*Cheylostigmaeus californicus* Summers et Ehara
Type locality: Post Pile Camp, Tehama Co., California
Distribution: Saudi Arabia, Turkey, USA

*Cheylostigmaeus farius* Chaudhri, Akbar et Rasool
*Cheylostigmaeus farius* Chaudhri, Akbar & Rasool 1979: 214; Akbar & Aheer, 1994; Rehman et al., 2016: 1276; Fan et al., 2016: 50
Type locality: Chakwal
Distribution: Pakistan

*Cheylostigmaeus ferdowsei* Khanjani, Raisii, Izadi et Ueckermann
*Cheylostigmaeus ferdowsei* Khanjani, Raisii, Izadi & Ueckermann, 2010: 8; Beyzavi et al., 2013: 398; Fan et al., 2016: 50
Type locality: South Khorasan
Distribution: Iran

*Cheylostigmaeus gharakhanii* Navaei – Bonab et Bagheri

*Cheylostigmaeus gharakhanii* Navaei – Bonab & Bagheri, 2011: 282; Beyzavi et al., 2013: 398; Navaei-Bonab et al., 2015: 384; Rahmati et al., 2015: 414; Fan et al., 2016: 50

Type locality: Marand, East Azerbaijan

Distribution: Iran

*Cheylostigmaeus grandiceps* Willmann


Type locality: Zurndorf (Austria)

Distribution: Austria, Switzerland

*Cheylostigmaeus guilaniensis* Hajizadeh, Khanjani, Faraji et Ueckermann

*Cheylostigmaeus guilaniensis* Hajizadeh, Khanjani, Faraji & Ueckermann, 2013: 573; Fan et al., 2016: 50

Type locality: Guilan, Langarud

Distribution: Iran

*Cheylostigmaeus hassanpouri* Bagheri, Navaei-Bonab, Ueckermann et Ghorbani

*Cheylostigmaeus hassanpouri* Bagheri, Navaei-Bonab, Ueckermann et Ghorbani 2011: 350; Beyzavi et al., 2013: 398; Navaei-Bonab et al., 2015: 384; Fan et al., 2016: 50

Type locality: Marand, East Azarbaijan

Distribution: Iran

*Cheylostigmaeus howellsi* Evans

*Cheylostigmaeus howellsi* Evans, 1954: 804; Wood, 1974: 63; Kazmierski, 2000; Doğan et al., 2014: 5; Fan et al., 2016: 50

Type locality: Carmarthenshire, South Wales

Distribution: Wales, Poland

*Cheylostigmaeus immitis* Chaudhri, Akbar et Rasool

*Cheylostigmaeus immitis* Chaudhri, Akbar & Rasool, 1979: 216; Rehman et al., 2016: 1276 (as *imitis*); Fan et al., 2016: 51

Type locality: Chakwal

Distribution: Pakistan

*Cheylostigmaeus iranensis* Khanjani et Ueckermann

*Cheylostigmaeus iranensis* Khanjani & Ueckermann, 2002: 333; Navaei-Bonab et al., 2012; Beyzavi et al., 2013: 398; Navaei-Bonab et al., 2015: 384; Fan et al., 2016: 51
Type locality: Hamedan  
Distribution: Iran

**Cheylostigmaeus kazahstanicus** Kuznetsov  
*Cheylostigmaeus kazahstanicus* Kuznetsov, 1984: 1263; Fan et al., 2016: 51  
Type locality: Uspenovka Village, Dzhambulskaya Obl.  
Distribution: Kazakhstan

**Cheylostigmaeus longisetosus** Willmann  
*Cheylostigmaeus longisetosus* Willmann, 1951: 139; Wood, 1974: 63; Fan et al., 2016: 51  
Type locality: Zurndorf (Austria)  
Distribution: Austria, UK

**Cheylostigmaeus luxtoni** Wood  
Type locality: Whangapeka R. at confluence with Rolling River  
Distribution: New Zealand

**Cheylostigmaeus mahvashae** Khanjani, Firoozfar et Mirmoayedi  
*Cheylostigmaeus mahvashae* Khanjani, Firoozfar & Mirmoayedi, 2013: 346; Khanjani et al., 2014d: 375; Fan et al., 2016: 51  
Type locality: Rijab valley, Sarpolzahab, Kermanshah Province  
Distribution: Iran

**Cheylostigmaeus marinus** Willmann  
*Cheylostigmaeus marinus* Willmann, 1957: 183; Wood, 1974: 63; Fan et al., 2016: 51  
Type locality: Fechmarn I., Anwurf  
Distribution: Germany

**Cheylostigmaeus midnapurensis** Gupta et Paul  
*Cheylostigmaeus midnapurensis* Gupta & Paul, 1985: 11; Fan et al., 2016: 52  
Type locality: Pathakumkumi, Midnapur, West Bengal  
Distribution: India

**Cheylostigmaeus mirabilis** Wood  
*Cheylostigmaeus mirabilis* Wood, 1971: 80; 1974: 64; Fan et al., 2016: 52  
Type locality: Guadalcanal, San Cristobal, Santa Isabel, Kolombonagara  
Distribution: Solomon Islands
**Cheylostigmaeus multidentatus** Summers et Ebara
*Cheylostigmaeus multidentatus* Summers & Ebara, 1965: 54; Wood, 1974: 63; Fan et al., 2016: 52
Type locality: Jardin Botanico, Viña del Mar
Distribution: Chile

**Cheylostigmaeus oudemansi** (Meyer et Ryke)
*Villersia oudemansi* Meyer & Ryke, 1960: 219
Type locality: Potchefstroom
Distribution: South Africa

**Cheylostigmaeus pannonicus** Willmann
Type locality: S of Moosmühle nr. Moosbrunn
Distribution: Austria, China, Germany, Slovakia, Switzerland, Ukraine, USA

**Cheylostigmaeus powersi** (Habeeb)
*Eustigmaeus powersi* Habeeb, 1961: 1
*Cheylostigmaeus powersi* (Habeeb): Qing-Hai Fan & Zhang, 2004: 1; Fan et al., 2016: 52
Type locality: New York
Distribution: USA

**Cheylostigmaeus proximus** Kuznetsov
*Cheylostigmaeus proximus* Kuznetsov, 1984: 1261; Fan et al., 2016: 53
Type locality: Sovhox Gratieshti
Distribution: Crimea

**Cheylostigmaeus salinus** Evans
*Cheylostigmaeus salinus* Evans, 1954: 803; Dönel & Doğan, 2011: 8; Doğan et al., 2015c: 806; Fan et al., 2016: 53; Doğan, 2019: 134
Type locality: Carmatyjenshire, South Wales
Distribution: UK (Wales), Turkey

**Cheylostigmaeus salmani** Koç
*Cheylostigmaeus salmani* Koç, 2005: 483; Doğan, 2007: 13; 2019: 134; Erman et al., 2007; Doğan et al., 2015c: 806; Fan et al., 2016: 53
Type locality: Izmir
Distribution: Turkey

Cheylostigmæus scutatus (Halbert)
Raphignathus scutatus Halbert, 1920: 142
Podaiva scutatus: Oudemans, 1923: 155
Cheylostigmæus scutatus (Halbert): Willmann, 1952: 161; Wood, 1974: 64;
Type locality: Malahide I., Ireland
Distribution: Austria, Ireland, Switzerland, UK

Cheylostigmæus sepasgosariani Bagheri, Jafari et Saboori
Cheylostigmæus sepasgosariani Bagheri, Jafari & Saboori, 2014: 154; Khanjani et al., 2014d: 375; Fan et al., 2016: 53
Type locality: Isfahan
Distribution: Iran

Cheylostigmæus taiwanicus Tseng
Cheylostigmæus taiwanicus Tseng, 1989: 2; Fan & Chen, 2010: 128; Fan et al., 2016: 53
Type locality: Huatang, Zhangua, Taiwan
Distribution: Taiwan

Cheylostigmæus tarae Khanjani, Nasrollah, Zamani et Azalifeyaz
Cheylostigmæus tarae Khanjani, Nasrollah, Zamani & Azalifeyaz, 2014: 365; Fan et al., 2016: 54; Doğan, 2019: 134
Type locality: Kurdistan, Yaghob Abad village, Baneh vicinity
Distribution: Iran, Turkey

Cheylostigmæus torulus Summers
Cheylostigmæus torulus Summers, 1957: 166; Summers & Ehara, 1965: 58; Wood, 1974: 63; Al-Atawy, 2011a: 246; Fan et al., 2016: 54
Type locality: Point Barrow, Alaska
Distribution: Saudi Arabia, USA

Cheylostigmæus urhani Dönel et Doğan
Cheylostigmæus urhani Dönel & Doğan, 2011: 4; Doğan et al., 2015c: 806; Fan et al., 2016: 54; Doğan, 2019: 134
Type locality: Köse Mountain
Distribution: Turkey
**Cheylostigmaeus variatus** Doğan, Dilkaraoğlu et Fan
*Cheylostigmaeus variatus* Doğan, Dilkaraoğlu et Fan, in: Doğan et al., 2015c: 799; Fan et al., 2016: 54; Doğan, 2019: 134
Type locality: Ekşişu Marsh
Distribution: Turkey

**Genus Eryngiopus** Summers
*Eryngiopusopsis* Y. H. Tseng, 1982: 40 [type is elongatus]
Type species: *Eryngiopus gracilis* Summers, 1964

**Eryngiopus affinis** Barilo
*Eryngiopus affinis* Barilo, 1987: 1099; Jafari, Bagheri & Saboori, 2014: 358; Fan et al., 2016: 54
Type locality: Samarkand (Uzbekistan)
Distribution: Iran, Uzbekistan

**Eryngiopus anatolicus** Doğan, Dilkaraoğlu et Fan
*Eryngiopus anatolicus* Doğan, Dilkaraoğlu & Fan, 2015: 433; Akyazi et al., 2016: 203; Fan et al., 2016: 55; Doğan, 2019: 134
Type locality: Gümüşhane, Turkey
Distribution: Turkey

**Eryngiopus arboreus** Wood
Type locality: Rotoroa Lake, Nelson Lakes Nat. Park
Distribution: New Zealand

**Eryngiopus audreae** Maake, Ueckermann et Childers
*Eryngiopus audreae* Maake, Ueckermann & Childers, 2015: 210; Fan et al., 2016: 55
Type locality: Florida
Distribution: USA

**Eryngiopus bakeri** (McGregor)
*Macrostigmaeus bakeri* McGregor, 1959: 223
*Eryngiopus longurius* Summers, 1964: 190
*Eryngiopus bakeri*: Summers, 1966a: 246; Vacante & Gerson, 1988: 399; Fan & Zhang, 2005: 48; Fan et al., 2016: 55
Type locality: Phoenix, Arizona
Distribution: Iran, USA
**Eryngiopus bidens** Meyer


Type locality: Port Elizabeth

Distribution: South Africa

**Eryngiopus bifidus** Wood


Type locality: Dun Mt track

Distribution: Italy, New Zealand, Hawaii

**Eryngiopus cirrus** (Chaudhri, Akbar et Rasool)

*Apostigmaeus cirrus* Chaudhri, Akbar & Rasool, 1979: 206

*Eryngiopus cirrus* (Chaudhri et al.): Fan, 2005; Doğan et al., 2015b: 432; Rehmann et al., 2016: 1275 (as *sirrus*); Fan et al., 2016: 56

Type locality: Attock, Pakistan

Distribution: Pakistan

**Eryngiopus citri** Gupta

*Eryngiopus citri* Gupta, 1990: 281; homonym of *E. citri* Gomaa McCoy, 1984, now *Medi-ostigmaeus citri* (Gomaa et McCoy): Fan & Walter, 2005; Fan et al., 2016: 56

Type locality: India

Distribution: India

**Eryngiopus coheni** Vacante et Gerson

*Eryngiopus coheni* Vacante & Gerson, 2014: 135 to replace


Type locality: Lentini (near Syracuse), Sicily

Distribution: Italy (Sicily), Turkey

**Eryngiopus coimbatorensis** Gupta et David

*Eryngiopus coimbatorensis* Gupta & David, 1990: 281; Gupta, 2002: 112; Fan et al., 2016: 56

Type locality: Tamil Nadu

Distribution: India

**Eryngiopus custodis** Van-Dis et Ueckermann

*Eryngiopus custodis* Van-Dis & Ueckermann, 1993: 121; Fan et al., 2016: 56

Type locality: Kruger Nat. Park, Staff Camp
Distribution: South Africa

**Eryngiopus dicrotrichus** Fan, Zhang et Liu
*Eryngiopus dicrotrichus* Fan, Zhang & Liu, 2000: 52; Fan & Chen, 2010: 128; Fan et al., 2016: 57
Type locality: Yunan, Gongchuan; Fujian
Distribution: China

**Eryngiopus discus** Meyer
Type locality: Soutpan, Transvaal
Distribution: Saudi Arabia, South Africa, Zimbabwe

**Eryngiopus hamedanicus** Khanjani, Mohammadi et Nazari
*Eryngiopus hamedanicus* Khanjani, Mohammadi & Nazari, 2014: 130
Type locality: Hamedan
Distribution: Iran

**Eryngiopus gersoni** Beron (nomen novum)
Type locality: Lentini, Sicilia
Distribution: Italy

**Eryngiopus gracilis** Summers
*Eryngiopus gracilis* Summers, 1964: 188; Vacante & Gerson, 1988: 389; Faraji & Kamali, 1993; Beyzavi et al., 2013: 398; Fan et al., 2016: 57
Type locality: American Canyon, Solaño Co., California
Distribution: Iran, USA

**Eryngiopus hamedanicus** Khanjani, Mohammadi et Nazari
*Eryngiopus hamedanicus* Khanjani, Mohammadi & Nazari, 2014: 131; Fan et al., 2016: 57
Type locality: Hamedan Province, vicinity of Famenin town, Negarkhaton Village
Distribution: Iran

**Eryngiopus harteni** Van Dis et Ueckermann
*Eryngiopus harteni* Van Dis & Ueckermann, 1993: 123; Dehghan-Dolati et al., 2011
Type locality: Hamam Ali, Yemen
Distribution: Iran, Yemen

**Eryngiopus hortus** (Chaudhri, Akbar et Rasool)
*Apostigmaeus hortus* Chaudhri, Akbar & Rasool, 1979: 204
*Eryngiopus hortus* (Chaudhri, Akbar & Rasool): Fan, 2005; Rehman et al., 2016: 1275; Fan et al., 2016: 57
Type locality: Rajanpur, Pakistan
Distribution: Pakistan

**Eryngiopus jiangxiensis** Hu et Chen
Type locality: Jinan, Jiangxi
Distribution: China

**Eryngiopus langroudensis** Khanjani, Hajizadeh et Ueckermann
*Eryngiopus langroudensis* Khanjani, Hajizadeh & Ueckermann, 2014: 172; Fan et al., 2016: 57
Type locality: Langroud, Guilan Prov.
Distribution: Iran

**Eryngiopus lindei** Meyer
Type locality: Citrusdal, W.C.P.
Distribution: South Africa

**Eryngiopus microsetus** Summers
*Eryngiopus microsetus* Summers, 1964: 189; Vacante & Gerson, 1988: 397; Fan et al., 2016: 58
Type locality: Moss Beach, San Mateo Co., California
Distribution: USA

**Eryngiopus moraesii** Paktinat-Saeij et Barroso
*Eryngiopus moraesii* Paktinat-Saeij & Barroso, in Paktinat-Saesj, Barroso & Pires da Cruz, 2017: 376; Fan et al., 2019: 89
Type locality: Caldeirão in Iranduba city, State of Amazonas
Distribution: Brazil
**Eryngiopus nanchangensis** Hu et Chen
Type locality: Jiangxi, host *Euonymus japonicus* (plant)
Distribution: China

**Eryngiopus nelsonensis** Wood
Type locality: Nelson, Boulder Bank
Distribution: New Zealand

**Eryngiopus parsimilis** Ueckermann et Smith-Meyer
Type locality: Cape Province, Cape Point Nature Reserve
Distribution: South Africa

**Eryngiopus placidus** Kuznetsov
_Eryngiopus placidus_ Kuznetsov, 1977a: 956; Wainstein & Kuznetsov, 1978: 168; Vacante & Gerson, 1988: 397; Fan et al., 2016: 58
Type locality: Voronezh
Distribution: Russia

**Eryngiopus rezaiyeiensis** Doustaresharaf, Bagheri et Saber
_Eryngiopus rezaiyeiensis_ Dou斯塔resharaf, Bagheri & Saber, 2019: 260; Fan et al., 2019: 89
Type locality: Urmia, West-Azerbaidjan Province
Distribution: Iran

**Eryngiopus siculus** Vacante et Gerson
_Eryngiopus siculus_ Vacante & Gerson, 1987: 386; Matioli et al., 2002: 113; Akyazi et al., 2016: 200; Fan et al., 2016: 59; Doğan, 2019: 134
Type locality: Donnalucata (near Ragusa), host *Aspidiotus nerii* (Hemiptera)
Distribution: Italy (Sicily); Turkey

**Eryngiopus similis** Wood
Type locality: 1 mile N of Punakaiki, nr Greymouth
Distribution: New Zealand
**Eryngiopus summersi** Gomaa et El-Enany
*Eryngiopus summersi* Gomaa & El-Enany, 1985: 95; Vacante & Gerson, 1988: 399; Fan et al., 2016: 59
Type locality: Assiut, Upper Egypt
Distribution: Egypt

**Eryngiopus tauricus** Kuznetsov
Type locality: Yalta, Crimea
Distribution: Crimea

**Eryngiopus techuelche** Khaustov
*Eryngiopus techuelche* Khaustov, 2016: 673; Fan et al., 2019: 90
Type locality: The Region of Magallanes
Distribution: Chile

**Eryngiopus vagantis** Summers
*Eryngiopus vagantis* Summers, 1964: 189; Vacante & Gerson, 1988: 397; Fan et al., 2016: 59
Type locality: Napa, California
Distribution: USA

**Eryngiopus woodi** Gomaa et El-Enany
*Eryngiopus woodi* Gomaa & El-Enany, 1985: 93; Fan et al., 2016: 59
Type locality: Borg El-Arab, Costeira Region
Distribution: Egypt

**Eryngiopus yasumatsui** Ehara et Wongsiri
*Eryngiopus yasumatsui* Ehara & Wongsiri, 1984: 110; Vacante & Gerson, 1988: 399; Fan et al., 2016: 59
Type locality: San Pa Tong
Distribution: Thailand

**Eryngiopus yemenensis** Van-Dis et Ueckermann
*Eryngiopus yemenensis* Van-Dis & Ueckermann, 1993: 118; Ueckermann, van Harten & Smith Meyer, 2006: 264; Fan et al., 2016: 60
Type locality: Spina-Christi, Hajjan, Yemen
Distribution: Yemen
Genus *Erynglusopsis* Tseng

*Erynglusopsis* Tseng, 1982: 40 (status uncertain, after Fan et al., 2016, syn.? of *Eryngiopus* Summers)

Type species: *Eryngiopusopsis elongatus* Tseng, 1982

*Erynglusopsis elongatus* Tseng

*Erynglusopsis elongatus* Tseng, 1982: 40; Fan & Chen, 2010: 128; Fan et al., 2016: 60

*Eryngiopus elongatus* (Tseng): Fan, 2005; Doğan et al., 2015b: 432

Type locality: Hualien

Distribution: Taiwan

Genus *Eustigmaeus* Berlese

*Stigmaeus* (*Eustigmaeus*) Berlese, 1910: 206 (subgenus)

*Eustigmaeus* Berlese: Oudemans, 1923: 143 (genus)


*Wooderia* Rimando & Corpuz-Raros, 1997: 19 [type is *philippica*]

*Chaudhria* Rimando & Corpuz-Raros, 1997: 22 [type is *parasiticus*]

*Paravillersia* Kuznetsov, 1978: 49 (syn. by Khaustov, 2019) [type is *Paravillersia grata* Kuznetsov, 1978]

Type species: *Stigmaeus kermesinus* C.L.Koch, 1841

*Eustigmaeus absens* Doğan


Type locality: Begendik Village, Olur, Erzurum

Distribution: Turkey

*Eustigmaeus acidophilus* (Wood)


*Eustigmaeus acidophila* (Wood): Smith, 1987: 41; Spongoski, 2008: 81; Paktinat-Saedj et al., 2016a: 578

Type locality: Lac de Seminaire, Quebec

Distribution: Canada

*Eustigmaeus agioriticus* Kapaxidi, Stathakis et Papadoulis

*Eustigmaeus agioriticus* Kapaxidi, Stathakis & Papadoulis, 2013: 403; Fan et al., 2016: 61

Type locality: Agio Oros, Co. Chalkidiki

Distribution: Greece
**Eustigmaeus anauniensis** (Canestrini)
*Raphignathus anauniensis* Canestrini, 1889: 447
*Raphignathus pectinatus* Ewing, 1917: 151

**Eustigmaeus granulosus** Willmann, 1951: 137


**Wooderia pectinata** (Ewing, 1917): Rimando & Corpuz-Raros, 1997: 20

Type locality: Italy [Firenze]
Distribution: Austria, Azerbaidzjan, Canada, China, Crimea, Holland, Hungary, Iran, Israel, Japan, Italy, Latvia, Lithuania, Poland, Russia, Slovakia, Taiwan, Turkey, Ukraine, USA

**Eustigmaeus anophthalmus** Doğan, Dönel et Özcelik

**Eustigmaeus anophthalmus** Doğan, Dönel & Özcelik, 2011: 176; Fan et al., 2016: 62; Doğan, 2019: 134

Type locality: Tortum, Erzurum
Distribution: Turkey

**Eustigmaeus arcticus** (Wood)

**Ledermuelleria arctica** Wood, 1972: 307

**Eustigmaeus arctica** (Wood): Smith, 1987: 41


Type locality: Chertsey, Quebec (Canada)
Distribution: Canada, Greece, Greenland

**Eustigmaeus arcuatus** (Chaudhri)

**Ledermuelleria arcuata** Chaudhri, 1965: 469; 1968: 10; Ehara, 1980: 247; Rimando & Corpuz-Raros, 1997: 16

**Eustigmaeus arcuata** (Chaudhri): Spongoshi, 2008: 82; Maake et al., 2016: 984; Negm et al., 2015: 965; Paktinat-Saej et al., 2016: 578

