

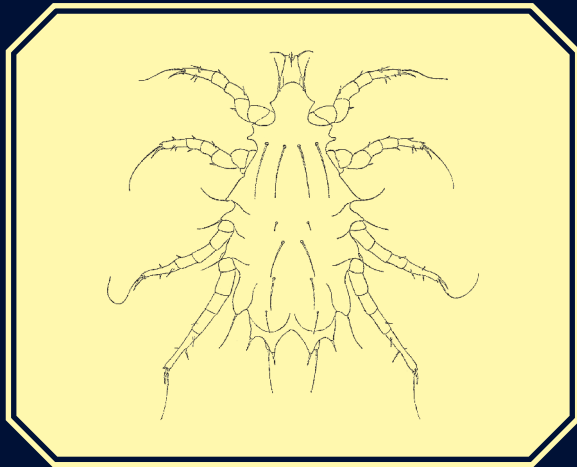
# ACARORUM CATALOGUS

IX

ACARIFORMES

*Acaridida*

Petar Beron





# ACARORUM CATALOGUS

Petar Beron



# ACARORUM CATALOGUS IX

**Acariformes  
Acaridida**

**Schizoglyphoidea (Schizoglyphidae)  
Histiostomatoidea (Histiostomatidae,  
Guanolichidae)**

**Canestrinioidea (Canestriniidae, Chetochelacaridae,  
Lophonotacaridae, Heterocoptidae)**

**Hemisarcoptoidea (Chaetodactylidae,  
Hyadesiidae, Algophagidae, Hemisarcoptidae,  
Carpoglyphidae, Winterschmidtiidae)**

**Petar Beron**

**Pensoft  
National Museum of Natural History, Sofia  
Bulgarian Academy of Sciences**

**Sofia–Moscow  
2021**

ACARORUM CATALOGUS IX

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Acaridida

Schizoglyphoidea (Schizoglyphidae)

Histiostomatoidea (Histiostomatidae, Guanolichidae)

Canestrinioidea (Canestriniidae, Chetochelacaridae, Lophonotacaridae,  
Heteroptidae)

Hemisarcoptoidea (Chaetodactylidae, Hyadesiidae, Algophagidae, Hemisarcoptidae,  
Carpoglyphidae, Winterschmidtidae)

Petar Beron

First published 2021

ISBN 978-619-248-057-8 (paperback)

ISBN 978-619-248-058-5 (e-book)

Pensoft Series Faunistica No 224

Beron P. 2021. Acarorum Catalogus IX. Schizoglyphoidea (Schizoglyphidae). Histiostomatoidea (Histiostomatidae, Guanolichidae). Canestrinioidea (Canestriniidae, Chetochelacaridae, Lophonotacaridae, Heteroptidae). Hemisarcoptoidea (Chaetodactylidae, Hyadesiidae, Algophagidae, Hemisarcoptidae, Carpopoglyphidae, Winterschmidtidae. Pensoft & National Museum of Natural History, Sofia, 396 pp.

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www.pensoft.net

Printed in Bulgaria, December 2021

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## Introduction

The present 9<sup>th</sup> volume of the series *Acarorum Catalogus* contains lists of mites of 13 families, 225 genera and 1268 species of the superfamilies Schizoglyphoidea, Histios-tomatoidea, Canestrinioidea and Hemisarcoptoidea. Most of these mites live on insects or other animals (as parasites, phoretic or commensals), some inhabit rotten plant material, dung or fungi. Mites of the families Chetochelacaridae and Lophonotacaridae are specialised to live with Myriapods (Diplopoda). The peculiar aquatic or intertidal mites of the families Hyadesidae and Algophagidae are also included.

## Acariformes, Acaridida

### The Mite Superfamily Schizoglyphoidea

Contains so far only one family of mites, found in New Guinea on Coleoptera. The postnymphal stage remains unknown.

### The Mite Family Schizoglyphidae

Schizoglyphidae Mahunka, 1978: 115

Monotypic genus of mites found on Tenebrionidae beetles.

### Catalogue of Schizoglyphidae

#### Fam. **Schizoglyphidae**

Schizoglyphidae Mahunka, 1978: 115

Type genus: *Schizoglyphus* Mahunka, 1978

Genus ***Schyzoglyphus*** Mahunka

*Schyzoglyphus* Mahunka, 1978: 115

Type species: *Schizoglyphus biroi* Mahunka, 1978

***Schizoglyphus biroi*** Mahunka

*Schizoglyphus biroi* Mahunka, 1978: 115

Type locality: Geelvink [Bay]

Distribution: Indonesia (Western New Guinea)

Host: *Tagalus tibialis* (Coleoptera: Tenebrionidae)

### Index of Schyzoglyphidae

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

***biroi***, ***Schizoglyphus*** 10

**Schizoglyphidae** 10

***Schizoglyphus*** 10

**Schizoglyphoidea** 10

## Distribution of Schizoglyphidae

Indonesia (Mahunka, 1978) – *Schizoglyphus biroi* [Western New Guinea]

## Hosts of Schizoglyphidae

Insecta

Coleoptera

Fam. Tenebrionidae

*Tagalus tibialis* – *Schizoglyphus biroi*

## Bibliography of Schizoglyphidae

Mahunka S. 1978. Schizoglyphidae fam. n. and new taxa of Acaridae and Anoetidae (Acari: Acarida). – Acta Zoologica Academiae Scientiarum Hungaricae, 24(1–2): 115.

## The Mite Superfamily Histiostomatoidea (Anoetoidea)

The Superfamily contains only one family - Histiostomatidae (Anoetidae).

## The Mite Family Histiostomatidae (Anoetidae)

Histiostomatidae Berlese, 1897

Anoetidae Oudemans, 1904; Hughes & Jackson, 1958

Small or middle-sized mites (250–900  $\mu\text{m}$ ), living in rotten plant material, in the dung and fungi, some of them on animals (Hirudinea, Crustacea, Myriapoda, Insecta, Mammalia). Their study starts with the description of *Hypopus feroniarum* Dufour, 1839, *Hypopus alicola* Dujardin, 1842 and the first genera *Anoetus* Dujardin, 1842 and *Histiostoma* Kramer, 1876. Follow the many publications of Oudemans, who described in 1904 the family Anoetidae. However, OConnor (1984) insisted that the family name Histiostomatidae Berlese, 1897 antedates Anoetidae Oudemans, 1904, and since than the widely known name Anoetidae has been replaced. Vitzthum (1931) composed

the review of 10 genera of Anoetidae. Two revisions of the family took place almost simultaneously: of Scheucher (1957) and of Hughes & Jackson (1958). Until the revision of Scheucher (1957) only 12 valid genera have been described, seven of them by Oudemans: *Anoetus* Dujardin, 1842, *Histiostoma* Kramer, 1876, *Zwickia* Oudemans, 1924, *Anoetoglyphus* Vitzthum, 1927, *Glyphanoetus* Oudemans, 1929, *Myianoetus* Oudemans, 1929, *Seliea* Oudemans, 1929, *Munduytia* Oudemans, 1929, *Cederhjelmia* Oudemans, 1931, *Creutzeria* Oudemans, 1932, *Chiropteranoetus* Womersley, 1942, *Prowichmannia* Radford, 1950. From the 45 genera described after 1950 16 are due to A. Fain and co-authors and 20 to S. Mahunka and co-authors (most of them monospecific). The other major contributors are Sevastyanov, OConnor, Southcott, Fashing, Woodring, Samšinák, Nesbitt, Ashfaq & Sarwar, Ashfaq, Chaudhri & Aheer, Eraky, and others. From the 58 genera 34 are monotypic. Only six genera include more than 10 sp. – *Histiostoma* (236), *Anoetus* (93), *Myianoetus* (48), *Anoetoglyphus* (15), *Glyphanoetus* (14), and *Rhopalanoetus* (11).

Still exists the *Anoetus* – *Histiostoma* problem. According to Woodring & Moser (1970), "...there is sufficient distinction between the concept of *Anoetus* and *Histiostoma* to warrant the maintenance of the separate groups at the generic level. In this case the older name *Anoetus* has priority over *Histiostoma*, and *Histiostoma* Kramer, 1876 must be synonymized under *Anoetus* Dujardin, 1842, which is the type and name-bearing genus of the family Anoetidae". However, for Sevastianov (1975) *Histiostoma* is junior homonym of *Anoetus*.

## Composition of Histiostomatidae (Anoetidae)

Fam. **Histiostomatidae** (Anoetidae) - 58 gen., 522 sp.

Subfam. **Ceylanoetinae** Mahunka, 1974–6 gen., 15 sp.

*Ceylanoetus* Mahunka, 1974–1 sp.

*Chiropteranoetus* Womersley, 1942–1 sp.

*Conglanoetus* Mahunka, 1978 (= *Comyianoetus* Fain et Philips, 1979) – 3 sp.

*Capronomoia* Mahunka, 1976–7 sp.

*Creutzeria* Oudemans, 1932–2 sp.

*Curculanoetus* Fain, 1974–1 sp.

Subfam. **Fibulanoetinae** Fain, Camerik, Lukoschus et Kniest, 1980–3 gen., 18 sp.

*Fibulanoetus* Mahunka, 1973–3 sp.

*Ghanoetus* Mahunka, 1973–1 sp.

*Glyphanoetus* Oudemans, 1929–14 sp.

Subfam. **Histiostomatinae** Berlese, 1897 (Anoetinae Oudemans, 1904) - 46 gen., 489 sp.

*Ameranoetus* Ide et Mahunka, 1978–1 sp.

- Amyzanoetus* Fain, 1976–1 sp.  
*Ancyranoetus* Fain et Santiago-Blay, 1993–1 sp.  
*Anoetoglyphus* Vitzthum, 1927–15 sp.  
*Anoetus* Dujardin, 1842–93 sp. (?)(= *Nodipalpus* Karpelles, 1893)  
*Aphodanoetus* Bongers, OConnor et Lukoschus, 1985–1 sp.  
*Auricanoetus* Fain et Zumpt, 1974–1 sp.  
*Austranoetus* Fain, 1976–1 sp.  
*Bonomoia* Oudemans, 1911–9 sp.  
*Bothyanoetus* Fain et Camerik, 1978–1 sp.  
*Cederhjelmia* Oudemans, 1931–1 sp.  
*Chiloanoetus* Fain, 1974–1 sp.  
*Hauserania* Mahunka, 1972–2 sp.  
*Hexanoetus* Fain et Philips, 1979–1 sp.  
*Histiostoma* Kramer, 1876–236 sp.  
    *Cavanoetus* Mahunka, 1982  
    *Histiostoma* Kramer, 1876  
    *Ichtanoetus* Fain et Belpaire, 1985  
*Hormosianoetus* Fain, 1980–1 sp.  
*Hymenanoetus* Mahunka, 1963–1 sp.  
*Insulanoetus* Sevastyanov, 1973–1 sp.  
*Kanoetus* Samšínák, 1966–3 sp.  
*Kaszabanoetus* Mahunka, 1976–1 sp.  
*Loxanoetus* Fain, 1970–2 sp.  
*Munduytia* Oudemans, 1929–1 sp.  
*Nepenthacarus* Fashing, 2002–1 sp.  
*Otanoetus* Fain et Zumpt, 1974–1 sp.  
*Ovanoetus* Fain et van Goethem, 1985–1 sp.  
*Peripatetes* Mahunka, 1976–1 sp.  
*Porrhanoetus* Mahunka, 1963–1 sp.  
*Probonomoia* Fain et Rack, 1987–9 sp.  
*Prowichmannia* Radford, 1950–3 sp.  
*Psyllanoetus* Fain et Beaucournu, 1973–3 sp.  
*Pteranoetus* Mahunka, 1978–4 sp.  
*Rhaphidothrix* Mahunka, 1967–3 sp.  
*Rhopalanoetus* Scheucher, 1957–11 sp.  
*Richardanoetus* Samšínák, 1989–1 sp.  
*Sarraceniopus* Fashing et OConnor, 1984–3 sp.  
*Scheucheria* Mahunka, 1969–1 sp.  
*Scutanoetus* Mahunka, 1969–1 sp.  
*Seliea* Oudemans, 1929–1 sp.

- Semianoetus* Mahunka, 1976–2 sp.  
*Stercoranoetus* Mahunka et Mahunka-Papp, 1991–2 sp.  
*Synanoetus* Mahunka, 1972–1 sp.  
*Syringanoetus* Fain, 1980–2 sp.  
*Teinokyra* Mahunka, 1973–1 sp.  
*Traskorchestianoetus* Fain et Colloff, 1990–2 sp.  
*Xenanoetus* Mahunka, 1969–5 sp.  
*Zwickia* Oudemans, 1924–3 sp.  
Subfam. **Myianoetinae** Scheucher, 1957–48 sp.  
*Myianoetus* Oudemans, 1929–48 sp.  
Subfam. **Scolianoetinae** Fain, 1974–5 sp.  
*Scolianoetus* Fain, 1974–5 sp.  
Subfam. **Spinanoetinae** Scheucher, 1957–4 sp.  
*Spinanoetus* Scheucher, 1957–4 sp.

## Catalogue of Histiostomatidae

### Family **Histiostomatidae** Berlese

Histiostomatidae Berlese, 1897

Anoetidae Oudemans, 1904: 191. Type: *Anoetus* Dujardin, 1842

Nodipalpidae Oudemans, 1923: 206

Kaszabanoetinae Mahunka, 1976: 318

Type genus: *Histiostoma* Kramer, 1876

### Subfamily **Ceylanoetinae** Mahunka

Ceylanoetinae Mahunka, 1974c: 507

Type genus: *Ceylanoetus* Mahunka, 1974

Glyphanoetinae Mahunka, 1972: 371

Type genus: *Glyphanoetus* Oudemans, 1929

### Genus **Ceylanoetus** Mahunka

*Ceylanoetus* Mahunka, 1974c: 506

Type species: *Ceylanoetus excavatus* Mahunka, 1974

### ***Ceylanoetus excavatus*** Mahunka

*Ceylanoetus excavatus* Mahunka, 1974c: 507

Type locality: Central, Mahaweli Ganga, “7 Meilen flussabwärts von Kandy”

Distribution: Sri Lanka



Genus ***Chiropteranoetus*** Womersley

*Chiropteranoetus* Womersley, 1942: 92

Type species: *Chiropteranoetus chalinolobus* Womersley, 1942

***Chiropteranoetus chalinolobus*** Womersley

*Chiropteranoetus chalinolobus* Womersley, 1942: 92

Type locality: Australia

Distribution: Australia

Genus ***Conglanoetus*** Mahunka

*Conglanoetus* Mahunka, 1978: 143

*Comyianoetus* Fain & Philips 1979: 147 – Type: *Comyianoetus denticulatus* Fain et Philips, 1979

Type species: *Conglanoetus ornatofoveolatus* Mahunka, 1978

***Conglanoetus denticulatus*** (Fain et Philips)

*Comyianoetus denticulatus* Fain & Philips, 1979: 147; Fain et al., 1993: 17

*Conglanoetus denticulatus* (Fain et Philips):

Type locality: Syracuse, N.Y.

Distribution: Norway, USA (N.Y.)

Host: nest of *Bubo bubo* and on *Trox scaber* (Coleoptera: Trocidae)

***Conglanoetus ornatofoveolatus*** Mahunka

*Conglanoetus ornatofoveolatus* Mahunka, 1978: 143

Type locality: Oriente 00°24'S, 76°36'W, Limoncocha

Distribution: Ecuador

Host: *Labidus praedator* (Hymenoptera: Formicidae, Dorylinae)

***Conglanoetus puteanus*** (Fain)

*Comyianoetus puteanus* Fain, in Fain, Vangeluwe, Degreef & Wauthy, 1993: 17

*Conglanoetus puteanus* (Fain):

Type locality: Belgium

Distribution: Belgium

Genus ***Capronomoia*** Mahunka

*Capronomoia* Mahunka, 1976b: 321

Type species: *Bonomoia sphaerocerae* Vitzthum, 1922

***Capronomoia asper*** Ashfaq et Chaudhri

*Capronomoia asper* Ashfaq & Chaudhri, 1988: 355

*Copronomoia asper* Ashfaq & Sarwar, 2001: 129

Type locality: 5 km N of Faisalabad

Distribution: Pakistan

***Capronomoia bellulus*** Ashfaq et Chaudhri

*Capronomoia bellulus* Ashfaq & Chaudhri, 1988: 352

*Copronomoia bellulus*: Ashfaq & Sarwar, 2001: 129

Type locality: 3 km W Murree

Distribution: Pakistan

***Capronomoia gradatus*** Ashfaq et Sarwar

*Copronomoia gradatus* Ashfaq & Sarwar, 2001: 127

Type locality: Quetta

Distribution: Pakistan

***Capronomoia mahunkai*** Eraky

*Copronomoia mahunkai* Eraky, 1999: 55; Abdelgayed et al., 2019: 32

Type locality: Assiut

Distribution: Egypt

***Capronomoia pango*** Ashfaq et Chaudhri

*Capronomoia pango* Ashfaq & Chaudhri, 1988: 350

*Copronomoia pango* Ashfaq & Sarwar, 2001: 129

Type locality: 5 km east of Faisalabad

Distribution: Pakistan

***Capronomoia sphaerocerae*** (Vitzthum)

*Bonomoia sphaerocerae* Vitzthum, 1922: 545; Scheucher, 1957: 365; Mahunka, 1970: 70

*Capronomoia sphaerocerae* (Vitzthum): Mahunka, 1976: 321

Type locality: Germany

Distribution: Germany, Hungary, Saudi Arabia, Syria

Hosts: *Sphaerocera subsultans* (Diptera: Sphaeroceridae [Syrphidae]); also on Borboridae, Scatophagidae and other Diptera.

***Capronomoia trossis*** Ashfaq et Sarwar

*Capronomoia trossis* Ashfaq & Sarwar, 2001: 125

Type locality: Khanewal

Distribution: Pakistan

Genus ***Creutzeria*** Oudemans

*Creutzeria* Oudemans, 1932: 207

Type species: *Creutzeria tobaica* Oudemans, 1932

***Creutzeria seychellensis*** Nesbitt*Creutzeria seychellensis* Nesbitt, 1979: 1202

Type locality: Seychelles

Distribution: Seychelles

***Creutzeria tobaica*** Oudemans*Creutzeria tobaica* Oudemans, 1932: 207; Buitendijk, 1945: 363

Type locality: Haranggaol

Distribution: Indonesia

Genus ***Curculanoetus*** Fain*Curculanoetus* Fain, 1974: 66Type species: *Curculanoetus rhynchophorus* Fain, 1974***Curculanoetus rhynchophorus*** Fain*Curculanoetus rhynchophorus* Fain, 1974: 66

Type locality: Lemba nr. Kinshasa

Distribution: DR Congo

Host: *Rhynchophorus phoenicis* (Coleoptera: Curculionidae)Subfamily ***Fibulanoetinae*** Fain, Camerik, Lukoschus et Kniest*Fibulanoetinae* Fain, Camerik, Lukoschus & Kniest, 1980: 39Type genus: *Fibulanoetus* Mahunka, 1973Genus ***Fibulanoetus*** Mahunka*Fibulanoetus* Mahunka, 1973a: 102Type species: *Fibulanoetus labiatus* Mahunka, 1973***Fibulanoetus labiatus*** Mahunka*Fibulanoetus labiatus* Mahunka, 1973a: 102

Type locality: Meru

Distribution: Tanzania

***Fibulanoetus longitarsus*** Fain, Camerik, Lukoschus et Kniest*Fibulanoetus longitarsus* Fain, Camerik, Lukoschus & Kniest, 1980: 42

Type locality: Thamaga

Distribution: Botswana

Host: *Scarabaeus galenus* (Coleoptera: Scarabaeidae)***Fibulanoetus mahunkai*** Fain, Camerik, Lukoschus et Kniest*Fibulanoetus mahunkai* Fain, Camerik, Lukoschus & Kniest, 1980: 41

Type locality: Mahalapye

Distribution: Botswana

Host: *Scarabaeus galenus* (Coleoptera: Scarabaeidae)

Genus ***Ghanoetus*** Mahunka

*Ghanoetus* Mahunka, 1973a: 104

Type species: *Ghanoetus marmoreus* Mahunka, 1973

***Ghanoetus marmoreus*** Mahunka

*Ghanoetus marmoreus* Mahunka, 1973a: 104; 1975: 60

Type locality: Kumasi (Ghana)

Distribution: Gambia, Ghana

Genus ***Glyphanoetus*** Oudemans

*Glyphanoetus* Oudemans, 1929: 450

Type species: *Glyphanoetus fulmeki* Oudemans, 1929 (= *Hypopus phyllotrichus* Berlese, 1881)

***Glyphanoetus africanus*** Mahunka

*Glyphanoetus africanus* Mahunka, 1967a: 172

Type locality: Kindamba, Meya, Bangu Forest

Distribution: Rep. of the Congo (Brazzaville)

***Glyphanoetus brevisetus*** Mahunka

*Glyphanoetus brevisetus* Mahunka, 1963a: 38

Type locality: Cazombo (Alto Zambeze)

Distribution: Angola

***Glyphanoetus eboris*** Fain

*Glyphanoetus eboris* Fain, 1974: 88

Type locality: La Savane de Lamto

Distribution: Ivory Coast

***Glyphanoetus flagellatus*** Mahunka

*Glyphanoetus flagellatus* Mahunka, 1963d: 370

Type locality: Olkokola, nest of *Tachyoryctes* sp.

Distribution: Tanzania

***Glyphanoetus incanus*** Ashfaq, Sarwar et Akbar

*Glyphanoetus incanus* Ashfaq, Sarwar & Akbar, 1999: 21

Type locality: Lahore, Shimla Hill

Distribution: Pakistan

***Glyphanoetus leptos*** Ashfaq, Sarwar Akbar

*Glyphanoetus leptos* Ashfaq, Sarwar & Akbar, 1999: 23

Type locality: Azad Kashmir, Kotli

Distribution: Pakistan

***Glyphanoetus longus*** Mahunka

*Glyphanoetus longus* Mahunka, 1969b: 371

Type locality: Mt. Meru, eastern slope

Distribution: Tanzania

***Glyphanoetus mahunkai*** Eraky

*Glyphanoetus mahunkai* Eraky, 1994: 218

Type locality: Egypt

Distribution: Egypt

***Glyphanoetus micidus*** Chaudhri

*Glyphanoetus micidus* Chaudhri, 1986: 212

Type locality: Pakistan

Distribution: Pakistan

***Glyphanoetus nomiensis*** Cross

*Glyphanoetus nomiensis* Cross, 1968: 329

Type locality: Wyoming

Distribution: USA (Wyoming, Louisiana)

Hosts: *Nomia melanderi*, *N. nortoni* (Hymenoptera: Halictidae)

***Glyphanoetus pappi*** Mahunka

*Glyphanoetus pappi* Mahunka, 1982: 63

Type locality: Juan Fernandez Islands

Distribution: Juan Fernandez Islands

***Glyphanoetus phyllotrichus*** (Berlese)

*Hypopus phyllotrichus* Berlese, 1881: AMS Fasc.9, No 2

*Anoetus phyllotrichus* Oudemans, 1905b: 238 – from “*Synchitodes crenatus*” - Velp

*Glyphanoetus fulmeki* Oudemans, 1929: 451

*Glyphanoetus phyllotrichus* (Berlese): Scheucher, 1957: 351; Samšinák, 1984: 62; Mahunka, 1970: 59; Mahunka & Mahunka-Papp: 1991: 286

Type locality: Padua (Italy)

Distribution: Austria, Germany, Holland, Hungary, Italy; Cabo Verde

Hosts: *Ips laricis*, *I. proximus* (Coleoptera: Curculionidae, Scolytinae), *Limosina talparum* (Diptera: Sphaeroceridae)

***Glyphanoetus processum*** Eraky

*Glyphanoetus processum* Eraky, 1994: 217

Type locality: Egypt

Distribution: Egypt

***Glyphanoetus szunyoghyi*** Mahunka

*Glyphanoetus szunyoghyi* Mahunka, 1961: 528 (as "*Gylphanoetus*")

Type locality: Arusha

Distribution: Tanzania

***Glyphanoetus venustissimus*** (Berlese)

*Anoetus venustissimus* Berlese, 1918: 115

*Glyphanoetus venustissimus* (Berlese): Scheucher, 1957: 354

Type locality: Florence

Distribution: Germany, Italy

Subfamily **Histiostomatinae** Scheucher

Anoetinae Oudemans, 1904: 191 - Type genus: *Anoetus* Dujardin, 1842

Histiostomatini Scheucher, 1957: 287; Fain, 1974: 58

Histiostominae Scheucher: Fain, 1974: 63

Histiostomatinae Berlese, 1897; Fain, 1974: 58

Type genus: *Histiostoma* Kramer, 1876: 105

Genus ***Ameranoetus*** Ide et Mahunka

*Ameranoetus* Ide & Mahunka, 1978: 47

Type species: *Ameranoetus hematobii* Ide et Mahunka, 1978

***Ameranoetus hematobii*** Ide et Mahunka

*Ameranoetus hematobii* Ide & Mahunka, 1978: 48

Type locality: USA

Distribution: USA

Host: *Haematobia irritans* (Diptera: Muscidae)

Genus ***Amyzanoetus*** Fain

*Amyzanoetus* Fain, 1976: 318

Type species: *Amyzanoetus halophilus* Fain, 1976

***Amyzanoetus halophilus*** Fain*Amyzanoetus halophilus* Fain, 1976: 318

Type locality: Kerguelen Island

Distribution: Kerguelen Island

Genus ***Ancyranoetus*** Fain et Santiago-Blay*Ancyranoetus* Fain & Santiago-Blay, 1993: 337Type species: *Ancyranoetus virkkii* Fain et Santiago-Blay, 1993***Ancyranoetus virkkii*** Fain et Santiago-Blay*Ancyranoetus virkkii* Fain & Santiago-Blay, 1993: 339

Type locality: Puerto Rico

Distribution: Puerto Rico

Host: *Lema nigripes* (Coleoptera: Chrysomelidae, Criocerinae)Genus ***Anoetoglyphus*** Oudemans ]*Anoetoglyphus* Oudemans [Vitzthum in litt.], 1927: 75Type species: *Anoetoglyphus ateuchi* Oudemans, 1927***Anoetoglyphus africanus*** Mahunka*Anoetoglyphus africanus* Mahunka, 1965: 448

Type locality: Lefinie Reservation, Nambouli River

Distribution: Congo - Brazaville

***Anoetoglyphus antennatus*** Mahunka*Anoetoglyphus antennatus* Mahunka, 1975: 58

Type locality: Kumasi

Distribution: Ghana

***Anoetoglyphus ateuchi*** Vitzthum*Anoetoglyphus ateuchi* Oudemans, 1927: 75 (Vitzthum, in litt.)

Type locality: South Italy

Distribution: Italy, Sicily

Host: *Scarabaeus semipunctatus* (Coleoptera: Scarabaeidae)***Anoetoglyphus bifastigatus*** Mahunka*Anoetoglyphus* (?) *bifastigatus* Mahunka, 1967: 9

Type locality: Dundo

Distribution: Angola

Host: *Rhynchophorus phoenicis* (Coleoptera: Curculionidae)

***Anoetoglyphus copridis*** Samšínák

*Anoetoglyphus copridis* Samšínák, 1962: 92

Type locality: Neusiedler See

Distribution: Austria, Hungary

Host: *Copris lunaris* (Coleoptera: Scarabaeidae, Coprinae)

***Anoetoglyphus ellipticus*** Mahunka

*Anoetoglyphus ellipticus* Mahunka, 1973a: 114

Type locality: Nakpanduri

Distribution: Ghana

***Anoetoglyphus globulus*** Mahunka

*Anoetoglyphus globulus* Mahunka, 1975: 55

Type locality: Kumasi

Distribution: Ghana

***Anoetoglyphus immaturus*** Mahunka

*Anoetoglyphus* (?) *immaturus* Mahunka, 1965: 448

Type locality: Lefinie Reservation, Nambouli River

Distribution: Republic of Congo - Brazaville

***Anoetoglyphus langi*** Mahunka

*Anoetoglyphus langi* Mahunka, 1978: 131

Type locality: Lai Khe

Distribution: Vietnam

Hosts: Coleoptera (Scarabaeidae)

***Anoetoglyphus latus*** Mahunka

*Anoetoglyphus latus* Mahunka, 1978: 56

Type locality: Ghana

Distribution: Ghana

***Anoetoglyphus levis*** Mahunka

*Anoetoglyphus levis* Mahunka, 1967d: 161

Type locality: Cuc-phuong, Bong

Distribution: Vietnam

***Anoetoglyphus lootsi*** Mahunka

*Anoetoglyphus lootsi* Mahunka, 1979: 140

Type locality: Transvaal, Nylsvley Res., 35 km NE from Pretoria



Distribution: South Africa

***Anoetoglyphus polygonatus*** Mahunka

*Anoetoglyphus polygonatus* Mahunka, 1973a: 302

Type locality: Nakpanduri

Distribution: Ghana

***Anoetoglyphus szunyoghyi*** Mahunka

*Anoetoglyphus szunyoghyi* Mahunka, 1973a: 115; 1975: 59

Type locality: Banda-Kwanta (Ghana)

Distribution: Gambia, Ghana

***Anoetoglyphus tunesiensis*** Mahunka

*Anoetoglyphus tunesiensis* Mahunka, 1981: 135

Type locality: Tunisia

Distribution: Tunisia

Genus ***Anoetus*** Dujardin

*Anoetus* Dujardin, 1842: 316

*Nodipalpus* Karpelles, 1893: 128

Type species: *Hypopus alicola* Dujardin, 1842

***Anoetus aelleni*** Mahunka

*Anoetus aelleni* Mahunka, 1974d: 508

Type locality: Central, Mahaweli Ganga, "7 Meilen flussabwärts von Kandy"

Distribution: Sri Lanka

***Anoetus akodoni*** Mahunka

*Anoetus akodoni* Mahunka, 1963c: 499

Type locality: El Bolsón

Distribution: Argentina

***Anoetus alicola*** (Dujardin)

*Hypopus alicola* Dujardin, 1842: 316

*Anoetus discrepans* Oudemans, 1903 : 103. Type: Bremen, on *Halictus 4-notatus*; Oudemans, 1903: 103

*Anoetus alicola* (Dujardin): Buitendijk, 1945: 361; Scheucher, 1957: 374

Type locality: Hüllden an de Aller

Distribution: Germany

Hosts: *Halictus 4-notatus* (Hymenoptera: Halictidae)

***Anoetus angularis*** Mahunka

*Anoetus angularis* Mahunka, 1974d : 511

Type locality: Uva, Diyaluma Waterfall

Distribution: Sri Lanka

***Anoetus anoetopsis*** Mahunka

*Anoetus anoetopsis* Mahunka, 1973a : 89

Type locality: Bui Camp

Distribution: Ghana

Host: Coleoptera

***Anoetus bradymeri*** Mahunka

*Anoetus bradymeri* Mahunka, 1972c: 349

Type locality: Tulagi

Distribution: Salomon Islands

Hosts: *Bradymerus leveri*, *Androsus greensladei* (Coleoptera: Tenebrionidae)

***Anoetus bushlandi*** Hughes et Jackson

*Anoetus bushlandi* Hughes & Jackson, 1958: 133

Type locality: Kerrville, Texas

Distribution: USA (Texas)

Hosts: on stable fly

***Anoetus cacuminatum*** Mahunka

*Anoetus cacuminatum* Mahunka, 1969: 180

Type locality: Mongolia

Distribution: Mongolia

***Anoetus caljubiensis*** Gad Hamada Hassan et Sevastianov

*Anoetus caljubiensis* Gad Hamada Hassan & Sevastianov, in Radi & Sevastyanov, 1991: 48

Type locality: Egypt

Distribution: Egypt

Host: *Cataglyphis bicolor* (Hymenoptera: Formicidae)

***Anoetus capillatus*** Mahunka

*Anoetus capillatus* Mahunka, 1967d: 151

Type locality: Giang Seo

Distribution: Vietnam

***Anoetus castrii*** Mahunka

*Anoetus castrii* Mahunka, 1972d: 306

Type locality: Maipu, Quebrada, La Plata  
Distribution: Chile

***Anoetus ceylanensis*** Mahunka

*Anoetus ceylanensis* Mahunka, 1974d : 511

Type locality: Central, Mahaweli Ganga, "7 Meilen flussabwärts von Kandy"

Distribution: Sri Lanka

***Anoetus chilensis*** Mahunka

*Anoetus chilensis* Mahunka, 1972d: 309

Type locality: Curacavi, Los Cerillos

Distribution: Chile

***Anoetus cirrosus*** Mahunka

*Anoetus cirrosus* Mahunka, 1972d: 308

Type locality: Maipu, Quebrada, La Plata

Distribution: Chile

***Anoetus collis*** Mahunka

*Anoetus collis* Mahunka, 1965: 445

Type locality: Lefinie Reservation, Nambouli River

Distribution: Congo (Brazzaville)

***Anoetus congoensis*** Mahunka

*Anoetus congoensis* Mahunka, 1967a: 166

Type locality: Kindamba, Meya, Bangu forest

Distribution: Rep. of the Congo (Brazzaville)

***Anoetus coprophilus*** Mahunka

*Anoetus coprophilus* Mahunka, 1965: 446

Type locality: Lefinie Reservation, Nambouli River

Distribution: Rep. of Congo (Brazzaville)

***Anoetus debilis*** Woodring

*Anoetus debilis* Woodring, 1973: 319

Type locality: Turrialba, Cartago Prov.