**Eustigmaeus arcuatus** (Chaudhri): Wood, 1973: 82; Fan et al., 2016: 62

Type locality: 5 mi W Forest Hill, Placer County, California
Distribution: Japan, USA
Eustigmaeus azerbaijanensis Haddad Irani-Nejad, Lotfollahi et Akbari
Eustigmaeus azerbaijanensis Haddad Irani-Nejad, Lotfollahi & Akbari, 2011: 88; Beyzavi et al., 2013: 399; Navaei-Bonab et al., 2015: 383; Fan et al., 2016: 63
Type locality: Shendabad, East Azerbaijan
Distribution: Iran

Eustigmaeus baguioensis Rimando et Corpuz-Raros
Eustigmaeus baguioensis Rimando & Corpuz-Raros, 1997: 4; Fan et al., 2016: 63
Type locality: Baguio City
Distribution: Philippines

Eustigmaeus bali Dogan et Ayyildiz
Eustigmaeus bali Dogan & Ayyildiz, 2003: 2114; Dogan et al., 2003: 132; Faraji et al., 2007: 150; Dogan, 2007: 14; 2019: 134; Fan et al., 2016: 63
Type locality: Kirik, Erzurum
Distribution: Turkey

Eustigmaeus barrioni Rimando et Corpuz-Raros
Eustigmaeus barrioni Rimando & Corpuz-Raros, 1997: 6; Fan et al., 2016: 63
Type locality: Mount Makiling
Distribution: Philippines

Eustigmaeus bochkovi Khaustov
Eustigmaeus bochkovi Khaustov, 2019: 152; Fan et al., 2019: 90
Type locality: Nanayskiy Region, Khabarovskiy Kray
Distribution: Russia (Far East)

Eustigmaeus brevipalpus (Trägårdh)
Raphignathus patrius brevipalpus Trägårdh, 1910: 470
Ledermuelleria patrius (Trägårdh): Schweitzer & Bader, 1963: 256
Eustigmaeus brevipalpus (Trägårdh): Wood, 1973: 82; Fan et al., 2016: 63
Type locality: Sweden
Distribution: Sweden

Eustigmaeus brevirostris (Wood)
Ledermuelleria brevirostris Wood, 1971: 77
Type locality: Mt Austen (Guadalcanal)
Distribution: Solomon Islands (Guadalcanal)
**Eustigmaeus brevis** (Banks)
*Raphignathus brevis* Banks, 1910: 3
**Eustigmaeus brevis** (Banks): Wood, 1973: 82; Spongioski, 2008: 83; Fan et al., 2016: 63
Type locality: Falls Church, Virginia
Distribution: USA

**Eustigmaeus brevisetosus** (Wood)
*Ledermuelleria brevisetosa* Wood, 1966: 100; Chaudhri, 1968: 12
**Eustigmaeus brevisetosus** (Wood): Fan & Zhang, 2005: 54; Fan et al., 2016: 64
Type locality: Wanganui, nr. Maxwell
Distribution: New Zealand

**Eustigmaeus brevivestitus** Kazmierski et Donczyk
**Eustigmaeus brevivestitus** Kazmierski & Donczyk, 2003: 7; Faraji et al., 2007: 150; Doğan et al., 2014: 5; Fan et al., 2016: 64
Type locality: Poland, slope of Vistula River
Distribution: Poland

**Eustigmaeus bryonemus** Flechtmann
**Eustigmaeus bryonemus** Flechtmann, 1985: 387; Fan et al., 2016: 64
Type locality: Campinas, São Paulo
Distribution: Brazil

**Eustigmaeus capellus** (Chaudhri)
*Ledermuelleria capella* Chaudhri, 1965: 477
**Eustigmaeus capella** (Chaudhri): Spongioski, 2008: 83
**Eustigmaeus capellus** (Chaudhri): Wood, 1973: 82; Fan et al., 2016: 64
Type locality: Quezaltepeque
Distribution: El-Salvador

**Eustigmaeus capitatus** Stathakis, Kapaxidi et Papadoulis
**Eustigmaeus capitatus** Stathakis, Kapaxidi & Papadoulis, 2016: 72; Fan et al., 2019: 90
Type locality: Tsagkarada, Co. Magnesia
Distribution: Greece

**Eustigmaeus caspianensis** Bagheri et Paktinat-Saej
**Eustigmaeus caspianensis** Bagheri & Paktinat-Saej, in: Bagheri et al., 2014: 179; Fan et al., 2016: 64
Type locality: Sangrarashan Region, Sari city
Distribution: Iran
**Eustigmaeus changbaiensis** (Bei et Yin)
*Ledermuelleria changbaiensis* Bei & Yin, 1995: 185

Eustigmaeus changbaiensis (Bei et Yin): Cheng & Fan, 2008: 268; Fan & Chen, 2010: 128; Fan et al., 2016: 64

Type locality: Jilin
Distribution: China

**Eustigmaeus chilensis** (Chaudhri)
*Ledermuelleria chilensis* Chaudhri, 1965: 471


Type locality: Jardin Botanico Nacional, Viña del Mar, Chile
Distribution: Chile; records from Turkey (Doğan, 2007), Latvia and Lituania (Kuznetsov & Petrov, 1984) need confirmation (Khaustov, 2016b).

**Eustigmaeus clavatus** (Canestrini et Fanzago)
*Caligonus clavatus* Canestrini & Fanzago, 1876: 8; 1877: 154
*Raphignathus clavatus* (Canestrini et Fanzago): Canestrini, 1889: 508; Berlese, 1885: 2; Lombardini, 1936: 48; Fan et al., 2016: 65
*Raphignathus sphagneti* Hull, 1918: 30
*Ledermuelleria clavata*: Summers & Price, 1961: 376


Type locality: Maser and Padova, Italy
Distribution: Austria, Canada, China, Italy, Poland, Russia, Slovakia, Switzerland, Ukraine, USA (Cal.)

**Eustigmaeus clavigerus** (Wood)


Type locality: Queenstown, Skippers road
Distribution: New Zealand
**Eustigmaeus collarti** (Cooreman)
*Caligonus collarti* Cooreman, 1955: 163
Type locality: Torrent des Roches Noires, Galibier, France (Alps, 2350 m)
Distribution: France, Russia, Turkey

**Eustigmaeus collegiensis** (Wood)
*Ledermuelleria collegiensis* Wood, 1972: 305
*Ledermuelleria pectinata* – Marshall & Kevan, 1964 (misident.)
*Wooderia collegiensis* (Wood): Rimando & Corpuz-Raros, 1997: 20
*Eustigmaeus collegiensis* (Wood): Wood, 1973: 82; Paktinat-Saeij & al., 2016a: 579; Fan et al., 2016: 66
Type locality: Morgan arboretum near Macdonald College (Quebec)
Distribution: Canada

**Eustigmaeus coronarius** (Kuznetsov)
*Ledermuelleria coronaria* Kuznetsov, 1987: 638
*Eustigmaeus coronaria* (Kuznetsov): Spasgosarian, 1985: 448; Khaustov & Tolstikov, 2014: 551; Fan et al., 2016: 66
Type locality: Crimea, Nikitskiy Botanical garden
Distribution: Crimea

**Eustigmaeus corticolus** (Wood)
Type locality: Dun Mt track
Distribution: New Zealand

**Eustigmaeus craticulus** (Summers et Price)
*Ledermuelleria craticula* Summers & Price, 1961: 373
*Eustigmaeus craticula* (Summers et Price): Spongoski, 1985: 85; Maake et al., 2016: 985; Pactinat-Saeij et al., 2016a: 579; Fan et al., 2016: 66
*Wooderia craticula* (Summers et Price): Rimando & Corpuz-Raros, 1997: 19
Type locality: Cajon Pass, San Bernardino, California
Distribution: USA
**Eustigmaeus depuratus** Tseng
*Ledermuelleria depurata* (Tseng): Rimando & Corpuz-Raros, 1997: 16
Type locality: Yuili, Taitung Hsien
Distribution: Taiwan

**Eustigmaeus distinctus** (Wood)
*Eustigmaeus distinctus* (Wood): Fan & Zhang, 2005: 57; Fan et al., 2016: 67
Type locality: Lake Taupo, 10 miles W. of Tokaanu
Distribution: New Zealand

**Eustigmaeus dogani** Khanjani, Azali Fayaz, Mirmoayedi et Ghaedi
Type locality: Sanandaj, Kurdistan Prov., Iran
Distribution: Iran, Turkey

**Eustigmaeus dumosus** (Wood)
*Wooderia dumosa* (Wood): Rimando & Corpuz-Raros, 1997: 19
Type locality: Whangarei, Maungataroto
Distribution: New Zealand

**Eustigmaeus dyemkoumai** (Abonnenc)
*Ledermuelleria dyemkoumai* Abonnenc, 1970: 90
*Eustigmaeus dyemkoumai* (Abonnenc): Lewis & MacFarlane, 1981: 178; Spongoski, 2008: 85; Fan et al., 2016: 68
Type locality: Burkina Faso
Distribution: Burkina Faso, Mali

**Eustigmaeus eburneus** Fan et Zhang
*Eustigmaeus eburneus* Fan & Zhang, 2005: 59; Fan et al., 2016: 68
Type locality: Auckland
Distribution: New Zealand
**Eustigmaeus edentatus** Fan et Zhang
*Eustigmaeus edentatus* Fan & Zhang, 2005: 60; Fan et al., 2016: 68
Type locality: NZ, incomplete taxonomy sample
Distribution: New Zealand

**Eustigmaeus edenvillensis** Ueckermann et Smith-Meyer
Type locality: Edenville, Orange-Free-State
Distribution: South Africa

**Eustigmaeus ensifer** Tseng
*Eustigmaeus ensifer* Tseng, 1982: 30; Fan & Chen, 2010: 128; Fan et al., 2016: 68
*Wooderia ensifer* (Tseng): Rimando & Corpuz-Raros, 1997: 16
Type locality: Fenchihu, Chiayi Hsien
Distribution: Taiwan

**Eustigmaeus erciyesiensis** Doğan, Ayyıldız et Fan
Type locality: Erciyes Mountain, Kayseri
Distribution: Turkey

**Eustigmaeus erzincanensis** Doğan
Type locality: Ahmediye, Erzincan
Distribution: Turkey

**Eustigmaeus erzurumensis** Doğan
Type locality: Köprüköy Village, Ispir, Erzurum
Distribution: Turkey

**Eustigmaeus etruscus** (Berlese)
*Raphignathus patrius var. etruscus* Berlese, 1910: 209; Lombardini, 1936: 14
*Ledermuelleria etruscus* (Berlese): Oudemans, 1923: 152
*Eustigmaeus etruscus* (Berlese): Wood, 1973: 85; Rimando & Corpuz-Raros, 1997: 4; Faraji et al., 2007: 150; Fan et al., 2016: 69
Type locality: Mt. Falterona nr. Firenze
Distribution: Italy

**Eustigmaeus extremiorientalis** Khaustov
*Eustigmaeus extremiorientalis* Khaustov, 2016a: 322
Type locality: Primorskiy Kray, Vladivostok
Distribution: Russia

**Eustigmaeus fantinoui** Stathakis, Kapaxidi et Papadoulis
*Eustigmaeus fantinoui* Stathakis, Kapaxidi & Papadoulis, 2016: 53; Fan et al., 2019: 90
Type locality: Livaditis, Co. Xanthi
Distribution: Greece

**Eustigmaeus favosus** (Sellnick)
*Ledermuelleria favosa* Sellnick, 1932: 167
*Eustigmaeus favosus* (Sellnick): Wood, 1973: 82; Fan et al., 2016: 69
*Chaudhria favosa* (Sellnick): Rimando & Corpuz-Raros, 1997: 23
Type locality: Bolahun
Distribution: Liberia

**Eustigmaeus filippicus** (Rimando et Corpuz Raros)(new comb.)
*Wooderia filippicus* Rimando & Corpuz Raros, 1997: 22
Type locality: Philippines
Distribution: Philippines

**Eustigmaeus firmus** Tseng
*Eustigmaeus firmus* Tseng, 1982: 33; Fan & Chen, 2010: 128; Fan et al., 2016: 69
Type locality: Longchi, Tainan Hsien
Distribution: Taiwan

**Eustigmaeus floridensis** Maake, Ueckermann et Childers
*Eustigmaeus floridensis* Maake, Ueckermann & Childers, 2016: 977; Paktinat-Saeij et al., 2016a: 578; Fan et al., 2016: 69
Type locality: Polk County, Florida
Distribution: USA (Fl)

**Eustigmaeus foliaceus** Tseng
*Eustigmaeus foliaceus* Tseng, 1982: 31; Fan & Chen, 2010: 128; Fan et al., 2016: 70
*Ledermuelleria foliacea* (Tseng): Rimando & Corpuz-Raros, 1997: 16
Type locality: Chuchi, Chiayi Hsien
Distribution: Taiwan
**Eustigmaeus formosus** Kazmierski et Donczyk

_Eustigmaeus formosus_ Kazmierski & Donczyk, 2003: 2; Faraji et al., 2007: 150; Doğan et al., 2014: 5; Fan et al., 2016: 70

Type locality: Opalinie Górne Reserve

Distribution: Poland

**Eustigmaeus frigidus** (Habeeb)

_Ledermuelleria frigida_ Habeeb, 1958: 4

_Eustigmaeus frigida_ (Habeeb): Wood, 1973: 82; Fan & Zhang, 2004: 13; Paktinat-Saeij et al., 2016a: 578; Fan et al., 2016: 70

Type locality: Grand Falls, New Brunswick

Distribution: Canada

**Eustigmaeus fujianicus** Zhang

_Eustigmaeus fujianicus_ Zhang, 1993: 772; Fan & Chen, 2010: 128; Fan et al., 2016: 70

Type locality: Longqi Mountain, Fujian

Distribution: China

**Eustigmaeus gamma** (Chaudhri)

_Ledermuelleria gamma_ Chaudhri, 1965: 484; 1968: 12

_Eustigmaeus gamma_ (Chaudhri): Wood, 1973: 82; Lewis & MacFarlane, 1981: 179; Zhang & Gerson, 1995: 300; Spongoski, 2008: 87; Doğan et al., 2011: 176; Maake et al., 2016: 985; Paktinat-Saeij et al., 2016a: 578; Fan et al., 2016: 70

Chaudhria gamma (Chaudhri): Rimando & Corpuz-Raros, 1997: 23

Type locality: Upper Camp, Canal Zone

Distribution: Panama

Host: _Phlebotomus pius_ (Diptera: Psychodidae)

**Eustigmaeus gersoni** (Wood)

_Ledermuelleria gersoni_ Wood, 1972: 310; Gerson, 1972b: 328

_Eustigmaeus gersoni_ (Wood): Wood, 1973: 82; Spongoski, 2008: 87; Maake et al., 2016: 985; Paktinat-Saeij et al., 2016a: 579; Fan et al., 2016: 71

Type locality: Saratoga Springs, New York, USA

Distribution: Canada, USA

**Eustigmaeus gorgasi** (Chaudhri)

_Ledermuelleria gorgasi_ Chaudhri, 1965: 485; 1968: 11

_Eustigmaeus gorgasi_ (Chaudhri): Wood, 1973: 82; Lewis & MacFarlane, 1981: 179; Zhang & Gerson, 1995: 300; Spongoski, 2008: 88; Doğan et al., 2011: 176; Maake et al., 2016: 985; Paktinat-Saeij et al., 2016a: 578; Fan et al., 2016: 71

Chaudhria gorgasi (Chaudhri): Rimando & Corpuz-Raros, 1997: 23
Type locality: Upper Camp, Canal Zone
Distribution: Panama
Host: *Phlebotomus pius* (Psychodidae: Diptera)

**Eustigmaeus grandis** Khaustov
*Eustigmaeus grandis* Khaustov, 2019: 164; Fan et al., 2019: 90
Type locality: Vladivostok, Primorskiy Kray
Distribution: Russia (Far East)

**Eustigmaeus granulosus** (Wood)
Type locality: Rio Aparima nr. Mossburn
Distribution: New Zealand

**Eustigmaeus gulingensis** Hu et Chen
*Eustigmaeus gulingensis* Hu & Chen, in Hu, Chen & Huang, 1996: 318; Fan & Chen, 2010: 128; Fan et al., 2016: 71
Type locality: Lusha, Jiangxi
Distribution: China

**Eustigmaeus hashmii** (Chaudhri)
*Ledermuelleria hashmii* Chaudhri, 1968: 14
*Eustigmaeus hashmii* (Chaudhri): Wood, 1973: 82; Khan et al., 2010a: 152; Fan et al., 2016: 71
Type locality: WPAU Campus, Lyallpur, Pakistan
Distribution: Pakistan

**Eustigmaeus hooriaae** Khan, Afzal et Bashir
*Eustigmaeus hooriaae* Khan, Afzal & Bashir, 2010: 150; Rehman et al., 2016: 1276; Fan et al., 2016: 71
Type locality: Ameen Pur Bangla 20 miles N from Faisalabad
Distribution: Pakistan

**Eustigmaeus irregularis** Stathakis, Kapaxidi et Papadoulis
*Eustigmaeus irregularis* Stathakis, Kapaxidi & Papadoulis, 2016: 50; Fan et al., 2019: 90
Type locality: Pagontas, Co. Evia
Distribution: Greece

**Eustigmaeus isfahaniensis** Khanjani, Najaf-Abadi et Khanjani
*Eustigmaeus isfahaniensis* Khanjani, Najaf-Abadi & Khanjani, 2014: 18; Bagheri et al., 2014b: 178; Fan et al., 2016: 72
**Eustigmaeus jiangxiensis** Hu, Chen et Huang


Type locality: Xiushui, Jiangxi (China)
Distribution: China, France, Greece (Crete), Iran, Russia, Turkey

**Eustigmaeus johnstoni** Zhang et Gerson


Type locality: Zabidi, Yemen
Distribution: Cyprus, Egypt, India, Iran, Pakistan, Palestine, Saudi Arabia, Spain, Tunisia, Turkey, Yemen

Hosts: *Phlebotomus longicuspis, Ph. papatasi, Ph. sergenti, Sergentomyia africana, S. dreyfussi, S. magna* (Diptera: Phlebotominae)

**Eustigmaeus kauaiensis** Swift, Gerson et Goff

*Eustigmaeus kauaiensis* Swift, Gerson & Goff, 1985: 375; Fan, 2002: 550; Paktinat-Saeij et al., 2016a: 578; Fan et al., 2016: 73

Type locality: Kaua‘i
Distribution: China, Hawaii

**Eustigmaeus kentingensis** Tseng


Type locality: Kenting Park, Pingtung Hsien, Taiwan
Distribution: Italy, Taiwan, Turkey

**Eustigmaeus kermesinus** (C.L. Koch)

*Stigmaeus kermesinus* C.L. Koch, 1841: 37; Berlese, 1887: n.6; Oudemans, 1910: 49

*Stigmaeus (Eustigmaeus) kermesinus*: Berlese, 1910: 207

Type locality: Maccarese, Roma (Italy)
Distribution: Austria, Germany, Italy, Netherlands, Norway, Saudi Arabia, Switzerland, Turkey

**Eustigmaeus kulaensis** Akyol

*Eustigmaeus kulaensis* Akyol, 2019: 971; Doğan, 2019: 134
Type locality: Kula Distr., Manisa Prov.
Distribution: Turkey

**Eustigmaeus lacunus** (Summers)

*Eustigmaeus lacunus* (Summers): Fan et al., 2016: 74
Type locality: Bassets, Sierra, California
Distribution: Turkey, USA (Cal.)