Distribution: Costa Rica

***Anoetus decorus*** Mahunka

*Anoetus decorus* Mahunka, 1967d: 152

Type locality: Cuc-phuong, Bong

Distribution: Vietnam

***Anoetus dolifer*** Mahunka

*Anoetus dolifer* Mahunka, 1977: 94

Type locality: Switzerland, Wallis, Bagnes

Distribution: France, Switzerland

Hosts: *Myrmica ruginodis*, *M. sabuleti* (Hymenoptera: Formicidae - anthills)

***Anoetus domrowi*** (Fain)

*Anoetostoma domrowi* Fain, 1968: 246

Type locality: Butemu Village, Finisterre Range, Madang, Central District

Distribution: Papua New Guinea

Host: *Scolioptthalmus* sp. near *micans* (Diptera: Chloropidae)

***Anoetus dudichi*** Mahunka

*Anoetus dudichi* Mahunka, 1962: 431

Type locality: Jósva, Nagyoldal

Distribution: Hungary

***Anoetus endroedyyoungai*** Mahunka

*Anoetus endroedyyoungai* Mahunka, 1973a : 92

Type locality: Bui Camp

Distribution: Ghana

***Anoetus exornatus*** Sevastianov

*Anoetus exornatus* Sevastianov, 1973: 849

Type locality: Roshtino Village, Leningradskaya Obl.

Distribution: Russia

Host: *Formica rufa* (Hymenoptera: Formicidae)

***Anoetus feters*** Samšinák

*Anoetus feters* Samšinák, 1989: 97

Type locality: DR Congo

Distribution: DR Congo

Host: *Metaborborus calcaratus* (Diptera: Sphaeroceridae)

***Anoetus fibulatus*** Mahunka

*Anoetus fibulatus* Mahunka, 1973a : 94

Type locality: Meru

Distribution: Tanzania

***Anoetus ghanensis*** Mahunka

*Anoetus ghanensis* Mahunka, 1973: 94

Type locality: Ghana

Distribution: Ghana

***Anoetus grapefruit*** Samšínák

*Anoetus grapefruit* Samšínák, 1989: 95

Type locality: Centre Co. Fillmore Cap

Distribution: USA

Host: Diptera indet.

***Anoetus hauseri*** Mahunka

*Anoetus hauseri* Mahunka, 1972: 1196; 1972e: 951

Type locality: Kephallinia, Aenos

Distribution: Greece (Kephallinia)

***Anoetus halictonida*** (Woodring)

*Histosoma halictonida* Woodring, 1973: 312

*Anoetus halictonida* (Woodring)

Type locality: Canada

Distribution: Canada

***Anoetus helena*** Samšínák

*Anoetus helena* Samšínák, 1989: 95

Type locality: Ecuador

Distribution: Ecuador

Host: *Richardia* (plant)

***Anoetus heliocopridis*** Vitzthum

*Anoetus heliocopridis* Vitzthum, 1926: 182; Mahunka, 1974a : 141

Type locality: Meru (Tanzania)

Distribution: Ghana, Tanzania

***Anoetus helobius*** Sevastianov

*Anoetus helobius* Sevastianov, 1973: 851

Type locality: Hadjibeyskiy Liman nr. Odessa

Distribution: Ukraine

***Anoetus horridus*** Mahunka

*Anoetus horridus* Mahunka, 1972c: 352

Type locality: San Cristobal

Distribution: Salomon Islands

Hosts: *Leiochrodes suturalis*, *Scyophagus piceus* (Coleoptera: Tenebrionidae)

***Anoetus hospitus*** Sevastianov

*Anoetus hospitus* Sevastianov, 1973: 851

Type locality: Tchemerovtsi Village, Hmelnitskaya Obl.

Distribution: Ukraine

Host: anthip of *Myrmica ruginodis* (Hymenoptera: Formicidae)

***Anoetus humilis*** Fain

*Anoetus humilis* Fain, 1974b: 86

Type locality: La Savane de Lamto

Distribution: Ivory Coast

***Anoetus impressus*** Mahunka

*Histiostoma impressum* Mahunka, 1963a : 31; 1963b: 59

*Anoetus impressus* (Mahunka): Mahunka, 1967a: 167; 1973a: 96

Type locality: Angola, Lumeje II, N of Santando Station of C.F.B., Poste de Bussaco (80 km E of Luso)

Distribution: Angola, Rep. of the Congo (Brazaville), DR Congo, Ghana

***Anoetus indetonsus*** Sevastianov

*Anoetus indetonsus* Sevastianov, 1973: 852

Type locality: Odessa area

Distribution: Ukraine

Host: Coleoptera (Carabidae)

***Anoetus indicus*** Oudemans

*Anoetus indicus* Oudemans, 1911: 173; Hughes & Jackson, 1958: 80; Mahunka, 1963a: 32; 1973a : 96

*Histiostoma indicus* (Oudemans): Buitendijl, 1945; Hughes & Jackson, 1958: 80

*Histiostoma indica* (Oudemans): Mahunka, 1963b: 60

Type locality: Java, Banjoewangi

Distribution: Angola, Ghana, Indonesia (Java)

Host: Blattida fam., gen. sp.

***Anoetus insolita*** Woodring et Moser

*Anoetus insolita* Woodring & Moser, 1970: 1237

Type locality: Elizabeth, La.

Distribution: USA

Host: from the boring dust of *Dendroctonus frontalis* and *P. taeda* (Coleoptera: Curculionidae)

***Anoetus irinus*** Hassan et Sevastianov*Anoetus irinus* Hassan & Sevastianov, in Radi & Sevastyanov 1991: 45

Type locality: Egypt

Distribution: Egypt

Host: *Iris tingitana* (plant)***Anoetus kaszabi*** Mahunka*Anoetus kaszabi* Mahunka, 1969: 181

Type locality: Mongolia

Distribution: Mongolia

***Anoetus komarpictoris*** Samšínák*Anoetus komarpictoris* Samšínák, 1970: 33

Type locality: Kozákov

Distribution: Czech Rep.

Host: *Formica lemani* (Hymenoptera: Formicidae)***Anoetus longipes*** (Oudemans)*Anoetus longipes* Oudemans, 1911: 171; Mahunka, 1967d: 154*Histiostoma longipes* (Oudemans): Buitendijk, 1945: 362

Type locality: Banjoewangi

Distribution: Indonesia (Java), Vietnam

Host: Blattida fam. gen. sp.

***Anoetus longisetus*** Mahunka*Anoetus longisetus* Mahunka, 1967a: 167; 1973a : 96

Type locality: Kindamba, Meya, Louolo river

Distribution: Republic of the Congo, Ghana

***Anoetus longitubus*** Mahunka*Anoetus longitubus* Mahunka, 1969b: 365

Type locality: Mt. Meru, eastern slope

Distribution: Tanzania

***Anoetus lunulatus*** Mahunka*Anoetus lunulatus* Mahunka, 1971: 1198

Type locality: Kephallinia

Distribution: Greece (Kephallinia)

***Anoetus machadoi*** Mahunka*Anoetus machadoi* Mahunka, 1963b: 63; 1967a: 168

Type locality: Dundo, Cundueji River (Angola)

Distribution: Angola, Rep. of the Congo

***Anoetus macrosuctus*** Fain

*Anoetus macrosuctus* Fain, 1974b: 86

Type locality: La Savane de Lamto

Distribution: Ivory Coast

***Anoetus microti*** Mahunka

*Anoetus microti* Mahunka, 1969: 182

Type locality: Mongolia

Distribution: Mongolia

***Anoetus moshtohorensis*** Gad Hamada, Hassan et Sevastianov

*Anoetus moshtohorensis* Gad Hamada Hassan & Sevastianov, in Radi & Sevastyanov  
1991: 47

Type locality: Egypt

Distribution: Egypt

Host: *Labidura riparia* (Dermaptera: Labiduridae)

***Anoetus myrmicarum*** (Scheucher)

*Histiostoma myrmicarum* Scheucher, 1957: 300; Mahunka, 1961: 445

*Anoetus myrmicarum* (Scheucher): Samšinak, 1961: 204; Kurosa, 1976: 62

Type locality: Erlangen, Germany

Distribution: China, Czech Rep., Germany, Hungary, Malaysia

Hosts: *Coptotermes formosanus*, *Macrotermes malaccensis* (Isoptera: Rhinotermitidae, Termitidae); ants (Hymenoptera, Formicidae: *Myrmica*, *Lasius*, *Camponotus*, *Formica*)

***Anoetus neglectus*** Oudemans

*Anoetus neglectus* Oudemans, 1902: 46

Type locality: Bremen

Distribution: Germany

Host: *Nicrophorus humator* (Coleoptera: Silphidae)

***Anoetus notabilis*** Sellnick

*Anoetus notabilis* Sellnick, 1940: 127

Type locality: Island

Distribution: Island

***Anoetus opertus*** Sevastianov

*Anoetus opertus* Sevastianov, 1973: 852

Type locality: Tchemerovtsi Village, Hmelnitskaya Obl.



Distribution: Ukraine

Host: *Myrmica rubra* (Hymenoptera: Formicidae)

***Anoetus ornatissimus*** Mahunka

*Anoetus ornatissimus* Mahunka, 1973a: 96

Type locality: Meru

Distribution: Tanzania

***Anoetus ornatus*** Mahunka

*Anoetus ornatus* Mahunka, 1967d: 154

Type locality: Tu-li

Distribution: Vietnam

***Anoetus pannonicus*** Mahunka

*Anoetus pannonicus* Mahunka, 1968: 251

Type locality: Hungary

Distribution: Hungary

Host: phoretic on *Dryocoetes villosus* (Coleoptera: Curculionidae)

***Anoetus parmatus*** Sevastianov

*Anoetus parmatus* Sevastianov, 1973: 853

Type locality: Tchemerovtsi Village, Hmelnitskaya Obl.

Distribution: Ukraine

***Anoetus pauliani*** Mahunka

*Anoetus pauliani* Mahunka, 1967a: 168

Type locality: Mount Foari Reservation

Distribution: Rep. of the Congo (Brazzaville)

***Anoetus pini*** (Scheucher)

*Histiostoma pini* Scheucher, 1957: 317

*Anoetus pini* (Scheucher): Woodring & Mosaer, 1970: 1255

Type locality: Erlangen

Distribution: Belgium, Hungary, Germany

Host: phoretic on *Hylastes ater* and *H. cunicularius* (Coleoptera: Curculionidae)

***Anoetus pocsi*** Mahunka

*Anoetus pocsi* Mahunka, 1967d: 156

Type locality: Giang Seo

Distribution: Vietnam

***Anoetus polynesiacus*** Vitzthum

*Anoetus polynesiacus* Vitzthum, 1920: 64

Type locality: Fiji

Distribution: Fiji

Host: *Eubactrus semiaeneus* (Coleoptera: Brentidae)

***Anoetus porosus*** Mahunka

*Anoetus porosus* Mahunka, 1969: 183

Type locality: Mongolia

Distribution: Mongolia

***Anoetus privorai*** Samšinák

*Anoetus privorai* Samšinák, 1962: 89

Type locality: Roccamena, Palermo (Sicily)

Distribution: Sicily

Host: *Aphaenogaster testaceopilosa* (Hymenoptera: Formicidae)

***Anoetus punctulatus*** Mahunka

*Anoetus punctulatus* Mahunka, 1967a: 169

Type locality: Brazzaville, Orstrom Parc

Distribution: Rep. of the Congo (Brazzaville)

***Anoetus reticulatus*** Mahunka

*Anoetus reticulatus* Mahunka, 1969b: 366

Type locality: Mt. Meru, eastern slope

Distribution: Tanzania

***Anoetus retractus*** Sevastianov

*Anoetus retractus* Sevastianov, 1973: 853

Type locality: Jaralgach Island (Black Sea)

Distribution: Jaralgach Isl., Crimea

Hosts: *Bledius bicornis*, *B. sarmaticus* (Coleoptera: Staphylinidae, Oxythelinae)

***Anoetus samiensis*** Mahunka

*Anoetus samiensis* Mahunka, 1972: 952

Type locality: Kephallinia: Sami

Distribution: Greece (Kephallinia)

***Anoetus serratus*** (Mahunka)

*Histiostoma serrata* Mahunka, 1962b: 429

*Anoetus serratus* (Mahunka), 1970: 26; Sevastianov, 1975: 400

Type locality: Balatonfenyves  
 Distribution: Hungary  
 Host: *Demetrias imperialis* (Coleoptera: Carabidae)

***Anoetus shamyi*** Samšinák  
*Anoetus shamyi* Samšinák, 1970: 36  
 Type locality: Tzasweri  
 Distribution: Russia, Caucasus  
 Host: *Formica lemani* (Hymenoptera: Formicidae)

***Anoetus shanensis*** Mahunka  
*Anoetus shanensis* Mahunka, 1973a: 96  
 Type locality: Borbiri Mt Reserve  
 Distribution: Ghana

***Anoetus sharae*** Gad Hamada Hassan et Sevastianov  
*Anoetus sharae* Gad Hamada Hassan & Sevastianov, in Radi & Sevastyanov 1991: 49  
 Type locality: Egypt  
 Distribution: Egypt

***Anoetus sinuosus*** Mahunka  
*Anoetus sinuosus* Mahunka, 1973a : 299  
 Type locality: Sese  
 Distribution: Ghana

***Anoetus solomoniensis*** Mahunka  
*Anoetus solomoniensis* Mahunka, 1972c: 355  
 Type locality: San Cristobal  
 Distribution: Salomon Islands  
 Host: *Leiochrodes suturalis* (Coleoptera: Tenebrionidae)

***Anoetus sordida*** Woodring et Moser  
*Anoetus sordida* Woodring & Moser, 1970: 1238  
 Type locality: Elizabeth, Louisiana  
 Distribution: Canada, USA (Texas, Georgia, Louisiana)  
 Host: boring dust in galleries of *Dendroctonus frontalis*, *Ips avulsus* and *I. calligraphus* (Col.: Curculionidae, Scolytinae), phoretic on *Carcinops* sp. (Histeridae) and *Corticeus coynei* (Tenebrionidae)

***Anoetus spinipes*** Mahunka  
*Anoetus spinipes* Mahunka, 1973a: 99

Type locality: Kumasi

Distribution: Ghana

***Anoetus spinosus*** Mahunka

*Anoetus spinosus* Mahunka, 1967d: 158

Type locality: Cuc-phuong, Bong

Distribution: Vietnam

***Anoetus striatus*** Mahunka

*Histiostoma striatum* Mahunka, 1963a: 36

*Histiostoma striata* Mahunka, 1963b: 62

*Anoetus striatus* (Mahunka): Mahunka, 1967a: 170

Type locality: Angola, Lumeje II, N of Santando Station of C.F.B., Poste de Bussaco (80 km E of Luso)

Distribution: Angola, Rep. of the Congo (Brazzaville)

Hosts: *Dichaetodrilus incrassatus* (Coleoptera: Carabidae), *Rhynchophorus phoenicis* (Col.: Curculionidae)

***Anoetus sumatrensis*** Oudemans

*Anoetus sumatrensis* Oudemans, 1903: 103

Type locality: Sumatra

Distribution: Indonesia

***Anoetus tauffliebi*** Mahunka

*Anoetus tauffliebi* Mahunka, 1967a: 170

Type locality: Mount Foari Reservation

Distribution: Republic of the Congo (Brazzaville)

***Anoetus topali*** Mahunka

*Anoetus ? topali* Mahunka, 1963c: 497; 1972 : 311

Type locality: Argentina, Chubut

Distribution: Argentina, Chile

***Anoetus toxici*** Mahunka

*Anoetus toxici* Mahunka, 1972: 497; 1972 : 357

Type locality: Guadalcanal

Distribution: Salomon Islands

Host: *Toxicum quadricorne rufipes* (Coleoptera: Tenebrionidae)

***Anoetus turcastanae*** Oudemans

*Anoetus turcastanae* Oudemans, 1917: 392

*Anoetus turcestanae* Oudemans: Buitendijk, 1945: 361

Type locality: "Turkestan"

Distribution: "Turkestan"

Host: *Homalocoprissus tmolus* (Coleoptera: Scarabaeidae)

***Anoetus urcerosus*** Sevastianov

*Anoetus urcerosus* Sevastianov, 1973: 855

Type locality: Tchemerovtsi Village, Hmelnitskaya Obl.

Distribution: Ukraine

Host: anthip of *Formica rufa* (Hymenoptera: Formicidae)

***Anoetus variolatus*** Mahunka

*Anoetus variolatus* Mahunka, 1973a: 100

Type locality: Borbiri Mt. Res.

Distribution: Ghana

***Anoetus vilhenaorum*** Mahunka

*Anoetus vilhenaorum* Mahunka, 1963b: 65

Type locality: Dundo, Cundueji River

Distribution: Angola

***Anoetus virginiana*** Woodring et Moser

*Anoetus virginiana* Woodring & Moser, 1970: 1237; Kurosa, 1976: 62

Type locality: Virginia (USA)

Distribution: Malaysia, USA

***Anoetus vitzthumi*** (Scheucher)

*Histiostoma vitzthumi* Scheucher, 1957: 313

*Anoetus vitzthumi* (Scheucher): Woodring & Moser, 1970: 1256; Sevastianov, 1975: 400

Type locality: Schleswig-Holstein

Distribution: Austria, Germany

Host: *Dendroctonus micans* (Coleoptera: Curculionidae, Scolitinae)

***Anoetus wastis*** Gad Hamada Hassan et Sevastianov

*Anoetus wastis* Gad Hamada Hassan & Sevastianov, in Radi & Sevastyanov 1991: 49

Type locality: Egypt

Distribution: Egypt

Host: *Labidura riparia* (Dermaptera)

Genus ***Aphodanoetus*** Bongers, OConnor et Lukoschus

*Aphodanoetus* Bongers, OConnor & Lukoschus, 1985: 33

Type species: *Aphodanoetus teinophallus* Bongers, OConnor et Lukoschus, 1985

***Aphodanoetus teinophallus*** Bongers, OConnor et Lukoschus

*Aphodanoetus teinophallus* Bongers, OConnor & Lukoschus, 1985: 36

Type locality: Nijmegen

Distribution: Holland

Host: *Aphodius frater* (Coleoptera: Scarabaeidae, Aphodiinae)

Genus ***Auricanoetus*** Fain et Zumpt

*Auricanoetus* Fain & Zumpt, 1974: 99 [as subgenus of *Loxanoetus*]

*Auricanoetus* Fain & Zumpt: Fain 1983: 849 [as genus]

Type species: *Loxanoetus (Auricanoetus) longitarsus* Fain et Zumpt, 1974

***Auricanoetus longitarsus*** (Fain et Zumpt)

*Loxanoetus (Auricanoetus) longitarsus* Fain et Zumpt, 1974: 99; Domrow & Ladds, 1984: 759

*Auricanoetus longitarsus* (Fain et Zumpt): Fain 1983: 849

Type locality: Karumu Game Reserve

Distribution: Uganda

Host: *Syncerus caffer* (Artiodactyla: Bovidae)

Genus ***Austranoetus*** Fain

*Austranoetus* Fain, 1976: 314

Type species: *Austranoetus kerguelenensis* Fain, 1976

***Austranoetus kerguelenensis*** Fain

*Austranoetus kerguelenensis* Fain, 1976: 314

Type locality: Kerguelen

Distribution: Kerguelen

Genus ***Bonomoia*** Oudemans

*Bonomoia* Oudemans, 1911: 174

Type species: *Bonomoia primitiva* Oudemans, 1911

***Bonomoia africana*** Mahunka

*Bonomoia africana* Mahunka, 1967a: 171

Type locality: Mount Foari Reservation

Distribution: Republic of the Congo

***Bonomoia certa*** Woodring et Moser

*Bonomoia certa* Woodring & Moser, 1970: 1252

Type locality: Moskow Mtn., Moskow, Idaho

Distribution: USA

Hosts: *Dendroctonus brevicomis*, *D. pseudotsugae*, *Scolytus ventralis* (Coleoptera: Curculionidae, Scolytinae)

***Bonomoia picturata*** Sevastianov

*Bonomoia picturata* Sevastianov, 1973: 81

Type locality: Khmel'nitskij Rayon

Distribution: Ukraine

***Bonomoia primitiva*** Oudemans

*Bonomoia primitiva* Oudemans, 1911: 174

Type locality: Banjoewangi, Java

Distribution: Indonesia (Java)

Host: Blattida fam., gen., sp.

***Bonomoia probata*** Sevastianov

*Bonomoia probata* Sevastianov, 1973: 82

Type locality: Khmel'nitskij Rayon

Distribution: Ukraine

***Bonomoia recondita*** Sevastianov

*Bonomoia recondita* Sevastianov, 1973: 83

Type locality: Mariyskaya ASSR, Orshanskiy Rayon

Distribution: Russia

Host: *Myrmica ruginodis* (Hymenoptera: Formicidae)

***Bonomoia reticulata*** Mahunka

*Bonomoia reticulata* Mahunka, 1967d: 162

Type locality: Cuc-puong, Bong

Distribution: Vietnam

***Bonomoia rugosa*** Mahunka

*Bonomoia rugosa* Mahunka, 1973a: 301

Type locality: Kwandaso

Distribution: Ghana

***Bonomoia zoheirii*** Metwali et Ahmad

*Bonomoia zoheirii* Metwali & Ahmad, 1987: 85

Type locality: Sharkya Governorate

Distribution: Egypt

Host: ants (Formicidae)

**Bonomoia** sp.

Hosts: *Hybomitra affinis*, *H. epistates*, *H. illota*, *H. lasiophthalmus*, *H. nuda*, *Tabanus quinquestriatus* (Canada)(Mullen et al., 1979)

Genus **Bothyanoetus** Fain et Camerik

*Bothyanoetus* Fain & Camerik, 1978: 170

Type species: *Bothyanoetus pereirai* Fain et Camerik, 1978

**Bothyanoetus pereirai** Fain et Camerik

*Bothyanoetus pereirai* Fain & Camerik, 1978: 170

Type locality: Cotia, Sao Paulo

Distribution: Brazil

Host: *Bothynus deiphobus* (Coleoptera: Scarabaeidae)

Genus **Cederhjelmia** Oudemans

*Cederhjelmia* Oudemans, 1931: 261

Type species: *Cederhjelmia quadriuncinata* Oudemans, 1931

**Cederhjelmia quadriuncinata** Oudemans

*Cederhjelmia quadriuncinata* Oudemans, 1931: 179

Type locality: South Brazil

Distribution: Brazil

Genus **Chiloanoetus** Fain

*Chiloanoetus* Fain, 1974: 63

Type species: *Chiloanoetus mayumbensis* Fain, 1974

**Chiloanoetus mayumbensis** Fain

*Chiloanoetus mayumbensis* Fain, 1974: 65

Type locality: Chiloango, Mayumbe

Distribution: DR Congo

Host: *Prioscelis serrata* (Coleoptera: Tenebrionidae)

Genus **Hauserania** Mahunka

*Hauserania* Mahunka, 1972e: 954

Type species: *Hauserania ornata* Mahunka, 1972

**Hauserania graeca** Mahunka

*Hauserania graeca* Mahunka, 1972e: 956

Type locality: Kephalinia, Sami

Distribution: Greece (Kephalinia)



***Hauserania ornata*** Mahunka*Hauserania ornata* Mahunka, 1972e: 954

Type locality: Kephalinia, on the road Livadion - Argostolion

Distribution: Greece (Kephalinia)

Genus ***Hexanoetus*** Fain et Philips*Hexanoetus* Fain & Philips, 1979: 150Type species: *Hexanoetus conoidalis* Fain et Philips, 1979***Hexanoetus conoidalis*** Fain et Philips*Hexanoetus conoidalis* Fain & Philips, 1979: 150

Type locality: Syracuse, N.Y.

Distribution: USA (N.Y.)

Genus ***Histiostoma*** Kramer*Histiostoma* Kramer, 1876: 105*Zschachia* Oudemans, 1929: 451. Type: *Zschachia laevia* Oudemans, 1929Type species: *Hypopus julorum* C.L. Koch, 1843 (= *Histiostoma pectineum* Kramer, 1876)Subgenus ***Histiostoma*** Kramer*Histiostoma* Kramer, 1876: 105Type species: *Histiostoma pectineum* Kramer, 1876 (= *Hypopus feroniarum* Dufour, 1839)***Histiostoma (H.) abietis*** Scheucher*Histiostoma abietis* Scheucher, 1957: 335*Anoetus abietis* (Scheucher): Woodring & Moser, 1970: 1255

Type locality: Regensburg

Distribution: Germany

Host: *Ips curvidens* (Coleoptera: Curculionidae, Scolytinae)***Histiostoma (H.) acrocini*** Mahunka*Histiostoma acrocini* Mahunka, 1982: 83

Type locality: Brazil

Distribution: Brazil

Host: phoretic on *Acrocinus longimanus* (Coleoptera: Cerambycidae)***Histiostoma (H.) adarcuale*** Mahunka*Histiostoma adarcuale* Mahunka, 1979: 334

Type locality: Puerto Viejo

Distribution: Costa Rica

***Histiostoma (H.) adsimile*** Fain

*Histiostoma adsimile* Fain, 1974b: 85

Type locality: La Savane de Lamto

Distribution: Ivory Coast

***Histiostoma (H.) alphaticum*** Fain

*Histiostoma alphaticum* Fain, 1974b: 82

Type locality: La Savane de Lamto

Distribution: Ivory Coast

***Histiostoma (H.) alii*** Eraky

*Histiostoma alii* Eraky, 2000: 8

Type locality: Sohag

Distribution: Egypt

***Histiostoma (H.) amargynus*** Mahunka

*Histiostoma amargynus* Mahunka, 1976b: 309

Type locality: Nondugl, 2200–2700 m

Distribution: Papua New Guinea

Host: *Amargynus* [as “*Amargynus*”] cfr. *capillatus* (Coleoptera: Tenebrionidae)

***Histiostoma (H.) americanum*** Banks

*Histiostoma americanum* Banks, 1906: 11

Type locality: USA

Distribution: USA

***Histiostoma (H.) amieti*** Mahunka

*Histiostoma amieti* Mahunka, 1979: 236

Type locality: Cameroon

Distribution: Cameroon

***Histiostoma (H.) andrei*** Mahunka

*Histiostoma andrei* Mahunka, 1963b: 57

Type locality: Nordeste: forest n. Cassai

Distribution: Angola

***Histiostoma (H.) angolensis*** Mahunka

*Histiostoma angolensis* Mahunka, 1963a: 27; 1963b: 58

Type locality: Cavuemba River, Alto Cuílo, Poste de Cacolo

Distribution: Angola

***Histiostoma (H.) antillense*** Mahunka*Histiostoma antillense* Mahunka, 1981: 350

Type locality: Castries, Vigie

Distribution: St. Lucia, Windward Islands

***Histiostoma arcuata*** Mahunka*Histiostoma arcuata* Mahunka, 1963a: 28*Histiostoma arcuatus* Mahunka:

Type locality: Lumeje II, N of Santando Station of C.F.B., Poste de Bussaco (80 km E of Luso)

Distribution: Angola, Egypt

***Histiostoma (H.) arenatus*** Negm*Histiostoma arenatus* Negm, 2007; Abdelgayed et al., 2019: 32

Type locality: Egypt

Distribution: Egypt

***Histiostoma (H.) australiense*** Mahunka*Histiostoma australiense* Mahunka, 1975: 317; Tagami & Halliday, 2013: 218

Type locality: Australia

Distribution: Australia

Host: *Titanolabis colosse* (Dermaptera: Anisolabididae)***Histiostoma (H.) bacilligerum*** Mahunka*Histiostoma bacilligerum* Mahunka, 1963a: 30

Type locality: Cazombo (Alto Zambeze)

Distribution: Angola

***Histiostoma (H.) bakeri*** Hughes et Jackson*Histiostoma bakeri* Hughes & Jackson, 1958: 45

Type locality: Norris Dam, Tenn.

Distribution: USA (Tenn.)

***Histiostoma (H.) baloghi*** Mahunka*Histiostoma baloghi* Mahunka, 1962: 517

Type locality: Bükk – Gebirge, Belko

Distribution: Hungary

***Histiostoma (H.) banjuwangicus*** (Oudemans)*Anoetus banjuwangicus* Oudemans, 1911: 172

*Histiostoma banjuwangicus* (Oudemans): Buitendijk, 1945: 361; Hughes & Jackson, 1958: 49

Type locality: Banjoewangi

Distribution: Indonesia (Java)

***Histiostoma (H.) bananai*** Eraky et Shoker

*Histiostoma bananai* Eraky & Shoker, 1993: 53

Type locality: Egypt

Distribution: Egypt

***Histiostoma (H.) berghii*** Jensen

*Histiostoma berghii* Jensen, 1896: 72

*Histiostoma berghi* (Jensen): Buitendijk, 1945: 361

Type locality: Copenhagen

Distribution: Denmark

Host: in cocoons of *Aulastoma gulo* (Hirudinea)

***Histiostoma (H.) berndhauseri*** Mahunka

*Histiostoma berndhauseri* Mahunka, 1992: 396

Type locality: Cascade de Faarumai

Distribution: Tahiti

Host: Diplopoda

***Histiostoma (H.) bernoni*** Mahunka

*Histiostoma bernoni* Mahunka, 1979: 134

Type locality: Kenya

Distribution: Kenya

Host: Coleoptera (Scarabaeidae)

***Histiostoma (H.) bifeveolatum*** Mahunka

*Histiostoma bifeveolatum* Mahunka, 1979: 135

Type locality: Poroto Mt.