**Eustigmaeus lapponicus** (Trägårdh)

*Raphignathus siculus var. lapponicus* Trägårdh, 1910: 471
*Stigmaeus lapponicus* (Trägårdh): Sepasgosarian, 1985; Fan, 2005; Doğan et al., 2015a
*Eustigmaeus lapponicus* (Trägårdh): Fan et al., 2016: 74
Type locality: Kvikkjokk (Sweden)
Distribution: Finland, Italy, Sweden

**Eustigmaeus lirellus** (Summers et Price)

*Eustigmaeus lirella* (Summers et Price): Wood, 1973: 82; Spongoski, 2008: 89; Doğan et al., 2011: 176; Badakhshan et al., 2013: 97; Maake et al., 2016: 985; Negm et al., 2015: 965; Paktinat-Saeij et al., 2016a: 579;
*Eustigmaeus lirellus* (Summers et Price): Fan et al., 2016: 74
*Wooderia lirella* (Summers et Price): Rimando & Corpuz-Raros, 1997: 19
Type locality: Springville, Tulare, California
Distribution: Japan, USA

**Eustigmaeus longi** Hu et Chen

*Eustigmaeus longi* Hu & Chen, in Hu, Chen & Huang, 1996: 315; Fan & Chen, 2010: 128; Fan et al., 2016: 75
Type locality: Jiangxi
Distribution: China
Eustigmaeus longipilis (Halbert)
Raphignathus longipilis Halbert, 1923: 386
Eustigmaeus longipilis (Halbert): Fan, 2005; Fan et al., 2016: 75
Type locality: Glancullen, Ireland
Distribution: Ireland

Eustigmaeus longisetosus (Willmann)
Ledermülleria longisetosa Willmann, 1956: 237
Eustigmaeus longisetosus (Willmann): Fan, 2005; Doğan et al., 2014: 5; Fan et al., 2016: 75
Chaudhria longisetosa (Willmann): Rimando & Corpuz-Raros, 1997: 23
Type locality: [Czechoslovakia]
Distribution: [Czechoslovakia], Poland

Eustigmaeus lyallpuriensis (Chaudhri)
Ledermülleria lyallpuriensis Chaudhri, 1968: 13
Eustigmaeus layallpuriensis (Chaudhri)[sic]: Khan, Afzal & Bashir, 2010: 152; Fan et al., 2016: 75
Type locality: Punjab, Lyallpur
Distribution: Pakistan

Eustigmaeus maladahon (Rimando et Corpuz-Raros)
Ledermülleria maladahon Rimando & Corpuz-Raros, 1997: 17
Eustigmaeus maladahon (Rimando et Corpuz-Raros): Spongoski, 2008: 90; Fan et al., 75
Type locality: Mount Makiling
Distribution: Philippines

Eustigmaeus manapouriensis (Wood)
Ledermülleria manapouriensis Wood, 1966: 97; Chaudhri, 1968: 12
Type locality: Manapouri Lake
Distribution: New Zealand

Eustigmaeus manus Rimando et Corpuz-Raros
Eustigmaeus manus Rimando & Corpuz-Raros, 1997: 9; Fan et al., 2016: 76
Type locality: Quezon, Quezon National Park, Atimonan
Distribution: Philippines

Eustigmaeus marginatus Zhang
Type locality: Longqi Mountain, Fujian
Distribution: China

**Eustigmaeus microsegnis** (Chaudhri)


Type locality: Gravois Mills (12 mi SE), Camden County, Missouri (USA)
Distribution: Brazil, Canada, China (incl. Taiwan), Italy, Poland, USA

**Eustigmaeus microvacuolatus** Stathakis, Kapaxidi et Papadoulis

*Eustigmaeus microvacuolatus* Stathakis, Kapaxidi & Papadoulis, 2016: 61; Fan et al., 2019: 90

Type locality: Myrtopotamia, Co. Messinia
Distribution: Greece

**Eustigmaeus mineus** Barilo

*Eustigmaeus mineus* Barilo, 1989: 136; Faraji et al., 2007; Fan et al., 2016: 76

Type locality: Zeravshan Range E from Pendzhikent
Distribution: Uzbekistan

**Eustigmaeus mixtus** (Wood)


**Eustigmaeus mixtus** (Wood): Wood, 1973: 82; Fan & Zhang, 2005: 63; 76

Type locality: near Cobb Reservoir, Takaka, NZ
Distribution: Australia, Fiji, Malaysia, New Zealand, Pacific islands (Cook Isl., Viti Levu, Niue, Rarotonga, Tahiti), Solomon Islands (Guadalcanal)

**Eustigmaeus modiolus** (Summers et Price)


**Eustigmaeus modiola** (Summers et Price): Spongosi, 2008: 91; Paktinat-Saeij et al., 2016a: 578

**Eustigmaeus modiolus** (Summers et Price): Woods, 1973: 82; Maake et al., 2016: 984; Fan et al., 2016: 77

Type locality: Sawyer Ridge, San Mateo, California
Distribution: USA
**Eustigmaeus molawini** Rimando et Corpuz-Raros
*Eustigmaeus molawini* Rimando & Corpuz-Raros, 1997: 11; Fan et al., 2016: 77
Type locality: Mount Makiling
Distribution: Philippines

**Eustigmaeus mollis** (Wood)
*Ledermuelleria mollis* Wood, 1971: 79
Type locality: Malakuna, Valebonubonu (Guadalcanal)
Distribution: Solomon Islands (Guadalcanal)

**Eustigmaeus myrteus** (Chaudhri)
*Ledermuelleria myrtea* Chaudhri, 1965: 483; 1968: 12
*Eustigmaeus myrtea* (Chaudhri): Doğan et al., 2014: 5
*Eustigmaeus myrteus* (Chaudhri): Fan et al., 2016: 77
*Wooderia myrtea* (Chaudhri): Rimando & Corpuz-Raros, 1997: 20
Type locality: Monterey Co., California
Distribution: Poland, USA

**Eustigmaeus nahidae** Geblealivand et Bagheri
*Eustigmaeus nahidae* Geblealivand & Bagheri, 2012: 218; Beyzavi et al., 2013: 399; Kanjani et al., 2013b: 559; Bagheri et al., 2014b: 179; Navaei-Bonab et al., 2015: 383;
Type locality: Bonab, East Azerbaijan, Prov.
Distribution: Iran

**Eustigmaeus najeebus** (Habeeb)
*Ledermuelleria najeeba* Habeeb, 1973: 1
*Eustigmaeus najeeba* (Habeeb): Wood, 1973: 83; Qing-Hai Fan & Zhang, 2004: 17; Maake et al., 2016: 985; Paktinat-Saeij et al., 2016a: 578
*Eustigmaeus najeebus* (Habeeb): Fan et al., 2016: 78
Type locality: Cayuga
Distribution: USA

**Eustigmaeus nasrinae** Khanjani et Ueckermann
*Eustigmaeus nasrinae* Khanjani & Ueckermann, 2002: 321; Lotfollahi et al., 2010; Beyzavi et al., 2013: 399; Mohammadi, Khanjani & Nazari, 2013: 24; Bagheri et al., 2014b: 178; Khanjani et al., 2014c: 23; Rahmati et al., 2015: 411; Fan et al., 2016: 78
Type locality: Hamedan
Distribution: Iran
**Eustigmaeus oliveirai** Paktinat-Saeij et Bagheri

*Eustigmaeus oliveirai* Paktinat-Saeij & Bagheri, 2016: 572; Fan et al., 2016: 78

Type locality: Pariquera-Açu, São Paulo State

Distribution: Brazil

**Eustigmaeus ornatus** Ueckermann et Smith-Meyer


Type locality: Transvaal, Potchefstroom (South Africa)

Distribution: Iran, South Africa, Hawaii

**Eustigmaeus ottavii** (Berlese)

*Stigmaeus (Eustigmaeus) ottavii* Berlese, 1910: 207


*Paravillersia grata* Kuznetsov, 1978: 49 (60?); Khaustov, 2014: 63; Fan et al., 2016: 107 (Voronezh Prov., Russia)

Type locality: Casalmonferrato (Italy)

Distribution: Austria, Germany, Greece, Iran, Italy, Russia, Switzerland, Turkey, USA

**Eustigmaeus ottavii sphagnosticola** Cooreman

*Eustigmaeus ottavii sphagnosticola* Cooreman, 1943

Type locality: Hautes-Fagnes

Distribution: Belgium

**Eustigmaeus oudemansi** (Thor)

*Ledermülleria oudemansi* Thor, 1930: 99


Type locality: Svalbard

Distribution: Norway (Svalbard)

**Eustigmaeus ovatus** (Chaudhri)

*Ledermuelleria ovata* Chaudhri, 1965: 480; 1968: 11

*Eustigmaeus ovata* (Chaudhri): Spongosi, 2008: 92; Paktinat-Saeij et al., 2016a: 578

*Eustigmaeus ovatus* (Chaudhri): Wood, 1973: 82; Maake et al., 2016: 985; Fan et al., 2016: 79; Khaustov, 2016b: 640
Type locality: 12 mi. N St. Helena, Napa County, California
Distribution: Chile, USA (California)

**Eustigmaeus parakauaiensis** Kapaxidi, Stathakis et Papadoulis
*Eustigmaeus parakauaiensis* Kapaxidi, Stathakis & Papadoulis, 2013: 401; Fan et al., 2016: 79
Type locality: Rodopi Mountain, Co. Rodopi
Distribution: Greece

**Eustigmaeus parasiticus** (Chaudhri)
*Ledermuelleria parasitica* Chaudhri, 1965: 479
*Eustigmaeus parasitica* (Chaudhri): Spongoski, 2008: 92; Paktinat-Saeij et al., 2016a: 578
*Eustigmaeus parasiticus* (Chaudhri): Wood, 1973: 82; Lewis & MacFarlane, 1981: 179; Maake et al., 2016: 985; Fan et al., 2016: 79
*Chaudhria parasitica* (Chaudhri): Rimando & Corpuz-Raros, 1997: 23
Type locality: Quebrada Bonita
Distribution: Panama

**Eustigmaeus parvisetus** (Chaudhri)
*Ledermuelleria parviseta* Chaudhri, 1965: 474; 1968: 11; Gerson, 1972b: 328
Type locality: Luther Pass, Hwy.89, Alpine Co., USA
Distribution: Canada, Russia, USA (incl. Hawaiian Islands)

**Eustigmaeus philippicus** (Rimando et Corpuz-Raros)
*Wooderia philippica* Rimando & Corpuz-Raros, 1997: 20
*Eustigmaeus philippicus*: Fan et al., 2016: 80
Type locality: Palayan ng. Bayan, Philippines
Distribution: Philippines

**Eustigmaeus pinnata** (Kuznetsov)
*Ledermuelleria pinnata* Kuznetsov, 1977: 955
*Eustigmaeus pinnatus* (Kuznetsov): Wainstein & Kuznetsov, 1978: 157; Kazmierski, 2000; Faraji et al., 2007: 150; Doğan et al., 2014: 5; Fan et al., 2016: 80
*Eustigmaeus ioanninensis* Kapaxidi et Papadoulis, 1999: 143; Doğan et al., 2003a: 143; Doğan, 2007: 15; Bagheri et al., 2011; Özçelik & Doğan, 2011: 714; Navaei-Bonab et al., 2012; Beyzavi et al., 2013: 399; Khaustov & Tolstikov, 2014: 552; Navaei-Bonab
et al., 2015: 383; Fan et al., 2016: 72 (Type locality: Katsikas Co., Ioannina, Epirus, syn. by Khaustov, 2019)
Type locality: Crimea
Distribution: Crimea, Greece, Hungary, Iran, Moldavia, Russia, Poland, Slovakia, Turkey, Ukraine

*Eustigmaeus piracicabaensis* Paktinat-Saeij et Bagheri

*Eustigmaeus piracicabaensis* Paktinat-Saeij & Bagheri, 2016: 572; Fan et al., 2016: 80
Type locality: Piracicaba, São Paulo
Distribution: Brazil

*Eustigmaeus plumifer* (Halbert)
*Raphignathus plumifer* Halbert, 1923: 386
*Wooderia plumifer* (Halbert): Rimando & Corpuz-Raros, 1997: 19
*Eustigmaeus plumifer* (Halbert): Wood, 1973: 82; Wainstein & Kuznetsov, 1978: 156; Bagheri et al., 2011; Beyzavi et al., 2013: 399; Khaustov & Tolstikov, 2014: 551; Na- vaei-Bonab et al., 2015: 383; Maake et al., 2016: 985; Paktinat-Saeij & Bagheri, 2016: 579; Fan et al., 2016: 80
Type locality: Houth Head, Dublin (Ireland)
Distribution: Austria, Denmark, Iran, Ireland, Russia, Slovakia, Spain, USA (Cal.)

*Eustigmaeus ptenopus* Ueckermann et Smith-Meyer

Type locality: Transvaal, Boskop Dam nr. Potchefstroom
Distribution: South Africa

*Eustigmaeus ptilosetus* Fan et Zhang

*Eustigmaeus ptilosetus* Fan & Zhang, 2005: 64; Fan et al., 2016: 81
Type locality: Great I., Three Kings Isl.
Distribution: New Zealand

*Eustigmaeus pulchellus* (Thor)
*Liostigmaeus pulchellus* Thor, 1930: 99
*Eustigmaeus pulchellus* (Thor): Spongoski, 2008: 93; Fan et al., 2016: 81
Type locality: Svalbard
Distribution: Norway (Svalbard)
**Eustigmaeus rarosi** Rimando et Corpuz-Raros
*Eustigmaeus rarosi* Rimando & Corpuz-Raros, 1997: 13; Fan et al., 2016: 81
Type locality: Mount Makiling
Distribution: Philippines

**Eustigmaeus reticulatellus** (Habeeb)
*Ledermuelleria reticulatellus* Habeeb, 1961: 2
*Eustigmaeus reticulatellus* (Habeeb): Qing-Hai Fan & Zhang, 2004: 20; Fan et al., 2016: 81
*Ledermuelleriopsis taylori* Habeeb, 1961: 2
Type locality: New York
Distribution: USA

**Eustigmaeus rhodomelus** (C.L. Koch)
*Celaeno rhodomela* C.L. Koch, 1841: 2
*Acarus maculatus* Schrank, 1803: 211
*Raphignathus patrius* Berlese, 1885: 4
*Ledermülleria maculatus* (Schrank): Oudemans, 1928
*Eustigmaeus rhodomelus* (Koch): Kapaxidi & Papadoulis, 1999: 143; Fan et al., 2016: 82; Doğan, 2019: 134
Type locality: Castions di Strava (Italy)
Distribution: Canada, Germany, Greece, Iran, Italy, Moldavia, Poland, Russia, Turkey, USA (Alaska, Conn., Cal.)

**Eustigmaeus rotundus** (Wood)
*Ledermuelleria rotunda* Wood, 1972: 313
*Eustigmaeus rotundus* (Wood): Fan et al., 2016: 82
Type locality: Sande Lac, Quebec
Distribution: Canada

**Eustigmaeus sagittatus** Tseng
*Eustigmaeus sagittatus* Tseng, 1982: 27; Fan & Chen, 2010: 128; Fan et al., 2016: 83
Type locality: Tatung Shand, Chiayi Hsien
Distribution: Taiwan
**Eustigmaeus schusteri** (Summers et Price)


Type locality: Strawberry, Tuolumne Co., California
Distribution: Canada, Greece, Taiwan, Turkey, USA (Cal.)

**Eustigmaeus sculptus** Doğan, Ayyıldız & Fan


Type locality: Erzurum
Distribution: Iran, Turkey

**Eustigmaeus seemani** Khanjani, Firozfar, Mirmoayedi et Asali Fayaz

*Eustigmaeus seemani* Khanjani, Firozfar, Mirmoayedi & Asali Fayaz, 2013: 3; Fan et al., 2016: 84

Type locality: Rijab, Kermanshah Prov.
Distribution: Iran

**Eustigmaeus segnis** (C.L.Koch)

*Caligonus segnis* C.L.Koch, 1836: fasc. 5(10)

*Raphignathus ruber* Koch, 1842: 56

*Raphignathus piger* Berlese, 1885: fasc. 22(1)


Type locality: Germany
Distribution: Austria, China, Crimea, Cuba, Czech Rep., Denmark, Estonia, Germany, Iran, Italy, Japan, Latvia, Lituania, Pakistan, Poland, Russia, Somalia, Turkey, USA, Hawaii, Ukraine
**Eustigmaeus setiferus** Bagheri, Saber, Ueckermann, Ghorbani et Bonab
*Eustigmaeus setiferus* Bagheri Saber, Ueckermann, Ghorbani & Bonab, 2011: 212; Beyzavi et al., 2013: 400; Fan et al., 2016: 85
Type species: Maragheh, East Azerbaijan Prov.
Distribution: Iran

**Eustigmaeus simplex** (Wood)
*Ledermuelleria simplex* Wood, 1966: 92
*Eustigmaeus simplex* (Wood): Fan & Zhang, 2005: 65; Fan et al., 2016: 85
Type locality: Waipoua Forest, Auckland
Distribution: New Zealand

**Eustigmaeus smithi** (Chaudhri)
*Ledermuelleria smithi* Chaudhri, 1965: 473
*Eustigmaeus smithi* (Chaudhri): Spongoski, 2008: 96; Fan et al., 2016: 86
Type locality: Cuesta de Pucalon, La Calera
Distribution: Chile

**Eustigmaeus spathatus** Ueckermann et Smith-Meyer
*Eustigmaeus spathatus* Ueckermann & Smith-Meyer, 1987: 387; Smith-Meyer & Ueckermann, 1989: 49; Kamali et al., 2006; Beyzavi et al., 2013: 400; Fan et al., 2016: 86
Type locality: Transvaal, Potchefstroom
Distribution: Iran, South Africa

**Eustigmaeus tessellatus** (Ewing)
*Raphignathus tessellatus* Ewing, 1909: 404
*Ledermuelleria tessellatus*: Oudemans, 1923
*Eustigmaeus tessellatus* (Ewing): Spongoski, 2008: 96
Type locality: Illinois
Distribution: USA

**Eustigmaeus tjumeniensis** Khaustov et Tolstikov
*Eustigmaeus tjumeniensis* Khaustov & Tolstikov, 2014: 532; Fan et al., 2016: 86
Type locality: Tyumen Prov., vic. of lake Kuchak, from mosses
Distribution: Russia

**Eustigmaeus tongshiensis** Hu et Liang
Type locality: Hainan, Tongshi
Distribution: China
**Eustigmaeus truncatus** (Halbert)
*Raphignathus patrius var. truncatus* Halbert, 1923: 385  
*Eustigmaeus truncatus* (Halbert): Spongoski, 2008: 96; Fan et al., 2016: 86  
Type locality: Glencullen, Dublin  
Distribution: Ireland

**Eustigmaeus turcicus** Doğan et Ayyıldız  
Type locality: Karhdere, Pazaryolu, Erzurum  
Distribution: Turkey

**Eustigmaeus ueckermanni** Bagheri et Bayzavi  
*Eustigmaeus ueckermanni* Bagheri & Bayzavi, 2013: 31; Fan et al., 2016: 87  
Type locality: the south of Kamfiruz region, Fars province  
Distribution: Iran

**Eustigmaeus vacuus** Doğan  
Type locality: Erciyes Mountain, Kayseri  
Distribution: Turkey

**Eustigmaeus variolatus** Barilo  
*Eustigmaeus variolatus* Barilo, 1987: 1098; Fan et al., 2016: 87  
Type locality: Samarkand  
Distribution: Uzbekistan

**Eustigmaeus varius** Dönel et Doğan  
*Eustigmaeus varius* Dönel & Doğan, 2011: 13; Fan et al., 2016: 87; Doğan, 2019: 134  
Type locality: Reşadiye  
Distribution: Turkey

**Eustigmaeus vietnamiensis** Khaustov et Tsurikov  
*Eustigmaeus vietnamiensis* Khaustov & Tsurikov, 2018: 236  
Type locality: Cat Tien National Park  
Distribution: Vietnam
**Eustigmaeus wuningensis** Hu, Huang et Chen
Type locality: Jiangxi
Distribution: China

**Eustigmaeus yandingensis** Hu, Zha et Zhu
Type locality: Zhejiang, Yandangshan
Distribution: China

**Eustigmaeus yanwenae** Hu, Zha et Zhu
*Eustigmaeus yussufii* (Chaudhri)
*Ledermuelleria yussufi* Chaudhri, 1968: 16
*Eustigmaeus yussufii* (Chaudhri): Khan, Afzal & Bashir, 2010: 152
*Eustigmaeus yussufii* (Chaudhri): Fan et al., 2016: 88
Type locality: WPAU Campus, Lyallpur
Distribution: Pakistan

**Eustigmaeus zhengyii** Hu et Zhu
Type locality: Zhejiang
Distribution: China

Genus **Farajimaeus** Ueckermann
*Farajimaeus* Ueckermann, 2008: 257
Type species: *Pilonychiopus tutus* Meyer, 1969

**Farajimaeus tutus** (Meyer)
*Farajimaeus tutus* (Meyer): Ueckermann, 2008: 257; Fan et al., 2016: 88
Type locality: Bontebok National Park nr. Bredasdorp
Distribution: South Africa

Genus **Gymnostigmaeus** Ehara et Ueckermann
*Gymnostigmaeus* Ehara & Ueckermann, 2006: 31
Type species: *Gymnostigmaeus akaminei* Ehara et Ueckermann, 2006

**Gymnostigmaeus akaminei** Ehara et Ueckermann
*Gymnostigmaeus akaminei* Ehara & Ueckermann, 2006: 31; Fan et al., 2016: 89
Type locality: Okinawa
Distribution: Japan

Genus *Indostigmaeus* Gupta et Ghosh
*Indostigmaeus* Gupta & Ghosh, 1980: 204
Type species: *Indostigmaeus rangatensis* Gupta et Ghosh, 1980

*Indostigmaeus makilingae* (Rimando et Corpuz-Raros)
*Mulleleria makilingae* Rimando & Corpuz-Raros, 1996: 149
*Indostigmaeus makilingae*: Fan, Flechtmann & de Moraes, 2016: 89
Type locality: Mount Makiling, Batangas
Distribution: Philippines

*Indostigmaeus rangatensis* Gupta et Ghosh
*Indostigmaeus rangatensis* Gupta & Ghosh, 1980: 205; Fan et al., 2016: 89
Type locality: Rangat I., Panchawati
Distribution: India

Genus *Ledermuelleriopsis* Willmann
*Ledermuelleriopsis* Willmann, 1953: 487
*Ledermuelleriopsis* Zoological Record [misspelling]
Type species: *Ledermuelleriopsis plumosa* Willmann, 1951: 140 (see Fan et al., 2019)

*Ledermuelleriopsis alvatanensis* Doustaresharaf et Bagheri
*Ledermuelleriopsis alvatanensis* Doustaresharaf et Bagheri, 2019: 277
Type locality: Alvatan forest
Distribution: Iran

*Ledermuelleriopsis aminiae* Nazari et Khanjani
*Ledermuelleriopsis aminiae* Nazari & Khanjani, 2017: 194
Type locality: Iran
Distribution: Iran

*Ledermuelleriopsis ariyai* Khanjani, Mohammadi, Ghiasi, Izadi et Mirmoayedi
Beyzavi et al., 2013: 400; Fan et al., 2016: 89
Type locality: Abbasabad, Hamedan
Distribution: Iran

*Ledermuelleriopsis armata* Tseng
*Ledermuelleriopsis armata* Tseng, 1982: 44; Fan & Chen, 2010: 128; Fan et al., 2016: 90
Type locality: Sweswe, Hualien Hsien
Distribution: Taiwan

**Ledermuelleriopsis aydinensis** Akyol et Gül
*Ledermuelleriopsis aydinensis* Akyol & Gül, 2019: 16
Type locality: Dilek Peninsula – Büyük Menderes delta National Park
Distribution: Turkey

**Ledermuelleriopsis ayhani** Maleki et Bagheri
*Ledermuelleriopsis ayhani* Maleki & Bagheri, 2013: 4; Fan et al., 2016: 90
Type locality: Gharakandi Village, Chaypareh, West Azerbaijan, Northwest Iran
Distribution: Iran

**Ledermuelleriopsis ayyildizi** Doğan
Type locality: Sivas Ali Martyrdom, Pasinler, Erzurum
Distribution: Turkey

**Ledermuelleriopsis barbellata** Fan, Walter et Proctor
*Ledermuelleriopsis barbellata* Fan, Walter & Proctor, 2003: 563; Fan et al., 2016: 90
Type locality: Rainbow Beach, Cooloola, Queensland
Distribution: Australia

**Ledermuelleriopsis bintawanensis** Rimando et Corpuz-Raros
*Ledermuelleriopsis bintawanensis* Rimando & Corpuz-Raros, 2001: 134; Fan et al., 2016: 90
Type locality: Bintawan
Distribution: Philippines

**Ledermuelleriopsis bisetalis** Doğan
Type locality: Aşkale, Erzurum
Distribution: Turkey

**Ledermuelleriopsis claviseta** Fan, Walter et Proctor
*Ledermuelleriopsis claviseta* Fan, Walter & Proctor, 2003: 568; Fan et al., 2016: 91
Type locality: Toohey Forest, Brisbane, Queensland
Distribution: Australia
**Ledermuelleriopsis dogani** Khanjani, Pakdelan, Ostovan et Khanjani

*Ledermuelleriopsis dogani* Khanjani, Pakdelan, Ostovan et Khanjani, 2012: 61; Beyzavi et al., 2013: 400; Fan et al., 2016: 91

Type locality: Marvdasht, Fars Prov.