Distribution: Tanzania

***Histiostoma (H.) blomquisti*** Wirth et Moser

*Histiostoma blomquisti* Wirth & Moser, 2010: 357

Type locality: Pineille and New Orleans

Distribution: USA

Host: *Solenopsis invicta* (Hymenoptera: Formicidae)

***Histiostoma (H.) brevimanum*** (Oudemans)

*Lipstorpia brevimana* Oudemans, 1914: 73

*Anoetus brevimanus*: Oudemans, 1917: 392

*Histiostoma brevimanus* (Oudemans): Buitendijk, 1945: 361; Hughes & Jackson, 1958: 52;  
Bongers, OConnor & Lukoschus, 1985: 6

Type locality: Sittard

Distribution: Holland

***Histiostoma (H.) brevipodum*** Berlese

*Histiostoma brevipodum* Berlese, 1910: 270

Type locality: Palermo

Distribution: Sicily

Habitat: "inter folia putria"

***Histiostoma (H.) brevipes*** Banks

*Histiostoma brevipes* Banks, 1906: 11

Type locality: USA

Distribution: USA

***Histiostoma (H.) calicifera*** Mahunka

*Histiostoma calicifera* Mahunka, 1974b: 375; Eraky 2000: 15

Type locality: Banda-Nkwanta

Distribution: Ghana

***Histiostoma (H.) camerunensis*** Mahunka

*Histiostoma camerunensis* Mahunka, 1979: 238

Type locality: Cameroon

Distribution: Cameroon

***Histiostoma (H.) campanula*** (Oudemans)

*Anoetus campanula* Oudemans, 1914: 71

*Histiostoma campanulae* (Oudemans): Buitendijk, 1945: 361; Hughes & Jackson, 1958: 54

Type locality: Banjoewangi

Distribution: Indonesia (Java)

***Histiostoma (H.) camphori*** Eraky

*Histiostoma camphori* Eraky, 1999: 72; Abdelgayed et al., 2019: 32

Type locality: Upper Egypt (Assiut)

Distribution: Egypt

***Histiostoma (H.) capillatum*** Mahunka

*Histiostoma capillata* Mahunka, 1978: 143

*Histiostoma capillatum* Mahunka: Klimov & Khaustov, 2018

Type locality: Oriente, 00°24S, 76°36'W, Limoncocha

Distribution: Ecuador

Host: *Labidus praedator* (Hymenoptera: Formicidae, Dorylinae)

***Histiostoma (H.) caro*** Ashfaq, Chaudhri et Aheer

*Histiostoma caro* Ashfaq, Chaudhri & Aheer, 1985: 42

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) cataglyphi*** Yousef et Metwally

*Histiostoma cataglyphi* Yousef & Metwally, 1974: 724

Type locality: Zagazig, Sharkia governorate

Distribution: Egypt

***Histiostoma (H.) chilopophila*** Mahunka

*Histiostoma chilopophila* Mahunka, 1979: 241

Type locality: Cameroon

Distribution: Cameroon

***Histiostoma (H.) cirratum*** (Oudemans)

*Anoetus cirratus* Oudemans, 1911: 173

*Histiostoma cirratus* (Oudemans): Buitendijk, 1945: 361

Type locality: Banjoewangi

Distribution: Indonesia (Java)

Host: Blattodea fam., gen. sp.

***Histiostoma (H.) clavatum*** Mahunka

*Histiostoma clavatum* Mahunka, 1963b: 58

Type locality: Dundo

Distribution: Angola

Host: *Brachytripes membranaceus* (Orthoptera: Grylloidea)

***Histiostoma (H.) clavifer*** Mahunka

*Histiostoma clavifer* Mahunka, 1978a: 146

Type locality: 4 km W of Villa Neily, 8°40'N, 82°56'W

Distribution: Costa Rica

Host: *Eciton hamatum* (Hymenoptera: Formicidae, Dorylinae)

***Histiostoma (H.) conclavicola*** (Oudemans)

*Anoetus conclavicola* Oudemans, 1929: 461

*Histiostoma (H.) conclavicola* (Oud.)

Type locality: Stanleyville (Kisangani)

Distribution: DR Congo

***Histiostoma (H.) conjunctum*** (Woodring et Moser)

*Anoetus conjuncta* Woodring & Moser, 1970: 1250

*Histiostoma conjuncta* (Woodring et Moser): Woodring & Moser, 1975: 83

*Histiostoma conjunctum* (Woodring et Moser): Klimov & Khaustov, 2018: 2412

Type locality: Tegusigalpa, Honduras

Distribution: Guatemala, Honduras, USA

Hosts: galleries of *Dendroctonus frontalis*, *Ips avulsus*, *I. calligraphus*, *I. cribricollis*, *I. grandicollis*

***Histiostoma (H.) continuatum*** Mahunka

*Histiostoma continuata* Mahunka, 1978a: 146

Type locality: Oriente, 00°24S, 76°36'W, Limoncocha

Distribution: Ecuador

Host: *Labidus* sp. (Hymenoptera: Formicidae, Dorylinae)

***Histiostoma (H.) coprae*** Chinniah et Mohanasundaram

*Histiostoma coprae* Chinniah & Mohanasundaram, 1995: 73

Type locality: Tamil Nadu

Distribution: India

Host: *Copris* (Coleoptera)

***Histiostoma (H.) coronatum*** Mahunka

*Histiostoma coronatum* Mahunka, 1979: 335

Type locality: Puerto Viejo

Distribution: Costa Rica

***Histiostoma (H.) cossi*** Scheucher

*Histiostoma cossi* Scheucher, 1957: 329

Type locality: Erlangen

Distribution: Germany

Hosts: *Cossus cossus*, *C. ligniperda* (Lepidoptera: Cossidae)

***Histiostoma (H.) crantor*** Ashfaq, Chaudhri et Aheer

*Histiostoma crantor* Ashfaq, Chaudhri & Aheer, 1985: 22

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) crassipes*** (Oudemans)

*Anoetus crassipes* Oudemans, 1912: 234; ? Vitzthum, 1923

*Histiostoma crassipes* (Oudemans): Klimov & Khaustov, 2018: 2413

Type locality: Tanzania

Distribution: Tanzania, (?) Nepal

Hosts: *Platypus dispar*, *Ips stebbingi* (Coleoptera: Curculionidae), *Hololepta africanae* (Col.: Histeridae)

***Histiostoma (H.) crypturgi*** Scheucher

*Histiostoma crypturgi* Scheucher, 1957: 310; Klimov & Khaustov, 2018: 2413

*Anoetus crypturgi* (Scheucher): Woodring & Moser, 1970: 1255; Sevastianov, 1975: 400

Type locality: Erlangen and Regensburg

Distribution: Germany, Poland, Slovakia

Hosts: *Crypturgus pusillus* (Coleoptera: Curculionidae, Scolytinae), *Rhagium* sp. (Cerambycidae), *Aphodius prodromus* (Scarabaeidae)

***Histiostoma (H.) cubanum*** Mahunka

*Histiostoma cubanum* Mahunka, 1978: 111

Type locality: La Habana

Distribution: Cuba

Host: *Acanthoderes circumflexa* (Coleoptera: Cerambycidae)

***Histiostoma (H.) cyrtandrae*** (Vitzthum)

*Anoetus cyrtandrae* Vitzthum, 1931: 110

*Histiostoma cyrtandrae* (Vitzthum)

Type locality: at Ngebel Lake, Middle Java

Distribution: Indonesia

***Histiostoma (H.) dactyloscopicum*** Mahunka et Eraky

*Histiostoma dactyloscopicum* Mahunka & Eraky, 1987: 130

Type locality: Hungary

Distribution: Hungary

***Histiostoma (H.) darwishii*** Eraky

*Histiostoma darwishii* Eraky, 1994: 220; Abdelgayed et al., 2019: 32

Type locality: Egypt

Distribution: Egypt

***Histiostoma (H.) decemvirgae*** Jacot

*Histiostoma decemvirgae* Jacot, 1939: 199

Type locality: Western North Carolina

Distribution: USA



***Histiostoma (H.) densus*** Ashfaq, Chaudhri et Aheer*Histiostoma densus* Ashfaq, Chaudhri & Aheer, 1985: 18

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) diadematum*** Mahunka*Histiostoma diademata* Mahunka, 1978a: 148

Type locality: Oriente, 00°24'S, 76°36'W, Limoncocha

Distribution: Ecuador

Host: *Neivamyrmex gibbatus* (Hymenoptera: Formicidae, Dorylinae)***Histiostoma (H.) disiunctum*** Mahunka*Histiostoma disiuncta* Mahunka, 1962b: 428*Anoetus disiunctus*

Type locality: Balatonfenyves

Distribution: Hungary

Host: *Demetrias imperialis* (Coleoptera: Carabidae)***Histiostoma (H.) distentosetum*** Mahunka*Histiostoma distentoseta* Mahunka, 1974b: 375

Type locality: Banda-Nkwanta

Distribution: Ghana

***Histiostoma (H.) dryocoeti*** Scheucher*Histiostoma dryocoeti* Scheucher, 1957: 315*Anoetus dryocoeti* (Scheucher): Woodring & Moser, 1970: 1255; Sevastianov, 1975: 397

Type locality: "Erlanger Umgebung und Oberpfalz"

Distribution: Germany

Hosts: *Dryocoetus autographus* (Coleoptera: Curculionidae, Scolytinae), *Dorcus paralelopedus* (Coleoptera: Lucanidae)***Histiostoma (H.) dugesi*** (Claparède)*Hypopus dugesii* Claparède, 1868: 506*Histiostoma dugesi* (Clap.): Buitendijk, 1945: 361

Type locality: Giseh

Distribution: Egypt

***Histiostoma (H.) duplex*** Mahunka*Histiostoma duplex* Mahunka, 1979: 337

Type locality: Puerto Viejo

Distribution: Costa Rica

***Histiostoma (H.) edax*** Ashfaq, Chaudhri et Aheer

*Histiostoma edax* Ashfaq, Chaudhri & Aheer, 1985: 33

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) editum*** Mahunka

*Histiostoma edita* Mahunka, 1974b: 378

Type locality: Kwandaso

Distribution: Ghana

***Histiostoma (H.) egyptiacum*** Eraky et Shoker

*Histiostoma egyptiacum* Eraky & Shoker, 1993: 51

Type locality: Egypt

Distribution: Egypt

***Histiostoma (H.) eickworti*** Woodring

*Histiostoma eickworti* Woodring, 1973: 316

Type locality: Costa Rica

Distribution: Costa Rica

Host: *Augochlora* spp. (Hymenoptera: Halictidae)

***Histiostoma (H.) elzingai*** Mahunka

*Histiostoma elzingai* Mahunka, 1978a: 148

Type locality: Oriente, 00°24S, 76°36'W, Limoncocha

Distribution: Ecuador

Host: *Eciton lucanoides* (Hymenoptera: Formicidae, Dorylinae)

***Histiostoma (H.) endroedii*** (Mahunka)

*Anoetus endroedii* Mahunka, 1973a: 90

*Histiostoma endroedii*: Mahunka, 1979: 128

Type locality: Abofour (Ghana)

Distribution: Ghana, Gambia

Host: Coleoptera

***Histiostoma (H.) ensifer*** (Oudemans)

*Anoetus ensifer* Oudemans, 1912: 236

*Histiostoma ensifer* (Oudemans): Buitendijk, 1945: 361

Type locality: Tanganyika, Amani

Distribution: Tanzania

***Histiostoma (H.) erugo*** Ashfaq, Chaudhri et Aheer

*Histiostoma erugo* Ashfaq, Chaudhri & Aheer, 1985: 27

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) farghali*** Eraky

*Histiostoma farghali* Eraky, 2000: 13

Type locality: Egypt

Distribution: Egypt

***Histiostoma (H.) feroniarum*** (Dufour)

*Hypopus feroniarum* Dufour, 1839: 278

*Histiostoma pectineum* Kramer, 1876

*Acarus mamillaris* Canestrini, 1878: 140

*Tyroglyphus rostro-serratus* Mégnin, 1873: 372

*Rhizoglyphus rostro-serratus*:

*Histiostoma rostro-serratum*: Michael, 1901:

*Anoetus feroniarum* (Dufour): Mahunka, 1971: 1195; 1972e: 951

*Histiostoma feroniarum* (Dufour): Scheucher, 1957: 290; Costa, 1967: 107; Caceres & Fain, 1975: 146; Chen et al., 1982; Shen et al. 1993; Qin & Rohitha 1996: 65; Fain, 1991: 79; Rebollero & Arroyo, 1996; Sanchez-Covisa et al., 1999

Type locality: France

Distribution: Australia, Austria, China, France, Germany, Greece (Kephallinia, Zakynthos), Israel, Italy, New Zealand, Peru, Spain, Canary Is. (Tenerife)

Hosts: *Cormocephalus aurantiipes* (Chilopoda: Scolopendridae), *Hister merdarius*, *H. stercorarius*, *H. unicolor* (Coleoptera: Histeridae); *Spalax ehrenbergi* (Mammalia: Rodentia)

***Histiostoma (H.) flabelliforme*** Leonardi

*Histiostoma flabelliforme* Leonardi, 1899: 922

Type locality: Portici

Distribution: Italy

***Histiostoma (H.) flaccus*** Sarwar

*Histiostoma flaccus* Sarwar, 1998: 2

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) flagellifer*** Leonardi

*Histiostoma flagellifer* Leonardi, 1897

Type locality: Italy

Distribution: Italy

***Histiostoma (H.) formosanum*** Philipsen et Coppel

*Histiostoma formosana* Philipsen & Coppel, 1977: 497; Wang et al., 2002

Type locality: Taiwan

Distribution: Taiwan, China

Host: *Coptotermes formosanus* (Isoptera: Rhinotermitidae)

***Histiostoma (H.) formicarum*** Vitzthum

*Histiostoma formicarum* Vitzthum, 1941: 315

Type locality: Tirol

Distribution: Austria

Host: *Myrmica sulcinodis* (Hymenoptera: Formicidae)

***Histiostoma (H.) fortis*** Ashfaq, Sarwar et Amiad

*Histiostoma fortis* Ashfaq, Sarwar & Amiad, 2000: 37

Type locality: Rawalakot

Distribution: Pakistan

Host: from decomposing vegetable matter

***Histiostoma (H.) foveosimile*** Mahunka

*Histiostoma foveosimile* Mahunka, 1975: 320

Type locality: Kiunga

Distribution: Papua New Guinea

***Histiostoma (H.) fragosus*** Ashfaq, Chaudhri et Aheer

*Histiostoma fragosus* Ashfaq, Chaudhri & Aheer, 1985: 30

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) fucatifera*** Mahunka

*Histiostoma fucatifera* Mahunka, 1975b: 47

Type locality: Gambia

Distribution: Gambia

Host: *Ploceus*-nest

***Histiostoma (H.) fuliginosi*** Scheucher

*Histiostoma fuliginosi* Scheucher, 1957: 336

Type locality: Erlangen

Distribution: Germany

***Histiostoma (H.) furcata*** Mahunka

*Histiostoma furcata* Mahunka, 1975b: 50

Type locality: Ghana

Distribution: Ghana

***Histiostoma (H.) galerus*** Sarwar, Ashfaq et Islam,

*Histiostoma galerus* Sarwar, Ashfaq & Islam, 1998: 4

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) gambiense*** Mahunka

*Histiostoma gambiense* Mahunka, 1975b: 53

Type locality: Gambia

Distribution: Gambia

***Histiostoma (H.) gampsoceri*** Mahunka

*Histiostoma gampsoceri* Mahunka, 1976b: 308

Type locality: “Formosa” (Taiwan)

Distribution: Taiwan

Host: *Gampsocera mutata* (Diptera: Chloropidae)

***Histiostoma (H.) genavensium*** Mahunka

*Histiostoma genavensium* Mahunka, 1992: 396

Type locality: Viti Levu: entre Yanuca et Nadi

Distribution: Fiji

Host: Diplopoda

***Histiostoma (H.) gervaisi*** Oudemans

*Histiostoma gervaisi* Oudemans, 1937: 2145 – nomen novum pro *Hypopus ovalis* Gervais,  
1844

Type locality: Paris

Distribution: France

Host: *Lithobius forficatus* (Chilopoda: Lithobiidae)

***Histiostoma (H.) gladiger*** (Vitzthum)

*Anoetus gladiger* Vitzthum, 1926a: 489; Woodring & Moser, 1970: 1255

*Histiostoma gladiger* Scheucher, 1957: 334; Cooreman, 1963: 39

Type locality: “Nikolajewsk an der Mundung des Amur”

Distribution: Austria, Belgium, Bulgaria, France (incl. Corsica), Germany, Russia (Far East)

Hosts: *Ips cembrae*, *I. sexdentatus*, *I. subelongatus* (Coleoptera: Curculionidae, Scolytinae)

***Histiostoma (H.) globotuberum*** Takami et Kuwahara

*Histiostoma globotuberum* Takami & Kuwahara, 2005: 86

Type locality: Kyoto and Tsukuba

Distribution: Japan

***Histiostoma (H.) gordius*** (Vitzthum)

*Anoetus phyllotrichus* Vitzthum, 1921a:

*Anoetus gordius* Vitzthum, 1923a: 164; Mahunka, 1970: 27; Woodring & Moser, 1970: 1255; Sevastianov, 1975: 400

*Anoetus julorum* Vitzthum, 1926:

*Histiostoma gordius* (Vitzthum): Scheucher, 1957: 311; Cooreman, 1963: 37; Hunter & Davis, 1963: 5;

Distribution: Austria, Belgium, Bosnia & Herzegovina, Germany, Hungary, Romania

Hosts: *Ips laricis* (Ipidae), *Orthomicus [Ips] laricis*, *O. proximus* (Coleoptera: Curculionidae, Scolytinae)

***Histiostoma (H.) gorgo*** Mahunka

*Histiostoma gorgo* Mahunka, 1974b: 380

Type locality: Banda-Nkwanta

Distribution: Ghana

***Histiostoma (H.) gracilipes*** Banks

*Histiostoma gracilipes* Banks, 1906: 10

Type locality: USA

Distribution: USA

***Histiostoma (H.) gracilis*** Ashfaq, Sarwar et Amiad

*Histiostoma gracilis* Ashfaq, Sarwar & Amiad, 2000: 34

Type locality: Haripur

Distribution: Pakistan

Host: from gram (*Cicer arietinum*)

***Histiostoma (H.) granulatum*** Vitzthum

*Histiostoma granulatum* Vitzthum, 1935: 93

Type locality: Hivaoa: Kaava Mt.

Distribution: Marquesan Islands

Host: *Brachypeplus* sp. (Coleoptera: Nitidulidae)

***Histiostoma (H.) guanophilum*** Mahunka

*Histiostoma guanophilum* Mahunka, 1982: 293

Type locality: New Mexico

Distribution: USA

***Histiostoma (H.) halicticum*** Fain et Erteld

*Histiostoma halicticola* Fain & Erteld, 1998: 48

*Histiostoma halicticum* Fain & Erteld:

Type locality: Berlin, Doberitzer Heide natural reserve

Distribution: Germany  
 Host: *Halictus sexcinctus* (Hymenoptera: Halictidae)

***Histiostoma (H.) halictonida*** Woodring

*Histiostoma halictonida* Woodring, 1973: 312; Engel & Fain, 2003: 649

*Anoetus halictonida*: Achtymichuk, 2017

Type locality: USA

Distribution: Canada, Costa Rica, Panama, USA

Hosts: *Halictus rubicundus*, *Megalopta* spp. (Hymenoptera: Halictidae)

***Histiostoma (H.) heinemanni*** Hill et Deahl

*Histiostoma heinemanni* Hill & Deahl, 1978: 318

Type locality: Pennsylvania

Distribution: USA

***Histiostoma (H.) herballi*** Eraky et al.

*Anoetus herballi* Eraky et al., 2017: 183

Type locality: Assiut, Abu Teeg

Distribution: Egypt

Host: from Citrus orchards

***Histiostoma (H.) heriades*** Fain et Pauly

*Histiostoma heriades* Fain & Pauly, 2001: 136

Type locality: Sainte Marie Island, Kalalao Forest

Distribution: Madagascar

Host: *Heriades erythrosoma* (Hymenoptera: Megachilidae)

***Histiostoma (H.) himalayae*** (Vitzthum)

*Anoetus himalayae* Vitzthum, 1923: 162

*Histiostoma himalayae* (Vitzthum): Fain, Athias-Binche & Carton, 1993: 73;

Type locality: Himalaya

Distribution: Himalaya

Host: *Polygraphus minor* (Coleoptera: Curculionidae, Scolytinae [Ipidae])

***Histiostoma (H.) histeri*** Mahunka

*Histiostoma histeri* Mahunka, 1976: 97

Type locality: Bükk-Gebirge, Czalajka völgy

Distribution: Hungary, Romania

Host: *Platysoma compressum* (Coleoptera: Histeridae)

***Histiostoma (H.) horridum*** Berlese

*Histiostoma horridum* Berlese, 1913: 104

Type locality: Java

Distribution: Indonesia (Java)

***Histiostoma (H.) huettleri*** Mahunka

*Histiostoma huettleri* Mahunka, 1975: 45

Type locality: Gambia

Distribution: Gambia

***Histiostoma (H.) humiditatis*** (Vitzthum)

*Anoetus humiditatis* Vitzthum, 1927: 98

*Histiostoma humiditatis* (Vitzthum): Womersley, 1942; Hughes & Jackson, 1958: 78;  
Tseng, 1984

Type locality: Thaya, Lower Austria

Distribution: Australia, Austria, Taiwan

Host: *Titanolabis colossea* (Dermaptera: Anisolabididae)

***Histiostoma (H.) hungaricum*** Mahunka

*Histiostoma hungarica* Mahunka, 1976: 100

*Histiostoma hungaricum* Mahunka: Klimov & Khaustov, 2018

Type locality: Slofok

Distribution: Hungary

Host: *Carcinopus 14-striata* (Coleoptera: Histeridae)

***Histiostoma (H.) imbecillus*** Ashfaq, Chaudhri et Aheer

*Histiostoma imbecillus* Ashfaq, Chaudhri & Aheer, 1985: 39

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) incurvatum*** Mahunka

*Histiostoma incurvata* Mahunka, 1978: 152

Type locality: Canal Zone, Barro Colorado

Distribution: Panama

Host: *Eciton burchelli* (Hymenoptera: Formicidae, Dorylinae)

***Histiostoma (H.) indetonsum*** (Sevastianov)

*Anoetus indetonsum* Sevastianov, 1973: 852

*Histiostoma indetonsum*: Klimov & Khaustov, 2018:

Type locality: Odesa

Distribution: Ukraine

***Histiostoma (H.) inquilinum*** Cross

*Histiostoma inquilinus* Cross, 1968: 333



Type locality: Maryland  
 Distribution: USA  
 Host: *Xenoglossa strenua* (Hymenoptera: Apidae)

***Histiostoma (H.) insulare*** (Oudemans)

*Anoetus insularis* Oudemans, 1914: 70; Mahunka, 1967: 15; 1970: 23; 1971: 1198

*Histiostoma insulare*: Scheucher, 1957: 292

*Histiostoma insularis* (Oudemans): Hughes & Jackson, 1958: 80

Type locality: Kephallinia

Distribution: Germany, Greece (Kephallinia), Holland, Hungary, Mongolia

***Histiostoma (H.) ionicum*** Mahunka

*Histiostoma ionicum* Mahunka, 1977: 123

Type locality: Greece

Distribution: Greece

***Histiostoma irinum*** (Hassan et Sevastianov)

*Anoetus irinus* Hassan & Sevastianov, 1991: 45

*Histiostoma irinum* (Hassan et Sevastianov): Klimov & Khaustov, 2018:

Type locality: Low Egypt

Distribution: Egypt

***Histiostoma (H.) janosi*** Mahunka

*Histiostoma janosi* Mahunka, 1975: 319

Type locality: New Guinea

Distribution: New Guinea

***Histiostoma (H.) julorum*** (C.L. Koch)

*Hypopus julorum* C.L.Koch, 1843: H. 38, No20; Berlese, 1886: AMC, 29, 4

*Phyllostoma pectineum* Kramer, 1876: 36

*Histiostoma pectineum* Kramer, 1876: 105

*Anoetus julorum* (C.L. Koch): Vitzthum, 1926a: 480; Sevastianov, 1975: 398

*Histiostoma julorum* (C.L. Koch): Canestrini, 1888: 17; Canestrini & Kramer, 1899: 135;

Haarløv, 1957:32

Type locality: Germany

Distribution: Austria, Denmark, Germany, Italy

Hosts: *Julus mediterraneus*, *J. unilineatus* (Diplopoda: Julida, Julidae)

***Histiostoma (H.) junctus*** Ashfaq, Chaudhri et Aheer

*Histiostoma junctus* Ashfaq, Chaudhri & Aheer, 1985: 25

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) karachiensis*** Khan

*Histiostoma karachiensis* Khan, 1969: 207

Type locality: Karachi

Distribution: Pakistan

***Histiostoma (H.) kerguelenense*** Fain

*Histiostoma kerguelenense* Fain, 1976: 312

Type locality: Kerguelen Island

Distribution: Kerguelen Island

***Histiostoma laevis*** (Oudemans)

*Zschachia laevis* Oudemans, 1929: 451

Type locality: Valkeveen

Distribution: Holland

***Histiostoma (H.) lekiensis*** Mahunka

*Histiostoma lekiensis* Mahunka, 1979: 241

Type locality: Cameroon

Distribution: Cameroon

***Histiostoma (H.) lineatula*** Mahunka

*Histiostoma lineatula* Mahunka, 1976: 101

Type locality: Sopron (Hungary)

Distribution: Hungary, Romania

Host: *Platysoma compressum* (Coleoptera: Histeridae)

***Histiostoma (H.) lineosculpturatum*** Mahunka

*Histiostoma lineosculpturatum* Mahunka, 1978: 121

Type locality: New Britain, Gazelle Pen., Mt. Sinewit

Distribution: Papua New Guinea [New Britain]

Host: *Platolenes* sp. (Coleoptera: Tenebrionidae)

***Histiostoma (H.) litorale*** (Oudemans)

*Anoetus litoralis* Oudemans, 1914: 71; 1914: 116

*Histiostoma litorale* (Oudemans): Scheucher, 1957: 333; Mahunka, 1976b: 294; Lotfollahi et al., 2010

Type locality: Holland (Terschelling I.)

Distribution: Germany, Holland, Iran

Host: Diplopoda, Coleoptera (Carabidae)

***Histiostoma (H.) loebli*** Mahunka*Histiostoma loebli* Mahunka, 1979: 423

Type locality: Israel

Distribution: Israel

***Histiostoma (H.) loksai*** Mahunka*Histiostoma loksai* Mahunka, 1961: 14

Type locality: Hungary

Distribution: Hungary

***Histiostoma longisetum*** (Mahunka)*Anoetus longisetus* Mahunka, 1967: 167*Histiostoma longisetum*: Klimov & Khaustov, 2018:

Type locality: Congo

Distribution: Congo

***Histiostoma (H.) lorentzi*** (Oudemans)*Anoetus lorentzi* Oudemans, 1905a: 223*Histiostoma lorentzi* (Oudemans): Buitendijk, 1945: 362

Type locality: Perboeangan

Distribution: Indonesia (Western New Guinea)

Host: Coleoptera: Coccinellidae

***Histiostoma (H.) louisianae*** Woodring*Histiostoma louisianae* Woodring, 1963: 49

Type locality: Louisiana

Distribution: USA

***Histiostoma (H.) luxus*** Ashfaq, Chaudhri et Aheer*Histiostoma luxus* Ashfaq, Chaudhri & Aheer, 1985: 36

Type locality: Pakistan

Distribution: Pakistan

***Histiostoma (H.) magdolnae*** Mahunka et Eraky*Histiostoma magdolnae* Mahunka & Eraky, 1987: 130

Type locality: Hungary

Distribution: Hungary

***Histiostoma (H.) mahunkai*** Fain*Histiostoma mahunkai* Fain, 1974b: 80; Tagami, 2013; 2016: 19

Type locality: Ivory Coast, la Savane de Lamto

Distribution: Ivory Coast, Japan

Host: *Anisolabella (Gonolabis) marginalis* (Dermaptera: Anisolabidae)

***Histiostoma (H.) manicae*** Samšínák

*Histiostoma manicae* Samšínák, 1958: 291

Type locality: Radhošt (Beskyden)

Distribution: Czech Rep.

Host: *Manica rubida* (Hymenoptera: Formicidae)

***Histiostoma (H.) mannai*** Eraky

*Histiostoma mannai* Eraky, 1999: 53

Type locality: Aswan

Distribution: Egypt

Host: Associated with *Amitermes desertorum* (Insecta)

***Histiostoma (H.) mantelli*** Clark

*Histiostoma mantelli* Clark, 2010: 10

Type locality: Tongaporutu, North Taranaki

Distribution: New Zealand

Host: *Eudyptula minor* (Aves: Spheniscidae)

***Histiostoma (H.) manuri*** Eraky

*Histiostoma manuri* Eraky, 2000: 10

Type locality: Egypt

Distribution: Egypt

***Histiostoma (H.) margaritata*** Mahunka

*Histiostoma margaritata* Mahunka, 1976: 102

*Histiostoma margaritatum* Mahunka: Klimov & Khaustov, 2018

Type locality: Mecsek – Gebirge (Hungary)

Distribution: Hungary, Romania

Host: *Platysoma compressum* (Coleoptera: Histeridae)

***Histiostoma (H.) marianae*** Mahunka

*Histiostoma marianae* Mahunka, 1979: 338

Type locality: Osa Pen., 2.5 mi SW of Rincon

Distribution: Costa Rica

***Histiostoma (H.) maritimum*** (Oudemans)

*Anoetus maritimus* Oudemans, 1914: 70; 1914: 110; Mahunka, 1970: 24

*Histiostoma maritimum* (Oudemans): Scheucher, 1957: 296; Mahunka, 1976b: 326

Type locality: Holland (Terschelling I.)

Distribution: Germany, Holland, Hungary

Hosts: *Julus unilineatus* (Diplopoda: Julidae), *Bembidium assimile*, *B. doris*, *B. tenellum*, *Elaphrus riparius*, *Platynus obscurus* (Coleoptera: Carabidae), *Heterocerus marginatus* (Col.: Heteroceridae), *Hydrophilus caraboides* (Col.: Hydrophilidae)

***Histiostoma (H.) matsakisi*** Mahunka

*Histiostoma matsakisi* Mahunka, 1977: 125

Type locality: Greece

Distribution: Greece

***Histiostoma medium*** (Woodring et Moser)

*Anoetus media* Woodring & Moser, 1970: 1238

*Histiostoma medium* Klimov & Khaustov, 2018:

Type locality: Pineville, Louisiana

Distribution: USA (Louisiana, Florida)

Host: galleries of *Dendroctonus terebrans* (Col.: Curculionidae, Scolytinae)

***Histiostoma (H.) melolonthae*** Scheucher

*Histiostoma melolonthae* Scheucher, 1957: 335

Type locality: Erlangen

Distribution: Germany

Hosts: *Melolontha hippocastani*, *Polyphylla fullo* (Coleoptera: Scarabaeidae, Melolonthinae)

***Histiostoma (H.) meszarosorum*** Mahunka

*Histiostoma meszarosorum* Mahunka, 1978: 113

Type locality: La Habana

Distribution: Cuba

Host: *Acanthoderes circumflexa* (Coleoptera: Cerambycidae)

***Histiostoma (H.) metwallii*** Fawzy et Mtewallii

*Histiostoma metwallii* Fawzy & Mtewallii, 2007: 125 (also *metwallii*)

Type locality: Kafr El-Sheikh

Distribution: Egypt

***Histiostoma (H.) minimum*** Mahunka

*Histiostoma minimum* Mahunka, 1963a: 33

Type locality: Cazombo (Alto Zambeze)

Distribution: Angola

***Histiostoma (H.) mirabile*** Mahunka

*Histiostoma mirabile* Mahunka, 1981a: 353

Type locality: Micoud, Troumasée Estate

Distribution: Windward-Islands

***Histiostoma (H.) montanum*** Clark

*Histiostoma montanum* Clark, 2010b: 193

Type locality: North Egmont, Mt Egmont, Taranaki

Distribution: New Zealand

Host: from shrub *Brachyglottis elaeagnifolia* litter at 1100–1300 m

***Histiostoma (H.) moralesi*** Mahunka

*Histiostoma moralesi* Mahunka, 1978a: 152

Type locality: 4 km W of Villa Neily, 8°40'N, 82°56'W

Distribution: Costa Rica

Host: *Eciton hamatum* (Hymenoptera: Formicidae, Dorylinae)

***Histiostoma (H.) murchiei*** Hughes et Jackson

*Histiostoma murchiei* Hughes & Jackson, 1958: 88

Type locality: Carp River, Emmet County, Michigan

Distribution: USA

Host: in cocoons of *Allolobophora* (Lumbricidae)

***Histiostoma (H.) muscae*** Chinniah et Mohanasundaram

*Histiostoma muscae* Chinniah & Mohanasundaram, 1995: 74

Type locality: Tamil Nadu

Distribution: India

Host: *Musca domestica* (Diptera: Muscidae)

***Histiostoma (H.) nasseri*** Eraky

*Histiostoma nasseri* Eraky, 1994: 159; Abdelgayed et al., 2019: 32

Type locality: Egypt

Distribution: Egypt

***Histiostoma (H.) necopinus*** (Sevastianov)

*Anoetus necopinus* Sevastianov, 1973: 852

*Histiostoma necopinus* (Sevastianov): Mahunka, 1976

Type locality: Hajibeyskiy Liman nr. Odessa

Distribution: Ukraine

Host: *Galeruca* sp. (Coleoptera: Chrysomelidae)

***Histiostoma (H.) negmi*** Eraky

*Histiostoma negmi* Eraky, 2000: 5

Type locality: Sohag

Distribution: Egypt

***Histiostoma (H.) novamsterdamense*** Fain*Histiostoma novamsterdamense* Fain, 1976: 565

Type locality: Nouvelle Amsterdam, Pointe d'Entrecasteaux

Distribution: Nouvelle Amsterdam

***Histiostoma onioni*** Eraky et Shoker*Histiostoma onioni* Eraky & Shoker, 1994; Abdelgayed et al., 2019: 32

Type locality: Sohag

Distribution: Egypt

***Histiostoma (H.) onthophagae*** Chinniah et Mohanasundaram*Histiostoma onthophagae* Chinniah & Mohanasundaram, 1995: 74

Type locality: Tamil Nadu

Distribution: India

Host: *Onthophagus pactolus* (Coleoptera: Scarabaeidae)***Histiostoma (H.) orientalis*** Mahunka*Histiostoma orientalis* Mahunka, 1974: 104

Type locality: unknown

Distribution: unknown

Host: *Halictus tatrazonianellus* (Hymenoptera: Halictidae)***Histiostoma (H.) oudemansi*** Scheucher*Histiostoma oudemansi* Scheucher, 1957: 315*Anoetus oudemansi* (Scheucher): Sevastianov, 1975: 400

Type locality: Erlangen

Distribution: Germany

***Histiostoma (H.) ovale*** (J. Müller)*Uropoda ovalis* J. Müller, 1860*Histiostoma ovalis* (J. Müller): Samšínák, 1958: 293; Mahunka, 1977b: 104; Moraza, Fernandez & Jurc, 2013: 597; Vissa et al., 2019*Histiostoma ovale* (J. Müller): Klimov & Khaustov, 2018: 53

Type locality: Moravia (Slovakia)

Distribution: Austria, Belgium, Bulgaria, Croatia, Czech Rep., France, Germany, Corsica, Hungary, Italy, Poland, Portugal, Romania, Slovakia, Slovenia, Ukraine

Hosts: *Ips sexdentatus* (Coleoptera: Curculionidae - Scolytinae), *Platysoma compressum* (Col.: Histeridae)***Histiostoma (H.) ovalis marani*** Samšínák*Histiostoma ovalis* f. *marani* Samšínák, 1958: 294

Type locality: Vizzavona

Distribution: Corsica

Host: *Ips sexdentatus* (Coleoptera: Curculionidae - Scolytinae)

***Histiostoma (H.) palustre* Wirth**

*Histiostoma palustre* Wirth, 2003: 262

Type locality: nr. Teufelsee, Berlin/Grunewald

Distribution: Germany

***Histiostoma (H.) papillatum* Halliday et Collins**

*Histiostoma papillata* Halliday & Collins, 2002: 155

Type locality: Victoria, Deakin University, Warrnambool

Distribution: Australia

Host: *Maccullochella peelii peelii* (Pisces: Percichthyidae)

***Histiostoma (H.) pauciputeolum* Fain et Philips**

*Histiostoma pauciputeolum* Fain & Philips, 1979: 147

Type locality: Syracuse, N.Y.

Distribution: USA

Host: In the nest of *Otus asio* (Aves, Strigiformes)

***Histiostoma (H.) perruptionum* Mahunka**

*Histiostoma perruptionum* Mahunka, 1979: 339

Type locality: Osa Pen., 2.5 mi SW of Rincon

Distribution: Costa Rica

***Histiostoma (H.) phyllophorum* (Oudemans)**

*Anoetus phyllophorus* Oudemans, 1905b: 238; 1912: 236

*Anoetus phyllophorus* Oudemans: Mahunka, 1973a: 99

*Histiostoma phyllophorum* (Oudemans): Scheucher, 1957: 318

*Histiostoma nicholli* Womersley, 1941: 484 - Australia

*Histiostoma phyllophorus* (Oudemans): Mahunka & Mahunka-Papp: 1991: 286

Type locality: Leiden

Distribution: Australia, Germany, Ghana, Holland, Tanzania

Hosts: *Oniscus asellus* (Isopoda: Onyscidae), *Oxythyrea funesta* (Coleoptera: Scarabaeidae), Passalidae

***Histiostoma (H.) phytophaga* Ewing**

*Histiostoma phytophaga* Ewing, 1911: 41

Type locality: USA

Distribution: USA



***Histiostoma (H.) piceae*** Scheucher

*Histiostoma piceae* Scheucher, 1957: 304; Beron, 1973; Takov et al. 2009; Walter & Latonas, 2012

*Anoetus piceae* (Scheucher): Woodring & Moser, 1970: 1255

Type locality: Erlangen, Nurnberg, Regensburg, Harz

Distribution: Bulgaria, Canada, Croatia, France, Germany, Japan, Slovakia, Sweden, Russia

Host: *Ips typographus* (Coleoptera: Scolytidae)

***Histiostoma (H.) pickaxeii*** Eraky et Shoker

*Histiostoma pickaxeii* Eraky & Shoker, 1995: 23; Negm & Alatawi, 2011:

Type locality: Egypt

Distribution: Egypt, Saudi Arabia

***Histiostoma (H.) piloseta*** Hughes et Jackson

*Histiostoma piloseta* Hughes & Jackson, 1958: 100

Type locality: Ellerson, Va.

Distribution: USA

Host: from compost

***Histiostoma (H.) polaki*** (Oudemans)

*Anoetus polaki* Oudemans, 1914: 72

*Histiostoma polaki* (Oudemans):

Type locality: Tanzania ("Deutsch Oost Afrika")

Distribution: *Spirostreptes* sp. (Diplopoda: Spirostreptidae)

***Histiostoma (H.) polypori*** (Oudemans)

*Anoetus polypori* Oudemans, 1914: 72

*Histiostoma polypori* (Oudemans): Buitendijk, 1945: 362; Behura, 1950: 1025; 1956; 1957: 51; Scheucher, 1957: 298; Chmielewski, 1984: 87; Lotfollahi et al., 2010; Tagami, 2016: 19

Type locality: Holland (Oosterbreek)

Distribution: Germany, Great Britain, Holland, Hungary, Iran, Poland

Hosts: *Eugamasus cornutus* (Acari: Gamasidae), *Forficula auricularia* (Dermaptera: Forficulidae)

***Histiostoma (H.) pontigerum*** Mahunka

*Histiostoma pontigerum* Mahunka, 1963b: 60

Type locality: Dundo, nr. Cundueji River

Distribution: Angola

***Histosoma (H.) prodectoris*** (Vitzthum)

*Anoetus prodectoris* Vitzthum, 1920: 62

*Histosoma prodectoris* (Vitzthum):

Type locality: "Bua-Kraeng in Süd-Celebes und Luzon Philippinen"

Distribution: Indonesia (Sulawesi), the Philippines (Luzon)

Hosts: *Prodector fruhstorferi*, *Ectocemus cinnamomeus* (Coleoptera: Brenthididae)

***Histosoma (H.) prophthalmi*** (Vitzthum)

*Anoetus prophthalmi* Vitzthum, 1920: 59

*Histosoma prophthalmi* (Vitzthum): Hughes & Jackson, 1958: 107

Type locality: "Vorderindien, einschl. Assam"

Distribution: India

Host: *Prophthalmus potens* (Coleoptera: Brenthididae)

***Histiostoma (H.) protuberans*** Hughes et Jackson

*Histiostoma protuberans* Hughes & Jackson, 1958: 109

Type locality: 8 mi west of Richmond, Va.

Distribution: USA

***Histiostoma (H.) pseudolongipes*** Mahunka

*Histiostoma pseudolongipes* Mahunka, 1992: 398

Type locality: Viti Levu: entre Yanuca et Nadi

Distribution: Fiji

Host: Diplopoda

***Histiostoma (H.) pulchrum*** Kramer

*Histiostoma pulchrum* Kramer, 1886: 259; Scheucher, 1957: 304

Type locality: Germany

Distribution: England, Germany

***Histiostoma (H.) punctaticeps*** Mahunka

*Histiostoma punctaticeps* Mahunka, 1963b: 61

Type locality: Dundo, nr. Cundueji River

Distribution: Angola

***Histiostoma (H.) pyriforme*** Michael

*Histiostoma pyriforme* Michael, 1901: 221

Type locality: Great Britain

Distribution: Great Britain, Italy

***Histiostoma (H.) radiferum*** Scheucher

*Histiostoma radiferum* Scheucher, 1957: 324

*Anoetus radiferum* (Scheucher): Sevastianov, 1975: 386

Type locality: Erlangen

Distribution: Germany

***Histiostoma (H.) rakha*** Fawzy et Mtewallii

*Histiostoma rakha* Fawzy & Mtewallii, 2007: 131

Type locality: Kafr El-Sheikh

Distribution: Egypt

***Histiostoma (H.) reticulatissimum*** Mahunka

*Histiostoma reticulatissimum* Mahunka, 1978: 123

Type locality: NE Wau, Morobe Distr. 1200 m

Distribution: Papua New Guinea

***Histiostoma (H.) reticulofoveolatum*** Mahunka

*Histiostoma reticulofoveolatum* Mahunka, 1978: 124

Type locality: Karubana, 1500 m

Distribution: Papua New Guinea

Host: *Amarygmus* [as “*Amargynus*”] cf. *deformipes* (Coleoptera: Tenebrionidae)

***Histiostoma (H.) rettenmeyerorum*** Mahunka

*Histiostoma rettenmeyerorum* Mahunka, 1978a: 156

Type locality: Oriente, 00°24S, 76°36'W, Limoncocha

Distribution: Ecuador

Host: *Labidus praedator* (Hymenoptera: Formicidae, Dorylinae)

***Histiostoma (H.) rimosum*** Mahunka

*Histiostoma rimosum* Mahunka, 1978: 156

Type locality: Oriente, 00°24S, 76°36'W, Limoncocha

Distribution: Ecuador

Host: *Labidum* sp. (Hymenoptera: Formicidae, Dorylinae)

***Histiostoma (H.) rizkii*** Eraky

*Histiostoma rizkii* Eraky, 1994: 157; Abdelgayed et al., 2019: 32

Type locality: Egypt

Distribution: Egypt

***Histiostoma (H.) rostratum*** Mahunka

*Histiostoma rostrata* Mahunka, 1978a: 156

Type locality: 4 km W of Villa Neily, 8°40'N, 82°56'W

Distribution: Costa Rica

Host: *Eciton hamatum* (Hymenoptera: Formicidae, Dorylinae)

***Histiostoma (H.) ruehmi*** Scheucher*Histiostoma ruehmi* Scheucher, 1957: 331*Anoetus ruehmi* (Scheucher): Sevastianov, 1975: 400

Type locality: Nürnberg

Distribution: Germany

Host: larve of *Melanotus rufipes* (Coleoptera: Elateridae)***Histiostoma (H.) rugosum*** Mahunka*Histiostoma rugosa* Mahunka, 1974b: 382

Type locality: Kumasi

Distribution: Ghana

***Histiostoma (H.) sachsi*** Scheucher*Histiostoma sachsi* Scheucher, 1957: 319*Anoetus sachsi* (Scheucher): Sevastianov, 1975: 400

Type locality: Erlangen

Distribution: Germany

***Histiostoma (H.) sapromyzae*** (Dufour)*Hypopus sapromyzae* Dufour, 1839: 278*Hypopus filicum* Dujardin, 1849: 261*Anoetus sapromyzae*: Oudemans, 1914: 107; Vitzthum, 1926a: 488; Mahunka, 1963c: 497; 1972e: 952*Histiostoma sapromyzae* (Dufour): Vitzthum, 1932: 700; Theodorides, 1955; Scheucher, 1957: 302; Mahunka, 1963e: 369

Type locality: France

Distribution: Argentina, Australia, Bolivia, Brazil, France, Germany, Greece, Holland, Hungary, Italy, Philippines, Syria

Hosts: *Melanotus rufipes* (Coleoptera: Elateridae); *Schizotrachelus bakeri* (Brenthidae), *Bubas bubalus* (Scarabaeidae); *Myodes [Clethrionomys] glareolus* (Mammalia: Rodentia)***Histiostoma (H.) sarrai*** Eraky et Shoker*Histiostoma sarrai* Eraky & Shoker, 1994: ?

Type locality: Egypt

Distribution: Egypt

***Histiostoma (H.) schauenbergi*** Mahunka*Histiostoma schauenbergi* Mahunka, 1978b: 274

Type locality: Indian Ocean Islands

Distribution: Indian Ocean Islands

***Histiostoma (H.) schoutedeni*** Fain et Elsen*Histiostoma schoutedeni* Fain & Elsen, 1972: 86

Type locality: Mangai on Kasai River

Distribution: DR Congo

Host: *Glossina fuscipes quanzensis* (Diptera: Glossinidae)***Histiostoma (H.) scinditum*** Mahunka*Histiostoma scindita* Mahunka, 1978: 160; Eraky, 2000: 11

Type locality: Oriente, 00°24S, 76°36'W, Limoncocha

Distribution: Ecuador

Host: *Eciton lucanoides* (Hymenoptera: Formicidae, Dorylinae)***Histiostoma (H.) sextoni*** Hughes et Jackson*Histiostoma sextoni* Hughes & Jackson, 1958: 116

Type locality: Chickahominy Swamp, near Ellerson, Va.

Distribution: USA

Host: in duck pen

***Histiostoma shiramba*** Klimov et Khaustov*Histiostoma shiramba* Klimov & Khaustov, 2018: 2375

Type locality: Sakhalin Island

Distribution: Russia (Sakhalin, Primorskyi Kray)

Host: in the galleries of *Polygraphus proximus* (Coleoptera: Curculionidae, Scolytinae)***Histiostoma (H.) simile*** Mahunka*Histiostoma simile* Mahunka, 1963a: 34

Type locality: Cavuemba River, Alto Cufilo, Poste de Cacolo

Distribution: Angola

***Histiostoma (H.) siphunculinae*** Chinniah et Mohanasundaram*Histiostoma siphunculinae* Chinniah & Mohanasundaram, 1995: 77

Type locality: Tamil-Nadu

Distribution: India

Host: *Siphunculina* sp. (Diptera: Chloropidae)***Histiostoma (H.) solimani*** Eraky*Histiostoma solimani* Eraky, 1997: 107

Type locality: Assiut

Distribution: Egypt

***Histiostoma (H.) spinitarsus*** (Oudemans)*Anoetus spinitarsus* Oudemans, 1917: 392

*Histiostoma spinatarsus* (Oudemans): Buitendijk, 1945: 363

Type locality: South America

Distribution: South America

Host: *Phanaeus* sp. (Coleoptera: Scarabaeidae)

***Histiostoma (H.) stammeri*** Scheucher

*Histiostoma stammeri* Scheucher, 1957: 321

*Anoetus stammeri* (Scheucher): Sevastianov, 1975: 398

Type locality: Germany

Distribution: Germany

Hosts: *Philonus*, *Ontolestes* (Coleoptera: Staphylinidae)

***Histiostoma (H.) strenzkei*** Scheucher

*Histiostoma strenzkei* Scheucher, 1957: 326

Type locality: Plön

Distribution: Germany

***Histiostoma (H.) striatosimile*** Mahunka

*Histiostoma striatosimile* Mahunka, 1975: 48

Type locality: Ghana

Distribution: Ghana

***Histiostoma (H.) subsimile*** Mahunka

*Histiostoma subsimile* Mahunka, 1963b: 62

Type locality: forest near Mussalomuca River

Distribution: Angola

Host: Col.: Carabidae

***Hirstiosoma (H.) sylvestre*** (Woodring et Moser)

*Anoetus gordius* of Hughes & Jackson (1958), not *A. gordius* Vitzthum, 1923

*Anoetus sylvestris* Woodring & Moser, 1970: 1248

*Hirstiosoma sylvestre* (Woodring et Moser):

Type locality: (Tirol)( Vitzthum, 1923), USA (Ellerson, Va., Hughes & Jackson, 1958)

Distribution: (Austria, Bosna & Herzegovina) (Vitzthum, 1923) USA (Hughes & Jackson, 1958: 70)

***Histiostoma (H.) szelenyii*** Mahunka

*Anoetus szelenyii* Mahunka, 1974 : 101

*Histiostoma (H.) szelenyii* Mahunka: Fain & Erteld, 1998: 52

Type locality: Afghanistan

Distribution: Afghanistan

Host: *Halictus holtzi* (Diptera: Halictidae)

***Histiostoma (H.) szentivanyi*** Mahunka

*Histiostoma szentivanyi* Mahunka, 1978: 126

Type locality: NE Nondugl, 2200–2700 m

Distribution: Papua New Guinea

Host: *Amarygmus* [as “*Amargymus*”] cf. *capillatus* (Coleoptera: Tenebrionidae)

***Histiostoma (H.) tanypus*** Fain et Camerik

*Histiostoma tanypus* Fain & Camerik, 1978: 171

Type locality: Cotia, Sao Paulu

Distribution: Brazil

Host: Hymenoptera: Vespidae gen. sp.

***Histiostoma (H.) tarsalis*** Banks (nomen dubium)

*Histiostoma tarsalis* Banks, 1910: 12

Type locality: USA

Distribution: USA

***Histiostoma (H.) telatum*** Mahunka

*Histiostoma telatum* Mahunka, 1979: 137

Type locality: Tanzania

Distribution: Tanzania

Host: Coleoptera

***Histiostoma (H.) tessellata*** Jacot

*Histiostoma tessellata* Jacot, 1939: 199

Type locality: Western North Carolina

Distribution: USA

***Histiostoma (H.) timidum*** Fain

*Histiostoma timidum* Fain, 1974b: 82

Type locality: La Savane de Lamto

Distribution: Ivory Coast

***Histiostoma (H.) tinydorsalis*** Eraky

*Histiostoma tinydorsalis* Eraky, 1999: 70

Type locality: Upper Egypt (Assiut)

Distribution: Egypt

***Histiostoma (H.) titanolabi*** Tagami et Halliday

*Histiostoma titanolabi* Tagami & Halliday, 2013: 222

Type locality: Australia

Distribution: Australia

Host: *Titanolabis colossea* (Dermaptera: Anisolabididae)

***Histiostoma (H.) toxopei*** (Oudemans)

*Anoetus toxopei* Oudemans, 1927: 230

*Histiostoma toxopei* (Oudemans): Buitendijk, 1945: 363

Type locality: Wai Eno – Wai Temoen, Boeroe

Distribution: Indonesia

***Histiostoma (H.) trichophorum*** (Oudemans)

*Anoetus trichophorus* Oudemans, 1912: 235

*Histiostoma trichophorus* (Oudemans): Buitendijk, 1945: 363

*Histiostoma trichophorum* (Oudemans): Scheucher, 1957: 306

Type locality: Mkulumusi

Distribution: Tanzania

Hosts: *Helops quisquilius*, *Hypophloeus bicolor* (Coleoptera: Tenebrionidae); *Platypus dispar* (Col.: Platypodidae)

***Histiostoma (H.) ulmi*** Scheucher

*Histiostoma ulmi* Scheucher, 1957: 308;

*Anoetus ulmi* (Scheucher): Woodring & Moser, 1970: 1256; Sevastianov, 1975: 400

Type locality: Erlangen

Distribution: Germany

Host: *Hypophloeus bicolor* (Coleoptera: Tenebrionidae)

***Histiostoma (H.) umbrosa*** Mahunka

*Histiostoma umbrosa* Mahunka, 1975b: 51

Type locality: Gambia

Distribution: Gambia

***Histiostoma (H.) unidentatum*** Fain, Athias-Binche et Carton

*Histiostoma unidentatum* Fain, Athias-Binche & Carton, 1993: 71

Type locality: Thailand

Distribution: Australia, Thailand

Host: *Drosophila bipectinata* (Diptera) imported from Thailand

***Histiostoma (H.) uvafer*** Mahunka

*Histiostoma uvafer* Mahunka, 1974b: 383

Type locality: Kwadaso

Distribution: Ghana



***Histiostoma (H.) uxor*** Mahunka*Histiostoma uxor* Mahunka, 1974b: 385

Type locality: Tamale

Distribution: Ghana

***Histiostoma (H.) validum*** Banks*Histiostoma valida* Banks, 1906: 141

Type locality: Canada

Distribution: Canada

***Histiostoma (H.) varium*** (Woodring et Moser)*Anoetus varia* Woodring & Moser, 1970: 1243; Moser & Roton, 1971; Moser, 1976: 811;*Histiostoma varia* (Woodring et Moser): Stone & Simpson, 1991;

Type locality: Elizabeth, La., USA

Distribution: Australia, USA, Honduras, Mexico, Canada

Hosts: boring dust of *Ips avulsus*, *I. calligraphus*, *I. grandicollis*, *Dendroctonus frontalis* (Coleoptera: Curculionidae, Scolytinae), phoretic on *Carcinops* sp. (Histeridae) and *Corticeus coynei* (Tenebrionidae)***Histiostoma (H.) variabilis*** Mahunka*Histiostoma variabilis* Mahunka, 1979: 244

Type locality: Cameroon

Distribution: Cameroon

***Histiostoma (H.) verruca*** Jacot*Histiostoma verruca* Jacot, 1939: 201

Type locality: Western North Carolina

Distribution: USA

***Histiostoma (H.) verrucogenicula*** Jacot*Histiostoma verrucogenicula* Jacot, 1939: 200

Type locality: Western North Carolina

Distribution: USA

***Hirstiosoma virginianum*** Woodring et Moser*Hirstiosoma virginiana* Woodring & Moser, 1970: 1255*Hirstiosoma virginianum* Woodring & Moser:

Type locality: Virginia, Florida, Tennessee

Distribution: USA

***Histiostoma (H.) volgini*** Mahunka*Histiostoma volgini* Mahunka, 1979: 138

Type locality: Transvaal, Nylsvley Reservation

Distribution: South Africa

***Histiostoma (H.) vulpis*** (Dujardin)

*Hypopus vulpis* Dujardin, 1849: 263

*Histiostoma vulpis* (Dujardin):

Type locality: Transvaal, Nylsvley Reservation

Distribution: South Africa

***Histiostoma (H.) watanabei*** Kurosa

*Histiostoma watanabei* Kurosa, 2002: 28

Type locality: Japan

Distribution: Japan

Host: Phoretic on *Lathrobium (Lathrobium)* (Coleoptera: Staphylinidae)

***Histiostoma (H.) wauense*** Mahunka

*Histiostoma wauense* Mahunka, 1976b: 311

Type locality: Torricelli Mts.

Distribution: Papua New Guinea

Host: *Platolenes femoratus* (Coleoptera: Tenebrionidae)

***Histiostoma (H.) zaheri*** Fawzy et Mtewallii

*Histiostoma zaheri* Fawzy & Mtewallii, 2007: 124

Type locality: Kafr El-Sheikh

Distribution: Egypt

Subgenus ***Cavanoetus*** Mahunka

*Cavanoetus* Mahunka, 1982: 290

Type species: *Histiostoma pierrestrinatii* Mahunka, 1982

***Histiostoma (Cavanoetus) pierrestrinatii*** Mahunka

*Histiostoma (Cavanoetus) pierrestrinatii* Mahunka, 1982: 290

Type locality: New Mexico

Distribution: USA

Subgenus ***Ichtanoetus*** Fain et Belpaire

*Ichtanoetus* Fain & Belpaire, 1985: 286

Type species: *Histiostoma anguillarum* Fain et Belpaire, 1985

***Histiostoma (Ichtanoetus) anguillarum*** Fain et Belpaire

*Histiostoma (Ichtanoetus) anguillarum* Fain & Belpaire, 1985: 287

Type locality: Loire

Distribution: France

Host: from the gills of young eels (*Anguilla Anguilla*, Anguillidae, Anguilliformes)

***Histiostoma (Ichtanoetus) cyrtandrae*** (Vitzthum)

*Anoetus cyrtandrae* Vitzthum, 1931: 110

*Histiostoma (Ichtanoetus) cyrtandrae* (Vitzthum): Fain & Belpaire, 1985: 287

Type locality: Java

Distribution: Indonesia

Host: in the axill fluid of *Colocasia indica*

***Histiostoma (Ichtanoetus) nigrellii*** Hughes et Jackson

*Histiostoma nigrellii* Hughes & Jackson, 1958: 95

*Histiostoma (Ichtanoetus) nigrellii*: Fain & Belpaire, 1985: 287

Type locality: aquarium in New York

Distribution: USA

Host: goldfish tank

***Histiostoma (Ichtanoetus) ocellatum*** Fain et Lambrechts

*Histiostoma (Ichtanoetus) ocellatum* Fain & Lambrechts, 1987: 95

Type locality: aquarium containing *Discus* fish, Antwerp

Distribution: Holland

***Histiostoma (Ichtanoetus) piscium*** Fain et Lambrechts

*Histiostoma piscium* Fain & Lambrechts, 1985: 121; Tagami, 2016:

*Histiostoma (Ichtanoetus) piscium*: Fain & Belpaire, 1985: 287

Type locality: aquarium in Antwerpen (imported from Thailand)

Distribution: Japan, Thailand

Hosts: *Pangasius sutchi* (Pisces: Siluriformes, Pangasiidae); *Periplaneta fuliginosa* (Dermaptera: Blattidae)

Genus ***Hormosianoetus*** Fain

*Hormosianoetus* Fain, 1980: 753

Type species: *Hormosianoetus aeschlimanni* Fain, 1980

***Hormosianoetus aeschlimanni*** Fain

*Hormosianoetus aeschlimanni* Fain, 1980: 756; Eraky & Shoker 1993: 56

Type locality: Zurich

Distribution: Switzerland

Host: *Drosophila* sp. (Diptera: Drosophilidae)

***Hormosianoetus laboratorium*** (Hughes)

*Histiostoma laboratorium* Hughes, 1950: 177; Scheucher, 1957: 333

? *Histiostoma genetica* (Stolpe, 1938)

*Hormosianoetus laboratorium* (Hughes): Fain, Athias-Binche & Carton, 1993: 75

Type locality: Switzerland

Distribution: Guadeloupe, Morocco, Switzerland

Hosts: *Drosophyla willstoni*, *D. subobscura* (Diptera: Drosophilidae)

***Hormosianoetus mahunkai*** Eraky et Shoker

*Hormosianoetus mahunkai* Eraky & Shoker, 1993: 53; Eraky & Mohamed, 2019: 2

Type locality: from Sohag governorate

Distribution: Egypt

Host: from *Fusarium* culture

***Hormosianoetus mallotae*** (Fashing)

*Mauduytia mallotae* Fashing, 1973: 455

*Hormosianoetus mallotae*: Fain, 1980: 755

Type locality: Johnson County (Texas)

Distribution: USA (Texas, Pennsylvania, Illinois)

Hosts: *Mallota posticata*, *M. bautius* (Diptera: Syrphidae)

Genus ***Hymenanoetus*** Mahunka

*Hymenanoetus* Mahunka, 1963a: 39

Type species: *Hymenanoetus nodosus* Mahunka, 1963

***Hymenanoetus nodosus*** Mahunka

*Hymenanoetus nodosus* Mahunka, 1963a: 39

Type locality: Angola, Lumeje II, N of Santando Station of C.F.B., Poste de Bussaco (80 km E of Luso)

Distribution: Angola

Genus ***Insulanoetus*** Sevastyanov

*Insulanoetus* Sevastyanov, 1973: 855

Type species: *Insulanoetus brachypodus* Sevastyanov, 1973

***Insulanoetus brachypodus*** Sevastyanov

*Insulanoetus brachypodus* Sevastyanov, 1973: 856

Type locality: Jaralgach Island (Black Sea)

Distribution: Crimea

Hosts: *Bledius bicornis*, *B. sarmaticus* (Coleoptera: Staphylinidae, Oxythelinae)

Genus ***Kanoetus*** Samšínák

*Kanoetus* Samšínák, 1966: 126

Type species: *Kanoetus cubanus* Samšínák, 1966

***Kanoetus australis*** Mahunka

*Kanoetus australis* Mahunka, 1975a: 60

Type locality: Kpington

Distribution: South Africa

***Kanoetus contrasetosus*** Mahunka

*Kanoetus contrasetosus* Mahunka, 1974 : 388

Type locality: Banda-Nkwanta

Distribution: Ghana

***Kanoetus cubanus*** Samšínák

*Kanoetus cubanus* Samšínák, 1966: 126

Type locality: Cuba

Distribution: Cuba

***Kanoetus samsinaki*** Mahunka

*Kanoetus samsinaki* Mahunka, 1974: 386

Type locality: Kumasi

Distribution: Ghana

Genus ***Kaszabanoetus*** Mahunka

*Kaszabanoetus* Mahunka, 1976b: 317

Type species: *Kaszabanoetus ulomae* Mahunka, 1976

***Kaszabanoetus ulomae*** Mahunka

*Kaszabanoetus ulomae* Mahunka, 1976b: 318

Type locality: Akcagoga

Distribution: Turkey

Host: *Uloma culinaria* (Coleoptera: Tenebrionidae)

Genus ***Loxanoetus*** Fain

*Loxanoetus* Fain, 1970: 173

Type species: *Loxanoetus bassoni* Fain, 1970 [Redescription, Fain 1983: 847]

***Loxanoetus bassoni*** Fain

*Loxanoetus bassoni* Fain, 1970: 173; Fain & Zumpt, 1974: 99; Fain 1983: 847

Type locality: Kruger Park (South Africa)

Distribution: South Africa, Namibia, Uganda

Hosts: *Loxodonta africana* (Mammalia, Proboscidea: Elephantidae), *Syncerus caffer* (Artiodactyla: Bovidae)

***Loxanoetus lenae*** Domrow et Ladds

*Loxanoetus lenae* Domrow & Ladds, 1984: 759

Type locality: Townsville, Queensland

Distribution: from zoo in Australia

Host: *Elephas maximus* (Mammalia, Proboscidea: Elephantidae)

Genus ***Munduytia*** Oudemans

*Munduytia* Oudemans, 1929: 450 [also "*Mauduytia*" in Scheucher, 1957]

Type species: *Anoetus tropicus* Oudemans, 1911

***Munduytia tropicus*** (Oudemans)

*Anoetus tropicus* Oudemans, 1911a: 190

*Munduytia tropicus* (Oudemans): Oudemans, 1929: 450

*Mauduytia tropicus*: Scheucher, 1957: 379

Type locality: Java, Banjoewangi

Distribution: Indonesia (Java)

Host: Blattodea fam., gen. sp.