Distribution: Iran

**Ledermuelleriopsis giresuniensis** Doğan et Ayyıldız


Type locality: Gulburnu Village, Espiye, Giresun

Distribution: Turkey

**Ledermuelleriopsis guilinensis** Hu et Laing


Type locality: Guangxi-Zhuang

Distribution: China

**Ledermuelleriopsis incisa** Wood


Type locality: 17 miles N. of Te Anau

Distribution: New Zealand

**Ledermuelleriopsis indiscretus** Dönel et Doğan

*Ledermuelleriopsis indiscretus* Dönel & Doğan, 2011: 4; Fan et al., 2016: 91; Doğan, 2019: 134

Type locality: between Koyulhisar-Reşadiye

Distribution: Turkey

**Ledermuelleriopsis medicae** Khanjani et Ueckermann

*Ledermuelleriopsis medicae* Khanjani & Ueckermann, 2002: 323; Beyzavi et al., 2013: 400; Fan et al., 2016: 92

Type locality: Hamedan

Distribution: Iran

**Ledermuelleriopsis meilingensis** Hu, Xia et Chen

*Ledermülleriopsis meilingensis* Hu, Xia & Chen, 1997: 176

*Ledermuelleriopsis meilingensis* Hu, Xia et Chen: Fan & Chen, 2010: 128; Fan et al., 2016: 92

Type locality: Meiling; Jiangxi

Distribution: China
**Ledermuelleriopsis ornata** Tseng
*Ledermuelleriopsis ornata* Tseng, 1982: 42; Fan & Chen, 2010: 128; Fan et al., 2016: 92
Type locality: Sweswe, Hualien Hsien
Distribution: Taiwan

**Ledermuelleriopsis parvilla** Fan, Walter et Proctor
*Ledermuelleriopsis parvilla* Fan, Walter & Proctor, 2003: 560; Fan et al., 2016: 92
Type locality: Stradsbroke I., Queensland
Distribution: Australia

**Ledermuelleriopsis plumosa** Willmann
Type locality: Purbach (Austria)
Distribution: Austria, Iran, Israel, Italy, Poland, Slovakia, Sweden, Switzerland, Turkey, USA

**Ledermuelleriopsis punctata** Soliman
*Ledermuelleriopsis punctata* Soliman, 1975: 244; Doğan, 2007: 18; Fan et al., 2016: 93
Type locality: Lattakia
Distribution: Syria

**Ledermuelleriopsis punicae** Khanjani, Mohammadi, Ghiasi, Izadi et Mirmoayedi
*Ledermuelleriopsis punicae* Khanjani, Mohammadi, Ghiasi, Izadi & Mirmoayedi, 2012: 567; Beyzavi et al., 2013: 400; Fan et al., 2016: 93
Type locality: Rafsanjan, Kerman
Distribution: Iran

**Ledermuelleriopsis punjabensis** Kamran, Alatawi et Bashir
*Ledermuelleriopsis punjabensis* Kamran, Alatawi & Bashir, 2014: 677; Fan et al., 2016: 93
Type locality: Jampur city, district Rajanpur, Punjab
Distribution: Pakistan

**Ledermuelleriopsis pustulosa** Fan, Walter et Proctor
*Ledermuelleriopsis pustulosa* Fan, Walter & Proctor, 2003: 565; Fan et al., 2016: 93
Type locality: Yambira, North of Coonabarabran, New South Wales
Distribution: Australia
Ledermuelleriopsis rizeiensis Doğan
*Ledermuelleriopsis rizeiensis* Doğan, 2004a: 255; Doğan, 2007: 18; 2019: 134; Fan et al., 2016: 93
Type locality: Rize
Distribution: Turkey

Ledermuelleriopsis sezeki Doğan
Type locality: Uzundere, Erzurum
Distribution: Turkey

Ledermuelleriopsis simplexus Soliman
*Ledermuelleriopsis simplexus* Soliman, 1975: 244; Fan et al., 2016: 93
Type locality: Lattakia
Distribution: Syria

Ledermuelleriopsis spinosa Wood
Type locality: Taheke (N.Z.)
Distribution: Cuba, Iran, New Zealand

Ledermuelleriopsis tamariski Maleki, Bagheri et Gharekhani
*Ledermuelleriopsis tamariski* Maleki, Bagheri & Gharekhani, 2013: 625; Bingül & Doğan, 2016; Fan et al., 2016: 94; Doğan, 2019: 134
Type locality: Aras Region, Makou Sity, Northwest Iran
Distribution: Iran, Turkey

Ledermuelleriopsis terrulenta Ueckermann et Smith-Meyer
Type locality: Transvaal, Potchefstroom
Distribution: Iran, Lesotho, South Africa

Ledermuelleriopsis toleratus Kuznetzov
Type locality: Crimea, Nikitskiy Botanical Garden
Distribution: Crimea, Russia, Turkey, Ukraine
Ledermuelleriopsis triscutata Willmann
Type locality: Pinzgau (Austria)
Distribution: Austria, Netherlands, Turkey

Ledermuelleriopsis verricula Fan et Liu
Type locality: Fuzhou City; Fujian
Distribution: Brazil, China

Ledermuelleriopsis wuyanensis Hu et Laing
Type locality: Zhejiang
Distribution: China

Ledermuelleriopsis zahiri Khanjani et Ueckermann
Ledermuelleriopsis zahiri Khanjani & Ueckermann, 2002: 327; Navaei-Bonab, Bagheri & Zarei, 2012: 68; Beyzavi et al., 2013: 401; Navaei-Bonab et al., 2015: 385; Fan et al., 2016: 94
Type locality: Hamedan
Distribution: Iran

Genus Macrostigmaeus Berlese
Macrostigmaeus Berlese, 1910: 207 (subgenus)
Type species: Stigmaeus (Macrostigmaeus) serpentinus Berlese, 1910

Macrostigmaeus anguineus (Berlese)
Stigmaeus (Macrostigmaeus) anguineus Berlese, 1910: 208
Macrostigmaeus anguineus (Berlese)
Type locality: Pisa
Distribution: Italy

Macrostigmaeus serpentinus (Berlese)
Stigmaeus (Macrostigmaeus) serpentinus Berlese, 1910: 207
Macrostigmaeus serpentinus (Berlese): Castagnoli & Nannelli, 1995: 56; Fan et al., 2016: 95
Type locality: "Mugello" prope Florentiam
Distribution: Italy
**Macrogestigmaeus** sp. – Denmark (Weis-Fogh, 1948)

Genus **Makilingeria** Rimando et Corpuz-Raros  
*Makilingeria* Rimando & Corpuz-Raros, 1996: 156  
Type species: *Makilingeria lagunae* Rimando et Corpuz-Raros, 1996

**Makilingeria alveolata** (Tseng)  
*Mullederia alveolata* Tseng, 1982: 38  
Type locality: Fenchihu, Chiayi Hsien  
Distribution: Taiwan

**Makilingeria lagunae** Rimando et Corpuz-Raros  
*Makilingeria lagunae* Rimando & Corpuz-Raros, 1996: 157; Fan et al., 2016: 95  
Type locality: Philippines  
Distribution: Philippines

Genus **Mediolata** Canestrini  
*Mediolata* Canestrini, 1889: 524  
Type species: *Stigmaeus longirostris* Berlese, 1887

**Mediolata acus** (Summers)  
*Eupalopsis acus* Summers, 1960: 122  
Type locality: Summerland, B.C., Canada  
Distribution: Canada, Iran, Italy, Turkey, USA

**Mediolata aegyptiaca** (Zaher & Soliman)  
*Mediolata aegyptiaca* (Soliman & Zaher): Zaher & Gomaa, 1979: 548; Fan et al., 2016: 96  
Type locality: Samanode, mid-delta  
Distribution: Egypt

**Mediolata belfieldi** Momen  
*Mediolata belfieldi* Momen, 1987: 225; Bagheri et al., 2011; Beyzavi et al., 2013: 401; Ripka et al., 2013: 240; Navaei-Bonab et al., 2015: 378; Fan et al., 2016: 97  
Type locality: Belfield, Dublin, Ireland  
Distribution: Hungary, Iran, Ireland
**Mediolata brevisetis** Wood
Type locality: Whangamoa Saddle, 500 m
Distribution: New Zealand

**Mediolata californica** González-Rodríguez
Type locality: Casroville, Monterrey, California
Distribution: Baltic states, Crimea, Ukraine, USA

**Mediolata chanti** González-Rodríguez
*Mediolata chanti* González-Rodríguez, 1965: 12; André, 1977: 472; Faraji & Ueckermann, 2006a: 31; Fan et al., 2016: 97; Doğan, 2019: 134
*Eupalopsis vandergeesti* Gomaa & Bolland, 1982: 65 (Netherlands); syn. by Faraji & Ueckermann, 2006a: 31
*Mediolata vandergeesti* (Gomaa et Bolland): Ripka, Fain & Bolland, 1999: 366
Type locality: Maldon, Essex, England
Distribution: England, Hungary, Netherlands, Portugal, Turkey

**Mediolata conserva** Kuznetsov
*Mediolata conserva* Kuznetsov, 1977b: 302; Fan et al., 2016: 98
Type locality: Crimea
Distribution: Crimea

**Mediolata delicata** Fan et Zhang
*Mediolata delicata* Fan & Zhang, 2005: 70; Fan et al., 2016: 98
Type locality: Banks Peninsula, road to Akaroa
Distribution: New Zealand

**Mediolata eocenica** Kuznetsov, Khaustov et Perkovsky (*fossil*)
*Mediolata eocenica* Kuznetsov, Khaustov & Perkovsky, 2010: 545; Fan et al., 2016: 98
Type locality: Klesov, Rovno amber, Late Eocene
Distribution: Ukraine

**Mediolata favulosa** Wood
Type locality: Tadmor
Distribution: New Zealand
**Mediolata granaria** González-Rodríguez
*Mediolata granaria* González-Rodríguez, 1965: 14; Khaustov & Kuznetsov, 1997: 82; Doğan et al., 2014: 5; Fan et al., 2016: 98; Doğan, 2019: 134
Type locality: Monroe, Oregon
Distribution: Poland, Turkey, Ukraine, USA

**Mediolata horrida** Momen
*Mediolata horrida* Momen, 1987: 223; Fan et al., 2016: 98
Type locality: Belfield
Distribution: Ireland

**Mediolata longirostris** (Berlese)
*Stigmaeus longirostris* Berlese, 1887: 34(7)
*Eupalopsis longirostris* (Berlese): Oudemans, 1923: 149
Type locality: Firenze
Distribution: Italy, Switzerland

**Mediolata mariaefrancae** André
*Mediolata mariaefrancae* André, 1977: 463; Khaustov & Kuznetsov, 1997: 82; Ripka, Fain & Bolland, 1999: 366; Ripka et al., 2005: 166; Fan et al., 2016: 99
Type locality: Rouette (Lorraine belge)
Distribution: Belgium, Hungary, Ukraine

**Mediolata mirus** Chaudhri, Akbar et Rasool
*Mediolata mirus* Chaudhri, Akbar et Rasool, 1979: 210 [should be moved to *Exothorhis* ?]
Type locality: Shahdara (5 miles from Lahore)
Distribution: Pakistan

**Mediolata mollis** Wood
Type locality: Cobb Lake
Distribution: New Zealand

**Mediolata obtecta** Dönel et Doğan
*Mediolata obtecta* Dönel & Doğan, 2012: 694; Doğan et al., 2014: 7; Fan et al., 2016: 99; Doğan, 2019: 134
Type locality: Alucra (Turkey)
Distribution: Poland, Turkey
**Mediolata oleariae** Wood  
Type locality: Stewart Island: Thomson Ridge  
Distribution: New Zealand

**Mediolata olearius** (Zaher et Gomaa)  
*Eupalopsis olearius* Zaher & Gomaa, 1979: 552  
Type locality: Egypt  
Distribution: Egypt

**Mediolata ornatula** Gonzalez  
*Mediolata ornatula* Gonzalez, 1965: 13; Fan et al., 2016: 99  
Type locality: Silverton, Colorado  
Distribution: USA

**Mediolata ozkani** Dönel et Doğan  
*Mediolata ozkani* Dönel & Doğan, 2012: 692; Fan et al., 2016: 100; Doğan, 2019: 134  
Type locality: Taşova  
Distribution: Turkey

**Mediolata pentascuta** (Zaher et Gomaa)  
*Eupalopsis pentascuta* Zaher & Gomaa, 1979: 549  
*Mediolata pentascuta* (Zaher et Gomaa): Doğan & Ayyıldız, 2004: 92; Fan et al., 2016: 100  
Type locality: Egypt (Demiatta, Kafr Elshaikh)  
Distribution: Egypt

**Mediolata petilus** Doğan et Ayyıldız  
*Mediolata petilus* Doğan & Ayyıldız, 2004: 92; Doğan, 2007: 18; 2019: 134; Fan et al., 2016: 100  
Type locality: Agri, Erzincan, Erzurum  
Distribution: Turkey

**Mediolata pini** Canestrini  
*Mediolata pini* Canestrini, 1889: 525; González-Rodríguez, 1965: 9; Khaustov & Kuznetsov, 1997: 82; Kulikova, 2011: 57; Doğan et al., 2014: 5; Fan et al., 2016: 100; Doğan, 2019: 134  
*Eupalopsis pini* (Canestrini): Berlese, 1894: 71(10); Oudemans, 1923: 149; Summers, 1960a: 121


Eupalopsis punctulata Oudemans, 1923: 149; Syn. by Summers, 1960a: 121

Type locality: Doss Tavern, Trentino (Italy)

Distribution: Austria, Azerbaijan, Canada, Crimea, Egypt, Italy, Latvia, Moldavia, Poland, Switzerland, Turkey, Ukraine, USA

Mediolata polinae Kuznetsov

Mediolata polinae Kuznetsov, 1978: 52; Fan et al., 2016: 101

Type locality: Armenia

Distribution: Armenia

Mediolata polylocularis Fan et Zhang

Mediolata polylocularis Fan & Zhang, 2005: 72; Fan et al., 2016: 101

Type locality: Palmerston North, Massey University

Distribution: New Zealand

Mediolata robusta González-Rodríguez

Mediolata robusta González-Rodríguez, 1965: 15; 1971b: 59; Fan & Zhang, 2005: 73; Fan et al., 2016: 101

Type locality: Waitakere, nr. Auckland

Distribution: New Zealand

Mediolata roigi Faraji et Ueckermann

Mediolata roigi Faraji & Ueckermann, 2006: 31; Fan et al., 2016: 101

Type locality: Baldomar, Catalonia

Distribution: Spain

Mediolata ronaldi Laniecka

Mediolata ronaldi Laniecka in Ripka et al., 2013: 42; Fan et al., 2016: 101

Type locality: Szephalom, Borsod-Abauj County

Distribution: Hungary

Mediolata serrata Podder, Salva et Gupta

Mediolata serrata Podder, Salva & Gupta, 2005: 57; Fan et al., 2016: 101

Type locality: West Bengal, Calcutta

Distribution: India
**Mediolata similans** González-Rodríguez  
Type locality: Brenchley (England)  
Distribution: England, Israel

**Mediolata simplex** Wood  
Type locality: Lindis Pass summit, 900 m  
Distribution: New Zealand

**Mediolata turcica** Dönel et Doğan  
*Mediolata turcica* Dönel & Doğan, 2012: 685; Fan et al., 2016: 102; Doğan, 2019: 134  
Type locality: Köse Mountain  
Distribution: Turkey

**Mediolata uspenskii** Kuznetsov et Sizova  
*Mediolata uspenskii* Kuznetsov & Sizova, 1978: 61; Fan et al., 2016: 102  
Type locality: Uzbekistan  
Distribution: Uzbekistan

**Mediolata whenua** Fan et Zhang  
*Mediolata whenua* Fan & Zhang, 2005: 76; Fan et al., 2016: 102  
Type locality: Nelson, Isel Park  
Distribution: New Zealand

**Mediolata woodi** Fan et Zhang  
*Mediolata woodi* Fan & Zhang, 2005: 76; Fan et al., 2016: 102  
Type locality: Arthurs Pass, Bridal Veil  
Distribution: New Zealand

**Mediolata xerxes** Fan et Zhang  
*Mediolata xerxes* Fan & Zhang, 2005: 77; Fan et al., 2016: 103  
Type locality: Eves Bush  
Distribution: New Zealand

**Mediolata zonaria** Fan et Zhang  
*Mediolata zonaria* Fan & Zhang, 2005: 78; Fan et al., 2016: 103  
Type locality: Baton River  
Distribution: New Zealand
Genus *Mediostigmaeus* Fan et Walter

*Mediostigmaeus* Fan & Walter, 2005: 22

Type species: *Mediostigmaeus floridanus* Fan et Walter, 2005

*Mediostigmaeus citri* (Rakha et McCoy)

*Eryngiopus citri* Rakha & McCoy, 1984: 505

*Mediostigmaeus citri* (Rakha et McCoy): Fan & Walter, 2005: 23; Fan et al., 2016: 103

Type locality: Lake Alfred, Florida

Distribution: USA (Florida)

*Mediostigmaeus floridanus* Fan et Walter

*Mediostigmaeus floridanus* Fan & Walter, 2005: 23; Fan et al., 2016: 103

Type locality: Lake Adair, Orlando, Florida

Distribution: USA (Florida)

Genus *Mendanaia* Wood

*Mendanaia* Wood, 1971: 83

Type species: *Mendanaia longisetis* Wood, 1971

*Mendanaia longisetis* Wood

*Mendanaia longisetis* Wood, 1971: 83; Fan et al., 2016: 103

Type locality: Kusi, Kolombangara

Distribution: Solomon Islands

Genus *Mullederia* Wood

*Mullederia* Wood, 1964: 579

*Nonocaligus* Habeeb, 1966: 1

Type species: *Mullederia arborea* Wood, 1964

*Mullederia arborea* Wood


Type locality: NZ, Dun Mt track, Nelson, 320 m

Distribution: New Zealand, Campbell Island

*Mullederia filipina* Rimando et Corpuz-Raros

*Mullederia filipina* Rimando & Corpuz-Raros, 1996: 146; Fan et al., 2016: 104

Type locality: Mount Makiling, Laguna

Distribution: Philippines
**Mullederia parryorum** (Gupta)
*Ledermuelleria parryorum* Gupta, 1991: 219; 2002: 113
*Mullederia parryorum* (Gupta): Spongoski, 2008: 107; Fan et al., 2016: 104
Type locality: Arunachal Pradesh, Hyauling
Distribution: India

**Mullederia procurrens** Fan et Zhang
*Mullederia procurrens* Fan & Zhang, 2005: 80; Fan et al., 2016: 104
Type locality: Nelson; incorrect. = Kaikoura
Distribution: New Zealand

**Mullederia scutellaris** Fan et Zhang
*Mullederia scutellaris* Fan & Zhang, 2005: 80; Fan et al., 2016: 104
Type locality: Nelson, Riwaka R Nth Branch
Distribution: New Zealand

**Mullederia sichuanensis** Wang
Type locality: Sichuan
Distribution: China, Japan

Genus **Mullederiopsis** Rimando et Corpuz-Raros
*Mullederiopsis* Rimando & Corpuz-Raros, 1996: 151
Type species: *Mullederiopsis barrionae* Rimando et Corpuz-Raros, 1996

**Mullederiopsis barrionae** Rimando et Corpuz-Raros
*Mullederiopsis barrionae* Rimando & Corpuz-Raros, 1996: 152; Fan et al., 2016: 104
Type locality: Phillipines
Distribution: Phillipines

**Mullederiopsis plumata** Rimando et Corpuz-Raros
*Mullederiopsis plumata* Rimando & Corpuz-Raros, 1996: 154; Fan et al., 2016: 104
Type locality: Mount Makiling, Laguna
Distribution: Phillipines

Genus **Neilstigmaeus** Gerson et Smith-Meyer
Type species: *Neilstigmaeus lamingtoni* Gerson et Smith-Meyer, 1995
**Neilstigmaeus lamingtoni** Gerson et Smith-Meyer
*Neilstigmaeus lamingtoni* Gerson & Smith-Meyer, 1995: 219; Fan et al., 2016: 105
Type locality: Lamington National Park, Queensland
Distribution: Australia

Genus **Nonocaligus** Habeeb
*Nonocaligus* Habeeb, 1966: 1
Type species: *Ledermülleria neomaculata* Meyer et Ryke, 1960

**Nonocaligus centrata** (Meyer)
*Nonocaligus centrata* (Meyer): Fan & Ueckermann, 2016: 1448; Fan et al., 2016: 105
Type locality: Mariepskop, Transvaal
Distribution: South Africa

**Nonocaligus neomaculata** (Meyer et Ryke)
*Ledermülleria neomaculata* Meyer & Ryke, 1960: 216
*Nonocaligus neomaculata* (Meyer et Ryke): Habeeb, 1966; Fan & Ueckermann, 2016: 1447
Type locality: Grabouw
Distribution: South Africa

Genus **Parastigmaeus** Kuznetsov
*Parastigmaeus* Kuznetsov, 1984: 1105
Type species: *Pseudostigmaeus capensis* Meyer, 1969

**Parastigmaeus andreae** Khanjani et Ueckermann
*Parastigmaeus andreae* Khanjani & Ueckermann, 2002: 319; Beyzavi et al., 2013: 401
Type locality: Hamedan
Distribution: Iran

**Parastigmaeus capensis** (Meyer)
*Pseudostigmaeus capensis* Meyer, 1969: 246
Type locality: Du Toitskloof, Cape Province
Distribution: South Africa

**Parastigmaeus urmiaensis** Doustaresharaf, Bagheri et Saber
*Parastigmaeus urmiaensis* Doustaresharaf, Bagheri & Saber, 2019: 263
Type locality: Urmia
Distribution: Iran

Genus *Pilonychiopus* Meyer
*Pilonychiopus* Meyer, 1969: 239
Type species: *Pilonychiopus cliffortus* Meyer, 1969
Type species: *Austrostigmaeus walteri* Fan et Beard, 2006

*Pilonychiopus cliffortus* Meyer
Type locality: Zuurberg, C.P.
Distribution: South Africa

*Pilonychiopus hallidayi* Ueckermann
*Pilonychiopus hallidayi* Ueckermann, 2008: 254; Fan et al., 2016: 107
Type locality: Cape Town
Distribution: South Africa

*Pilonychiopus walteri* (Fan et Beard)
*Austrostigmaeus walteri* Fan & Beard, 2006: 38
*Pilonychiopus walteri* (Fan et Beard): Ueckermann, 2008: 257; Fan et al., 2016: 107
Type locality: Kimberley, Galvan Gorge, Western Australia
Distribution: Australia (WA).