Genus ***Nepenthacarus*** Fashing

*Nepenthacarus* Fashing, 2002: 8

Type species: *Nepenthacarus warreni* Fashing, 2002

***Nepenthacarus warreni*** Fashing

*Nepenthacarus warreni* Fashing, 2002: 8

Type locality: Far North Queensland

Distribution: Australia

Genus ***Otanoetus*** Fain et Zumpt

*Otanoetus* Fain & Zumpt, 1974: 100 [placement?]

Type species: *Otanoetus wetzeli* Fain et Zumpt, 1974

***Otanoetus wetzeli*** Fain et Zumpt

*Otanoetus wetzeli* Fain & Zumpt, 1974: 100

Type locality: Karumu Game Reserve (Uganda)

Distribution: Namibia, Uganda

Hosts: *Loxodontha africana* (Proboscidea: Elephantidae), *Syncerus caffer* (Artiodactyla: Bovidae)

Genus **Ovanoetus** Fain et van Goethem*Ovanoetus* Fain & van Goethem, 1985: 227Type species: *Ovanoetus wautersi* Fain et van Goethem, 1985***Ovanoetus wautersi*** Fain et van Goethem*Ovanoetus wautersi* Fain & van Goethem, 1985: 228

Type locality: St. Vincent Republic, Grenadines Isl., Bequia Id. (Windward Group)

Distribution: St. Vincent Republic, Grenadines Isl., Bequia Id. (Windward Group)

Host: *Coenobita clypeata* (Crustacea: Paguridae)Genus **Peripatetes** Mahunka*Peripatetes* Mahunka, 1976b: 315Type species: *Peripatetes acanthotarsus* Mahunka, 1976***Peripatetes acanthotarsus*** Mahunka*Peripatetes acanthotarsus* Mahunka, 1976b: 315

Type locality: Budafok

Distribution: Hungary

Host: Staphylinidae (Coleoptera)

Genus **Porrhanoetus** Mahunka*Porrhanoetus* Mahunka, 1963a: 41Type species: *Porrhanoetus machadoi* Mahunka, 1963***Porrhanoetus machadoi*** (Mahunka)*Porrhanoetus machadoi* (Mahunka): Mahunka, 1963a: 41; 1967: 168

Type locality: Angola, Cavuemba River, Alto Cuílo, Poste de Cacolo

Distribution: Angola, Congo - Brazzaville

Genus **Probonomoia** Fain et Rack*Probonomoia* Fain & Rack, 1987: 70Type species: *Probonomoia columbiana* Fain et Rack, 1987***Probonomoia africana*** (Mahunka)*Bonomoia africana* Mahunka, 1967: 171*Probonomoia africana* (Mahunka): Fain & Rack 1987: 71

Type locality: Mount Foari Reservation

Distribution: Congo (Brazzaville)

***Probonomoia chrysis*** Dimitrieff et Fain*Probonomoia chrysis* Dimitrieff & Fain, 1994: 105

Type locality: Spain

Distribution: Spain

Host: *Chrysis* sp. (Hymenoptera: Chrysididae)

***Probonomoia columbiana*** Fain et Rack

*Probonomoia columbiana* Fain & Rack, 1987: 71

Type locality: Paramo de Chisaca, 40 km south of Bogota

Distribution: Columbia

Host: from the flower of *Espeletia grandiflora* (Asteraceae)

***Probonomoia congoensis*** (Fain et Elsen)

*Bonomoia congoensis* Fain & Elsen, 1972: 89

*Probonomoia congoensis* (Fain et Elsen): Fain & Rack, 1987: 71

Type locality: Mongati

Distribution: DR Congo

Host: *Glossina fuscipes quanzensis* (Diptera: Glossinidae)

***Probonomoia humprehti*** (Samšínák)

*Bonomoia humprehti* Samšínák, 1956: 354

*Probonomoia humprehti* (Samšínák): Klimov & Khausov, 2018: 2411

Type locality: Czech Republic

Distribution: Czech Republic, Hungary, Romania

Hosts: *Laphria flava* (Diptera: Asilidae), *Ips* spp. (Coleoptera: Cuculionidae, Scolytinae),  
*Acanthocinus aedilis* (Col.: Cerambycidae)

***Probonomoia opuntiae*** Wirth

*Bonomoia opuntiae* Wirth, 2005: 303

*Probonomoia opuntiae* (Wirth):

Type locality: Sardinia

Distribution: Sardinia, Corsica, Canary Islands (Gomera)

***Probonomoia pini*** (Scheucher)

*Bonomoia pini* Scheucher, 1957: 366; Mahunka, 1970: 68; Woodring & Moser, 1970: 1256;

*Probonomoia pini* (Scheucher): Fain & Rack 1987: 71; Khaustov et al., 2018: 62

Type locality: Erlangen (Germany)

Distribution: Croatia, Czech Republic, England, Finland, Germany, Hungary, Japan,  
Poland, Russia

Hosts: *Hylaster ater*, *Ips acuminatus*, *I. cembrae*, *I. typographus* (Coleoptera: Curculionidae,  
Scolytinae), *Dorcus parallelipedus* (Coleoptera: Lucanidae), *Acanthocinus aedilis*  
(Col.: Cerambycidae), *Helops quisquilius* (Col.: Tenebrionidae)



***Probonomoia sibirica*** (Wirth)*Bonomoia sibirica* Wirth, 2016: 99*Probonomoia sibirica*: Khaustov et al., 2018: 64

Type locality: Tyumen Prov., East of Tyumen

Distribution: Russia

Hosts: *Dendroctonus micans*, *Ips typographus* (Coleoptera: Curculionidae, Scolytinae)***Probonomoia spinifera*** (Scheucher)*Bonomoia spinifera* Scheucher, 1957: 367*Probonomoia spinifera* (Scheucher): Fain & Rack, 1987: 71

Type locality: Erlangen

Distribution: Germany, Slovakia

Genus ***Prowichmannia*** Radford*Wichmannia* Oudemans, 1929: 450 [praeocc.]*Prowichmannia* Radford, 1950: 222Type species: *Histiostoma spiniferum* Michael, 1901***Prowichmannia spiniferum*** (Michael)*Histiostoma spinifera* Michael, 1901: 215; Oudemans, 1903:*Anoetus spiniferus* Michael: Oudemans, 1902: 46*Wichmannia spiniferum* (Michael): Oudemans, 1929:*Wichmannia spiniferus* (Michael): Buitendijk, 1945: 361*Wichmannia spinifera* (Michael): Scheucher, 1957: 370*Prowichmannia spiniferum* (Michael): Radford, 1950: [160]; Beron, 1973: 22*Prowichmannia spinifera* (Michael): Mahunka, 1970: 72; Krivolucliy, 1975: 413

Type locality: England

Distribution: Bulgaria, England, Germany, Hungary, Poland, Ukraine

Hosts: *Cetonia aurata* (Coleoptera: Scarabaeidae); many species of Mammals (Soricomorpha and Rodentia)***Prowichmannia stammeri*** (Scheucher)(new combination)*Wichmannia stammeri* Scheucher, 1957: 374*Prowichmannia stammeri*: p.p.

Type locality: Erlangen

Distribution: Germany

***Prowichmannia talpae*** (Scheucher)*Wichmannia talpae* Scheucher, 1957: 372*Prowichmannia talpae*: Zamec, 2014:

Type locality: England

Distribution: Germany, Slovakia

Host: nest of *Talpa europaea* (Soricomorpha: Talpidae)

Genus ***Psyllanoetus*** Fain et Beaucournu

*Psyllanoetus* Fain et Beaucournu, 1973: 516

Type species: *Psyllanoetus* Fain et Beaucournu, 1973

***Psyllanoetus afropulicarius*** Fain et Beaucournu

*Psyllanoetus afropulicarius* Fain & Beaucournu, 1973: 516

Type locality: Lemera, Kivu

Distribution: DR Congo

Hosts: *Listropsylla dolosa* (Siphonaptera: Hystrichopsyllidae), ex *Praomys jacksoni* (Rodentia: Muridae), *Stivalius torvus* (Siphonaptera), ex *Hybomys univittatus* (Rodentia), *Dinopsyllus apistus* (Siphonaptera), *Ctenophthalmus devignati* (Siphonaptera), ex *H. univittatus* (Rodentia)

***Psyllanoetus dinopsyllus*** Fain et Beaucournu

*Psyllanoetus dinopsyllus* Fain et Beaucournu, 1973: 517

Type locality: Lemera, Kivu

Distribution: DR Congo

Hosts: *Dinopsyllus apistus* (Siphonaptera), ex *Praomys jacksoni* (Rodentia: Muridae), *Ctenophthalmus debrauweri* (Siphonaptera), ex *Praomys jacksoni* (Rodentia), *Ct. calceatus cabirus* (Siphonaptera), ex *Otomys* sp. (Rodentia)

***Psyllanoetus melesicola*** Fain et Beaucournu

*Psyllanoetus melesicola* Fain & Beaucournu, 1973: 516

Type locality: Les Sieges, Yonne

Distribution: France

Host: *Paraceras melis* (Siphonaptera: Ceratophyllidae), ex *Meles meles* (Carnivora: Mustelidae)

Genus ***Pteranoetus*** Mahunka

*Pteranoetus* Mahunka, 1978: 128

Type species: *Pteranoetus kaszabi* Mahunka, 1978

***Pteranoetus incertus*** Mahunka

*Pteranoetus incertus* Mahunka, 1978a: 162

Type locality: Puerto Viejo, 10°26'N, 83°56'

Distribution: Costa Rica

Host: *Eciton burchelli* (Hymenoptera: Formicidae, Dorylinae)

***Pteranoetus kaszabi*** Mahunka*Pteranoetus kaszabi* Mahunka, 1978: 128

Type locality: NE Nondugl, 2200–2700 m

Distribution: Papua New Guinea

***Pteranoetus latus*** Mahunka*Pteranoetus latus* Mahunka, 1978a: 162

Type locality: Oriente, 00°24S, 76°36'W, Limoncocha

Distribution: Ecuador

***Pteranoetus rettenmeyeri*** Mahunka*Pteranoetus rettenmeyeri* Mahunka, 1978a: 166

Type locality: Oriente, 00°24S, 76°36'W, Limoncocha

Distribution: Ecuador

Host: *Neivamyrmex gradualis* (Hymenoptera: Formicidae, Dorylinae)Genus ***Rhaphidothrix*** Mahunka*Rhaphidothrix* Mahunka, 1967: 173Type species: *Rhaphidothrix gozmanyi* Mahunka, 1967***Rhaphidothrix gozmanyi*** Mahunka*Rhaphidothrix gozmanyi* Mahunka, 1967a: 173

Type locality: Kindamba, Meya, Louolo river

Distribution: Rep. of the Congo (Brazzaville)

***Rhaphidothrix punctolineatus*** Mahunka*Rhaphidothrix punctolineatus* Mahunka, 1973a: 106; 1979: 128

Type locality: Pretsea

Distribution: Ghana

Host: Coleoptera

***Rhaphidothrix simplex*** Mahunka*Rhaphidothrix simplex* Mahunka, 1974b: 390

Type locality: Kumasi

Distribution: Ghana

Genus ***Rhopalanoetus*** Scheucher*Rhopalanoetus* Scheucher, 1957: 362Type species: *Anoetus lanceocrinus* Oudemans, 1914

***Rhopalanoetus bifurcatus*** Mahunka

*Rhopalanoetus bifurcatus* Mahunka, 1961b: 529; 1965: 449; 1969b: 371

*Rhopalanoetus furcatus* Mahunka: Samšić, 1962

Type locality: Mt Meru, eastern slope (Tanzania)

Distribution: Rep. of the Congo (Brazzaville), Tanzania, DR Congo

Host: elephant excrement; *Onitis sphinx* (Coleoptera: Scarabaeidae)

***Rhopalanoetus chinensis*** Samšić

*Rhopalanoetus chinensis* Samšić, 1962b: 188

Type locality: Kanton [Guandong]

Distribution: China

Host: *Oniticellus cinctus* (Coleoptera: Scarabaeidae)

***Rhopalanoetus endroedyoungai*** Mahunka

*Rhopalanoetus endroedyoungai* Mahunka, 1979: 144

Type locality: Transvaal, Nylsvley Res., 35 km NE from Pretoria

Distribution: South Africa

***Rhopalanoetus fimetarius*** (G. Canestrini et Berlese)

*Histiostoma fimetarium* Canestrini & Berlese, 1881: 150 (not *Histiostoma fimetarius* sensu Hughes & Jackson, 1958)

*Rhopalanoetus fimetarius* (G. Canestrini et Berlese): Samsin, 1962: 96; Mahunka, 1970: 66; Bongers et al., 1985: 48

*Anoetus lanceocrinus* Oudemans, 1914: 72

*Histiostoma lanceocrinus*: Buitendijk, 1945: 362; Hughes & Jackson, 1958: 82

*Rhopalanoetus lanceocrinus*: Scheucher, 1957: 362; Mahunka, 1962: 117

*Anoetus tienhoveni* Oudemans, 1926: 123 – Type loc.: Naardelmeer, Holland

*Histiostoma tienhoveni*: Buitendijk, 1945: 363

Type locality: Padova (Italy)

Distribution: Holland, Hungary, Italy

***Rhopalanoetus gladifer*** Mahunka

*Rhopalanoetus gladifer* Mahunka, 1969b: 372

Type locality: Mt Meru, eastern slope

Distribution: Tanzania

***Rhopalanoetus heterotrichus*** Mahunka

*Rhopalanoetus heterotrichus* Mahunka, 1973: 111

Type locality: Ghana

Distribution: Ghana

***Rhopalanoetus hirsutus*** Mahunka*Rhopalanoetus hirsutus* Mahunka, 1973a: 305

Type locality: Nakpanduri

Distribution: Ghana

***Rhopalanoetus lanceocrinus*** (Oudemans)*Anoetus lanceocrinus* Oudemans, 1914: 72*Rhopalanoetus lanceocrinus* (Oudemans): Scheucher, 1957: 362

Type locality: Holland

Distribution: Germany, Holland

Hosts: *Aphodius fimetarius*, *A. fossor*, *A. merdarius*, *Geotrupes stercorarius* (Coleoptera: Scarabaeidae), *Sphaeridium* sp. (Col.: Hydrophilidae)***Rhopalanoetus robustus*** Mahunka*Rhopalanoetus robustus* Mahunka, 1973a: 112

Type locality: Meru

Distribution: Tanzania

***Rhopalanoetus simplex*** Samšínák*Rhopalanoetus simplex* Samšínák, 1962b: 187

Type locality: Kanton [Guandong]

Distribution: China

Host: *Oniticellus cinctus* (Coleoptera: Scarabaeidae)***Rhopalanoetus trogicola*** (Fain, Vangeluwe, Degreef et Wauthy)*Histiostoma trogicola* Fain, Vangeluwe, Degreef & Wauthy, 1993: 13*Rhopalanoetus trogicola* (Fain, Vangeluwe, Degreef et Wauthy): Mašan, 2000:

Type locality: near Namur (Belgium)

Distribution: Belgium, Slovakia

Hosts: *Trox scaber*, *T. cadaverinus* (Coleoptera: Trogidae)Genus ***Richardanoetus*** Samšínák*Richardanoetus* Samšínák, 1989: 99Type species: *Richardanoetus demel* Samšínák, 1989***Richardanoetus demel*** Samšínák*Richardanoetus demel* Samšínák, 1989: 99

Type locality: Fuvo

Distribution: Ecuador

Host: *Richardia* sp. (plant)

Genus ***Sarraceniopus*** Fashing et OConnor

*Sarraceniopus* Fashing & OConnor, 1984: 217

Type species: *Zwickia gibsoni* Nesbitt, 1954

***Sarraceniopus darlingtoniae*** Fashing et OConnor

*Sarraceniopus darlingtoniae* Fashing & OConnor, 1984: 219

Type locality: pitchers of *Darlingtonia californica*, Darlingtonia wayside, Lane County, Oregon

Distribution: USA (Oregon)

***Sarraceniopus gibsoni*** (Nesbitt)

*Zwickia gibsoni* Nesbitt, 1954: 454

*Anoetus gibsoni* (Nesbitt): Atyeo, 1978: 244

*Sarraceniopus gibsoni* (Nesbitt): Fashing & OConnor, 1984: 219

Type locality: Danford Lake Area, Quebec

Distribution: Canada (N.S., Quebec, Ontario)

Host: the pitchers of *Sarracenia purpurea* (Sarraceniaceae)

***Sarraceniopus hughesi*** (Hunter et Hunter)

*Anoetus hughesi* Hunter & Hunter, 1964: 39

*Sarraceniopus hughesi* (Hunter & Hunter): Fashing & OConnor, 1984: 219; Tagami, 2004: 169

Type locality: Georgia and North Carolina (USA)

Distribution: Japan (imported with plants), USA

Host: *Sarracenia* plants

Genus ***Scheucheria*** Mahunka

*Scheucheria* Mahunka, 1969a: 184

Type species: *Scheucheria mongolica* Mahunka, 1969

***Scheucheria mongolica*** Mahunka

*Scheucheria mongolica* Mahunka, 1969a: 184

Type locality: Mongolia

Distribution: Mongolia

Genus ***Scutanoetus*** Mahunka

*Scutanoetus* Mahunka, 1969b: 367 [placement?]

Type species: *Scutanoetus permixtus* Mahunka, 1969

***Scutanoetus permixtus*** Mahunka

*Scutanoetus permixtus* Mahunka, 1969b: 367

Type locality: Mt Meru, eastern slope

Distribution: Tanzania

Genus *Sellea* Oudemans

*Sellea* Oudemans, 1929: 449

Type species: *Histiostoma pulchrum* Kramer, 1886

*Sellea pulchrum* (Kramer)

*Histiostoma pulchrum* Kramer, 1886: 259; Li et al., 1992

*Sellea pulchrum* (Kramer): Oudemans, 1929: 449; Hughes & Jackson, 1958: 175

Type locality: Germany

Distribution: England, Germany, China

Genus *Semianoetus* Mahunka

*Semianoetus* Mahunka, 1976b: 313

Type species: *Semianoetus mrcziaki* Mahunka, 1976

*Semianoetus banksi* Mahunka

*Semianoetus banksi* Mahunka, 1979: 341

Type locality: Puntarenas, Monteverde, 1400 m

Distribution: Costa Rica

*Semianoetus mrcziaki* Mahunka

*Semianoetus mrcziaki* Mahunka, 1976b: 313

Type locality: Budapest, Hűvösvölgy

Distribution: Hungary

Genus *Spinanoetus* Scheucher

*Spinanoetus* Scheucher, 1957: 357

Type species: *Spinanoetus pelznerae* Scheucher, 1957

*Spinanoetus heterotrichus* Mahunka

*Spinanoetus heterotrichus* Mahunka, 1962: 432; Kaluz, 1992:

Type locality: Dunazuggebirge, Sikáros

Distribution: Hungary, Slovakia

*Spinanoetus pelznerae* Scheucher

*Spinanoetus pelznerae* Scheucher, 1957: 358; Káluz, 1993; Haitlinger, 2004:

Type locality: Erlangen

Distribution: Germany, Hungary, Poland

Hosts: *Necrophorus interruptus*, *Oeceoptoma thoracica*, *Thanatophilus rugosus*, *Th. sinuatus* (Coleoptera: Silphidae)

***Spinanoetus variabilis*** Mahunka

*Spinanoetus variabilis* Mahunka, 1973a: 109

Type locality: Nakpanduri

Distribution: Ghana

***Spinanoetus weingaertnerae*** Scheucher

*Spinanoetus weingaertnerae* Scheucher, 1957: 360; Haitlinger, 2004; Zamec, 2014

Type locality: Erlangen

Distribution: Germany, Hungary, Poland, Slovakia

Hosts: *Emus hirtus*, *Ontolestes* sp., *Philontus* sp. (Coleoptera: Staphylinidae)

Genus ***Stercoranoetus*** Mahunka et Mahunka-Papp

*Stercoranoetus* Mahunka & Mahunka-Papp, 1991: 285

Type species: *Stercoranoetus harteni* Mahunka et Mahunka-Papp, 1991

***Stercoranoetus harteni*** Mahunka et Mahunka-Papp

*Stercoranoetus harteni* Mahunka & Mahunka-Papp, 1991: 285

Type locality: Santiago: Santa Cruz

Distribution: Cabo Verde

***Stercoranoetus woolleyi*** (Mahunka et Eraky)

*Histiostoma woolleyi* Mahunka & Eraky, 1987: 135

*Stercoranoetus woolleyi* (Mahunka et Eraky): Mahunka & Mahunka-Papp, 1991: 285

Type locality: Hungary

Distribution: Hungary

Genus ***Synanoetus*** Mahunka

*Synanoetus* Mahunka, 1972d: 311

Type species: *Synanoetus baloghi* Mahunka, 1972

***Synanoetus baloghi*** Mahunka

*Synanoetus baloghi* Mahunka, 1972d: 311

Type locality: Las Cardas (Prov. Coquimbo)

Distribution: Chile

Genus ***Syringanoetus*** Fain

*Syringanoetus* Fain, 1980: 116

Type species: *Syringanoetus vandenberghi* Fain, 1980



***Syringanoetus faini*** Mahunka et Eraky*Syringanoetus faini* Mahunka & Eraky, 1987: 137

Type locality: Hungary

Distribution: Hungary

***Syringanoetus vandenberghi*** Fain*Syringanoetus vandenberghi* Fain, 1980: 116; Mahunka & Eraky 1987: 137

Type locality: Rugege Forest, 2500 m, 75 km from Butare

Distribution: Rwanda

Genus ***Teinokyra*** Mahunka*Teinokyra* Mahunka, 1973a: 306Type species: *Teinokyra lineata* Mahunka, 1973***Teinokyra lineata*** Mahunka*Teinokyra lineata* Mahunka, 1973a: 307

Type locality: Pretsea

Distribution: Ghana

Genus ***Tensiostoma*** Wurst et Kovac*Tensiostoma* Wurst & Kovac, 2003: 65Type species: *Tensiostoma veliaphilum* Wurst et Kovac, 2003***Tensiostoma veliaphilum*** Wurst et Kovac, 2003*Tensiostoma veliaphilum* Wurst & Kovac, 2003: 66

Type locality: Selangor, Darul Ehsan, Ulu Gombak Field Studies Centre, Univ. of Malaya

Distribution: Malaysia (Selangor)

Hosts: *Lathriovelina rickmersi*, *L. capitata* (Heteroptera: Veliidae)Genus ***Traskorchestianoetus*** Fain et Colloff*Traskorchestianoetus* Fain & Colloff, 1990: 667Type species: *Traskorchestianoetus spiceri* Fain et Colloff, 1990***Traskorchestianoetus brevipes*** Fain et Colloff*Traskorchestianoetus brevipes* Fain & Colloff, 1990: 672

Type locality: Dianna Island, Dodger Sound, British Columbia

Distribution: Canada

Host: *Traskorchestia traskiana* (Crustacea: Talitridae); marine***Traskorchestianoetus spiceri*** Fain et Colloff*Traskorchestianoetus spiceri* Fain & Colloff, 1990: 668

Type locality: Dianna Island, Dodger Sound, British Columbia

Distribution: Canada

Host: *Traskorchestia traskiana* (Crustacea: Talitridae); marine

Genus ***Xenanoetus*** Mahunka

*Xenanoetus* Mahunka, 1969: 359

Type species: *Xenanoetus vestigialis* Mahunka, 1969

***Xenanoetus afrotropicalis*** Fain

*Xenanoetus afrotropicalis* Fain, 1984: 281

Type locality: Kamobuga, Rugege Forest, 2500 m

Distribution: Rwanda

Host: elephant dung

***Xenanoetus grandiceps*** Mahunka

*Xenanoetus grandiceps* Mahunka, 1973: 61

Type locality: Mongolia

Distribution: Mongolia

***Xenanoetus kabrt*** Samšiniák

*Xenanoetus kabrt* Samšiniák, 1989: 103

Type locality: DR Congo

Distribution: DR Congo

Host: *Gymnometopina kibokoensis* (Diptera: Sphaeroceridae)

***Xenanoetus kofrankova*** Samšiniák

*Xenanoetus kofrankova* Samšiniák, 1989: 101

Type locality: Washington

Distribution: USA

Host: *Coproica acutangula* (Diptera: Sphaeroceridae)

***Xenanoetus vestigialis*** Mahunka

*Xenanoetus vestigialis* Mahunka, 1969a: 359

Type locality: Finland

Distribution: Finland

Host: *Sphaeridium* sp. (Coleoptera: Hydrophilidae)

Genus ***Zwickia*** Oudemans

*Zwickia* Oudemans, 1924: 310 [Diagnostic, Nesbitt 1979: 1205]

Type species: *Anoetus guentheri* Oudemans, 1915

***Zwickia colocasiae*** (Vitzthum)

*Anoetus colocasiae* Vitzthum, 1931: 118

*Zwickia colocasiae* (Vitzthum): Hughes & Jackson, 1958: 182

Type locality: Ngebal Lake

Distribution: Indonesia (Java)

***Zwickia guentheri*** (Oudemans)

*Anoetus guentheri* Oudemans, 1915: 242

*Zwickia guentheri* (Oudemans): Oudemans, 1924: 310; Vitzthum, 1931: 123; Hughes & Jackson, 1958: 177

Type locality: Sri Lanka

Distribution: Sri Lanka

Host: in pitchers of *Nepenthes distillatoria*

***Zwickia nepenthesiana*** Hirst

*Zwickia nepenthesiana* Hirst, 1928: 19; Vitzthum, 1931: 131

Type locality: Singapore

Distribution: Singapore

Host: from the pitchers of *Nepenthes ampullaria*

Subfamily ***Myianoetinae*** Scheucher

*Myianoetini* Scheucher, 1957: 337

*Myianoetinae*: Fain, 1974: 58

Type genus: *Myianoetus* Oudemans, 1929

Genus ***Myianoetus*** Oudemans

*Myianoetus* Oudemans, 1929: 499

*Anoetostoma* Womersley, 1941: 485 [Type is *oudemansi*; syn. by Fain & Domrow 1980: 41]

Type species: *Acarus muscarum* Linnaeus, 1758

***Myianoetus africanus*** Mahunka

*Myianoetus africanus* Mahunka, 1979d: 141

Type locality: Kenya

Distribution: Kenya

***Myianoetus antipodus*** Fain et Galloway

*Myianoetus antipodus* Fain & Galloway, 1993: 106; Clark, 2009: 31; 2010a: 9

Type locality: Motunau Island

Distribution: New Zealand

Host: *Eudyptula minor albosignata* (Aves: Spheniscidae)

***Myianoetus assiuti*** Eraky, Abdel-Aziz et Abo-Elmaged

*Myianoetus assiuti* Eraky, Abdel-Aziz & Abo-Elmaged, 2020: 78

Type locality: Assiut, Upper Egypt

Distribution: Egypt

***Myianoetus brevis*** Fain

*Myianoetus brevis* Fain, 1984: 287

Type locality: Rugege forest, 75 km from Butare, 2300 m

Distribution: Rwanda

Host: elephant dung

***Myianoetus clavatus*** Mahunka

*Myianoetus clavatus* Mahunka, 1963d: 369; 1970: 51

Type locality: Hortobágy-Máta

Distribution: Hungary

Host: *Spermophilus* [*Citellus*] *citellus* (Rodentia: Sciuridae)

***Myianoetus copromyzae*** Fain, Britt et Molyneux

*Myianoetus copromyzae* Fain, Britt & Molyneux, 1980: 402

Type locality: Scotland

Distribution: Scotland

Host: *Copromyza* sp. (Diptera: Sphaeroceridae)

***Myianoetus digitiferus*** (Trägårdh)

*Histiostoma digitifera* Trägårdh, 1904: 67

*Anoetus digitiferus* (Trägårdh): Vitzthum, 1925: 155

*Myianoetus digitiferus* (Trägårdh): Willmann, 1937: 183

Type locality: Greenland

Distribution: Greenland, Germany

Host: *Heleomyza* [*Blepharoptera*] *serrata* (Diptera: Helomyzidae)

***Myianoetus dionychus*** (Oudemans)

*Anoetus dionychus* Oudemans, 1910: 50

*Myianoetus diadematus* Willmann, 1937: 182

*Myianoetus dionychus* (Oudemans): Scheucher, 1957: 339

Type locality: Holland (Maastricht)

Distribution: France, Germany, Holland, Hungary, Romania, Slovakia

Hosts: flies (Diptera: Heleomyzidae); *Plecotus auritus* (Chiroptera: Vespertilionidae)

***Myianoetus domrowi*** (Fain)

*Anoetostoma domrowi* Fain, 1968: 246

*Myianoetus domrowi* (Fain)

Type locality: Butemu Village, Finisterre Range, Madang Central District

Distribution: Papua New Guinea

*Myianoetus dycei* Fain et Domrow

*Myianoetus dycei* Fain & Domrow, 1980: 41

Type locality: Queensland, Rockhampton

Distribution: Australia

Host: *Culicoides brevitarsis* (Diptera: Ceratopogonidae)

*Myianoetus filicum* (Dujardin)

*Hypopus filicum* Dujardin, 1841: 261

*Myianoetus filicum* (Dujardin):

Type locality: France

Distribution: France, Hungary

*Myianoetus granatum* Eraky

*Myianoetus granatum* Eraky, 2020: 153

Type locality: Assiut

Distribution: Egypt

*Myianoetus heterotrichus* Mahunka

*Myianoetus heterotrichus* Mahunka, 1968: 252

Type locality: Hungary

Distribution: Hungary

*Myianoetus kaszabi* Mahunka

*Myianoetus kaszabi* Mahunka, 1967c: 19

Type locality: Chentej aimak, 7 km NE of Somon Mörön

Distribution: Mongolia

*Myianoetus lili* Eraky

*Myianoetus lili* Eraky, 1993: 47; Negm & Alatawi, 2011: 97; Abdelgayed et al., 2019: 32

Type locality: Assiut, upper Egypt

Distribution: Egypt, Saudi Arabia

Host: manure

*Myianoetus longisetosus* Mašan et Krištofik

*Myianoetus longisetosus* Mašan & Krištofik, 1992: 84

Type locality: Slovakia

Distribution: Slovakia

Host: *Hydrotaea* sp. (Diptera: Muscidae)

***Myianoetus manurei*** Eraky, Abdel-Aziz et Abo-Elmaged

*Myianoetus manurei* Eraky, Abdel-Aziz & Abo-Elmaged, 2020: 76

Type locality: Assiut, Upper Egypt

Distribution: Egypt

***Myianoetus micromaculatus*** Fain et Philips

*Myianoetus micromaculatus* Fain & Philips, 1979: 151

Type locality: Syracuse, N.Y.

Distribution: USA

Host: in the nest of *Otus asio* (Aves: Strigiformes)

***Myianoetus microti*** Sevastianov et Vysotskaya

*Myianoetus microti* Sevastianov & Vysotskaya, 1971: 41

Type locality: Transcarpatian

Distribution: Ukraine

Host: in the nest of rodents

***Myianoetus mlcoch*** Samšiniák

*Myianoetus mlcoch* Samšiniák, 1989: 94

Type locality: Pullman, Washington

Distribution: USA

Host: *Copromyza (Borborillus) sordidus* (Diptera: Sphaeroceridae)

***Myianoetus muscarum*** (Linnaeus)

*Acarus muscarum* Linnaeus, 1758: 617

*Myianoetus muscarum* (Linnaeus): Buitendijk, 1945: 361; Scheucher, 1957: 338; Nuorteva, 1971; Sevastianov, 1975: 401; Oconnor et al., 2015: 1; Pimsler et al., 2016: 290

Type locality: Europe

Distribution: Belgium, Germany, England, Holland, Finland, ?France, Italy, Canada, USA

Hosts: *Synthesiomyia nudiseta* and other flies (Diptera: Muscidae), sometime hosts not sure (Pimsler et al., 2016).

***Myianoetus mystacis*** Mahunka

*Myianoetus mystacis* Mahunka, 1972b: 363

Type locality: Vértes-Geb., Fánivölgy

Distribution: Hungary

Host: *Fannia* sp. (Diptera: Fanniidae)

***Myianoetus nerminka*** (Eraky et Shoker)

*Anoetostoma nerminka* Eraky & Shoker, 1995: 21

*Myianoetus nerminka* (Eraky et Shoker):

Type locality: Egypt

Distribution: Egypt

***Myianoetus oudemansi*** (Womersley)

*Anoetostoma oudemansi* Womersley, 1941: 485; Hughes & Jackson, 1958: 126

*Myianoetus oudemansi* (Womersley): Fain & Domrow 1980: 41

Type locality: Sidney, NSW

Distribution: Australia

Host: *Musca domestica* (Diptera: Muscidae)

***Myianoetus ovatus*** Mašan et Kristofik

*Myianoetus ovatus* Mašan & Kristofik, 1992: 81

Type locality: Slovakia

Distribution: Slovakia

Host: *Hydrotaea* sp. (Diptera: Muscidae)

***Myianoetus paganus*** Sevastianov

*Myianoetus paganus* Sevastianov, 1973: 856

Type locality: Tchemerovtsi Village, Hmel'nitskaya Obl., Ukraine

Distribution: Ukraine

Host: horse dung

***Myianoetus pappi*** Mahunka

*Myianoetus pappi* Mahunka, 1972b: 361

Type locality: Aranyosgadány, Kuhfladen

Distribution: Hungary

Host: *Azelia parva* (Diptera: Muscidae)

***Myianoetus parvus*** Mahunka

*Myianoetus parvus* Mahunka, 1969a: 360; 1972b: 363

Type locality: Finland

Distribution: Finland, Hungary, Slovakia

Hosts: *Ophyra leucostoma* (Diptera: Muscidae), *Borboropsis fulviceps* (Diptera: Heleomyzidae)

***Myianoetus pseudomuscarum*** Sevastianov

*Myianoetus pseudomuscarum* Sevastianov, 1973: 856

Type locality: Tchemerovtsi Village, Hmel'nitskaya Obl., Ukraine

Distribution: Russia (Sakhalin, Tatarstan, Bashkortistan), Ukraine

Host: cow's dung

***Myianoetus reductus*** Mahunka

*Myianoetus reductus* Mahunka, 1969d: 368

Type locality: Mt Meru, eastern slope

Distribution: Tanzania

***Myianoetus rohaceki*** Samšiniák

*Myianoetus rohaceki* Samšiniák, 1984: 57; 1989: 91

Type locality: Hrubý Jeseník Mts., Skřitek

Distribution: Czech Rep., Hungary, USA

Hosts: *Limosina rufilabris*, *Coproica vistrispennis*, *Lotophila atra* (Diptera: Sphaeroceridae)

***Myianoetus rwandanus*** Fain

*Myianoetus rwandanus* Fain, 1984: 283

Type locality: Kamobuga, Rugege Forest, 2500 m

Distribution: Rwanda

Host: elephant dung

***Myianoetus scheucherae*** Mahunka

*Myianoetus scheucheri* Mahunka, 1972: 371 (as nom.nov. for the deutonymphs recorded as "*M. muscarum*" by Scheucher, 1957: 338)

*Myianoetus scheucherae* Mahunka: Klimov & Khaustov, 2018

Type locality: Erlangen

Distribution: Germany

***Myianoetus simplex*** Mahunka

*Myianoetus simplex* Mahunka, 1972: 363; Bongers, OConnor & Lukoschus, 1985: 19

Type locality: Aranyosgadány (Hungary)

Distribution: Czech Rep., France, Holland, Hungary

Hosts: *Coproica lugubris* (Diptera: Sphaeroceridae), *Hebecnema umbratica* (Diptera: Muscidae), *Sepsis thoracica* (Diptera: Sepsidae)

***Myianoetus simunek*** Samšiniák

*Myianoetus simunek* Samšiniák, 1989: 91

Type locality: Kiskunsagi N. P. Kunfehérto (lake)

Distribution: Hungary

Host: *Coproica lugubris* (Diptera: Sphaeroceridae)

***Myianoetus sovat*** Zamec

*Myianoetus sovat* Zamec, 2014: 916

Type locality: Vlčie Diery Cave

Distribution: Slovakia

Host: phoretic on *Gymnomus caesius* (Diptera: Heleomyzidae)



***Myianoetus szaboi*** Mahunka

*Myianoetus szaboi* Mahunka, 1978: 109

Type locality: Kócs (Hortobágy Nat. Park)

Distribution: Hungary

***Myianoetus szunyoghyi*** Mahunka

*Myianoetus szunyoghyi* Mahunka, 1969d: 369

Type locality: Mt Meru, eastern slope

Distribution: Tanzania

***Myianoetus thaleri*** Mahunka

*Myianoetus thaleri* Mahunka, 1972: 374

Type locality: Unterengadin, Ramosch, Charbunera

Distribution: Austria

***Myianoetus travei*** Fain

*Myianoetus travei* Fain, 1976: 309

Type locality: Kerguelen Island

Distribution: Kerguelen Island

***Myianoetus tuerkorum*** Scheucher

*Myianoetus tuerkorum* Scheucher, 1957: 341; Mahunka, 1970: 48; Fain et al., 1993: 14

Type locality: Erlangen (Germany)

Distribution: Belgium, Germany, Slovakia

Host: bird's nests

***Myianoetus tuomikoskii*** Mahunka

*Myianoetus tuomikoskii* Mahunka, 1969: 361

Type locality: Finland

Distribution: Finland, Slovakia, Romania, Mongolia

Hosts: *Hydrotaea occulta*, *H. tuberculata* (Diptera: Muscidae)

***Myianoetus uncinatus*** Fain

*Myianoetus uncinatus* Fain, 1984: 285

Type locality: Kamobuga, Rugege Forest, 2500 m

Distribution: Rwanda

Host: elephant dung

***Myianoetus undulatus*** Hughes et Jackson

*Myianoetus undulatus* Hughes & Jackson, 1958: 158

Type locality: Chickahominy Swamp, Ellerson, Virginia

Distribution: USA

***Myianoetus vesparum*** Scheucher

*Myianoetus vesparum* Scheucher, 1957: 343

Type locality: Erlangen

Distribution: Germany

Host: nests of Vespidae (Hymenoptera)

***Myianoetus virgatus*** Scheucher

*Myianoetus virgatus* Scheucher, 1957: 345; Mahunka, 1970: 49

Type locality: Germany

Distribution: Czech Rep., Germany, Slovakia

Hosts: Diptera (Borboridae, Scatophagidae), *Limosina clunipes* (Diptera: Sphaeroceridae)

***Myianoetus zdena*** Samšínák

*Myianoetus zdena* Samšínák, 1984: 60; 1989: 91

Type locality: Kremnicke pohoria, Mts Tuček, 850 m

Distribution: Austria, Hungary, Slovakia

Hosts: *Elachisoma aterrima*, *Coproica lugubris*, *C. pallifrons*, *C. vagans* (Diptera: Sphaeroceridae)

Subfam. **Scolianoetinae** Fain

Scolianoetinae Fain, 1974: 60

Type genus: *Scolianoetus* Fain, 1974

Genus ***Scolianoetus*** Fain

*Scolianoetus* Fain, 1974: 60

Type species: *Scolianoetus scheucherae* Fain, 1974

***Scolianoetus brasiliensis*** Fain

*Scolianoetus brasiliensis* Fain, 1974: 62

Type locality: Novo Friburgo

Distribution: Brazil

Host: *Spartocera cinnamomea* (Heteroptera: Coreidae)

***Scolianoetus faini*** Mahunka

*Scolianoetus faini* Mahunka, 1975a: 321

Type locality: Kiunga

Distribution: Papua New Guinea

***Scolianoetus javanus*** Mahunka

*Scolianoetus javanus* Mahunka, 1976b: 319

Type locality: Java, Pangerango

Distribution: Indonesia (Java)  
 Host: *Pelopides tridens* (Lepidoptera: Hesperiiidae)

***Scolianoetus ramozae*** Fain et Camerik  
*Scolianoetus ramozae* Fain & Camerik, 1978: 169  
 Type locality: Rio de Janeiro  
 Distribution: Brazil  
 Host: *Passalus* sp. (Coleoptera: Passalidae)

***Scolianoetus scheucherae*** Fain  
*Scolianoetus scheucherae* Fain, 1974: 62  
 Type locality: Lisala  
 Distribution: DR Congo  
 Host: *Campsomeris mansueta* (Hymenoptera: Scoliidae)

Subfam. **Spinanoetinae** Scheucher  
 Spinanoetini Scheucher, 1957: 357  
 Spinanoetinae: Fain, 1974: 58  
 Type genus: *Spinanoetus* Scheucher, 1957

Genus ***Spinanoetus*** Scheucher  
*Spinanoetus* Scheucher, 1957: 357  
 Type species: *Spinanoetus pelznerae* Scheucher, 1957

***Spinanoetus heterotrichus*** Mahunka  
*Spinanoetus heterotrichus* Mahunka, 1962: 432; Kaluz, 1992:  
 Type locality: Dunazuggebirge, Sikáros  
 Distribution: Hungary, Slovakia

***Spinanoetus pelznerae*** Scheucher  
*Spinanoetus pelznerae* Scheucher, 1957: 358; Káluz, 1993; Haitlinger, 2004:  
 Type locality: Erlangen (Germany)  
 Distribution: Germany, Hungary, Poland  
 Hosts: *Nicrophorus interruptus*, *Oeceptoma thoracica*, *Thanatophilus rugosus*, *Th. sinuatus* (Coleoptera: Silphidae)

***Spinanoetus variabilis*** Mahunka  
*Spinanoetus variabilis* Mahunka, 1973a: 109  
 Type locality: Nakpanduri  
 Distribution: Ghana

***Spinanoetus weingaertnerae*** Scheucher*Spinanoetus weingaertnerae* Scheucher, 1957: 360; Haitlinger, 2004; Zamec, 2014

Type locality: Erlangen (Germany)

Distribution: Germany, Hungary, Poland, Slovakia

Hosts: *Emus hirtus*, *Ontolestes* sp., *Philontus* sp. (Coleoptera: Staphylinidae)**Index of Histiostomatidae**(Names in **bold** are accepted as valid)

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*probata, Bonomoia* 37  
*Probonomoia* 77  
*processum, Glyphanoetus* 20  
*prodectoris, Anoetus* 63  
*prodectoris, Histiostoma* 63  
*prophthalmi, Anoetus* 64  
*prophthalmi, Histiostoma* 64  
*protuberans, Histiostoma* 64  
*Prowichmannia* 79

*pseudolongipes*, *Histiostoma* 64  
*pseudomuscarum*, *Myianoetus* 93  
*Psyllanoetus* 80  
*Pteranoetus* 80  
*pulchrum*, *Histiostoma* 85  
*pulchrum*, *Sellea* 85  
*punctaticeps*, *Histiostoma* 64  
*punctolineatus*, *Rhaphidothrix* 81  
*punctulatus*, *Anoetus* 32  
*puteanus*, *Comyianoetus* 15  
*puteanus*, *Conglanoetus* 15  
*pyriforme*, *Histiostoma* 64  
*quadriuncinata*, *Cederhjelmia* 38  
*radiferum*, *Histiostoma* 64  
*rakha*, *Histiostoma* 65  
*ramozae*, *Scolianoetus* 97  
*recondita*, *Bonomoia* 37  
*reductus*, *Myianoetus* 94  
*reticulatissimum*, *Histiostoma* 65  
*reticulatus*, *Anoetus* 32  
*reticulata*, *Bonomoia* 37  
*reticulofoveolatum*, *Histiostoma* 65  
*retractus*, *Anoetus* 32  
*rettenmeyeri*, *Pteranoetus* 81  
*rettenmeyerorum*, *Histiostoma* 65  
*Rhaphidothrix* 81  
*Rhopalanoetus* 81  
*rhynchophorus*, *Curculanoetus* 17  
*Richardanoetus* 83  
*rimosa*, *Histiostoma* 65  
*rimosum*, *Histiostoma* 65  
*rohaceki*, *Myianoetus* 94  
*rizkii*, *Histiostoma* 65  
*rostrata*, *Histiostoma* 65  
*rostratum*, *Histiostoma* 65  
*rostro-serratum*, *Histiostoma* 49  
*rostroserratum*, *Histiostoma* 49  
*rostro-serratus*, *Histiostoma* 49  
*rostro-serratus*, *Rhizoglyphus* 49  
*rostro-serratus*, *Tyroglyphus* 49  
*ruehmi*, *Anoetus* 66

*ruehmi*, *Histiostoma* 66  
*rugosa*, *Bonomoia* 37  
*rugosum*, *Histiostoma* 66  
*rwandanus*, *Myianoetus* 94  
*sachsi*, *Anoetus* 66  
*sachsi*, *Histiostoma* 66  
*samiensis*, *Anoetus* 32  
*sammari*, *Histiostoma*  
*samsinaki*, *Kanoetus* 75  
*sapromyzarum*, *Anoetus* 66  
*sapromyzarum*, *Histiostoma* 66  
*sapromyzarum*, *Hypopus* 66  
*Sarraceniopus* 84  
*sarrai*, *Histiostoma* 66  
*schauenbergi*, *Histiostoma* 66  
*scheucherae*, *Myianoetus* 94  
*scheucherae*, *Scolianoetus* 97  
*scheucheri*, *Myianoetus* 94  
*Scheucheria* 84  
*schoutedeni*, *Histiostoma* 67  
*scindita*, *Histiostoma* 67  
*scinditum*, *Histiostoma* 67  
*Scolianoetinae* 96  
*Scolianoetus* 96  
*Scutanoetus* 84  
*Sellea* 85  
*Semianoetus* 85  
*serrata*, *Histiostoma* 32  
*serratus*, *Anoetus* 32  
*setipes*, *Anoetus* 94  
*setipes*, *Hypopus* 94  
*setipes*, *Myianoetus* 94  
*sextoni*, *Histiostoma* 67  
*seychellensis*, *Creutzeria* 17  
*shamyi*, *Anoetus* 33  
*shanensis*, *Anoetus* 33  
*sharae*, *Anoetus* 33  
*shiramba*, *Histiostoma* 67  
*sibirica*, *Bonomoia* 79  
*sibirica*, *Probonomoia* 79  
*simile*, *Histiostoma* 67

- simplex*, *Myianoetus* 94  
*simplex*, *Rhaphidothrix* 81  
*simplex*, *Rhopalanoetus* 83  
*simunek*, *Myianoetus* 94  
*sinuosus*, *Anoetus* 33  
*siphunculinae*, *Histiostoma* 67  
*solimani*, *Histiostoma* 67  
*solomoniensis*, *Anoetus* 33  
*sordida*, *Anoetus* 33  
*sovai*, *Myianoetus* 94  
*sphaerocerae*, *Bonomoia* 16  
*sphaerocerae*, *Capronomoia* 16  
*spiceri*, *Traskorchestianoetus* 87  
**Spinanoetinae** 97  
 Spinanoetini 97  
**Spinanoetus** 85  
*spinifera*, *Bonomoia* 79  
*spinifera*, *Probonomoia* 79  
*spinifera*, *Prowichmannia* 79  
*spinifera*, *Wichmannia* 79  
*spinifera*, *Histiostoma* 79  
*spiniferum*, *Prowichmannia* 79  
*spiniferus*, *Anoetus* 79  
*spiniferus*, *Wichmannia* 79  
*spinipes*, *Anoetus* 33  
*spinitarsus*, *Anoetus* 68  
*spinitarsus*, *Histiostoma* 67  
*spinosus*, *Anoetus* 34  
*stammeri*, *Anoetus* 68  
*stammeri*, *Histiostoma* 68  
*stammeri*, *Wichmannia* 79  
*stammeri*, *Prowichmannia* 79  
**Stercoranoetus** 86  
*strenzkei*, *Histiostoma* 68  
*striata*, *Histiostoma* 34  
*striatosimile*, *Histiostoma* 68  
*striatus*, *Anoetus* 34  
*subsimile*, *Histiostoma* 68  
*sumatrensis*, *Anoetus* 34  
*sylvestris*, *Anoetus* 68  
*sylvestre*, *Histiostoma* 68  
**Synanoetus** 86  
**Syringanoetus** 86  
*szaboi*, *Myianoetus* 95  
*szelenyii*, *Anoetus* 68  
*szelenyii*, *Histiostoma* 68  
*szentivanyi*, *Histiostoma* 69  
*szunyoghyi*, *Anoetoglyphus* 23  
*szunyoghyi*, *Glyphanoetus* 20  
*szunyoghyi*, *Myianoetus* 95  
*talpae*, *Wichmannia* 79  
*talpae*, *Prowichmannia* 79  
*tanypus*, *Histiostoma* 69  
*tarsalis*, *Histiostoma* (nomen dubium) 69  
*tauffliebi*, *Anoetus* 34  
**Teinokyra** 87  
*teinophallus*, *Aphodanoetus* 36  
*telatum*, *Histiostoma* 69  
**Tensiostoma** 87  
*tesselata*, *Histiostoma* 69  
*thaleri*, *Myianoetus* 95  
*tibetana*, *Myianoetus* (nomen dubium)  
*tienhoveni*, *Anoetus* 82  
*tienhoveni*, *Histiostoma* 82  
*timidum*, *Histiostoma* 69  
*tinydorsalis*, *Histiostoma* 69  
*titanolabi*, *Histiostoma* 69  
*tobaica*, *Creutzeria* (nomen dubium) 17  
*topali*, *Anoetus* 34  
*toxici*, *Anoetus* 34  
*toxopei*, *Anoetus* 70  
*toxopei*, *Histiostoma* 70  
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*travei*, *Myianoetus* 95  
*trichophorum*, *Histiostoma* 70  
*trichophorus*, *Anoetus* 70  
*trichophorus*, *Histiostoma* 70  
*trogicola*, *Histiostoma* 83  
*trogicola*, *Rhopalanoetus* 83  
*tropicus*, *Anoetus* 76  
*tropicus*, *Munduytia* 76  
*trossis*, *Capronomoia* 16

- tuerkorum*, *Myianoetus* 95  
*tunisiensis*, *Anoetoglyphus* 23  
*tuomikoskii*, *Myianoetus* 95  
*turcastanae*, *Anoetus* 34  
*ulmi*, *Anoetus* 70  
*ulmi*, *Histiostoma* 70  
*ulomae*, *Kaszabanoetus* 75  
*umbrosa*, *Histiostoma* 70  
*uncinatus*, *Myianoetus* 95  
*undulatus*, *Myianoetus* 95  
*unidentatum*, *Histiostoma* 70  
*urcerosus*, *Anoetus* 35  
*uvafer*, *Histiostoma* 70  
*uxoria*, *Histiostoma* 71  
*valida*, *Histiostoma* 71  
*validum*, *Histiostoma* 71  
*vandenberghi*, *Syringanoetus* 87  
*varia*, *Anoetus* 71  
*varia*, *Histiostoma* 71  
*varium*, *Histiostoma* 71  
*variabilis*, *Histiostoma* 71  
*variabilis*, *Spinanoetus* 86  
*variolatus*, *Anoetus* 35  
*veliaphilum*, *Tensistoma* 87  
*venustissimus*, *Anoetus* 20  
*venustissimus*, *Glyphanoetus* 20  
*verruca*, *Histiostoma* 71  
*verrucogenicula*, *Histiostoma* 71  
*vesparum*, *Myianoetus* 96  
*vestigialis*, *Xenanoetus* 88  
*vilhenaorum*, *Anoetus* 35  
*virgatus*, *Myianoetus* 96  
*virginiana*, *Anoetus* 35  
*virginiana*, *Histiostoma* 71  
*virginianum*, *Histiostoma* 71  
*virkkii*, *Ancyranoetus* 21  
*vitzthumi*, *Anoetus* 35  
*vitzthumi*, *Histiostoma* 35  
*volgini*, *Histiostoma* 71  
*vulpis*, *Hypopus* 72  
*vulpis*, *Histiostoma* 72  
*warreni*, *Nepenthacarus* 76  
*wastis*, *Anoetus* 35  
*watanabei*, *Histiostoma* 72  
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*wautersi*, *Ovanoetus* 77  
*weingaertnerae*, *Spinanoetus* 86  
*wetzeli*, *Otanoetus* 77  
*Wichmannia* 79 (praeoccup.)  
*wooleyi*, *Histiostoma* 86  
*woolleyi*, *Stercoranoetus* 86  
*Xenanoetus* 88  
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*zdena*, *Myianoetus* 96  
*zoheirii*, *Bonomoia* 37  
*Zschachia* 39  
*Zwickia* 88

## Distribution of Histiostomatidae

### EUROPE

- Austria** (Vitzthum, 1926a, 1927; Scheucher, 1957; Mahunka, 1972b; Samšínák, 1958, 1962, 1989) – *Anoetoglyphus copridis*, *Histiostoma feroniarum*, *H. gladiger*, *H. gordius*, *H. humiditatis*, *H. julorum*, *H. vitzthumi*, *Myianoetus thaleri*, *M. zdena*
- Belgium** (Cooreman, 1963; Fain et al., 1993) – *Anoetus pini*, *Conglanoetus denticulatus*, *C. puteanus*, *Myianoetus tuercorum*, *Histiostoma gladiger*, *H. gordius*, *H. trogicola*
- Bulgaria** (Samšínák, 1958; Beron, 1973; Takov, Pilarska & Moser, 2009) – *Histiostoma ovale* (= *gladiger*), *H. piceae*, *Prowichmannia spiniferum*
- Croatia** (Pernek et al. 2008; Pernek et al. 2012; Wirth & Pernek. 2012; Wirth et al., 2016) – *Histiostoma piceae*, *H. ulmi*
- Czech Rep.** (Müller, 1860; Samšínák, 1956, 1958, 1984, 1989) – *Capronomoia sphaerocerae*, *Histiostoma manica*, *H. ovale*, *Myianoetus simplex*, *M. virgatus*, *Probonomoia humprehti*
- Denmark** (Jensen, 1895; Haarløv, 1957) – *Histiostoma berghii*, *H. julorum*
- Greenland** (Trägårdh, 1905) – *Myianoetus digitiferus*
- Finland** (Mahunka, 1969, 1972b; Nuorteva, 1971; Penttinen et al., 2013) – *Histiostoma* sp., *Myianoetus muscarum*, *M. parvus*, *M. tuomikoskii*, *Probonomoia pini*, *Xenanoetus vestigialis*
- France (contin.)** (Dufour, 1839; Gervais, 1844; Theodorides, 1955; Cooreman, 1954 ; Samšínák, 1958; Levieux et al., 1989; Fain & Beaucournu, 1973; Mahunka, 1972b, 1977) – *Anoetus dolifer*, *Histiostoma feroniarum*, *H. gervaisi*, *H. gladiger*, *H. piceae*, *H. sapromysarum*, *Myianoetus dionychus* [= *diadematus*], *M. simplex*, *Psyllanoetus melesicola*
- Corsica** (Samšínák, 1958; Wirth, 2005) – *Histiostoma ovale* (= *gladiger*), *Probonomoia opuntiae*
- Germany** (Koch, 1843; Kramer, 1876, 1886; Oudemans, 1902; Willmann, 1937; Scheucher, 1957; Fain & Erteld, 1998; Wirth, 2003) – *Anoetus myrmicarum*, *neglectus*, *A. pini*, *Capronomoia sphaerocerae*, *Glyphanoetus phyllotrichus*, *G. venustissimus*, *Histiostoma crypturgi*, *H. gladiger*, *H. gordius*, *H. halicticolum*, *H. julorum*, *H. oudemansi*, *H. palustre*, *H. piceae*, *H. phyllophorum*, *H. polypori*, *H. sapromyzarum*, *H. stammeri*, *H. strenzkei*, *H. trichophorum*, *H. ulmi*, *H. vitzthumi*, *Myianoetus dionychus* [= *diadematus*], *Probonomoia pini*, *Prowichmannia spiniferum*, *Rhopalanoetus lanceocrinus*, *Sellea pulchrum*, *Spinanoetus pelznerae*, *S. weingaertnerae*
- Great Britain** (Michael, 1901; Fain, Britt & Molyneux, 1980; Behura, 1950; Hyatt, 1990) – *Histiostoma polypori*, *Myianoetus copromyzae*, *Prowichmannia spiniferum*, *Selea pulchrum*
- Greece** (Mahunka, 1972e, 1977) – *Anoetus hauseri*, *A. samiensis*, *Histiostoma feroniarum*, *H. sapromyzarum*, *H. ionicum*, *H. matsakisi*



- Kephallinia** (Mahunka, 1971, 1972e) – *Anoetus hauseri*, *A. lunulatus*, *A. sapromyzarum*, *A. samiensis*, *Hauserania graeca*, *H. ornata*, *Histiostoma feroniarum*, *H. insulare*
- Zakynthos** (Mahunka, 1972e) – *Histiostoma feroniarum*,
- Levkas** (Mahunka, 1972e) – *Histiostoma sapromyzarum*,
- Holland** (Oudemans, 1914; Bongers, OConnor & Lukoschus, 1985; Fain & Lambrechts, 1987) – *Aphodanoetus teinophallus*, *Histiostoma brevimanum*, *H. insulare*, *H. ocellatum*, *H. phylloporum*, *H. polypori*, *H. sapromyzarum*, *Myianoetus simplex*, *Rhopalanoetus lanceocrinus*
- Hungary** (Mahunka, 1961, 1962a, 1962b, 1963d, 1968, 1970, 1972b, 1976, 1977b, 1978; Mahunka & Eraky, 1987; Samšinák, 1989) – *Anoetoglyphus copridis*, *Anoetus dudichi*, *A. myrmicarum*, *A. pannonicus*, *A. pini*, *Capronomoia sphaerocerae*, *Glyphanoetus longispina*, *Histiostoma baloghi*, *H. dactyloscopicum*, *H. disiunctum*, *H. gordius*, *H. histeri*, *H. hungaricum*, *H. lineatula*, *H. loksai*, *H. magdolnae*, *H. margaritatum*, *H. ovalis*, *H. polypori*, *H. sapromyzarum*, *H. serrata*, *Myianoetus clavatus*, *M. dionychus* (= *diadematus*), *M. heterotrichus*, *M. mystacis*, *M. pappi*, *M. parvus*, *M. rohaceki*, *M. simplex*, *M. simunek*, *M. szaboi*, *M. tuomikoskii*, *M. zdena*, *Peripatetes acanthotarsus*, *Probonomoia pini*, *P. humprechti*, *Prowichmannia spiniferum*, *Rhopalanoetus fimetarius*, *Semianoetus mrcziaki*, *Spinanoetus heterotrichus*, *S. pelznerae*, *S. weingaertnerae*, *Stercoranoetus woolleyi*
- Iceland** (Sellnick, 1940) – *Anoetus notabilis*
- Ireland** (Curry & Momen, 1988) – *Histiostoma feroniarum*
- Italy (contin.)** (Canestrini & Berlese, 1881; Berlese, 1881, 1883, 1918; Oudemans, 1927) – *Anoetoglyphus ateuchi*, *Glyphanoetus phyllotrichus*, *G. venustissimus*, *Histiostoma feroniarum*, *H. julorum*, *H. pyriforme*, *Rhopalanoetus fimetarius*
- Sicily** (Berlese, 1910; Samšinák, 1962) – *Anoetoglyphus ateuchi*, *Anoetus curtipes*, *A. privorai*, *Histiostoma brevipodum*
- Sardinia** (Wirth, 2005) – *Probonomoia opuntiae*
- Norway** (Fain et al., 1993) – *Conglanoetus denticulatus*
- Poland** (Chmielewski, 1984; Kiełczewski & Wiśniewski, 1980; Michalski & Ratajczak, 1989; Haitlinger, 2002, 2004; Witaliński, Rożej-Pabijan & Podkowa, 2014) – *Histiostoma crypturgi*, *H. ovalis*, *H. piceae*, *H. polypori*, *Spinanoetus pelznerae*, *S. weingaertnerae*, *Probonomoia pini*, *P. spinifera*,
- Portugal (cont.)** (Vissa et al., 2019) – *Histiostoma ovatus*
- Romania** (Cooreman, 1941; Mahunka, 1970, 1977b) – *Histiostoma gordius*, *H. histeri*, *H. lineatula*, *H. margaritatum*, *H. ovalis*, *Myianoetus tuomikoskii*, *Probonomoia humprechti*, *Xenanoetus vestigialis*
- Russia (all, continent.)** (Vitzthum, 1026; Sevastianov, 1973; Krivoluckiy, 1975; Wirth, 1916; Khaustov, Trach & Bobylev, 2016; Khaustov et al., 2018) – *Anoetus exornatus*, *Bonomoia recondita*, *Histiostoma gladiger*, *H. ovale*, *H. piceae*, *H. pini*, *Probonomoia pini*, *P. sibirica*
- Crimea** (Krivoluckiy, 1975)