Genus *Postumius* Kuznetsov
*Postumius* Kuznetsov, 1977: 301
Type species: *Postumius tectus* Kuznetsov, 1977

*Postumius gloriosus* Kuznetsov
*Postumius gloriosus* Kuznetsov, 1978: 51; Fan et al., 2016: 108
Type locality: Russia
Distribution: “URSS”

*Postumius tectus* Kuznetsov
Type locality: Voronezh
Distribution: Russia, Greece
Genus *Primagistemus* Fan et Zhang
*Primagistemus* Fan & Zhang, 2002: 2
Type species: *Stigmaeus loadmani* Wood, 1967

*Primagistemus loadmani* (Wood)
*Stigmaeus loadmani* Wood, 1967: 102
*Primagistemus loadmani* (Wood): Fan & Zhang, 2002; 2005: 81; Fan et al., 2016: 108
Type locality: Ruby Bay, Nelson
Distribution: New Zealand

*Primagistemus wuyiensis* Fan et Zhang
Type locality: Mt. Wuyi, Fujian
Distribution: China

Genus *Prostigmaeus* Kuznetsov
*Prostigmaeus* Kuznetsov, 1984: 1105
Type species: *Prostigmaeus tauricus* Kuznetsov, 1984

*Prostigmaeus integrius* Dönel et Doğan
*Prostigmaeus integrius* Dönel & Doğan, 2011: 33; Fan et al., 2016: 109; Doğan, 2019: 134
Type locality: Reşadiye
Distribution: Turkey

*Prostigmaeus khanjanii* Bagheri et Ghorbani
*Prostigmaeus khanjanii* Bagheri & Ghorbani, 2010: 123; Beyzavi et al., 2013: 401; Khanjani, Amini & Khanjani, 2015: 55; Fan et al., 2016: 109
Type locality: Maragheh, Yusofabad Village, East Azerbaijan, Prov.
Distribution: Iran

*Prostigmaeus molaviae* Khanjani, Asali Fayaz et Doğan
*Prostigmaeus molaviae* Khanjani, Asali Fayaz & Doğan, 2012: 28; Beyzavi et al., 2013: 401; Fan et al., 2016: 109
Type locality: Salehabad City, Hamedan Prov.
Distribution: Iran

*Prostigmaeus tauricus* Kuznetsov
*Prostigmaeus tauricus* Kuznetsov, 1984: 106; Bagheri et al., 2010: 126; Dönel & Doğan, 2011: 33; Khanjani et al., 2012: 27; Fan et al., 2016: 109
Type locality: Crimea
Distribution: Crimea
**Prostigmaeus vrystaatensis** Ueckermann et Smith-Meyer
Type locality: Orange Free State, Edenville
Distribution: South Africa

Genus *Pseudostigmaeus* Wood
*Pseudostigmaeus* Wood, 1967: 107
Type species: *Pseudostigmaeus collyerae* Wood, 1967

**Pseudostigmaeus arboricolus** Momen
*Pseudostigmaeus arboricolus* Momen, 1987: 227; Fan et al., 2016: 109
Type locality: Belfield, Dublin
Distribution: Ireland

**Pseudostigmaeus collyerae** Wood
Type locality: NZ, N. Egmont Chalet, 1000 m
Distribution: New Zealand, Campbell Island

**Pseudostigmaeus jhangensis** Khan, Bashir, Afzal, Honey et Ahmad
*Pseudostigmaeus jhangensis* Khan, Bashir, Afzal, Honey & Ahmad, 2015: 146; Rehman et al., 2016: 1275; Fan et al., 2016: 110
Type locality: Jhang
Distribution: Pakistan

**Pseudostigmaeus longisetis** Wood
*Pseudostigmaeus longisetis* Wood, 1971a: 677; Fan & Zhang, 2005: 85; Fan et al., 2016: 110
Type locality: Beeman Hill
Distribution: Campbell Island

**Pseudostigmaeus schizopeltatus** Fan et Zhang
*Pseudostigmaeus schizopeltatus* Fan & Zhang, 2005: 86; Fan et al., 2016: 110
Type locality: Kahikatea
Distribution: New Zealand

**Pseudostigmaeus magellani** Khaustov
*Pseudostigmaeus magellani* Khaustov, 2016b: 668
Type locality: Region of Magallanes
Distribution: Chile
**Pseudostigmaeus solanumus** Saeed Khan, Afzal, Bashir, Farooq et Ghaffar
*Pseudostigmaeus solanumus* Saeed Khan, Afzal, Bashir, Farooq & Ghaffar, 2019: 202
Type locality: Muzafargarh, Punjab
Distribution: Pakistan

**Pseudostigmaeus striatus** Wood
Type locality: McLennan’s Bush, W. of Methven [as Methuan], 300 m
Distribution: New Zealand

**Pseudostigmaeus ueckermanni** Fan et Liu
*Pseudostigmaeus ueckermanni* Fan & Liu, 1999: 156; Fan & Chen, 2010: 128; Fan et al., 2016: 111
Type locality: Mount Wuyi, Xianfengling; Fujian
Distribution: China

Genus *Scutastigmaeus* Fan et Zhang
*Scutastigmaeus* Fan & Zhang, 2005: 88
Type species: *Stigmaeus confusus* Wood, 1967

**Scutastigmaeus confusus** (Wood)
*Stigmaeus confusus* Wood, 1967: 106
*Scutastigmaeus confusus* (Wood): Fan & Zhang, 2005: 89; Fan et al., 2016: 111
Type locality: Waitakere Range, 200 m
Distribution: New Zealand

**Scutastigmaeus longisetis** (Wood)
*Stigmaeus longisetis* Wood, 1967: 105
*Scutastigmaeus longisetis* (Wood): Fan & Zhang, 2005: 90; Fan et al., 2016: 111
Type locality: Mt Egmont, 900 m
Distribution: New Zealand

**Scutastigmaeus montanus** (Wood)
*Stigmaeus montanus* Wood, 1981: 374
*Scutastigmaeus montanus* (Wood): Fan & Zhang, 2005: 90; Fan et al., 2016: 111
Type locality: [L. Manapouri], Turrett Range, Mt Grey, 1250 m
Distribution: New Zealand

Genus *Stigmaeus* C.L. Koch
*Stigmaeus* C.L. Koch, 1836: fasc. 4, No 9
Stigmaeodes G. Canestrini, 1889: 512
Type species: Stigmaeus cruentus C.L. Koch, 1836 [Incertae sedis?]
Stigmaeus confinis Berlese, 1910: 205 [nomen nudum; Italy]. Vega et al., 2007: 293 – Java

Stigmaeus additicius Dönel et Doğan
Stigmaeus additicius Dönel & Doğan, 2011: 38; Fan et al., 2016: 112; Barbar, 2018: 922
Type locality: Niksar (Turkey)
Distribution: Syria, Turkey

Stigmaeus alvandis Khanjani et Ueckermann
Stigmaeus alvandis Khanjani & Ueckermann, 2002: 331; Beyzavi et al., 2013: 401; Fan et al., 2016: 112
Type locality: Hamedan
Distribution: Iran

Stigmaeus amasyanus Dönel, Doğan, Sevsay et Bal
Stigmaeus amasyanus Dönel, Doğan, Sevsay & Bal, 2012: 589; Fan et al., 2016: 112
Type locality: Amasya
Distribution: Turkey

Stigmaeus angustus Dönel et Doğan
Stigmaeus angustus Dönel & Doğan, 2011: 38; Fan et al., 2016: 112
Type locality: Gölova, Kelkit Valley
Distribution: Turkey

Stigmaeus anomalus Willmann
Type locality: Gstatterboden, Gesäuse
Distribution: Austria, Switzerland

Stigmaeus arboricola Wood
Stigmaeus arboricola Wood, 1981: 376; Fan & Zhang, 2005: 92; Fan et al., 2016: 112
Type locality: Palmers Bush, Waimea Plain
Distribution: New Zealand

Stigmaeus ayyildizi Dönel et Doğan
Stigmaeus ayyildizi Dönel & Doğan, 2011: 36; Dönel et al., 2012: 586; Fan et al., 2016: 113; Barbar, 2018: 923
Type locality: Reşadiye – Niksar (Turkey)
Distribution: Syria, Turkey
**Stigmaeus banksi** Gomaa et Hassan  
*Stigmaeus banksi* Gomaa & Hassan, 2016: 113  
Type locality: Giza ad ElQualyabia  
Distribution: Egypt

**Stigmaeus bdelloides** (C.L. Koch)  
*Caligonus bdelloides* C.L. Koch, 1838: 19  
*Stigmaeus bdelloides* (C.L. Koch): Oudemans, 1931: 255; Franz, 1954: 365; Fan et al., 2016: 113  
*Storchia bdelloides* (C.L. Koch): Franz & Beier, 1948: 474  
Type locality: Regensburg, Germany  
Distribution: Austria, Germany

**Stigmaeus bellatrus** Smith-Meyer et Ueckermann  
*Stigmaeus bellatrus* Smith-Meyer & Ueckermann, 1989: 45; Fan et al., 2016: 113  
Type locality: Edenville, Orange Free State  
Distribution: South Africa

**Stigmaeus berwariensis** Uluçay  
*Stigmaeus berwariensis* Uluçay, 2015: 216; Fan et al., 2016: 113  
Type locality: Berwari  
Distribution: Turkey

**Stigmaeus bicolor** Canestrini et Fanzago (species inquirenda)  
*Stigmaeus bicolor* Canestrini & Fanzago, 1876: 139; Bernini et al., 1995  
Type locality: Italy  
Distribution: Italy

**Stigmaeus bifurcus** Bingül, Doğan et Dilkaraoğlu  
*Stigmaeus bifurcus* Bingül, Doğan & Dilkaraoğlu, 2017: 4  
Type locality: Erzincan, 1275 m  
Distribution: Turkey

**Stigmaeus boshroyehensis** Khanjani, Izadi, Asali-Fayaz, Raisi, Rostami et Doğan  
*Stigmaeus boshroyehensis* Khanjani, Izadi, Asali-Fayaz, Raisi, Rostami & Dogan, 2010: 36; Mohammadi, Khanjani & Nazari, 2013: 24; Beyzavi et al., 2013: 401; Navaei-Bonab et al., 2015: 377; Fan et al., 2016: 113  
Type locality: Boshroyeh, South Khorasan Province  
Distribution: Iran
**Stigmaeus brasiliensis** Paktinat-Saeij, Bagheri, Muñoz Marticorena et de Moraes

*Stigmaeus brasiliensis* Paktinat-Saeij, Bagheri, Muñoz Marticorena & de Moraes, 2016: 282

Type locality: Valparaiso and Ipaussu, São Paulo State
Distribution: Brazil

**Stigmaeus brevisetis** Wood

*Stigmaeus brevisetis* Wood, 1967: 102; Fan & Zhang, 2005: 93; Fan et al., 2016: 114

Type locality: Kurow, Otago
Distribution: New Zealand

**Stigmaeus caeculus** Barilo

*Stigmaeus caeculus* Barilo, 1989: 136; Faraji & Ueckermann, 2006b: 88; Noei et al., 2007: 154; Fan et al., 2016: 114

Type locality: Baysun, Surhandariyskaya obl.
Distribution: Tadjikistan, Uzbekistan

**Stigmaeus caecus** Ueckermann et Smith-Meyer


Type locality: Orange Free State, between Ladybrand and Cocolan
Distribution: South Africa

**Stigmaeus callunae** Evans


Type locality: Devon
Distribution: England, Estonia, Japan, Kazakhstan, Latvia

**Stigmaeus campbellensis** Wood

*Stigmaeus campbellensis* Wood, 1971a: 677; Fan & Zhang, 2005: 94; Fan et al., 2016: 114

Type locality: Perseverance Harbour, Lookout Bay
Distribution: Campbell Island

**Stigmaeus candidus** Fan et Li

*Stigmaeus mazandaranicus* Faraji & Ueckermann, 2006: 70; Syn. by Noei et al., 2007: 153
Type locality: Chongqing, Hechuan (China)
Distribution: China, Iran

*Stigmaeus canestrinii* Stathakis, Kapaxidi et Papadoulis
*Stigmaeus canestrinii* Stathakis, Kapaxidi & Papadoulis, 2019: 2016
Type locality: Cape Tenaro, Co. Laconia
Distribution: Greece

*Stigmaeus cariae* Khanjani, Pishehvar, Mirmoayedi et Khanjani
*Stigmaeus cariae* Khanjani, Pishehvar, Mirmoayedi & Khanjani, 2012: 504; Mohammadi, Khanjani & Nazari, 2013: 24; Fan et al., 2016: 115
Type locality: Hamedan
Distribution: Iran

*Stigmaeus cataloniensis* Faraji et Ueckermann
*Stigmaeus cataloniensis* Faraji & Ueckermann, 2006: 89; Fan et al., 2016: 115
Type locality: Baldomar, Catalunia
Distribution: Spain

*Stigmaeus cervarius* Tseng
*Stigmaeus cervarius* Tseng, 1982: 46; Fan & Chen, 2010: 128; Fan et al., 2016: 115
Type locality: Hualien City
Distribution: Taiwan

*Stigmaeus ceylanii* Uluçay
*Stigmaeus ceylanii* Uluçay, 2015: 36; Fan et al., 2016: 115
Type locality: Iskenderun, Hatay
Distribution: Turkey

*Stigmaeus choeradi* Ueckermann et Smith-Meyer
Type locality: host *Galenia sarcophylla* (plant); Hogsback, Ciskei
Distribution: South Africa

*Stigmaeus claviformis* Stathakis, Kapaxidi et Papadoulis
*Stigmaeus claviformis* Stathakis, Kapaxidi & Papadoulis, 2019: 2045
Type locality: Katsimidi, Attiki and others
Distribution: Greece
**Stigmaeus clitellus** Summers
*Stigmaeus clitellus* Summers, 1962: 499; Faraji & Ueckermann, 2006b: 88; Doğan et al., 2014: 5; Fan et al., 2016: 115
Type locality: Brookings, Oregon
Distribution: Poland, USA

**Stigmaeus comatulus** C.L. Koch (species inquirenda)
*Stigmaeus comatulus* C.L. Koch, 1838: 2
Type locality: Germany
Distribution: Germany, USA

**Stigmaeus comatus** Summers
*Stigmaeus comatus* Summers, 1962: 502; Fan et al., 2016: 116
Type locality: Cajon Pass Summit, San Bernardino Co., California
Distribution: USA

**Stigmaeus communis** Doğan, Doğan et Erman
*Stigmaeus communis* Doğan, Doğan & Erman, 2017: 452
Type locality: Harşit Valley
Distribution: Turkey

**Stigmaeus constrictus** Summers
*Stigmaeus constrictus* Summers, 1962: 518; Noei et al., 2007: 134; Faraji & Ueckermann, 2008b: 88; Fan et al., 2016: 116; Da-Costa et al., 2018: 715
Type locality: Lake Pillsbury, Napa Co., California
Distribution: Brazil, USA

**Stigmaeus corticeus** Kuznetsova et Wainstein
Type locality: Kazan (Tatarstan, Russia)
Distribution: Crimea, France, Iran, Poland, Russia (Tatarstan), Slovakia, Ukraine

**Stigmaeus creber** Barilo
*Stigmaeus creber* Barilo, 1986: 25; Faraji & Ueckermann, 2006b: 88; Noei et al., 2007: 154; Uluçay, 2015: 288; Fan et al., 2016: 116; Stathakis, Kapaxidi & Papadoulis, 2019: 2064
Type locality: South of Samarkand (Uzbekistan)
Distribution: Greece (incl. Crete), Turkey, Uzbekistan
Stigmaeus cruentus C.L. Koch
*Stigmaeus cruentus* C.L. Koch, 1836: 9 [Incertae sedis?]
Type locality: Germany
Distribution: Germany

Stigmaeus dazkiriensis Akyol et Koç
*Stigmaeus dazkiriensis* Akyol & Koç, 2007: 43; Dönel et al., 587; Fan et al., 2016: 116
Type locality: Dazkiri
Distribution: Turkey

Stigmaeus delaramae Khanjani
*Stigmaeus delaramae* Khanjani in: Khanjani, Nasrollah, Zamani & Azalifeyaz, 2014: 374;
Khanjani et al., 2015a: 58; Khaustov, 2015; Fan et al., 2016: 116; Stathakis, Kapaxidi & Papadoulis, 2019: 2076
Type locality: Yaghob Abad village, Baneh vicinity, Kurdistan (Iran)
Distribution: Greece, Iran, Russia

Stigmaeus devlethanensis Akyol et Koç
*Stigmaeus devlethanensis* Akyol & Koç, 2007: 45; Dönel & Doğan, 2011: 49; Fan et al., 2016: 117
Type locality: Devlethane
Distribution: Turkey

Stigmaeus dignus Kuznetzov
*Stigmaeus dignus* Kuznetzov, 1978: 691; Faraji & Ueckermann, 2006b: 88; Noei et al., 2007: 154; Fan et al., 2016: 117
Type locality: Yaroslavskaya Obl., Borok, Sunozhka River
Distribution: Russia

Stigmaeus diversus Barilo
*Stigmaeus diversus* Barilo, 1987: 1097; Faraji & Ueckermann, 2006b: 89; Noei et al., 2007: 154; Fan et al., 2016: 117; Doustaresharaf & Bagheri, 2019
Type locality: Uzbekistan
Distribution: Iran, Uzbekistan

Stigmaeus dogani Akyol
*Stigmaeus dogani* Akyol, 2019: 582
Type locality: Acýpayam District, Denizli Province
Distribution: Turkey
**Stigmaeus echinopus** Summers

*Stigmaeus echinopus* Summers, 1962: 508; Khaustov & Kuznetsov, 1997: 83; Ahaniazad et al., 2013: 341; Khanjani et al., 2014d: 376; Fan et al., 2016: 117

Type locality: Old Dairy Barn, Davis, California

Distribution: Iran, Ukraine, USA

**Stigmaeus elongatus** Berlese


*Stigmaeodes elongatus*: Canestrini, 1889: 448

*Stigmaeus luteus* Summers, 1962: 516; syn. by Wood, 1973: 80; as species by Haddad Irani-Nejad et al., 2005 and Bayzavi et al., 2013: 402

Type locality: Stalle, Firenze (Italy)

Distribution: Argentina, China, Crimea, Egypt, England, Greece, Iran, Italy, Philippines, Turkey, USA

**Stigmaeus ericaceus** Van-Dis et Ueckermann

*Stigmaeus ericaceus* Van-Dis & Ueckermann, 1993: 118; Fan et al., 2016: 118

Type locality: Mhlonhlo, Cathedral Peak, Natal

Distribution: South Africa

**Stigmaeus erzincanus** Doğan, Bingül, Dilkaraoglu et Fan

*Stigmaeus erzincanus* Doğan, Bingül, Dilkaraoglu & Fan, 2015: 290; Fan et al., 2016: 118; Stathakis, Kapaxidi & Papadoulis, 2019: 2023

Type locality: Erzincan (Turkey)

Distribution: Greece, Turkey

**Stigmaeus fidelis** Kuznetzov

*Stigmaeus fidelis* Kuznetzov, 1978: 690; Özçelik & Doğan, 2011: 702; Fan et al., 2016: 118

Type locality: Megri (Armenia)

Distribution: Armenia, Turkey

**Stigmaeus fimus** Doğan, Doğan et Erman

*Stigmaeus fimus* Doğan, Doğan & Erman, 2017: 456

Type locality: Harşit Valley

Distribution: Turkey
**Stigmaeus fissicomus** Ueckermann et Smith-Meyer
Type locality: Vaalharts Res. Station, Jan Kempdorp, Cape Province
Distribution: Iran, Namibia, South Africa

**Stigmaeus fissuricolus** Halbert
*Stigmaeus rhodomelas* var. *fissuricola* Halbert, 1920: 143
Type locality: Malahide
Distribution: Ireland, Japan, Malaysia

**Stigmaeus flexisetus** Khaustov
*Stigmaeus flexisetus* Khaustov, 2016: 657
Type locality: Punta Arenas
Distribution: Chile