**Sakhalin** (Sevastianov, 1973) - *Myianoetus pseudomuscarum*

**Kuril Islands** (Klimov, 1998) – *Scheucheria* sp.

**Slovakia** (Müller, 1859; Mahunka, 1972b, Samšinák, 1984, 1989; Mangová et al., 2017; Kaluz, 1992; Mašan & Országhi, 1995; Mašan, 2000; Mašan & Krištofik, 1992; Zamec, 2013, 2014) – *Bonomoia recondita*, *Capronomoia sphaerocerae*, *Histiostoma crypturgi*, *H. bergi*, *H. crypturi*, *H. dryocoeti*, *H. feroniarum*, *H. maritimus*, *H. myrmicarum*, *H. ovalis*, *H. pannonicus*, *H. piceae*, *H. pini*, *H. polypori*, *H. pulchrum*, *H. sapromyzae*, *Myianoetus diadematus*, *M. dionychus*, *M. longisetosus*, *M. ovatus*, *M. parvus*, *M. sovat*, *M. tuerkorum*, *M. tuomikoskii*, *M. virgatus*, *M. zdena*, *Rhopalanoetus lanceocrinus*, *Spinanoetus heterotrichus*, *S. pelznerae*, *S. weingaertnerae*

**Slovenia** (Moraza, Fernandez & Jurc, 2013) – *Histiostoma ovale*

**Spain** (cont.) (Dimitrieff & Fain, 1994; Rebolledo & Arroyo, 1996; Fernandez, Diez & Moraza, 2013) – *Histiostoma feroniarum*, *Probonomoia chrysis*

**Canary Islands** (Sanchez-Covisa et al., 1999; Wirth, 2005) – *Probonomoia opuntiae* (Gomera), *Histiostoma feroniarum* (Tenerife)

**Sweden** (Moser et al. 1989; Moser, Perry et al., 1989) – *Histiostoma piceae*

**Switzerland** (Mahunka, 1977; Fain, 1980) – *Anoetus dolifer*, *Hormosianoetus aeschlimanni*

**Turkey (all)** (Mahunka, 1976) – *Kaszabanoetus ulomae*

**Ukraine** (Sevastianov, 1970, 1971, 1973; Sevastianov & Vysotskaya, 1971) – *Anoetus helobius*, *A. hospitus*, *A. opertus*, *A. parmatum*, *A. retractus*, *Bonomoia picturata*, *B. probata*, *Histiostoma indetonsum*, *H. necopinum*, *Myianoetus microti*, *M. paganus*, *M. pseudomuscarum*, *Prowichmannia spinifera*

## AFRICA

**Angola** (Mahunka, 1963a, 1963b, 1967) – *Anoetus machadoi*, *A. striatus*, *A. vilhenorum*, *Anoetoglyphus* (?) *bifastigatus*, *Glyphanoetus brevisetus*, *Histiostoma andrei*, *H. angolensis*, *H. arcuatum*, *H. bacilligerum*, *H. clavatum*, *H. impressum*, *H. minimum*, *H. pontigerum*, *H. puncticeps*, *H. simile*, *H. subsimile*, *Hymenanoetus nodosus*, *Porrhanoetus machadoi*

**Botswana** (Camerik, Lukoschus & Kniest, 1980) – *Fibulanoetus longitarsus*, *F. mahunkai*

**Cabo Verde** (Mahunka & Mahunka-Papp, 1991) – *Glyphanoetus phyllotrichus*, *Histiostoma phyllophorum*, *Stercoranoetus harteni*

**Cameroon** (Mahunka, 1979b) - *Histiostoma amieti*, *H. camerunensis*, *H. chilopophila*, *H. variabile*

**Congo Rep. of the (Brazzaville)** (Mahunka, 1965, 1967a;) – *Anoetoglyphus africanus*, *A.* (?) *immaturus*, *Anoetus collis*, *A. congoensis*, *A. coprophilus*, *A. impressus*, *A. longisetus*, *A. machadoi*, *A. pauliana*, *A. punctulatus*, *A. striatus*, *A. tauffliebi*, *Glyphanoetus africanus*, *Rhaphidothrix gozmanyi*, *Rhopalanoetus bifurcatus*

**Congo DR** (Oudemans, 1929; Fain & Elsen, 1972; Fain & Beaucournu, 1973; Fain, 1974; Samšinák, 1962, 1989) – *Anoetus fetters*, *Chiloanoetus mayumbensis*, *Curculanoetus rhynchophorus*, *Histiostoma conclaviculum*, *H. schoutedeni*, *Probonomoia congoen-*



*sis*, *Psyllanoetus afropulicarius*, *Rhopalanoetus bifurcatus*, *Scolianoetus scheucherae*, *Xenanoetus kabrt*

**Egypt** (Yousef & Metwally, 1973; Metwali & Ahmad, 1987; Hassan & Sevastianov, 1991; Eraky & Shoker, 1993a, 1993b, 1994, 1995; Eraky & Nasser, 1993; Eraky, 1993, 1994a, 1994b, 1997, 1998, 1999a, 1999b, 1999c, 2000, 2003; Abu El-Maged, 1998; Abdel-Aziz, 1999; Eraky, Abdel-Galil & Bohibah, 2010; Fawzy & Mtewallii, 2007; Eraky, Abdelgayed, Negm, Helal & Moussa, 2017; Abdelgayed et al., 2019; Eraky, Abdel-Aziz & Abo-Elmaged, 2020; Desoky et al., 2020) – *Anoetus caljubiensis*, *A. irinus*, *A. moshtohorensis*, *A. sharae*, *A. wastis*, *Bonomoia zoherii*, *Coprobonomoia mahunkai*, *C. sphaerocerae*, *Glyphanoetus mahunkai*, *G. omari*, *G. processum*, *Histiostoma alii*, *H. arcuatus*, *H. bananai*, *H. camphori*, *H. cataglyphi*, *H. darwishii*, *H. diadematum*, *H. egyptiacum*, *H. essami*, *H. farghali*, *H. herbali*, *H. irinum*, *H. mannai*, *H. manuri*, *H. nasseri*, *H. negmi*, *H. onioni*, *H. pickaxeii*, *H. rizkii*, *H. sammari*, *H. sarrai*, *H. solimani*, *H. rizkii*, *H. tinydorsalis*, *H. zaheri*, *Hormosianoetus mahunkai*, *Myianoetus granatum*, *M. lili*, *M. manuri*, *M. nerminka*

**Fiji** (Mahunka, 1992) – *Histiostoma pseudolongipes*

**Gambia** (Mahunka, 1975, 1979) – *Anoetoglyphus szunyoghyi*, *Ghanoetus marmoreus*, *Histiostoma endroedii*, *H. fucatifer*, *H. gambiense*, *H. umbrosa*

**Ghana** (Mahunka, 1973a, 1973d, 1974a, 1975, 1979) – *Anoetus heliocopridis*, *A. sinuosus*, *Anoetoglyphus antennatus*, *A. globulus*, *A. latus*, *A. polygonatus*, *Bonomoia rugosa*, *Histiostoma distentosetum*, *H. editum*, *H. endroedii*, *H. furcatum*, *H. gorgo*, *H. rugosum*, *H. striatosimile*, *Rhaphidothrix punctolineatus*, *Rh. simplex*, *Rhopalanoetus hirsutus*, *Spinanoetus variabilis*, *Teinokyra lineata*

**Ivory Coast** (Fain, 1974) – *Anoetus humilis*, *A. macrosuctus*, *Histiostoma adsimile*, *H. alphaticum*, *Glyphanoetus eboris*

**Kenya** (Mahunka, 1979) – *Histiostoma bernoni*, *Myianoetus africanus*

**Madagascar** (Fain & Pauly, 2001) – *Histiostoma heriades*

**Morocco** (Fain, Athias-Binche & Carton, 1993) – *Hormosianoetus laboratorium*

**Namibia** (Fain, 1974) – *Loxanoetus bassoni*

**Rwanda** (Fain, 1980, 1984) – *Myianoetus brevis*, *M. rwandanus*, *M. uncinatus*, *Syringanoetus vandenberghi*, *Xenanoetus afrotrropicalis*,

**Seychelles** (Nesbitt, 1979) – *Creutzeria seychellensis*

**South Africa** (Fain, 1970; Mahunka, 1979; ) – *Anoetoglyphus lootsi*, *Histiostoma volgini*, *Loxanoetus bassoni*, *Rhopalanoetus endroedyoungai*

**Tanzania** (Oudemans, 1912, 1914; Mahunka, 1961, 1969b, 1974a, 1979) – *Anoetus heliocopridis*, *A. longitubus*, *A. reticulatus*, *Glyphanoetus flagellates*, *G. longus*, *G. szunyoghyi*, *Histiostoma bifoveolatum*, *H. phyllophorum*, *H. polaki*, *H. telatum*, *H. trichophorum*, *Myianoetus reductus*, *Rhopalanoetus bifurcates*, *Rh. gladifer*

**Tunisia** (Mahunka, 1981) – *Anoetoglyphus tunesiensis*

**Uganda** (Fain, 1974; Fain & Zumpt, 1974) – *Auricanoetus longitarsus*, *Loxanoetus bassoni*, *Otanoetus wetzeli*

**Indian Ocean Islands** (Mahunka, 1978) – *Histiostoma schauenbergi***ASIA****Afghanistan** (Mahunka, 1974c) – *Histiostoma szelenyii***China** (Samšínák, 1962b; Li et al., 1992; Wang et al., 2002; Fan, Chen & Wang, 2010) – *Histiostoma feroniarum*, *H. formosanum*, *Rhopalanoetus chinensis*, *Rh. simplex*, *Seliea pulchrum***Taiwan** (Mahunka, 1976; Phillipsen, 1977; Tseng Y.-H., 1982, 1984) – *Histiostoma formosanum*, *H. gampsoceri*, *H. humiditatis***India** (Vitzthum, 1926; Chinniah & Mohanasundaram, 1995) – *Histiostoma coprae*, *H. himalayae*, *H. muscae*, *H. onthophagae*, *H. siphunculinae***Indonesia** (Oudemans, 1903, 1911, 1914; Vitzthum, 1921, 1931, 1932; Mahunka, 1976) – *Histiostoma banjuwangicus*, *H. campanula*, *H. cyrtandrae*, *H. indicus*, *H. prosectoris*, *Munduytia tropicus*, *Scolianoetus javanus*, *Zwickia colocasiae***Iran** (Lotfollahi, Haddad Irani Nejad, Bagheri, Valizadeh, 2010) – *Histiostoma polypori*, *H. litorale***Israel and Palestina** (Costa, 1967; Mahunka, 1979a) – *Histiostoma feroniarum*, *H. loebli***Japan** (Kurosa, 2000, 2002; Takami & Kuwahara, 2005; Tagami, 2016; Kurosa & Tagami, 2006) – *Histiostoma globotuberum*, *H. mahunkai*, *H. piscium*, *H. watanabei*, *Probonomoia pini***Malaysia** (Vitzthum, 1921; Hirst, 1928; Kurosa, 1976; Wurst & Kovac, 2003; Azmiera, Mariana & Heo C.C., 2019) – *Anoetus myrmicarum*, *A. virginiana*, *Histiostoma* sp., *Tensioetoma veliaphilum***Mongolia** (Mahunka, 1967c, 1969c, 1972b, 1973) – *Anoetus cacuminatus*, *A. insulanus*, *A. kaszabi*, *A. microti*, *A. porosus*, *Histiostoma insulare*, *Myianoetus kaszabi*, *Myianoetus tuomikoskii*, *Scheucheria mongolica*, *Xenanoetus grandiceps***Pakistan** (Khan, 1969; Chauhtri, 1986; Ashfaq, 1988, 2001; Ashfaq, Chauhtri & Aheer, 1985; Ashfaq & Chauhtri, 1988; Sarwar, Ashfaq & Islam, 1998; Ashfaq, Sarwar & Akbar, 1999; Ashfaq, Sarwar & Ali, 2000; Ashfaq, Sarwar & Amiad, 2000; Ashfaq & Sarwar, 2001) – *Capronomoia asper*, *C. bellulus*, *C. gradates*, *C. pango*, *C. trossis*, *Glyphanoetus incanus*, *G. leptos*, *G. micidus*, *Histiostoma caro*, *H. crantor*, *H. densus*, *H. edax*, *H. erigo*, *H. fortis*, *H. fragosus*, *H. galerus*, *H. gracilis*, *H. imbecillum*, *H. junctus*, *H. karachiensis*, *H. luxus*,**Philippines** (Vitzthum, 1921) – *Histiostoma sapromyazarum***Saudi Arabia** (Samšínák, 1979; Negm & Alatawi, 2011) – *Capronomoia sphaerocerae*, *Histiostoma pickaxeii*, *H. camphori*, *Myianoetus lili***Singapore** (Hirst, 1928) – *Zwickia nepenthesiana***Sri Lanka** (Oudemans, 1915; Mahunka, 1974d) – *Anoetus aelleni*, *A. angularis*, *A. ceylanensis*, *Ceylanoetus excavatus*, *Zwickia guentheri***Syria** (–) – *Histiostoma* [*Anoetus*] *sapromyazarum*, *Capronomoia* [*Bonomoia*] *sphaerocerae***Taiwan** (Mahunka, 1976b) – *Histiostoma gampsoceri*

**Thailand** (Fain & Lambrechts, 1985; Fain, Athias-Binche & Carton, 1993; ) – *Histiostoma piscium*, *H. unidentatum*

**Vietnam** (Mahunka, 1967d, 1978; Fain & Beaucournu, 1972) – *Anoetoglyphus langi*, *Anoetus capillatus*, *A. decorus*, *A. longipes*, *A. ornatus*, *A. pocsi*, *A. spinosus*, *Bonomoia reticulata*

## NORTH AMERICA

**Canada** (Woodring & Moser, 1970; Lindquist et al., 1979; Mullen et al., 1989; Fain & Colloff, 1990; Walter & Latonas, 2012; OConnor et al., 2015; Achtymichuk, 2017; Baulieu et al., 2019) – *Anoetus sordida*, *Bonomoia* sp., *Histiostoma halictonida*, *Myianoetus muscarum*, *Traskorchestianoetus brevipes*, *T. spiceri*. According to Baulieu et al., 2019, in Canada are known 21 sp. of *Histiostomatidae* and the number expected is 80.

**Mexico** (Woodring & Moser, 1970) – *Histiostoma varium*

**USA** (Banks, 1906, 1910, Ewing, 1911; Hughes & Jackson, 1958; Cross, 1968; Woodring, 1971; Moser & Roton, 1971; Woodring & Moser, 1970, 1975; Moser, 1976; Hill & Deahl, 1978; Fain & Philips, 1979; Mahunka, 1982; Fashing & OConnor, 1984; Samšinák, 1989; Wirth & Moser, 2010; Uppstrom & Klompen, 2011; Oconnor et al., 2015; Pimsler et al., 2016; Achtymichuk, 2017) – *Ameranoetus hematobii*, *Anoetus cossi*, *A. grapefruit*, *A. media*, *A. sordida*, *Capronomoia sphaerocerae*, *Glyphanoetus nomiensis*, *Histiostoma bakeri*, *H. blomquisti*, *H. conjunctum*, *H. gracilipes*, *H. brevipes*, *H. guanophilum*, *H. halictonida*, *H. heinemanni*, *H. inquilinus*, *H. murchiei*, *H. nigrellii*, *H. pauciputeolum*, *H. pilosetum*, *H. phytophaga*, *H. protuberans*, *H. sextoni*, *H. tarsalis*, *H. varium*, *H. virginianum*, *Myianoetus micromaculatus*, *M. mlkoch*, *M. muscarum*, *M. rohaceki*, *Sarraceniopus darlingtoniae*, *Xenanoetus kofrankova*

## SOUTH and CENTRAL AMERICA

**Argentina** (Mahunka, 1963c, 1963d) – *Anoetus akodoni*, *Histiostoma* [*Anoetus*] *sapromysarum*

**Bolivia** (Vitzthum, 1921) – *Histiostoma sapromysarum*

**Brazil** (Vitzthum, 1926a; Fain, 1974; Fain & Camerik, 1978; Mahunka, 1982; Souza, Bernardi & Ferreira, 2018) – *Bothyanoetus pereirai*, *Histiostoma acrocini*, *H. sapromysarum*, *H. tanypus*, *Scolianoetus brasiliensis*, *S. ramozae*, *Spartocera cinammomea*

**Chile (contin.)** (Mahunka, 1963, 1972d) – *Anoetus castrii*, *A. chilensis*, *A. cirrosus*, *Synanoetus baloghi*

**Juan Fernandez Islands** (Mahunka, 1982) – *Glyphanoetus pappi*

**Colombia** (Fain & Rack, 1987) – *Probonomoia columbiana*

**Costa Rica** (Woodring, 1973; Mahunka, 1976, 1978a, 1979) – *Histiostoma adarcuale*, *H. claviger*, *H. coronatum*, *H. duplex*, *H. eickworthi*, *H. marianae*, *H. moralesi*, *H. perruptum*, *H. rostratum*, *Pteranoetus incertus*, *Semianoetus banksi*

**Cuba** (Samšinák, 1966, Mahunka, 1978) – *Histiostoma cubanum*, *H. meszarosorum*, *Kanoetus cubanus*

**Ecuador (contin.)** (Mahunka, 1978; Samšinák, 1989) – *Anoetus helena*, *Conglanoetus ornatofoveolatus*, *Histiostoma capillatum*, *H. continuatum*, *H. diadematum*, *H. elzingai*, *H. rettenmeyerorum*, *H. rimosa*, *H. scinditum*, *Pteranoetus latus*, *P. rettenmayeri*, *Richardanoetus demel*

**Guadeloupe** (Fain, Athias-Binche & Carton, 1993) – *Hormosianoetus laboratorium*

**Guatemala** (Woodring & Moser, 1975) – *Histiostoma conjunctum*

**Honduras** (Woodring & Moser, 1970, 1975) – *Histiostoma conjunctum*, *H. varium*

**Panama** (Mahunka, 1978a) – *Histiostoma incurvatum*

**Peru** (Caceres & Fain, 1975) – *Histiostoma ferroniarum*

**Puerto Rico** (Fain & Santiago-Blay, 1993) – *Ancyranoetus virkkii*

**St. Vincent Republic, Grenadines Isl., Bequia Id. (Windward Group)**(Fain & Van Goethem, 1985) – *Ovanoetus wautersi*

**Windward Islands (St. Lucia)** (Mahunka, 1981) – *Histiostoma antillense*, *H. mirabile*

## OCEANIA

**Australia (continent)** (Womersley, 1941, 1942; Mahunka, 1975; Fain & Domrow, 1980; Halliday, 1998; Halliday & Collins, 2002; Tagami & Halliday, 2013) – *Chiropteroetus chalinolobus*, *Histiostoma australiense*, *H. feroniarum*, *H. humiditatis*, *H. papillata*, *H. phyllophorum* (= nicholli Womersley), *H. sapromyzae*, *H. titanolabi*, *H. unidentatum*, *H. varium*, *Loxanoetus lenae*, *Myianoetus dycei*, *M. oudemansi*

**New Zealand** (Fain & Galloway, 1993; Qin & Rohitha, 1996; Clark, 2009, 2010a, 2010b) – *Histiostoma feroniarum*, *H. mantelli*, *Myianoetus antipodus*

**Papua New Guinea** (Fain, 1968; Mahunka, 1975, 1976, 1978) – *Histiostoma amargynus*, *H. foveosimile*, *H. lineosculpturatum*, *H. reticulatissimum*, *H. reticulofoveolatum*, *H. szentivanyi*, *H. wauense*, *Myianoetus domrowi*

**French Polynesia (Tahiti)** (Mahunka, 1992) – *Histiostoma berndhauseri*

**French Polynesia (Hivaoa)** (Vitzthum, 1935) – *Histiostoma granulatum*

**Fiji** (Mahunka, 1995, 1992) – *Anoetus peloponesiacus*, *Histiostoma genavensium*, *H. pseudolongipes*

**Marquesan Islands** (Vitzthum, 1935) – *Histiostoma granulatum*

**Salomon Islands** (Mahunka, 1972c) – *Anoetus bradymeri*, *A. horridus*, *A. solomoniensis*, *A. toxicus*

## ANTARCTICA

**Kerguelen Islands** (Fain, 1976) – *Amyzanoetus halophilus*, *Austranoetus kerguelenensis*, *Histiostoma kerguelenense*, *Myianoetus travei*

## Hosts of Histiostomatidae

### Hirudinea

#### Fam. Aulostomidae

*Aulastoma gulo* (cocoons) – *Histiostoma berghi*

### Crustacea

#### Amphipoda

#### Fam. Talitridae

*Traskorchestia traskiana* – *Traskorchestianoetus brevipes*

### Isopoda

#### Fam. Oniscidae

*Oniscus asellus* – *Histiostoma phyllophorum*

*Oniscus* sp. – *Histiostoma feroniarum*

### Decapoda

#### Fam. Paguridae

*Coenobita clypeata* – *Ovanoetus wautersi*

### Arachnida

#### Acari

#### Fam. Gamasidae

*Eugamasus cornutus* – *Histiostoma polyperi*

### Myriapoda

#### Diplopoda

#### Fam. Iulidae

*Julus scandinavicus* – *Histiostoma feroniarum*, *H. litorale*, *H. sapromyzarum*

#### Chilopoda

#### Fam. Lithobiidae

*Lithobius forficatus* – *Histiostoma gervaisi*

#### Fam. Scolopendridae

*Cormocephalus aurantiipes* – *Histiostoma feroniarum*

### Insecta

#### Orthoptera

#### Fam. Phalangopsidae

*Endecous (Endecous) alejomesai* – *Histiostoma* sp. (cave)

#### Coleoptera

#### Fam. Carabidae

*Demetrius imperialis* – *Histiostoma disiunctum*, *H. serratum*

*Dichaetodrilus incrassatus* – *Histiostoma striatum*

#### Fam. Brentidae

*Ectocemus cinnamomeus* – *Histiostoma prodectoris*

*Eubactus semiaeneus* – *Anoetus polynesiacus*

*Prodector fruhstorferi* – *Histiostoma prodectoris*  
*Prophthalmus potens* – *Histiostoma prophthalmi*  
*Schizotrachelus bakeri* – *Histiostoma sapromyzarum*

**Fam. Platypodidae**

*Platypus dispar* – *Histiostoma crassipes*

**Fam. Cerambycidae**

*Acanthocinus aedilis* – *Probonomoia humprehti*, *P. pini*  
*Acrocinus longimanus* – *Histiostoma acrocini*  
*Rhagium* sp. – *Histiostoma crypturgi*

**Fam. Chrysomelidae**

*Galeruca* sp. – *Histiostoma necopinus*  
*Lema nigripes* – *Ancyranoetus virkkii*

**Fam. Coccinellidae**

Gen. sp. – *Histiostoma lorentzi*

**Fam. Curculionidae**

Curculioninae s.l.

*Rhynchophorus phoenicis* – *Anoetoglyphus bifastigatus*, *Curculanoetus rhynchophorus*, *Histiostoma striatum*

Scolytinae

*Crypturgus pusillus* – *Histiostoma crypturgi*  
*Dendroctonus brevicomis* – *Bonomoia certa*  
*D. frontalis* – *Histiostoma conjunctum*  
*D. micans* – *Histiostoma vitzthumi*  
*D. pseudotsugae* – *Bonomoia certa*  
*Dryocoetus autographus* – *Histiostoma dryocoeti*  
*Dryocoetes villosus* – *Anoetus pannonicus*  
*Hylaster ater* – *Probonomoia pini*  
*Ips avulsus* – *Histiostoma conjunctum*  
*I. cembrae* – *Histiostoma oudemansi*  
*I. curvidens* – *Histiostoma abietis*  
*I. grandicollis* – *Histiostoma varium*  
*I. laricis* – *Histiostoma gordius*  
*I. sexdentatus* – *Histiostoma ovalis* (= *gladiger*)  
*I. typographus* – *Histiostoma piceae*  
*Mycetophilus piniperda* – *Probonomoia pini*  
*Polygraphus minor* – *Histiostoma himalayae*  
*Scolytus ventralis* – *Bonomoia certa*

**Fam. Elateridae**

*Melanotus rufipes* – *Histiostoma ruehmi*, *H. sapromyzarum*

**Fam. Histeridae**

*Carcinops 14-striata* – *Histiostoma hungaricum*  
*Carcinops* sp. – *Anoetus sordida*

*Hister merdarius* – *Histiostoma feroniarum*  
*H. stercorarius* - *Histiostoma feroniarum*  
*H. unicolor* - *Histiostoma feroniarum*  
*Hololepta africanae* - *Histiostoma crassipes*  
*Platysoma compressum* – *Histiostoma histeri*, *H. lineatula*, *H. margaritatum*,  
*H. ovale*

**Fam. Hydrophilidae**

*Hydrophilus caraboides* – *Histiostoma maritimus*  
*Sphaeridium* sp. - *Rhopalanoetus lanceocrinus*, *Xenanoetus vestigialis*

**Fam. Lucanidae**

*Dorcus parallelopipedus* – *Histiostoma dryocoeti*, *Probonomoia pini*

**Fam. Nitidulidae**

*Brachypeplus* sp. – *Histiostoma granulatum*

**Fam. Passalidae**

*Passalus* sp. - *Scolianoetus ramozae*

**Fam. Scarabaeidae**

*Aphodius fimetarius* – *Rhopalanoetus lanceocrinus*  
*A. fossor* – *Rhopalanoetus lanceocrinus*  
*A. frater* – *Aphodanoetus teinophallus*  
*A. merdarius* – *Rhopalanoetus lanceocrinus*  
*Bothynus deiphobus* - *Bothyanoetus pereirai*  
*Bubas bubalus* - *Histiostoma sapromyzae*  
*Copris lunaris* - *Anoetoglyphus copridis*  
*Cetonia aurata* – *Prowichmannia spiniferum*  
*Geotrupes stercorarius* - *Rhopalanoetus lanceocrinus*  
*Melolontha hippocastani* – *Histiostoma melolonthae*  
*Oniticellus cinctus* – *Rhopalanoetus chinensis*, *Rh. simplex*  
*Onitis sphinx* – *Rhopalanoetus bifurcatus*  
*Onthophagus pactolus* – *Histiostoma onthophagae*  
*Oxythyrea funesta* – *Histiostoma phyllophorum*  
*Polyphyla fullo* - *Histiostoma melolonthae*  
*Scarabaeidae* - *Anoetoglyphus langi*

**Fam. Staphylinidae**

*Bledius bicornis* – *Insulanoetus brachypodus*  
*B. sarmaticus* - *Insulanoetus brachypodus*  
*Emus hirtus* - *Spinanoetus weingaertnerae*  
*Lathrobium* (*Lathrobium*) sp. – *Histiostoma watanabei*  
*Ontolestes* sp. - *Spinanoetus weingaertnerae*  
*Philontus* sp. - *Spinanoetus weingaertnerae*

**Fam. Silphidae**

*Nicrophorus interruptus* - *Spinanoetus pelznerae*  
*Oceoptomata thoracica* - *Spinanoetus pelznerae*



*Thanatophilus rugosus* - *Spinanoetus pelznerae*

*Th. sinuatus* - *Spinanoetus pelznerae*

**Fam. Tenebrionidae**

*Amarygmus* [a "Amargynus", or "Amargymus"] cf. *capillatus* - *Histiostoma amargynum*, *H. szentivanyi*

*Amarygmus* [as "Amargynus"] cf. *deformipes* - *Histiostoma reticulofoveolatum*

*Androsus greensladei* - *Anoetus bradymeri*

*Bradymerus leveri* - *Anoetus bradymeri*

*Corticeus coynei* - *Anoetus sordida*

*Helops quisquilius* - *Histiostoma ulmi*

*Hypophloeus bicolor* - *Histiostoma ulmi*

*Leiochrodes suturalis* - *Anoetus horridus*, *A. solomoniensis*

*Platolenes femoratus* - *Histiostoma wauensis*

*Platolenes* sp. - *Histiostoma lineosculpturatum*

*Prioscelis serrata* - *Chiloanoetus mayumbensis*

*Scyophagus piceus* - *Anoetus horridus*

*Toxicum quadricorne rufipes* - *Anoetus toxici*

*Uloma culinaria* - *Kaszabanoetus ulomae*

**Fam. Trogidae**

*Trox scaber* - *Rhopalanoetus trogicola*

*T. cadaverinus* - *Rhopalanoetus trogicola*

**Dermaptera**

**Fam. Labiduridae**

*Labidura riparia* - *Anoetus moshtohorensis*, *A. wastis*, *Histiostoma camphori*

**Fam. Anisolabididae**

*Anisolabella* (*Gonolabis*) *marginalis* - *Histiostoma mahunkai*, *H. piscium*

*A. maritima* - *Histiostoma piscium*

*Titanolabis colossea* - *Histiostoma australiense*, *H. humiditatis*, *H. titanolabi*

**Fam. Forficulidae**

*Forficula auricularia* - *Histiostoma polypori*

**Heteroptera**

**Fam. Coreidae**

*Spartocera cinammomea* - *Scolianoetus brasiliensis*

**Fam. Veliidae**

*Lathriovelvia rickmersi* - *Tensiostoma veliaphilum*

*L. capitata* - *Tensiostoma veliaphilum*

**Hymenoptera**

**Fam. Megachilidae**

*Heriades erythrosoma* - *Histiostoma heriades*

**Fam. Apidae**

*Xenoglossa strenua* - *Histiostoma inquilinus*



**Fam. Halictidae**

- Augochlora* spp. – *Histiostoma eickworthi*  
*Halictus holtzi* – *Histiostoma szelenyii*  
*H. sexcinctus* – *Histiostoma halicticum*  
*H. rubicundus* – *Histiostoma halictonida*  
*H. tatrazonianellus* – *Histiostoma orientalis*  
*Megalopta* spp. – *Histiostoma halictonida*  
*Nomia melanderi* – *Glyphanoetus nomiensis*  
*N. nortoni* – *Glyphanoetus nomiensis*

**Fam. Formicidae**

- Aphaenogaster testaceopilosa* – *Anoetus privorai*  
*Camponotus* sp. – *Histiostoma myrmicarum*  
*Eciton burchelli* – *Histiostoma incurvatum*, *Pteranoetus incertus*  
*E. hamatum* – *Histiostoma clavifer*, *H. moralesi*, *H. rostratum*  
*E. lucanoides* – *Histiostoma elzingai*, *H. scinditum*  
*Formica fusca* – *Histiostoma myrmicarum*  
*F. lemani* – *Anoetus komarpictoris*, *A. shamyi*  
*F. rufa* – *Anoetus exornatus*  
*Gymnometopina kibokoensis* – *Anoetus caljubiensis*  
*Labidus praedator* – *Conglanoetus ornatofoveolatus*, *Histiostoma capillatum*,  
*H. rettenmeyerorum*  
*Labidus* sp. – *Histiostoma continuatum*, *H. rimosum*  
*Lasius flavus* – *Histiostoma myrmicarum*  
*L. niger* – *Histiostoma myrmicarum*  
*Myrmica laevinodis* – *Histiostoma myrmicarum*  
*M. ruginodis* – *Anoetus dolifer*, *Bonomoia recondita*, *Histiostoma myrmicarum*  
*M. rubra* – *Anoetus opertus*  
*M. sabuleti* – *Anoetus dolifer*  
*Neivamyrmex gibbatus* – *Histiostoma diadematum*  
*N. gradualis* – *Pteranoetus rettenmeyeri*  
*Solenopsis invicta* – *Histiostoma blomquisti*