**Stigmaeus furcatus** Dönel et Doğan
*Stigmaeus furcatus* Dönel & Doğan, 2011: 42; Dönel et al., 2012: 587; Fan et al., 2016: 119
Type locality: Erbaa
Distribution: Turkey

**Stigmaeus fusus** Summers
*Stigmaeus fusus* Summers, 1962: 512; Faraji & Ueckermann, 2006b: 89; Fan et al., 2016: 119
Type locality: Cobb Mountain, Lake Co., California
Distribution: USA

**Stigmaeus glabrisetus** Summers
*Stigmaeus glabrisetus* Summers, 1962: 505; Dönel & Doğan, 2011: 47; Özçelik & Doğan, 2011: 703; Dönel et al., 2012: 587; Doğan et al., 2014: 8; Fan et al., 2016: 119
Type locality: Green Valley, Solano Co., California
Distribution: Canada, Poland, Turkey, USA

**Stigmaeus glypticus** Summers
Acarorum Catalogus VII 217

Type locality: Amherst, Massachusetts
Distribution: Canada, Crimea, Iran, Ukraine, USA

**Stigmaeus gracilimus** Summers
-Stigmaeus gracilimus* Summers, 1962: 520; McDaniel, 1979: 179; Fan et al., 2016: 120
Type locality of *S. gracilimus*: Lincoln, Lancaster Co., Nebraska
Distribution: Solomon Islands, USA

**Stigmaeus graminis** Stathakis, Kapaxidi et Papadoulis
-Stigmaeus graminis* Stathakis, Kapaxidi & Papadoulis, 2019: 2070
Type locality: Korinos, Co Pieria; Kallithaea, Co. Larissa
Distribution: Greece

**Stigmaeus grandis** Khaustov, Ueckermann et Theron
-Stigmaeus grandis* Khaustov, Ueckermann & Theron, 2017: 1414; Fan, Flechtmann & Moraes, 2019: 92
Type locality: Potchefstroom
Distribution: South Africa

**Stigmaeus haddadi** Bagheri et Zarei
Type locality: Miandoab, West Azerbaijan Prov.
Distribution: Iran

**Stigmaeus harsitensis** Doğan, Doğan et Erman
-Stigmaeus harsitensis* Doğan, Doğan & Erman, 2017: 463; Stathakis, Kapaxidi & Papadoulis, 2019: 2059; Fan, Flechtmann & Moraes, 2019: 92
Type locality: Harşit Valley (Turkey)
Distribution: Greece, Turkey

**Stigmaeus hashtrudiensis** Bagheri et Maleki
-Stigmaeus hashtrudiensis* Bagheri & Maleki, in: Bagheri et al., 2014c: 122; Khanjani et al., 2014d: 375; Uluçay, 2015: 290; Fan et al., 2016: 120
Type locality: Iran, Makou, West Azarbaijan Province
Distribution: Iran, Turkey

**Stigmaeus hericius** (Berlese)
*Raphignathus hericius* Berlese, 1910: 347
**Stigmuse hercicus** (Berlese): Wood, 1973: 81; Fan et al., 2016: 120
Type locality: Duke City, Florida
Distribution: USA

**Stigmuse impressus** Wood
**Stigmuse impressus** Wood, 1971: 68; Fan et al., 2016: 120
Type locality: Lunga Beach, Guadalcanal
Distribution: Solomon Islands

**Stigmuse indivisus** Doğan
**Stigmuse indivisus** Doğan, 2019: 143; Fan, Flechtmann & Moraes, 2019: 91
Type locality: Erzincan
Distribution: Turkey

**Stigmuse insectus** Willmann
**Stigmuse insectus** Willmann, 1953: 490; Summers, 1962: 522; Faraji & Ueckermann, 2006b: 89; Fan et al., 2016: 120
Type locality: Austrian Alps
Distribution: Austria, Switzerland

**Stigmuse iranensis** Bagheri & Gheblealivand
**Stigmuse iranensis** Bagheri & Gheblealivand, 2012: 44, in: Bagheri, Gheblealivand & Gorbani, 2012a; Mohammadi, Khanjani & Nazari, 2013: 24; Beyzavi et al., 2013: 402; Navaei-Bonab et al., 2015: 376; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Fan et al., 2016: 121
Type locality: Bonab, East Azerbaijan Prov.
Distribution: Iran

**Stigmuse isfahaniensis** Bagheri, Jafari & Saboori
**Stigmuse isfahaniensis** Bagheri, Jafari & Saboori, 2014: 152; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Fan et al., 2016: 121
Type locality: Isfahan
Distribution: Iran

**Stigmuse jalili** Fakhari, Khanjani, Rahmani & Khanjani
**Stigmuse jalili** Fakhari, Khanjani, Rahmani & Khanjani, 2015: 783; Fan et al., 2016: 121
Type locality: Taham, Zanjan Prov., Iran
Distribution: Iran
**Stigmaeus kamili** Doğan et Ayyıldız
*Stigmaeus kamili* Doğan & Ayyıldız, 2003: 3; Faraji & Ueckermann, 2006b: 88; Noei et al., 2007: 154; Doğan, 2007: 19; Dönel et al., 2012: 586; Ahaniazad et al., 2014; Fan et al., 2016: 121
Type locality: Turkey: Erzurum, Gümüşhane
Distribution: Iran, Turkey

**Stigmaeus karabagiensis** Akyol et Koç
*Stigmaeus karabagiensis* Akyol & Koç, 2007: 47; Dönel et al., 2012: 586; Fan et al., 2016: 121
Type locality: Karabag
Distribution: Turkey

**Stigmaeus kelkitensis** Dönel et Doğan
*Stigmaeus kelkitensis* Dönel & Doğan, 2011: 43; Dönel et al., 2012: 587; Fan et al., 2016: 121
Type locality: between Reşadiye – Koyulhisar, Kelkit Valley
Distribution: Turkey

**Stigmaeus kermaniensis** Changizi et Bagheri
*Stigmaeus kermaniensis* Changizi & Bagheri, 2012: 78, in: Changizi, Bagheri & Azadi, 2012; Beyzavi et al., 2013: 402; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Fan et al., 2016: 121
Type locality: Kerman
Distribution: Iran

**Stigmaeus kermanshahiensis** Khanjani, Pishehvar, Mirmoayedi et Khanjani
*Stigmaeus kermanshahiensis* Khanjani, Pishehvar, Mirmoayedi & Khanjani, 2012: 507; Beyzavi et al., 2013: 402; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Fan et al., 2016: 122
Type locality: Kermanshah
Distribution: Iran

**Stigmaeus kochi** Stathakis, Kapaxidi et Papadoulis
*Stigmaeus kochi* Stathakis, Kapaxidi & Papadoulis, 2019: 2025
Type locality: Argastiri, Co. Chania, Crete
Distribution: Greece

**Stigmaeus kumalariensis** Akyol et Koç
*Stigmaeus kumalariensis* Akyol & Koç, 2007: 41; Dönel et al., 2012: 587; Uluçay, 2015c: 263; Fan et al., 2016: 122; Stathakis, Kapaxidi & Papadoulis, 2019: 2048
Type locality: Afyonkarahisar (Turkey)
Distribution: Greece, Turkey
**Stigmaeus kurdistaniensis** Khanjani, Amini et Khanjani
*Stigmaeus kurdistaniensis* Khanjani, Amini & Khanjani, 2015: 50; Fan et al., 2016: 122
Type locality: Kurdistan, Ghorveh City
Distribution: Iran

**Stigmaeus kuznetsovi** Khaustov
*Stigmaeus kuznetsovi* Khaustov, 2014: 241; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Fan et al., 2016: 122
Type locality: Yalta mountain, 1200 m
Distribution: Crimea

**Stigmaeus ladanae** Nazari, Khanjani et Kamali
*Stigmaeus ladanae* Nazari, Khanjani & Kamali, 2012: 175; Mohammadi, Khanjani & Nazari, 2013: 24; Beyzavi et al., 2013: 402; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Fan et al., 2016: 122
Type locality: Hamedan, soil beneath apple trees
Distribution: Iran

**Stigmaeus lapponica** (Trägårdh)
*Raphignathus siculus* var. *lapponica* Trägårdh, 1910: 471
*Stigmaeus lapponica* (Trägårdh): [as var. of *siculus*; Austria]
Type locality: Sarekgebirge
Distribution: Sweden

**Stigmaeus livschitzi** Kuznetsov
Type locality: Grjazi, Lipeckaya oblast
Distribution: Russia, Turkey

**Stigmaeus longiclipeatus** Doğan, Doğan et Erman
*Stigmaeus longiclipeatus* Doğan, Doğan & Erman, 2017: 471; Fan, Flechtmann & Moraes, 2019: 91
Type locality: Harşit Valley
Distribution: Turkey

**Stigmaeus longipilis** (Canestrini)
*Stigmaeodes elongatus* var. *longipilis* Canestrini, 1889: 449
*Stigmaeus* (*Stigmaeus*) *longipilis* (Canestrini): Berlese, 1910: 205
*Storchia longipilis*: Oudemans, 1923: 150
Stigmaeus pongipilis [sic!]: Aslanov, 2005: 177
Type locality: Mugello, Firenze, Padova, Vallombrosa (Italy)
Distribution: Austria, Azerbaidjan, Canada, Crimea, Czech Rep., Estonia, Germany, Greece, Greenland, Iran, Italy, Latvia, Lituania, Moldavia, Poland, Russia, Slovakia, Switzerland, Turkey, Ukraine, USA

Stigmaeus longisetosus Liang et Hu
Type locality: Nanjing, Fujian
Distribution: China

Stigmaeus lucaris Summers
Stigmaeus lucaris Summers, 1962: 514; Fan et al., 2016: 123
Type locality: Alturas, Modoe Co., California
Distribution: USA

Stigmaeus luxtoni Wood
Stigmaeus turcica Doğan, 2003: 383
Type locality: Rukuhia (NZ)
Distribution: New Zealand, Turkey

Stigmaeus macroposbus Liang et Hu
Type locality: Huangshan, Anhui
Distribution: China

Stigmaeus makouiensis Bagheri et Maleki
Stigmaeus makouiensis Bagheri & Maleki, in: Bagheri, Maleki & Paktinad-Saeej, 2013: 551; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Fan et al., 2016: 124
Type locality: Makou, West Azerbaijan Province
Distribution: Iran
**Stigmaeus malekii** Haddad Irani-Nejad, Bagheri et Khanjani

*Stigmaeus malekii* Haddad Irani-Nejad, Bagheri & Khanjani, 2006: 58, in Haddad et al., 2006; Kanjani et al., 2010a: 35; Bagheri et al., 2011c: 185; 2012a: 47; Rostami et al., 2012; Bayzavi et al., 2013: 403; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Fan et al., 2016: 124

Type locality: Tabriz, East Azarbaijan

Distribution: Iran

**Stigmaeus maraghehiensis** Bagheri et Ueckermann

*Stigmaeus maraghehiensis* Bagheri & Ueckermann, 2012: 36, in: Bagheri et al., 2012c; Khanjani et al., 2012d: 512; Beyzavi et al., 2013: 403; Khaustov, 2014b: 246; Khanjani et al., 2015a: 57; Fan et al., 2016: 124; Stathakis, Kapaxidi & Papadoulis, 2019: 2031

Type locality: Maragheh, East Azerbaijan Prov., Northwest Iran

Distribution: Crimea, Greece, Iran

**Stigmaeus marandiensis** Bagheri et Ueckermann

*Stigmaeus marandiensis* Bagheri & Ueckermann, 2011: 182, in: Bagheri et al., 2011c; Bagheri et al., 2012a: 47; Bagheri & Zarei, 2012: 446; Khanjani et al., 2012d: 513; Beyzavi et al., 2013: 403; Navaei-Bonab et al., 2015: 377; Fan et al., 2016: 125

Type locality: Marand, East Azerbaijan Prov.

Distribution: Iran

**Stigmaeus megacephalus** C.L. Koch – Species inquirenda

*Stigmaeus megacephalus* C.L. Koch, 1836: 10

Type locality: Regensburg

Distribution: Germany

**Stigmaeus miandoabiensis** Bagheri et Zarei

*Stigmaeus miandoabiensis* Bagheri & Zarei, 2012: 442; Hajizadeh et al., 2013: 572; Beyzavi et al., 2013: 403; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Navaei-Bonab et al., 2015: 376; Fan et al., 2016: 125

Type locality: Miandoab, West Azarbaijan Prov.

Distribution: Iran

**Stigmaeus microtuberculatus** Summers

*Stigmaeus microtuberculatus* Summers, 1962: 506; Fan et al., 2016: 125

Type locality: Soda Springs, Nevada County, California

Distribution: USA

**Stigmaeus mimiae** Tseng

*Stigmaeus mimiae* Tseng, 1982: 48; Fan & Chen, 2010: 128; Fan et al., 2016: 125
Type locality: Sweswe, Hualien Hsien
Distribution: Taiwan

**Stigmaeus mimus** Summers
Type locality: Fort Huachuca, Coehise Co., Arizona
Distribution: Iran, Latvia, Russia, USA

**Stigmaeus mitrofanovi** Khaustov
*Stigmaeus mitrofanovi* Khaustov, 2014: 238; Fan et al., 2016: 125
Type locality: Yalta mountain, 1200 m
Distribution: Crimea

**Stigmaeus mollibus** Khaustov
*Stigmaeus mollibus* Khaustov, 2016: 337; Fan et al., 2016: 126
Type locality: Lake Kuchak, Tyumen Province
Distribution: Russia

**Stigmaeus nahavandicus** Khanjani, Khanjani, Nadri, Mohammadi et Nazari
*Stigmaeus nahavandicus* Khanjani, Khanjani, Nadri, Mohammadi & Nazar, 2017: 816; Fan, Flechtmann & Moraes, 2019: 91
Type locality: Nahavand city, Hamedan province
Distribution: Iran

**Stigmaeus nasrinae** Nazari, Khanjani et Kamali
*Stigmaeus nasrinae* Nazari, Khanjani & Kamali, 2012: 177; Navaei-Bonab et al., 2012: 61; Bayzavi et al., 2013: 403; Fakhari et al., 2014: 191; Khanjani et al., 2014d: 375; Khanjani et al., 2015a: 57; Rahmati et al., 2015: 411; Fan et al., 2016: 126
Type locality: Nahavand, Hamedan province, soil under *Apera spica-venti*
Distribution: Iran

**Stigmaeus nikitensis** Kuznetzov
Type locality: Crimea, Nikitskiy Bot. Sad
Distribution: Crimea, Greece, Hungary

**Stigmaeus novazealandicus** Wood
Type locality: Dun Mountain
Distribution: New Zealand

**Stigmaeus obtectus** Summers
Type locality: Silverton, Colorado
Distribution: Greece, Turkey, USA

**Stigmaeus palustris** Khaustov
*Stigmaeus palustris* Khaustov, 2016: 651
Type locality: Punta Arenas
Distribution: Chile

**Stigmaeus pampaensis** Da-Costa et Johann
*Stigmaeus pampaensis* Da-Costa & Johann, 2018: 716
Type locality: São-Francisco de Assis, Rio Grande do Sul
Distribution: Brazil

**Stigmaeus parmatus** Summers
Type locality: Point Barrow, Alaska
Distribution: Canada, Greenland, USA

**Stigmaeus patagoniensis** Khaustov
*Stigmaeus patagoniensis* Khaustov, 2016: 664
Type locality: Region of Magallanes
Distribution: Chile

**Stigmaeus perplexus** Wood
*Stigmaeus perplexus* Wood, 1971: 74; Fan et al., 2016: 127
Type locality: Pawa (San Cristobal)
Distribution: Solomon Islands (San Cristobal)

**Stigmaeus petilus** Ueckermann et Smith-Meyer
Type locality: Mirabib (Namibia)
Distribution: Namibia, South Africa
Stigmaeus petrophilus Kuznetsov et Petrova
Type locality: Mgelaklde Cave, East Georgia
Distribution: Georgia, Iran, Ukraine

Stigmaeus pieteri Ueckermann et Smith-Meyer
Type locality: Potchefstroom, Transvaal
Distribution: South Africa

Stigmaeus pilatus Kuznetzov
Type locality: Crimea, Yalta
Distribution: Azerbaidjan, Greece, Iran, Latvia, Poland, Slovakia, Spain, Turkey, Crimea, Ukraine

Stigmaeus planus Kuznetzov
Type locality: Crimea, Yalta
Distribution: Azerbaidjan, Crimea, Iran, Poland, Slovakia, Spain, Turkey, Ukraine

Stigmaeus pricei Summers
Stigmaeus pricei Summers, 1962: 508; Fan et al., 2016: 128
Type locality: Silverton, Colorado
Distribution: USA

Stigmaeus pseudoangustus Stathakis, Kapaxidi et Papadoulis
Stigmaeus pseudoangustus Stathakis, Kapaxidi & Papadoulis, 2019: 2056
Type locality: Stymphalia Lake, Co. Korinthia
Distribution: Greece

**Stigmaeus pseudoluteus** Liang et Hu
Type locality: Guiyang, Guizhou
Distribution: China

**Stigmaeus pseudoparmatus** Doğan, Doğan et Erman
*Stigmaeus pseudoparmatus* Doğan, Doğan & Erman, 2017: 473
Type locality: Örümcek Forests
Distribution: Turkey

**Stigmaeus pseudorotundus** Hu et Liang
*Stigmaeus pseudorotundus* Hu & Liang, 1990: 461; Fan & Chen, 2010: 129; Fan et al., 2016: 128
Type locality: Jingyuetan, Changchun, Prov. Jilin
Distribution: China

**Stigmaeus pulchellus** Kuznetsov
Type locality: Crimea, Sudak
Distribution: Crimea, Greece, Iran, Turkey

**Stigmaeus purpurascens** Summers
Type locality: Durango, Colorado
Distribution: Crimea, Russia, Slovakia, Ukraine, USA

**Stigmaeus raneyi** Summers
*Stigmaeus raneyi* Summers, 1962: 517; Fan et al., 2016: 129
Type locality: Warner Springs, San Diego Co., California
Distribution: USA

**Stigmaeus rattus** Gomaa et Rakha
*Stigmaeus rattus* Gomaa & Rakha, 1983: 84; Fan et al., 2016: 129
Type locality: Kalubeia, Egypt
Distribution: Egypt

*Stigmaeus reductus* Barilo
*Stigmaeus reductus* Barilo, 1986: 26; Faraji & Ueckermann, 2006b: 89; Noei et al., 2007: 154; Fan et al., 2016: 129
Type locality: Samarkand
Distribution: Uzbekistan

*Stigmaeus reticulatus* Halbert
*Stigmaeus antrodes* var. *reticulatus* Halbert, 1923: 387
*Stigmaeus antrodes* var. *reticulatus* Halbert: Fan et al., 2016: 129
Type locality: Doneraile Co., Ireland
Distribution: Ireland

*Stigmaeus rhodomelas* Berlese
Type locality: Florence
Distribution: Italy (incl. Sicily)

*Stigmaeus rotundus* Wood
Type locality: Fox Glacier
Distribution: New Zealand

*Stigmaeus rufulus* (C.L. Koch) – Species inquirenda
*Caligonus rufulus* C.L. Koch, 1836: 9
*Stigmaeus rufulus* (C.L. Koch, 1836)
Type locality: Germany
Distribution: Germany, New Zealand

*Stigmaeus rupicola* Wood
Type locality: Manahau, Sandy Beach, Nelson
Distribution: New Zealand

*Stigmaeus saboorii* Bagheri et Paktinat-Saeedj
*Stigmaeus saboorii* Bagheri et Paktinat-Saeedj, in: Bagheri, Maleki & Paktinat-Saeedj, 2013: 553; Fan et al., 2016: 130
Type locality: Laeen village, Kalate Nader, Khorasan Razavi
Distribution: Iran

**Stigmaeus sagenatus** Meyer
Type locality: Tsitsikama Seacoast Nat. Park (Cape Province)
Distribution: South Africa

**Stigmaeus sariensis** Bagheri
*Stigmaeus sariensis* Bagheri, in: Bagheri et al., 2014: 286; Fan et al., 2016: 130; Stathakis, Kapaxidi & Papadoulis, 2019: 2019
Type locality: Sari city, Mazandaran Prov. (Iran)
Distribution: Greece, Iran

**Stigmaeus scaber** Summers
Type locality: Silverton, Colorado
Distribution: Canada, Turkey, USA

**Stigmaeus sectisetus** Summers
*Stigmaeus sectisetus* Summers, 1962: 504; Fan et al., 2016: 131
Type locality: Westport, Calaveras Co., California
Distribution: USA

**Stigmaeus seferihisarensis** Koç
*Stigmaeus seferihisarensis* Koç, 2005: 43; Doğan, 2007: 20; Dönel et al., 2012: 586; Fan et al., 2016: 131
Type locality: Seferihisar
Distribution: Turkey

**Stigmaeus seminudus** Wood
*Stigmaeus seminudus* Wood, 1971: 72; Childers & Ueckermann, 2014: 187; Fan et al., 2016: 131
Type locality: confluence of the Warahito and Pagato rivers (San Cristobal)
Distribution: Solomon Islands (San Cristobal), USA

**Stigmaeus separatus** Kuznetzov
*Stigmaeus separatus* Kuznetzov, 1978: 693; Faraji & Ueckermann, 2006b: 88; Noei et al., 2007: 154; Fan et al., 2016: 131
Stigmaeus setisetus Summers
*Stigmaeus setisetus* Summers, 1962: 504;
Type locality: Westport, Calaveras, California
Distribution: USA

Stigmaeus shabestariensis Haddad, Lotfollahi & Akbari
*Stigmaeus shabestariensis* Haddad, Lotfollahi & Akbari, 2010: 370, in: Irani-Nejad et al., 2010; Khanjani et al., 2010a: 34; 2011c: 185; Pahlavan Yali, 2011: 61; Bagheri et al., 2012a: 47; 2012b: 36; Bagheri & Zarei, 2012: 446; Beyzavi et al., 2013: 403; Khanjani et al., 2015a: 57; Navaei-Bonab et al., 2015: 376; Fan et al., 2016: 131
Type locality: Shabestar, East Azarbaijan
Distribution: Iran

Stigmaeus shendabadiensis Haddad, Akbri & Lotfollahi
*Stigmaeus shendabadiensis* Haddad, Akbri & Lotfollahi, in: Haddad Irani-Nejad et al., 2010: 119; Khanjani et al., 2010a: 35; Pahlavan Yali, 2011: 61; Bagheri & Zarei, 2012: 446; Beyzavi et al., 2013: 403; Khanjani et al., 2915a: 57; Fan et al., 2016: 131
Type locality: Shendabad, East Azerbaijan Prov.
Distribution: Iran

Stigmaeus siculus (Berlese)
*Caligonus siculus* Berlese, 1883: 214
*Raphignathus siculus*: Berlese, 1885: 22(3), Lombardini, 1936: 48
Type locality: Firenze (Italy)
Distribution: Argentina, Austria, Bosnia, Crimea, England, Germany, Greece, Greenland, Holland, Iran, Ireland, Italy, Switzerland, Turkey, USA

Stigmaeus silvestris Khaustov
*Stigmaeus silvestris* Khaustov, 2014: 245, 2015: 688; Fan et al., 2016: 132
Type locality: Nikita mountain pasture, 1250 m
Distribution: Crimea, Russia
**Stigmaeus simrothi** Mola (species inquirenda)
*Stigmaeus simrothi* Mola, 1907: 41
Type locality: Sardinia
Distribution: Italy (Sardinia)

**Stigmaeus sinai** Swift
*Stigmaeus sinai* Swift, 1987: 239; Khanjani et al., 2014d: 376; 2015a: 57; Fan et al., 2016: 133
Type locality: Wadi El Arish, Sinai, Egypt *Phlebotomus papatasi*
Distribution: Egypt, India, Iran, Saudi Arabia
Hosts: *Phlebotomus bergeroti*, *P. papatasi*, *Sergentomyia antennata* (Diptera: Psychodidae)

**Stigmaeus smithi** (Mitra et Mitra)
*Stigmaeus smithi*: Summers, 1962: 521
Type locality: Poona, from *Phlebotomus papatasi*
Distribution: India

**Stigmaeus solidus** Kuznetsov
Type locality: Grjazi, Lipetsk District, Russia
Distribution: Crimea, Hungary, Netherlands, Russia, Turkey

**Stigmaeus solomonensis** Wood
*Stigmaeus solomonensis* Wood, 1971: 66; Fan et al., 2016: 133
Type locality: Wainoni, San Cristobal
Distribution: Solomon Islands (Guadalcanal, San Cristobal)

**Stigmaeus sphagneti** (Hull)
*Raphignathus sphagneti* Hull, 1918: 30
Type locality: Tyne, West Allendale (England)
Distribution: Baltic Region, Canada, England, Estonia, Greece, Iran, Latvia, Lituanis, Moldavia, Poland, Romania, Russia, Slovakia, Spain, Ukraine, USA
**Stigmaeus stercus** Kuznetsov et Petrova
*Stigmaeus stercus* Kuznetsov & Petrova, 1979: 32; Faraji & Ueckermann, 2006b: 88; Noei et al., 2007: 154; Fan et al., 2016: 134
Type locality: Kaptar – Hana Cave, Chardzhou Region
Distribution: Turkmenistan

**Stigmaeus stramineus** Ueckermann et Smith-Meyer
Type locality: Potchefstroom, Transvaal
Distribution: South Africa

**Stigmaeus summersi** Wood
Type locality: Lake Waikaremoana
Distribution: New Zealand

**Stigmaeus tenuis** Wood
*Stigmaeus tenuis* Wood, 1971: 71; Fan et al., 2016: 134
Type locality: Santa Cruz
Distribution: Solomon Islands (Santa Cruz, Vella Lavella, Choiseul)

**Stigmaeus tianmuensis** Hu et Liang
*Stigmaeus tianmuensis* Hu & Liang, 1995: 306; Fan & Chen, 2010: 129; Fan et al., 2016: 134
Type locality: Mt. Tianmu, Zhejiang
Distribution: China

**Stigmaeus tokatensis** Dönel, Doğan, Sevsay et Bal
*Stigmaeus tokatensis* Dönel, Doğan, Sevsay & Bal, 2012: 587; Fan et al., 2016: 134
Type locality: Tokat
Distribution: Turkey

**Stigmaeus tolstikovi** Khaustov
*Stigmaeus tolstikovi*, Khaustov, 2015: 682; Fan et al., 2016: 135
Type locality: Tyumen
Distribution: Russia

**Stigmaeus turcica** Doğan
Type locality: Erzincan
Distribution: Turkey
**Stigmaeus ueckermanni** Pahlavan-Yali, Khanjani et Razmjou
*Stigmaeus ueckermanni* Pahlavan-Yali, Khanjani & Razmjou, 2011: 61; Beyzavi et al., 2013: 404; Navaei-Bonab et al., 2015: 377; Fan et al., 2016: 135
Type locality: Heyran Road, Ardabil
Distribution: Iran

**Stigmaeus unicus** Summers
Type locality: Clarksburg, Yolo Co., California
Distribution: Crimea, Mexico, USA

**Stigmaeus unicus** Kuznetzov
*Stigmaeus unicus* Kuznetzov, 1987: 637; Khanjani & Ueckermann, 2002; Akbari et al., 2010; Bagheri et al., 2011; Vrabec, Fendla & Kaluz, 2012: 330; Beyzavi et al., 2013: 404; Fan et al., 2016: 135
Type locality: Crimea, Nikitskiy Botanical garden
Distribution: Iran, Crimea, Slovakia

**Stigmaeus urhani** Koç
*Stigmaeus urhani* Koç, 2005: 45; Doğan, 2007: 21; Dönel et al., 2012: 586; Fan et al., 2016: 135
Type locality: Erzincan
Distribution: Turkey

**Stigmaeus uzunolukensis** Özçelik et Doğan
*Stigmaeus uzunolukensis* Özçelik & Doğan, 2011: 702; Fan et al., 2016: 135
Type locality: Erzurum, Uzunoluk Forest
Distribution: Turkey

**Stigmaeus woodi** Gupta et Paul
*Stigmaeus woodi* Gupta & Paul, 1985: 11; Fan et al., 2016: 136
Type locality: Patharkumkumi, Midnapur, West Bengal
Distribution: India

**Stigmaeus youngi** (Hirst)
*Raphignathus youngi* Hirst, 1926: 1023
Type locality: “Peshwar, India” (actually Pakistan)
Distribution: Burkina Faso, India, Kenya, Mali, Pakistan, Saudi Arabia, Senegal
**Stigmaeus zaheri** Gomaa et Hassan
*Stigmaeus zaheri* Gomaa & Hassan, 1986: 11; in: Zaher, 1986; Fan et al., 2016: 136
Type locality: El Fayoum
Distribution: Egypt

Genus **Storchia** Oudemans
*Storchia* Oudemans, 1923: 150
*Apostigmaeus* Grandjean, 1944: 105 [Type is *navicella-robustus*; syn. Wood 1973]
Type species: *Caligonus robustus* Berlese, 1885

**Storchia annae** Fan et Li
*Storchia annae* Fan & Li, 1993: 324; Fan & Chen, 1997: 164; 2010: 129; Li & Fan, 1997: 249; Noei et al., 2007: 155; Safasadati et al., 2010; 130; Bagheri et al., 2011a: 90; 2012b: 501; Hassanzadeh et al., 2013: 352; Fan et al., 2016: 136
Type locality: Chongqing
Distribution: China

**Storchia ardabiliensis** Safasadati, Khanjani, Razmjou et Doğan
*Storchia ardabiliensis* Safasadati, Khanjani, Razmjou & Doğan, 2010: 130; Mohammadi, Khanjani & Nazari, 2013: 24; Hassanzadeh et al., 2013: 352; Beyzavi et al., 2013: 404; Fan et al., 2016: 137; Doğan, 2019: 134
Type locality: Ardabil, Feshar shehar Village, Ardabil Prov.
Distribution: Iran, Turkey

**Storchia cuneata** Fan et Yan
*Storchia cuneata* Fan & Yan, 1997: 164; Fan & Chen, 2010: 129; Fan et al., 2016: 137
Type locality: Fujian
Distribution: China
Host: *Cinnamomum* (plant)

**Storchia elhamae** Hassanzadeh, Khanjani, Safaralizadeh et Mirfakhraie
*Storchia elhamae* Hassanzadeh, Khanjani, Safaralizadeh & Mirfakhraie, 2013: 352; Fan et al., 2016: 137
Type locality: Mahabad, West Azarbaijan Province
Distribution: Iran

**Storchia hakkariensis** Uluçay
*Storchia hakkariensis* Uluçay, 2014: 220; Fan et al., 2016: 137; Doğan, 2019: 134
Type locality: Uzunco Village, Cacarka, Hakkari, Eastern Turkey
Distribution: Turkey
**Storchia hendersonae** Fan et Zhang  
*Storchia hendersonae* Fan & Zhang, 2005: 100; Noei et al., 2007: 155; Safasadati et al., 2010: 130; Bagheri et al., 2011a: 90; 2012b: 501; Hassanzadeh et al., 2013: 352; Fan et al., 2016: 137  
Type locality: Boulder Bank, Nelson  
Distribution: New Zealand

**Storchia mehrvari** Bagheri et Gheblealivand  
Type locality: Bonab, East Azerbaijan  
Distribution: Iran, Turkey

**Storchia pacifica** (Summers)  
*Apostigmaeus pacificus* Summers, 1964: 184; Wood, 1971: 76  
Type locality: Indonesia (intercepted in Hawaii)  
Distribution: Benin, Brazil, China, Cuba, France, Hawaii, Indonesia, Iran, Mexico, Panama, Philippines, Solomon Islands, Tahiti

**Storchia robusta** (Berlese)  
*Caligonus robustus* Berlese, 1885: fasc. 22, 6  
*Stigmaeus robustus* (Berlese): Berlese, 1910: 204  
Type locality: Monti Pisomi, Jerricio cast., Italy
Distribution: Azerbaijan, Brazil, China, Crimea, Egypt, France (incl. Corsica), Germany, Greece, Hawaii, Hungary, Iran, Israel, Italy, Japan, Namibia, New Zealand, Pakistan, Poland, Slovakia, Solomon Islands (Guadalcanal), South Africa, Swaziland, Turkey, Ukraine, USA

**Storchia shanghaiensis** (Liang et Hu)

*Apostigmaeus shanghaiensis* Liang & Hu, 1988: 46


Type locality: Shanghai

Distribution: China

**Storchia yazdaniani** Bagheri

*Storchia yazdaniani* Bagheri, in: Bagheri, Shirinbeik Mohajer, Saboori, Asadeh & Ueckermann, 2011: 87; Bagheri et al., 2012b: 503; Hajizadeh et al., 2013: 577; Beyzavi et al., 2013: 404; Fan et al., 2016: 140

Type locality: Gorgan (Golestan province)

Distribution: Iran

**Genus Summersiella** González-Rodríguez


**Summersiella camphorae** Fan et Zhang

*Summersiella camphorae* Fan & Zhang, 2002: 154; Fan et al., 2016: 140

Type locality: host *Cinnamomum camphora* (Plant); Fujian

Distribution: China

**Summersiella coprosmae** (Wood)


*Pseudostigmaeus ancydactyla* (Gonzalez-R.): Meyer, 1969: 244

*Summersiella coprosmae* (Wood): Fan & Zhang, 2002: 149; 2005: 102; Fan et al., 2016: 140

Type locality: Robinson, Rio Riwaka, Nelson

Distribution: New Zealand
Genus Villersia Oudemans
Villersia Oudemans, 1927: 263
Type species: Villersia vietsi Oudemans, 1927

Villersia jamaliensis (Khaustov)
Paravillersia jamalensis Khaustov, 2014: 63; Fan et al., 2016: 107
Type locality: Yamalo-Nenets Autonomous Okrug, Priural'skiy Region, vic. of Katravozh
Distribution: Russia

Villersia sudetica Willmann
Özçelik & Doğan, 2011: 707; Doğan et al., 2014: 5; Fan et al., 2016: 141
Type locality: Czech Rep.
Distribution: Czech Rep., Poland, Turkey

Villersia vietsi Oudemans
Villersia vietsi Oudemans, 1927: 263; Wood, 1972: 316; Mehl, 1979: 36; Fan et al., 2016: 141
Type locality: Bergen (Norway)
Distribution: Canada, Norway

Genus Villersiella Willmann
Villersiella Willmann, 1953: 488
Type species: Villersiella quadriscutata Willmann, 1953

Villersiella quadriscutata Willmann
Villersiella quadriscutata Willmann, 1951: 141 (nomen nudum), 1953: 488; Fan et al.,
2016: 141
Villersia quadriscutata: Franz, 1954: 365
Type locality: Pinzgau
Distribution: Austria, Switzerland

Villersiella sp. – Moldavia (Kulikova, 2011: 57)

Genus Zetzellia Oudemans
Zetzellia Oudemans, 1927: 263
Type species: Zetzellia methlagli Oudemans, 1927

Zetzellia agistzellia Hernandes et Feres
Zetzellia agistzellia Hernandes & Feres, 2005: 28; Johann et al., 2013: 250; Fan et al., 2016:
142
Type locality: Cedral, São Paulo
Distribution: Brazil

*Zetzellia ampelae* Johann et Ferla, in: Johann, Carvalho, Majolo et Ferla
*Zetzellia ampelae* Johann & Ferla, in: Johann, Carvalho, Majolo & Ferla, 2013: 252; Fan et al., 2016: 142
Type locality: Rio Grande do Sul
Distribution: Brazil

*Zetzellia antipoda* Wood
*Zetzellia antipoda* Wood, 1967: 127; Fan & Zhang, 2005: 103; Fan et al., 2016: 142
Type locality: New Zealand, Botanic Gardens, Wellington
Distribution: New Zealand

*Zetzellia australis* González-Rodríguez
*Zetzellia australis* González-Rodríguez, 1965: 23; Fan et al., 2016: 142
Type locality: intercepted at Washington, D.C.
Distribution: Australia

*Zetzellia beijingensis* Wang et Xu
*Zetzellia beijingensis* Wang & Xu, 1986: 274; Fan & Chen, 2010: 129; Fan et al., 2016: 142
Type locality: Pinggu, Beijing
Distribution: China

*Zetzellia biscutata* Fan et Zhang
*Zetzellia biscutata* Fan & Zhang, 2005: 105; Khanjani & Ueckermann, 2008: 240; Fan et al., 2016: 142
Type locality: Mangarakau
Distribution: New Zealand

*Zetzellia buxi* Ueckermann et Smith-Meyer
Type locality: East London, Cape-Provence, host *Buxus macowanii* (plant, Buxaceae)
Distribution: South Africa

*Zetzellia camphorae* Negm, Johann, Ferla et Amano
*Zetzellia camphorae* Negm, Johann, Ferla & Amano, 2015: 962; Fan et al., 2016: 143
Type locality: Kitashirakawaoiwake-cho, Kyoto-dhi, Kyoto prefecture
Distribution: Japan
Zetzellia crassirostris (Leonardi)
Stigmaeus crassirostris Leonardi, 1899: 315
Type locality: Portici (Italy)
Distribution: Crimea, Hungary, Italy, Poland, Slovakia

Zetzellia erzincanica Bingül et Doğan
Zetzellia erzincanica Bingül & Doğan, 2017: 15; Doğan, 2019: 134; Fan, Flechtmann & de Moraes, 2019: 94
Type locality: Erzincan
Distribution: Turkey

Zetzellia gonzalezi Wood
Zetzellia gonzalezi Wood, 1967: 129; Fan & Zhang, 2005: 105; Fan et al., 2016: 143
Type locality: Kaiteriteri
Distribution: New Zealand

Zetzellia graeciana González-Rodríguez
Type locality: intercepted at Washington, D.C.
Distribution: Bulgaria, Greece, intercepted at Washington, Italy, Syria

Zetzellia javanica Ehara et Oomen-Kalsbeek
Zetzellia javanica Ehara & Oomen-Kalsbeek, 1983: 19; Khanjani & Ueckermann, 2008: 241; Fan et al., 2016: 144
Type locality: Gambung, Java
Distribution: Indonesia

Zetzellia kamalii Kheradmand, Ueckermann et Fathipour
Zetzellia kamalii Kheradmand, Ueckermann & Fathipour, 2007: 143; Khanjani & Ueckermann, 2008: 240; Beyzavi et al., 2013: 404; Fan et al., 2016: 144; Fan, Flechtmann & de Moraes, 2019: 94
Type locality: Tehran
Distribution: Iran

Zetzellia kamili Akyol et Gül
Zetzellia kamili Akyol & Gül, 2018: 463; Doğan, 2019: 134;
Type locality: Dilek Peninsula, Büyük Menderes Delta Nat. Park
Distribution: Turkey
Zetzellia languida González-Rodríguez
Type locality: “Leopoldville” (Kinshasa)(D.R. Congo)
Distribution: Brazil, Congo D.R., Costa Rica, India, Portugal, Madeira, USA

Zetzellia lushanensis Hu et Chen
Zetzellia huaxiensis Hu, 1996: 70 (Huaxi, Guiyang); Fan, Zhang & Liu, 2000
Type locality: Jiangxi
Distribution: China

Zetzellia mali (Ewing)
Syncaligus (Caligonus) mali Ewing, 1917: 499
Syncaligus mali Ewing, 1921: 664
Syncaligus quercus Ewing, 1921: 665; syn. by Summers, 1960b: 242
Zetzellia alni Oudemans, 1931: 257 (Dahlem, Germany) – syn. by González-Rodríguez, 1965: 19
Type locality: Hillsboro, Oregon
Distribution: Argentina, Austria, Azerbaijan, Bulgaria, Canada, China, Czech Rep., England, France, Germany, Greece, Hungary, India, Iran, Italy, Lebanon, Lithuania, Moldavia, Netherlands, Pakistan, Poland, Serbia, Slovenia, Spain, Switzerland, Tunisia, Turkey, USA

Zetzellia malvinae Matioli, Ueckermann et de-Oliveira
Zetzellia malvinae Matioli, Ueckermann & de-Oliveira, 2002: 20; Khanjani & Ueckermann, 2008: 241; Johann et al., 2013a: 252; Fan et al., 2016: 144
Type locality: Limeira, São Paulo
Distribution: Brazil

*Zetzellia maori* González-Rodríguez

*Zetzellia maori* González-Rodríguez, 1965: 22; Matioli, Ueckermann & de-Oliveira, 2002: 22; Fan & Zhang, 2005: 106; Fan et al., 2016: 147

Type locality: Otara

Distribution: New Zealand

*Zetzellia mapuchina* González-Rodríguez


Type locality: intercepted in Miami

Distribution: ?Argentina, Chile

*Zetzellia mercedesae* Rimaldo et Corpus-Raros

*Zetzellia mercedesae* Rimaldo & Corpus-Raros, 2001: 137; Fan et al., 2016: 147

Type locality: Mt. Makiling, Kapos, San Rafael, Batangas

Distribution: Philippines

*Zetzellia methlagli* Oudemans


Type locality: Viena

Distribution: Austria

*Zetzellia mori* Rimando et Corpus-Raros

*Zetzellia mori* Rimando & Corpus-Raros, 2001: 139; Fan et al., 2016: 148

Type locality: College, Laguna

Distribution: Philippines

*Zetzellia oudemansi* Wood


Type locality: Lindis Pass, Otago

Distribution: New Zealand

*Zetzellia pourmirzai* Khanjani et Ueckermann

*Zetzellia pourmirzai* Khanjani & Ueckermann, 2008: 237; Bayzavi et al., 2013: 405; Fan et al., 2016: 148

Type locality: Babajani, Rijab, Kermanshah
Distribution: Iran

**Zetzellia quasagistemas** Hernandes et Feres

*Zetzellia quasagistemas* Hernandes & Feres, 2005: 37; Fan et al., 2016: 148
Type locality: Cedral, Estado de S. Paulo
Distribution: Brazil

**Zetzellia rugosa** Ehara et Oomen-Kalsbeek

Type locality: Pasir Samongee
Distribution: Indonesia

**Zetzellia sialcotensis** Rehman, Khan, Kamran et Alatawi

*Zetzellia sialcotensis* Rehman, Khan, Kamran & Alatawi, 2016; Fan et al., 2016: 148; Halliday, Kamran & Bashir, 2018: 108
Type locality: Sialkot, Punjab
Distribution: Pakistan

**Zetzellia silvicola** González-Rodríguez

*Zetzellia silvicola* González-Rodríguez, 1965: 24; Simova, 1977; Khanjani & Ueckermann, 2008: 240; Fan et al., 2016: 149
Type locality: Estey, Michigan
Distribution: Bulgaria, USA

**Zetzellia spiculosa** Fan et Zhang

*Zetzellia spiculosa* Fan & Zhang, 2005: 110; Khanjani & Ueckermann, 2008: 240; Fan et al., 2016: 149
Type locality: Forest Hill, Takapuna
Distribution: New Zealand

**Zetzellia talhouki** Dosse

Type locality: Lebanon, Bcharré
Distribution: Lebanon, Turkey

**Zetzellia yusti** Summers

*Zetzellia yusti* Summers, 1960: 238; González-Rodríguez, 1965: 20; Khanjani & Ueckermann, 2008: 240; Fan et al., 2016: 149
Type locality: Tumbaco
Distribution: Ecuador

**Zetvellia** sp.
Cuba – Torre Santana & Montalvo, 2016

Genus **Zetelliopsis** Willmann
Zetelliopsis Willmann, 1956: 238
Type species: *Zetelliopsis paxi* Willmann, 1956: 238

**Zetelliopsis paxi** Willmann
Zetelliopsis paxi Willmann, 1956: 238; Fan et al., 2016: 149
Type locality: Lattichberg
Distribution: Czech Rep.

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Distribution of Stigmaeidae

EUROPE
Armenia (Kuznetsov, 1978) – Mediolata polinae, Stigmaeus fidelis
Austria (Irk, 1939; Willmann, 1951, 1953, 1956; Franz, 1954; Franz & Beier, 1948; Schmölder, 1993) – Cheylostigmaeus angustimaxillatus, C. austriacus, C. grandiceps,

**Baltic states** (Kuznetsov & Petrov, 1984) – Mediolata californica
**Belgium** (Cooreman, 1943; André, 1977) – Eustigmaeus ottavii sphagneticola, Mediolata mariafrancae
**Bosnia and Herzegovina** (Leitner, 1946; Franz, 1954) – Stigmaeus siculus
**Bulgaria** (Simova, 1977; Balevski, 1979; Arnaudov, 2016) – Zetzelia graeciana, Z. mali, Z. silvicola
**Czech Rep.** (Willmann, 1954; 1956) – Eustigmaeus segnis, Stigmaeus longipilis (= eutrichus), Villersia sudetica, Zetteliopsis paxi
**Estonia** (Kuznetsov & Petrov, 1984) – Eustigmaeus segnis, Stigmaeus longipilis, S. sphagneti
**Finland** (Trägårdh, 2010) – Eustigmaeus lapponicus
**France** (contin.) (Grandjean, 1944; Cooreman, 1955; Faraji & Ueckermann, 2006b; Faraji, Ueckermann & Bakker, 2007) – Eustigmaeus collarti, E. jiangxiensis, Stigmaeus corticeus, Storchia robusta
**Corsica** – Storchia robusta
**Georgia** (Kuznetsov & Petrova, 1979) – Mediolata sp., Stigmaeus petrophilus
**Germany** (Koch, 1836, 1838, 1841; Oudemans, 1927; Leitner, 1946; Elbadry, 1973; Tamm, 1984; Tamm et al., 1984; Russel & Alberto, 2010) – Cheylostigmaeus marinus, Eustigmaeus ottavii, E. segnis, E. rhodomela, Stigmaeus bdelloides, S. megacephalus, S. planus, S. siculus, Storchia robusta
**Great Britain** (Hull, 1918; Evans, 1954; González-Rodríguez, 1965; Chaudhri, 1965) – Cheylostigmaeus howellsi, Ch. salinus, Eustigmaeus plumifer, Mediolata chanti, M. similans, Stigmaeus calluna, S. elongates, S. siculus, S. sphagneti
**Holland** (Netherlands) (Buitendijk, 1945, Gomaa & Bolland, 1982) – Eustigmaeus anaueniensis, E. kermesinus, Mediolata chanti (= vandergeesti), Stigmaeus solidus
Hungary (Komlovsky & Jenser, 1992; Bozai & Burges, 1994; Ripka, Fain & Bolland, 1999; Ripka et al., 2005; Ripka, Laniecka & Kazmierski, 2013; Ripka, Szabo et al., 2013) – Eustigaeus anauniensis, E. pinnatus, Mediolata belfeldii, M. chanti (= vandergeesti), M. mariaefrancae, M. ronaldi, Stigmaeus nikitensis, S. solidus, Storchia robusta, Zetzellia crassirostris, Z. mali

Ireland (Halbert, 1920, 1923; Momen, 1987) – Cheylostigmaeus scutatus, Eustigmaeus longipilis, E. plumifer, Mediolata belfeldii, M. horrida, Pseudostigmaeus arboricolus, Stigmaeus fissaurelica, S. siculus, S. reticulatus


Lithuania (Kuznetsov & Petrov, 1984) – ?Eustigmaeus chilensis, Eustigmaeus anauniensis, E. segnis, Mediolata pini, Stigmaeus longipilis, S. sphagneti

Moldavia (Kuznetsov, 1984; Kulikova, 2011) – Cheylostigmaeus proximus, Eustigmaeus pinnata, E. rhodomela, Mediolata pini, Stigmaeus longipilis, S. sphagneti, Villersiella sp., Zetzellia mali

Norway (Oudemanns, 1927; Mehl, 1979) – Eustigmaeus kermesinus, Villersia vietsi

Svalbard (Thor, 1930) – Eustigmaeus oudemansi, E. pulchellus

Sicily (Berlese, 1883; Wood, 1073; Vacante & Gerson, 1987) – Eryngiopus e. gersoni, E. siculus, Stigmaeus rhodomelas, S. siculus

Sardinia (Mola, 1907) – Stigmaeus simrothi (sp. inquir.)


Portugal (Faraji & Ueckermann, 2006; Ferreira et al., 2007; Pina et al., 2012, Ferreira, 2015) – Agistemus collyerae, A. longisetus, A. terminalis, Mediolata chanti

Madeira (Carmona, 1992; Ferreira & Carmona, 1997) – Agistemus africanus, A. collyerae, Zetzellia languida
Romania (Miklavc J. & M. Miklavc, 2001) – Stigmaeus sphagneti, Zetzellia mali


Serbia (Petanović, 1993; Petrović, Jurišić & Rajković, 2010) – Agistemus exsertus, A. longisetus


Slovenia (Miklavc J. & M. Miklavc, 2001; Bohinc & Trdan, 2012) – Zetzellia mali


Sweden (Trägårdh, 1910; Sellnick, 1949) – Eustigmaeus brevipalpus, E. lapponicus, Stigmaeus lapponica, Storchia robusta

Switzerland (Schweizer & Bader, 1963; Franz, 1954) – Cheylostigmaeus australicus, Ch. grandiceps, Ch. pannonicus, Eustigmaeus clavatus, E. kermesinus, E. ottavii, Ledermuelleriopsis plumosa, Mediolata mali, [Eupalopsis reticulatus], Stigmaeus S. anomalus, S. insectus, S. longipilis (= eutrichus), S. siculus


AFRICA
Algeria (Boulfekhar-Ramdani, 1998) – Agistemus exsertus
Angola (Ueckermann & Smith Meyer, 1987) – Agistemus africanus, A. tranatalensis
Cameroon (Bolland & Ueckermann, 1984) – Agistemus camerounensis, A. sanctiluciae
Cabo Verde (Ueckermann & Smith Meyer, 1987) – Agistemus camerounensis
Congo DR (González-Rodríguez, 1965) – Agistemus bakeri, A. brideliae, A. clavatus, A. congolensis, Zetzellia languida

Kenya (Lewis & MacFarlane, 1981) – Stigmaeus youngi

Lesotho (Ueckermann & Smith-Meyer, 1987) – Ledermuelleriopsis terrulenta

Liberia (Sellnick, 1932) – Eustigmaeus favosus

Malawi (Ueckermann & Smith Meyer, 1987) – Agistemus africanus, A. tranatalensis


Mozambique (González-Rodríguez, 1965) – Agistemus unguiparvus

Namibia (Ueckermann & Smith-Meyer, 1987; Meyer & Ueckermann, 1989) – Stigmaeus fiscicomus, S. petilus, Storchia robusta (5 species, acc. to country register)

Senegal (Abonnenc, 1970; Lewis & MacFarlane, 1981) – Stigmaeus youngi

Somalia – Eustigmaeus segnis


Swaziland (Ueckermann & Smith-Meyer, 1987) – Storchia robusta

Tunisia (Zhang & Gerson, 1995) – Eustigmaeus johnstoni

Zimbabwe (Ueckermann & Smith Meyer, 1987) – Agistemus africanus, A. tranatalensis, Eryngiopus discus

ASIA


Hainan (Hu & Liang, 1994) – Eustigmaeus tongshiensis

Cyprus (González-Rodriguez, 1965; Zhang & Gerson, 1995) – Agistemus cyprius, Eustigmaeus johnstoni


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dati et al., 2010; Rostami et al., 2010a, 2010b; Izadi, Asadabadi, Khanjani & Payande
h, 2010; Bagheri, Ghorbani et al., 2010; Haddad Irani-Nejad, Lotfollahi, Akbari,
Bagheri & Ueckermann, 2010, 2011; Akbari et al., 2010; Rostami et al., 2010, 2012;
Bagheri, Bonabi, Ueckermann, Ghorbani, Mehrvar & Saber, 2011; Bagheri, Ghor-
bani, Navaei-Bonab, Mehrvar, Saber & Ueckermann, 2011; Bagheri, Navaei-Bonab,
Ueckermann & Ghorbani, 2011; Pahlavan, Khanjani & Razmjou, 2011; Bagheri &
Ueckermann, 2011; Zarei et al., 2011; Rahmani, Ueckermann & Borji, 2011; Baghe-
ri, Shirinbeik Mohajer, Saboori, Azadeh & Ueckermann, 2011; Changizi, Bagheri,
Asadi & Gheblealivand, 2011; Rahmani, Fathipour & Kamali, 2011; Khanjani, Azali
Fayaz, Mirmoayedi & Ghaedi, 2011; Dohghan-Dolati et al., 2011; Navaei-Bonab,
Bagheri & Zarei, 2012; Zarei & Bagheri, 2012; Nazari, Khanjani & Kamali, 2012,
2013; Doğan, Rahmdeli, Jalaeeian, Dönel & Selays, 2012; Bagheri, 2012; Bagheri &
Zarei, 2012; Khanjani, Mohammadie, Ghiasi, Izadi & Mirmoayedi, 2012; Khanjani,
Pakdelan, Ostovan & Khanjani, 2012; Khanjani, Pishehvar, Mirmoayedi & Khanja-
ni, 2012; Paktinat-Saej et al., 2012a, 2012b; Bagheri, Gheblealivand & Ghorbani,
2012; Bagheri, Gheblealivand & Zarei, 2012; Khanjani, Asali Fayaz & Doğan, 2012;
Ahan-Azad et al., 2012; Changizi, Bagheri & Asadi, 2012; Badakhsinan, Sadraei &
Moin-Vaziri, 2013; Mohammadie, Khanjani & Nazari, 2013; Rahmdeli, Ravan, Jalae-
eyian & Rakhshani, 2013; Cheraghali et al., 2013; Maleki, Bagheri & Gharekhani,
2013; Bagheri & Beyzavi, 2013; Khanjani & Pakdelan, 2013; Khanjani, Firoozfari
& Mirmoayedi, 2013; Hajizadeh, Khanjani, Faraji & Ueckermann, 2013; Beyzavi,
Ueckermann, Faraj & Ostovan, 2013; Dashehnia & Akrami, 2013; Navaei-Bonab &
Parsaeyan, 2013; Bagheri, Gharakhani & Maleki, 2013; Nazari, Khanjani & Kamali,
2013; Ahaniazad, Bagheri, Gharakhani & Maleki, 2013; Beyzavi, Ueckermann, Faraji
& Ostovan, 2013; Ahaniazad, Abaci, Bagheri & Navaei-Bonab, 2014; Bagheri, Jafa
& Saboori, 2014; Khanjani, Hajizadeh & Ueckermann, 2014; Navaei-Bonab, 2014;
Rafeian Najaf-Abadi, Khanjani & Khanjani, 2014; Khanjani, Najaf-Abadi & Khanjani,
2014; Khanjani, Nasrollah, Zamani & Azalifeyaz, 2014; Bagheri, Paktinat Saej, Nuri
Miri, Yazdanian & Varandi, 2014; Bagheri, Rahimi, Maleki, Gharekhani & Saber,
2014; Bagheri, Jafari & Saboori, 2014; Ranjab-Varandi et al., 2014; Jafari, Bagheri &
Saboori, 2014; Yousefi et al., 2014; Khanjani, Mohammadie, Nazari & Khanjani, 2014;
Ahaniazad, Bagheri & Paktinat-Saej, 2014; Fakhari, Khanjani, Rahmani & Khanjani,
2014)(full bibliography in Bayzavi et al., 2013); Navaei-Bonab, Kazazi, Bagheri, Zarei
& Ueckermann, 2015; Rahmati, Kheradmand, Jafari & Bagheri, 2015; Zarei, Hajizadeh
& Khanjani, 2015; Khanjani, Amini & Khanjani, 2015; Khanjani, Khanjani et al., 2017;
Nazari & Khanjani, 2017; Doustaresharaf & Bagheri, 2019; Doustaresharaf, Bagheri
& Saber, 2019) – Agistemus industani, Cheylostigmaeus ferdowsii, C. gharakhani, C.
guilaniensis, C. hassanpouri, C. iranensis, C. mahvashae, C. sepasgosariani, C. tarae,
Eryngiopus affinis, E. hamedanicus, E. harteni, E. langroudensis, E. rezaiyensis, Eu-
stigmaeus anaunieni, E. azerbaijanensis, E. caspianensis, E. dogani, E. echinopus, E.
isfahniansis, E. jiangxiensis, E. johnstoni, E. nahidae, E. nasriner, E. ornatus, E. ottavii,


Okinawa (Ehara, 1967; Ehara & Ueckermann, 2006) – Agistemus citrinus, Gymnostigmaeus akaminei

Kazakhstan (Kuznetzov & Vainstein [Wainstein], 1977; Kuznetzov, 1978, 1984) – Agistemus gratus, A. herbarius, Cheylostigmaeus kazahstanicus, Stigmaeus callunae

Korea (North and South)(Kim et al., 1978; Kawashima et al., 2008) – Agistemus lobatus, E. terminalis

Lebanon (Dosse, 1967; Bayan, 1988, 1998) – Agistemus fanari, Zetzellia mali, Z. talhouki


**Syria** (Soliman, 1975; Barbar, 2016, 2018) – Agistemus dusgunesae, A. exsertus, Ledermeullerioptis punctata, L. simplexus, Stigmaeus additicius, S. ayyildizi, Zetzellia graeciana

**Thailand** (Ehara & Wongsiri, 1984) – Agistemus giganteus, A. siamensis, A. terminalis, A. thaitanus, Eryngiopus yasumatsui

**Turkmenistan** (Kuznetsov & Petrova, 1979) – Stigmaeus stercus


**Vietnam** (Khaustov & Tsurikov, 2018) – Eustigmaeus vietnamiensis

**Yemen** (Van Dis & Ueckermann, 1993; Ueckermann, van Harten & Smith Meyer, 2006) – Agistemus collyerae, Agistemus sp. nr. fleschneri, Eryngiopus [Saniosulus ?] harteni, E. yemenensis, Eustigmaeus johnstoni

**NORTH AMERICA**


SOUTH and CENTRAL AMERICA


Brazil (Flechtmann, 1981, 1985, 1995; Sato et al., 2001; Matioli, Ueckermann & de-Oliveira, 2002; Arruda-Filho & Moraes, 2003; Hernandes & Feres, 2005, 2006; Matioli, Tavares & Pallini, 2007; Matioli, Pallini & Tavares, 2009; Mineiro et al., 2010; Johann, Carvalho, dos Santos Rocha & Ferla, 2013; Johann, Carvalho, Majolo & Ferla, 2013; Silva et al., 2013; Khaustov & Tolstikov, 2015; Paktinat-Saej, Bagheri et al., 2016; Paktinat-Saej, Barroso & Cruz, 2017; Da-Costa et al., 2018; Castro et al., 2018; Johann & Juarez Ferla, 2012, 2018) – Agistemus bakeri, A. brasiliensis, A. caissara, A. floridanus, A. mendozaensis, A. pallinii, A. palmae, A. paraguariensis, A. riogran-

**Chile** (González-Rodríguez, 1963, 1965; Summers & Ehara, 1965; Chaudhri, 1965; Matioli, Ueckermann & de-Oliveira, 2002; Khaustov, 2016b) – Agistemus fleschneri, A. floridanus, A. longisetus, A. terminalis, Cheylostigmaeus multidentatus, Eryngiopus techuelche, Eustigmaeus chilensis, E. ovatus, E. smithi, Pseudostigmaeus magellani, Stigmaeus flexisetus, S. palustris, S. patagoniensis, Zetzellia mapuchina

**Costa Rica** (Vega et al., 2007) – Agistemus fleschneri, A. floridanus, Zetzellia languida

**Cuba** (Cuervo et al., 1994; Torre Santana & Montalvo, 2016) – Agistemus floridanus, A. tucumanensis, Eustigmaeus segnis, Ledermuelleriopsis spinosa, Storchia pacifica, Zetzellia sp.

**Ecuador** (Summers, 1960; González-Rodríguez, 1965; Vásquez & Dávila, 2018) – Agistemus ecuadoriensis, Zetzellia yusti

**El Salvador** (González-Rodríguez, 1963; Chaudhri, 1965) – Agistemus fleschneri, longisetus, E. striolatus, Eustigmaeus capella

**Guadeloupe** (Flechtmann, Kreiter, Etienne & Moraes, 1999) – Agistemus infissus

**Guatemala** (Summers, 1960b; González-Rodríguez, 1965) – Agistemus fleschneri, A. striolatus, A. terminalis

**Honduras** (González-Rodríguez, 1963) – Agistemus fleschneri, A. longisetus

**Nicaragua** (González-Rodríguez, 1965) – Agistemus striolatus

**Panama** (Chaudhri, 1965; Miranda, Diomodes & Almanza, 2002) – Eustigmaeus gamma, E. gorgasi, E. parasiticus, Storchia pacifica

**Peru** (González-Rodríguez, 1963) – Agistemus fleschneri, A. longisetus

**OCEANIA**


**Fiji** (Wood, 1966) – Eustigmaeus mixtus


**Campbell Island** (Wood, 1971a) – Mullederia arborea, Pseudostigmaeus collyerae, P. longisetis, Stigmaeus campbellensis

**Solomon Islands** (Wood, 1971b) – Cheylostigmaeus mirabilis, Eustigmaeus brevirostris, E. mixtus, E. mollis, Mendanaia longisetis, Stigmaeus impressus, S. perplexus, S. seminudus, S. solomonensis, S. tenuis, Storchia robusta

### Hosts of Stigmaeidae

**Insecta**

**Diptera**

Fam. Psychodidae

*Phlebotomus pius* – *Eustigmaeus gamma*

*Ph. bergeroti* – *Eustigmaeus johnstoni*

*Ph. longicuspis* – *Eustigmaeus johnstoni*

*Ph. papatasi* – *Eustigmaeus johnstoni*

*Ph. sergenti* – *Eustigmaeus johnstoni*

*Sergentomyia africana* – *Eustigmaeus johnstoni*

*S. dreyfussi* – *Eustigmaeus johnstoni*

*S. magna* – *Eustigmaeus johnstoni*

### Bibliography of Stigmaeidae

(some of the papers on the control of mites and their predators etc. are not included)


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Castagnoli M. 1987. Recent advances in the knowledge of the mite fauna in the biocenoses of grapevine in Italy. – Proceedings of a meeting of the EC Expert's Group, Thessaloniki, pp. 169–170.


Acarorum Catalogus VII


Acarorum Catalogus VII


Kuznetsov N.N., A.D. Petrova. 1979. [Three new species of prostigmatic mites (Acariformes, Tydeidae, Stigmaeidae) from caves of Caucasus and Middle Asia]. – Biologicheskie nauki, 10: 30–33. [in Russian]


Acarorum Catalogus VII


The Mite Family Xenocaligonellididae
González-Rodríguez

Xenocaligonellididae González-Rodríguez, 1978: 191

Small family of two genera and five known species, described by De Leon, González-Rodríguez, Fan Q.-H. & Chen Y, Hu & Liang, and Meyer-Smith & Ueckermann from China, South Africa, Galapagos Is., USA and Mexico.

Composition of Xenocaligonellididae

Fam. **Xenocaligonellididae** González-Rodríguez, 1978 – 2 gen., 5 sp.

*Apocaligonellidus* Fan Q.-H. et Chen Y., 2008 – 1 sp.

*Xenocaligonellidus* De Leon, 1959 – 4 sp.

Catalogue of Xenocaligonellididae

Fam. **Xenocaligonellididae** González-Rodríguez
Xenocaligonellididae González-Rodríguez, 1978: 191
Xenocaligonellididae González-Rodríguez, 1978: 191
Type genus: **Xenocaligonellidus** De Leon, 1959

Genus *Apocaligonellidus* Fan Q.-H. et Chen Y.

*Echinopsis* Fan & Chen, 1996: 123, preoccupied

*Apocaligonellidus* Fan Q.-H. & Chen Y, 2008: 68
Type species: **Echinopsis fukiensis** Fan et Chen, 1996

*Apocaligonellidus fukiensis* (Fan Q.-H. et Chen Y)

*Echinopsis fukiensis* Fan Q., Chen Y. 1996: 124
Type locality: Fukien
Distribution: China

Genus *Xenocaligonellidus* De Leon

*Xenocaligonellidus* De Leon, 1959: 17
Type species: **Xenocaligonellidus ovaerialis** De Leon, 1959
**Xenocaligonellidus galapagus** González-Rodríguez
*Xenocaligonellidus galapagus* González-Rodríguez, 1978: 193
Type locality: Galapagos
Distribution: Ecuador (Galapagos Islands)

**Xenocaligonellidus tekleae** Meyer-Smith et Ueckermann
*Xenocaligonellidus tekleae* Meyer-Smith & Ueckermann, 1989: 52
Type locality: Sordwana Bay, Natal
Distribution: South Africa

**Xenocaligonellidus ovaerialis** De Leon
*Xenocaligonellidus ovaerialis* De Leon, 1959: 17
Type locality: Mexico
Distribution: Mexico

**Xenocaligonellidus smileyi** Hu et Liang
Type locality: Tianmu Mountain
Distribution: China

**Index of Xenocaligonellididae**

(Names in **bold** are accepted as valid)

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**Distribution of Xenocaligonellidae**

**AFRICA**
South Africa (Meyer-Smith & Ueckermann, 1989) – *Xenocaligonellidus tekleae*

**ASIA**
China (Hu & Liang, 1995; Fan & Chen, 1996, 2008; Fan, 2000) – *Apocaligonellidus fukiensis, Xenocaligonellidus smileyi*
NORTH AMERICA
Mexico (De Leon, 1959) – *Xenocaligonellidus ovaerialis*
USA (De Leon, 1959) – *Xenocaligonellidus ovaerialis*

SOUTH AMERICA
Ecuador
Galapagos Islands (González-Rodríguez, 1978) – *Xenocaligonellidus galapagus*

**Bibliography of Xenocaligonellididae**


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