**Fam. Scoliidae**

- Campsomeris mansueta* – *Scolianoetus scheucherae*

**Fam. Chrysididae**

- Chrysis* sp. – *Probonomoia chrysis*

**Fam. Vespidae**

- Vespidae gen. sp. – *Histiostoma tanypus*

**Diptera****Fam. Asilidae**

- Laphria flava* – *Probonomoia humprehti*

**Fam. Ceratopogonidae**

- Culicoides brevitarsis* – *Myianoetus dycei*

**Fam. Chloropidae**

*Gampsocera mutata* - *Histiostoma gampsoceri*

*Scoliophthalmus* sp. - *Anoetus domrowi*

*Siphunculina* sp. - *Histiostoma siphunculinae*

**Fam. Drosophilidae**

*Drosophyla bipectinata* - *Histiostoma unidentatum*

*D. willstoni* - *Hormosianoetus laboratorium*

*D. subobscura* - *Hormosianoetus laboratorium*

*Drosophila* sp. - *Hormosianoetus aeschlimanni*

**Fam. Glossinidae**

*Glossina fuscipes quanzensis* - *Histiostoma schoutedeni*, *Probonomoia congoensis*

**Fam. Muscidae**

*Azelia parva* - *Myianoetus pappi*

*Haematobia irritans* - *Ameranoetus haematobii*

*Hebecnema umbratica* - *Myianoetus simplex*

*Hydrotaea occulta* - *Myianoetus tuomikoskii*

*H. tuberculata* - *Myianoetus tuomikoskii*

*Hydrotaea* sp. - *Myianoetus longisetosus*, *M. ovatus*

*Musca domestica* - *Histiostoma muscae*

*Ophyra leucostoma* - *Myianoetus parvus*

*Synthesiomyia nudiseta* - *Myianoetus muscarum*

**Fam. Fanniidae**

*Fannia* sp. - *Myianoetus mystacis*

**Fam. Sepsidae**

*Sepsis thoracica* - *Myianoetus simplex*

**Fam. Heleomyzidae**

*Amoebaleria cacsia* - *Myianoetus diadematus*

*A. spectabilis* - *Myianoetus diadematus*

*Borboropsis fulviceps* - *Myianoetus parvus*

*Gymnomus caesius* - *Myianoetus sovat*

*Helomyza brachypterna* - *Myianoetus diadematus*

*H. serrata* - *Myianoetus diadematus*

**Fam. Sphaeroceridae**

*Borborillus sordidus* - *Myianoetus mlcoch*

*Coproica acutangula* - *Xenanoetus kofrankova*

*C. lugubris* - *Myianoetus simplex*, *M. simunek*, *M. zdena*

*C. pallifrons* - *Myianoetus zdena*

*C. vagans* - *Myianoetus zdena*

*C. viripennis* - *Myianoetus rohaceki*

*Elachisoma aterrima* - *Myianoetus zdena*

*Gymnometopina kibokoensis* - *Xenanoetus kabrt*

*G. magna* - *Anoetus fetters*, *Syringanoetus vandenberghi*

*Ischiolepta pusilla* - *Capronomoia sphaerocerae*

*Limosina clunipes* - *Myianoetus virgatus*

*L. rufilabris* - *Myianoetus rohaceki*

*L. talparum* - *Glyphanoetus phyllotrichus*

*Lotobia pallidiventris* - *Myianoetus zdena*

*Lotophila atra* - *Myianoetus rohaceki*

*Metaborborus calcaratus* - *Anoetus fetters*

*Philocoprella quadrispina* - *Myianoetus zdena*

*Physiophora* sp. - *Capronomoia sphaerocerae*

*Pilocoprella quadrispina* - *Myianoetus mlcoch*

*Richardia* sp. - *Anoetus helena*, *Richardanoetus demel*

*Spelobia clunipes* - *Myianoetus virgatus*

*Sphaerocera curvipes* - *Capronomoia sphaerocerae*

*S. subsultans* - *Capronomoia sphaerocerae*

#### **Fam. Syrphidae**

*Mallota bautius* - *Hormosianoetus mallotae*

*M. posticata* - *Hormosianoetus mallotae*

#### **Fam. Tabanidae**

*Hybomitra affinis* - *Bonomoia* sp.

*H. epistates* - *Bonomoia* sp.

*H. illota* - *Bonomoia* sp.

*H. lasiophthalmus* - *Bonomoia* sp.

*H. nuda* - *Bonomoia* sp.

*Tabanus quinquestriatus* - *Bonomoia* sp.

### **Lepidoptera**

#### **Fam. Cossidae**

*Cossus cossus* - *Histiostoma cossi*, *H. dryocoeti*

*C. ligniperda* - *Histiostoma cossi*

#### **Fam. Hesperidae**

*Pelopides tridens* - *Scolianoetus javanus*

### **Pisces**

#### **Perciformes**

##### **Fam. Percichthyidae**

*Maccullochella peelii peelii* - *Histiostoma papillatum*

#### **Siluriformes**

##### **Fam. Pangasiidae**

*Pangasius sutchi* - *Histiostoma piscium*

#### **Anguilliformes**

##### **Fam. Anguillidae**

*Anguilla anguilla* - *Histiostoma anguillarum*

**Aves****Sphenisciformes****Fam. Spheniscidae**

*Eudyptula minor albosignata* – *Histiostoma mantelli*, *Myianoetus antipodus*

**Mammalia****Rodentia****Fam. Sciuridae**

*Spermophilus* [*Citellus*] *citellus* – *Myianoetus clavatus*

**Fam. Arvicolidae**

*Myodes* [*Clethrionomys*] *glareolus* – *Histiostoma sapromyzarum*

**Proboscidea****Fam. Elephantidae**

*Elephas maximus* – *Loxanoetus lenae*

*Loxodonta africana* – *Loxanoetus bassoni*, *Otanoetus wetzeli*

**Artiodactyla****Fam. Bovidae**

*Syncerus caffer* – *Auricanoetus longitarsus*, *Loxanoetus bassoni*, *Otanoetus wetzeli*

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## The Mite Family Guanolichidae Fain

Guanolichidae Fain, 1968: 199

Small family of four known species in Africa (Gabon) and America (Suriname, Panama and Mexico). These completely sclerotized mites live in the bat guano, some were found on bats (Noctilionidae, Natalidae).

### Composition of Guanolichidae

Family **Guanolichidae** Fain, 1968–3 gen., 4 sp.

*Guanolichoides* Fain, 1979–1 sp.

*Guanolichus* Fain, 1968–1 sp.

*Neoguanolichus* Fain, 1979–2 sp.

## Catalogue of Guanolichidae

Family **Guanolichidae** Fain

Guanolichidae Fain, 1968: 199

Type genus: *Guanolichus* Fain, 1968

Genus ***Guanolichooides*** Fain

*Guanolichooides* Fain, 1979: 117

Type species: *Guanolichooides lukoschusi* Fain, 1979

***Guanolichooides lukoschusi*** Fain

*Guanolichooides lukoschusi* Fain, 1979: 117

Type locality: Phedra

Distribution: Suriname

Host: *Noctilio labialis* (Chiroptera: Noctilionidae)

Genus ***Guanolichus*** Fain

*Guanolichus* Fain, 1968: 203

Type species: *Guanolichus gabonensis* Fain, 1968

***Guanolichus gabonensis*** Fain

*Guanolichus gabonensis* Fain, 1968: 203

Type locality: bat guano, cave Faucon, Belinga, Gabon

Distribution: Gabon

Substrate: bat guano

Genus ***Neoguanolichus*** Fain

*Neoguanolichus* Fain, 1979: 117 [Redescription, Fashing 1980: 109]

Type species: *Neoguanolichus mexicanus* Fain, 1979

***Neoguanolichus mexicanus*** Fain

*Neoguanolichus mexicanus* Fain, 1979: 118

Type locality: Durango

Distribution: Mexico

Substrate: from a bat, *Natalus stramineus ventanus* (Chiroptera: Natalidae)

***Neoguanolichus panamensis*** Fashing

*Neoguanolichus panamensis* Fashing, 1980: 109

Type locality: Cocolé 1 Cave, 0.8 mile North of Penonomé

Distribution: Panama

Substrate: bat guano



## Index of Guanolichidae

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

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*Guanolichus* 142

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*mexicanus*, *Neoguanolichus* 142

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## Distribution of Guanolichidae

### AFRICA

**Gabon** (Fain, 1968) - *Guanolichus gabonensis*

### NORTH AMERICA

**Mexico** (Fain, 1979) - *Neoguanolichus mexicanus*

### CENTRAL AMERICA

**Panama** (Fashing, 1980) - *Neoguanolichus panamensis*

### SOUTH AMERICA

**Suriname** (Fain, 1979) - *Guanolichooides lukoschusi*

## Hosts of Guanolichidae

### Chiroptera

#### Fam. Natalidae

*Natalus stramineus ventatus* - *Neoguanolichus mexicanus*

#### Fam. Noctilionidae

*Noctilio labialis* - *Guanolichooides lukoschusi*

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Fashing N.J. 1980. *Neoguanolichus panamensis*, a new species of Guanolichidae from bat caves in Panama (Acarina: Sarcoptiformes). - *Acarologia* (Paris), 1979, **21**(1): 108–116.

## The Mite Superfamily Canestrinioidea

Superfamily of four families (Canestriniidae, Chetochelacaridae, Lophonotacaridae and Heterocoptidae) of relatively large mites (113 genera, ca. 376 valid species) living as commensals or parasites on beetles (Coleoptera: Carabidae, Chrysomelidae, Elateridae, Scarabaeidae, Tenebrionidae, Passalidae and others), mostly under elytrae. One genus and species of Canestriniidae (*Diplopodoceptes transkeiensis*) and the mites of the families Chetochelacaridae and Lophonotacaridae are associated with Myriapods (Diplopoda).

## The Mite Family Canestriniidae

Canestriniidae Berlese, 1884

As early as 1878 G. Canestrini described “*Dermaleichus*” [now *Dicanestrinia*] *cerambycis*. The study of the Canestriniidae (as of many other groups of mites) starts with some papers of Berlese (1881, 1882, 1884, 1910, 1911, 1920), with descriptions of the genera *Canestrinia*, *Canestriniella*, *Coleopterophagus*, *Dicanestrinia* and *Percanestrinia* and of the family Canestriniidae. Oudemans (1904) described the important genus *Photia*.

Until the work of Cooreman (1950, 1955, 1958) and Lombardini (1950) have been described only five more genera (by Trägårdh, 1906, Banks, 1915, Lombardini, 1943, Turk, 1948) and 16 valid species. The publications of Cooreman, and especially the one of 1950, laid the base of the modern study of Canestriniidae (including nine new genera and several new species). In the period between 1950 and 1988 several other authors contributed to the study of these mites (Lavoipierre, Vomero, Fain, Nesbitt, Lindquist, Beron and others). Should be marked especially the results obtained by K. Samšínák (1963–1971) and Summers and Schuster (1979–1982). In the important paper of Samšínák (1971) have been described many new genera and new species from Carabidae. In five papers Summers and Schuster published the subfamily Melisiinae, 11 new genera and many new species. Until the beginning of the work of R. Haitlinger (1988, but including the paper of Fain, 1989) have been published 34 valid genera and 146 species of the family Canestriniidae.

From the 100 valid genera almost half (42) are monotypic.

In more than 450 papers since 1988 R. Haitlinger contributed most of all to the study of Canestriniidae. He described 53 of the 100 valid genera and 200 of the 348 valid species in the family (including the subfamily Vereoxiinae). The papers of Haitlinger deal with

material from more than 50 countries and changed the overall picture of the distribution and the list of hosts of these mites. Most of the new genera are so far monotypic.

Recently some newer authors joint the research efforts of Haitlinger. Kim et al. (2006) described the new genus *Haitlingeria*, Trach, Eidelberg and Khaustov contributed to the study of Canestriniids of Ukraine, including descriptions of four new genera.

## Composition of Canestriniidae

### Fam. Canestriniidae - 100 gen., 348 sp.

#### Subfam. Canestriniinae

- Acrotocarus* Banks, 1915–3 sp.
- Afrocanestrinia* Cooreman, 1955–3 sp.
- Albinorattia* Haitlinger, 1989–1 sp.
- Amansiella* Khaustov et Eidelberg, 2001–1 sp.
- Ambilohylla* Haitlinger, 1990–1 sp.
- Amboinophela* Haitlinger, 1993–1 sp.
- Anaspistes* Summers et Schuster, 1982–1 sp.
- Apalotacarus* Summers et Schuster, 1981–17 sp.
- Arraphosoma* Summers et Schuster, 1981–1 sp.
- Arrunsithiana* Haitlinger, 1992–10 sp.
- Athogavia* Haitlinger, 1989–7 sp.
- Aurilossongia* Haitlinger, 1989–6 sp.
- Averithiana* Haitlinger, 1999–1 sp.
- Barbiangia* Haitlinger, 1993–3 sp.
- Beeriphotia* Haitlinger, 1994–1 sp.
- Bibulothiana* Haitlinger, 1993–6 sp.
- Bircericola* Haitlinger, 2000–1 sp.
- Boetophela* Haitlinger, 1989–10 sp.
- Boleohylla* Haitlinger, 1991–2 sp.
- Camirohylla* Haitlinger, 1991–1 sp.
- Canestrinia* Berlese, 1881–17 sp.
- Canestriniella* Berlese, 1910–6 sp.
- Caraboecius* Cooreman, 1950–1 sp.
- Cetonicola* Cooreman, 1955–5 sp.
- Chelinochroa* Summers et Schuster, 1982–1 sp.
- Cnecoderma* Summers et Schuster, 1981–2 sp.
- Coleoglyphus* Berlese, 1910b - 2 sp.
- Coleopterophagus* Berlese, 1882–11 sp.
- Cooremania* Nesbitt, 1976–2 sp.
- Danaithiana* Haitlinger, 1991b - 4 sp.

- Dicanestrinia* Berlese, 1911–3 sp.  
*Diplognathophilus* Cooreman, 1955–1 sp.  
*Diplopodoceptes* Fain, 1987–1 sp.  
*Donnelaphontia* Lavoipierre, 1958–2 sp.  
*Dorynothiana* Haitlinger, 1999–2 sp.  
*Ennodithiana* Haitlinger, 1993–6 sp.  
*Eunorithiana* Haitlinger, 1999–2 sp.  
*Gasuthiana* Haitlinger, 1989–5 sp.  
*Gioharattia* Haitlinger, 1989–2 sp.  
*Globosphotia* Haitlinger, 1991–1 sp.  
*Grandiellina* Fain, 1989 (= *Grandiella* Lombardini, 1939 praeocc.) - 21 sp.  
*Grandiellopsis* Fain, 1989–7 sp.  
*Haitlingeria* Kim et al., 2006–1 sp.  
*Hargeinella* Haitlinger, 1989–1 sp.  
*Hatohylla* Haitlinger, 1990–4 sp.  
*Hyllosihemia* Haitlinger, 1994–1 sp.  
*Hypopteryx* Summers et Schuster, 198–1 sp.  
*Ibizella* Haitlinger et Šundić, 1918–3 sp.  
*Irmongia* Haitlinger, 1990b – 1 sp.  
*Jowitella* Haitlinger, 1990b – 1 sp.  
*Jullongia* Haitlinger, 1990b – 1 sp.  
*Kahoorangia* Haitlinger, 1991–1 sp.  
*Lidiophela* Haitlinger, 1990b – 7 sp.  
*Megacanestrinia* Trägårdh, 1906–2 sp.

Subfam. **Melisiinae**

- Contramelisia* Samšinák, 1969–1 sp.  
*Melisia* Lombardini, 1944–22 sp.  
*Mesophotia* Samšinák, 1971–1 sp.  
*Metriothiana* Haitlinger, 1999–1 sp.  
*Mossongia* Haitlinger, 1989–2 sp.  
*Neophotia* Samšinák, 1971–3 sp.  
*Noemiphela* Haitlinger, 1992–2 sp.  
*Oceogavia* Haitlinger, 1989–1 sp.  
*Olafithiana* Haitlinger, 1993–5 sp.  
*Olgattia* Haitlinger, 1990–1 sp.  
*Ovarrothiana* Haitlinger, 1993–6 sp.  
*Paracanestrinia* Haitlinger, 2017–1 sp.  
*Paramansia* Cooreman, 1950–3 sp.  
*Paramelisia* Summers et Schuster, 1982–1 sp.  
*Paraphagella* Cooreman, 1955–6 sp.  
*Paraphotia* Khaustov et Eidelberg, 2001–1 sp.

- Passalophagus* Nesbitt, 1976–1 sp.  
*Percanestrinia* Berlese, 1911–8 sp.  
*Percanestriniella* Khaustov et Eidelberg, 2001–4 sp.  
*Peruthiana* Haitlinger, 2008–1 sp.  
*Phaleratus* Nesbitt, 1976–2 sp.  
*Phelliculophela* Haitlinger, 1993–1 sp.  
*Photia* Oudemans, 1904–18 sp.  
*Phriknodora* Summers et Schuster, 1982–3 sp.  
*Procericola* Cooreman, 1950–2 sp.  
*Pseudamansia* Cooreman, 1950–2 sp.  
*Pseudocanestrinia* Khaustov et Eidelberg, 2001–5 sp.  
*Pseudoparaphagella* Haitlinger, 2010–1 sp.  
*Rugoniphela* Haitlinger, 1992–1 sp.  
*Sabothiana* Haitlinger, 1993–3 sp.  
*Sajanophela* Haitlinger, 1990–1 sp.  
*Sandrophela* Haitlinger, 1990–7 sp.  
*Saniothiana* Haitlinger, 1990–2 sp.  
*Scarabiphotia* Haitlinger, 1994–1 sp.  
*Shillongia* Haitlinger, 1990–1 sp.  
*Sorbinophela* Haitlinger, 1993–1 sp.  
*Tamarangia* Haitlinger, 1991–4 sp.  
*Tamarophela* Haitlinger, 1990–1 sp.  
*Taseopus* Summers et Schuster, 1982–1 sp.  
*Teklathiana* Haitlinger, 1999–3 sp.  
*Teophyssa* Haitlinger, 1990b – 3 sp.  
*Thopia* Summers et Schuster, 1982–6 sp.  
*Uriophela* Haitlinger, 1992–1 sp.  
*Vandeinella* Haitlinger, 1989–2 sp.

Subfam. **Vereoxiinae**

- Vereoxia* Haitlinger, 1995–1 sp.

## Catalogue of the Family Canestriniidae

Family **Canestriniidae** Berlese

Canestriniidae Berlese, 1884: 92

Type genus: *Canestrinia* Berlese, 1881

Subfamily **Canestriniinae** Berlese

Canestriniidae Berlese, 1884: 92

Type genus: *Canestrinia* Berlese, 1881

Genus **Acrotocarus** Banks

*Acrotocarus* Banks, 1915: 152

Type species: *Acrotocarus mirabilis* Banks, 1915

***Acrotocarus alutaceus*** (Turk)

*Amansia alutacea* Turk, 1948: 88

*Acrotocarus alutaceus* (Turk): Summers & Schuster 1979b: 480

Type locality: St. Augustine

Distribution: Trinidad

Host: *Physsonota alutacea* (Coleoptera: Chrysomelidae, Cassidinae)

***Acrotocarus crataepus*** (Summers et Schuster)

*Acrotocarus crataepus* Summers & Schuster, 1979b: 484

Type locality: unknown

Distribution: unknown

Host: *Physsonota dilata* (Coleoptera: Chrysomelidae, Cassidinae)

***Acrotocarus mirabilis*** Banks

*Acrotocarus mirabilis* Banks, 1915: 152; Summers & Schuster, 1979b: 476

Type locality: Cordoba (Mexico)

Distribution: Costa Rica, Guatemala, Mexico

Hosts: *Physsonota alutacea*, *Physsonota* sp. (Coleoptera: Chrysomelidae)

Genus **Afrocanestrinia** Cooreman

*Afrocanestrinia* Cooreman, 1955: 25

Type species: *Afrocanestrinia straeleni* Cooreman, 1955

***Afrocanestrinia rufinae*** Haitlinger

*Afrocanestrinia rufinae* Haitlinger, 1995a: 85

Type locality: Tanzania

Distribution: Tanzania

Host: *Smaragdesthes oertzeni* (Coleoptera: Scarabaeidae, Cetoniinae)

***Afrocanestrinia samsoni*** Haitlinger

*Afrocanestrinia samsoni* Haitlinger, 1995a: 87

Type locality: Senegal

Distribution: Senegal

Host: *Smaragdesthes africana* (Coleoptera: Scarabaeidae, Cetoniinae)

***Afrocanestrinia straeleni*** Cooreman

*Afrocanestrinia straeleni* Cooreman, 1955: 25; Haitlinger, 1995: 85

Type locality: May-ya-Moto, Rutshuru

Distribution: D.R. Congo

Hosts: *Smaragdesthes africana mutica*, *Dicronorhina micans* (Coleoptera: Scarabaeidae, Cetoniinae)

Genus ***Albinorattia*** Haitlinger

*Albinorattia* Haitlinger, 1989: 588

Type species: *Albinorattia igori* Haitlinger, 1989

***Albinorattia igori*** Haitlinger

*Albinorattia igori* Haitlinger, 1989: 588

Type locality: Batjan

Distribution: Indonesia

Host: *Ischipsophia olivacea* (Coleoptera: Sarabaeidae, Cetoniinae)

Genus ***Amansiella*** Khaustov et Eidelberg

*Amansiella* Khaustov & Eidelberg, 2001: 41

Type species: *Amansiella trilobata* Khaustov et Eidelberg, 2001

***Amansiella trilobata*** Khaustov et Eidelberg

*Amansiella trilobata* Khaustov & Eidelberg, 2001: 41; Trach, 2006: 176; Trach & Khaustov, 2007: 268

Type locality: Crimea, Yalta

Distribution: Crimea, Ukraine

Host: *Timarcha tenebricosa* (Coleoptera: Chrysomelidae)

Genus ***Ambilohylla*** Haitlinger

*Ambilohylla* Haitlinger, 1990: 316

Type species: *Ambilohylla* Haitlinger, 1993

***Ambilohylla favosa*** Haitlinger

*Ambilohylla favosa* Haitlinger, 1990: 316

Type locality: Madagascar

Distribution: Madagascar

Host: *Damatria formosus* (Coleoptera: Tenebrionidae)

Genus ***Amboinophela*** Haitlinger

*Amboinophela* Haitlinger, 1993: 339

Type species: *Amboinophela berna* Haitlinger, 1993

***Amboinophela berna*** Haitlinger

*Amboinophela berna* Haitlinger, 1993b: 340

Type locality: Moluccas, Amboina Is.

Distribution: Indonesia, New Guinea

Host: *Metapodonotus bison*, *M. cinctus* (Coleoptera: Lucanidae)

Genus ***Anaspistes*** Summers et Schuster

*Anaspistes* Summers & Schuster, 1982b: 43

Type species: *Anaspistes unguiculatus* Summers et Schuster, 1982

***Anaspistes unguiculatus*** Summers et Schuster

*Anaspistes unguiculatus* Summers & Schuster, 1982b: 43

Type locality: Kisarawe

Distribution: Tanzania

Host: *Sternotomis bohemanni* (Coleoptera: Cerambycidae)

Genus ***Apalotacarus*** Summers et Schuster

*Apalotacarus* Summers & Schuster, 1981a: 28

Type species: *Apalotacarus fusulus* Summers et Schuster, 1981

***Apalotacarus aristatus*** Summers et Schuster

*Apalotacarus aristatus* Summers & Schuster, 1981a: 28

Type locality: Mucha

Distribution: Taiwan, Indonesia (Java), India (Assam)

Host: *Aceraius grandis hirsutus* (Coleoptera: Passalidae)

***Apalotacarus cidaris*** Summers et Schuster

*Apalotacarus cidaris* Summers & Schuster, 1981a: 25

Type locality: Daru

Distribution: Papua New Guinea

Host: *Protomocoelus australis* (Coleoptera: Passalidae)

***Apalotacarus echinatus*** Summers et Schuster

*Apalotacarus echinatus* Summers & Schuster, 1981a: 33

Type locality: 12 mi.W of Munnar, S. India

Distribution: India

Host: *Pleurarius brachyphilus* (Coleoptera: Passalidae)

***Apalotacarus fulgens*** Summers et Schuster

*Apalotacarus fulgens* Summers & Schuster, 1981a: 31

Type locality: Batavia [Djakarta], Java

Distribution: Indonesia (Java)

Host: *Pelopides tridens* (Coleoptera: Passalidae)



***Apalotacarus fusticulus*** Summers et Schuster*Apalotacarus fusticulus* Summers & Schuster, 1981a: 31

Type locality: Ulong, NSW

Distribution: Australia (NSW)

Host: *Pharochilus nitidulus* (Coleoptera: Passalidae)***Apalotacarus fusulus*** Summers et Schuster*Apalotacarus fusulus* Summers & Schuster, 1981a: 20

Type locality: Finschhafen, Papua New Guinea

Distribution: Papua New Guinea, Philippines (Mindoro)

Host: *Labienux plox* (Coleoptera: Passalidae)***Apalotacarus glaber*** Summers et Schuster*Apalotacarus glaber* Summers & Schuster, 1981a: 25

Type locality: Russel Island

Distribution: Solomon Islands

Host: *Protomocoelus triumphator* (Coleoptera: Passalidae)***Apalotacarus gracilis*** Summers et Schuster*Apalotacarus gracilis* Summers & Schuster, 1981a: 33

Type locality: 40 mi. SE Walcha, Stop 418, NSW, Australia

Distribution: Australia

Host: Coleoptera (Passalidae)

***Apalotacarus luroris*** Summers et Schuster*Apalotacarus luroris* Summers & Schuster, 1981a: 33

Type locality: Ulong, NSW

Distribution: Australia (NSW, Queensland)

Hosts: *Mastochilus australasicus*, *M. quaestionis*, *Pharochilus dilatatus*, *Ph. nitidulus* (Coleoptera: Passalidae)***Apalotacarus paxillus*** Summers et Schuster*Apalotacarus paxillus* Summers & Schuster, 1981a: 21

Type locality: Wau, Morobe

Distribution: Papua New Guinea

Host: Coleoptera (Passalidae)

***Apalotacarus petilus*** Summers et Schuster*Apalotacarus petilus* Summers & Schuster, 1981a: 23

Type locality: Finschhafen

Distribution: Papua New Guinea, incl. Bougainville I.

Host: *Protomocoelus australis* (Coleoptera: Passalidae)

***Apalotacarus protensus*** Summers et Schuster

*Apalotacarus protensus* Summers & Schuster, 1981a: 28

Type locality: Kurseong, Darjeeling

Distribution: India

Host: *Macrolinus nicobaricus* (Coleoptera: Passalidae)

***Apalotacarus rigescens*** Summers et Schuster

*Apalotacarus rigescens* Summers & Schuster, 1981a: 26

Type locality: Wau, Morobe

Distribution: Papua New Guinea

Host: Coleoptera (Passalidae)

***Apalotacarus sajanae*** Haitlinger

*Apalotacarus sajanae* Haitlinger, 1990b: 536

Type locality: Java

Distribution: Indonesia (Java)

Host: *Eriocnemis tridens* (Coleoptera: Passalidae)

***Apalotacarus scaurus*** Summers et Schuster

*Apalotacarus scaurus* Summers & Schuster, 1981a: 30

Type locality: Kabasalan, Mindanao

Distribution: Philippines (Mindanao)

Host: *Macrolinus weberi* (Coleoptera: Passalidae)

***Apalotacarus scissus*** Summers et Schuster

*Apalotacarus scissus* Summers & Schuster, 1981a: 37

Type locality: Anomali Hills, Cinchona, S. India

Distribution: India

Host: *Plurarius brachyphyllus* (Coleoptera: Passalidae)

***Apalotacarus trullus*** Summers et Schuster

*Apalotacarus trullus* Summers & Schuster, 1981a: 23

Type locality: Hassensan

Distribution: Taiwan

Host: *Leptaulax bicolor formosanus* (Coleoptera: Passalidae)

Genus ***Arraphosoma*** Summers et Schuster

*Arraphosoma* Summers & Schuster, 1981b: 43

Type species: *Arraphosoma minax* Summers & Schuster, 1981

***Arraphosoma minax*** Summers et Schuster

*Arraphosoma minax* Summers & Schuster, 1981b: 44

Type locality: New Guinea  
 Distribution: New Guinea  
 Host: (Coleoptera: Passalidae)

***Arraphosoma paraminax*** Summers et Schuster  
*Arraphosoma paraminax* Summers & Schuster, 1981b: 44  
 Type locality: Mollucan Islands  
 Distribution: Indonesia  
 Host: *Labiens gigas* (Coleoptera: Passalidae)

Genus ***Arrunsithiana*** Haitlinger  
*Arrunsithiana* Haitlinger, 1991e: 392  
 Type species: *Arrunsithiana artemoni* Haitlinger, 1991

***Arrunsithiana arcuata*** (Fain)  
*Grandiella arcuata* Fain, 1987: 109  
*Grandiellina arcuata* (Fain): Fain, 1989: 67  
*Arrunsithiana arcuata* (Fain): Haitlinger, 1991e: 397  
 Type locality: Bahia, Santarem  
 Distribution: Brazil  
 Hosts: *Stolas decemguttata*, *S. esignata* (Coleoptera: Chrysomelidae)

***Arrunsithiana artemoni*** Haitlinger  
*Arrunsithiana artemoni* Haitlinger, 1991e: 393  
 Type locality: Ecuador  
 Distribution: Ecuador  
 Host: *Stolas latevittata* (Coleoptera: Chrysomelidae)

***Arrunsithiana battosi*** Haitlinger  
*Arrunsithiana battosi* Haitlinger, 1991e: 396  
 Type locality: Bolivia, Coroica  
 Distribution: Bolivia, Brazil, Colombia, Ecuador, Peru  
 Hosts: *Stolas pleurosticha*, *S. lenis*, *S. oblita*, *S. erichsoni*, *S. inexculpta*, *S. huanocensis*, *S. cruentata*, *S. scoparia*, *S. funebris*, *S. niobe*, *S. ignita*, *S. conspersa*, *S. gibbosa*, *S. paranensis*, *S. chalybaea* (Coleoptera: Chrysomelidae)

***Arrunsithiana erinnae*** Haitlinger  
*Arrunsithiana erinnae* Haitlinger, 1991e: 394  
 Type locality: Santa Inez  
 Distribution: Ecuador  
 Host: *Stolas pectinata* (Coleoptera: Chrysomelidae)

***Arrunsithiana esacaudata*** (Lombardini)

*Grandiella esacaudata* Lombardini, 1939: 118; 1950: 784; Summers & Schuster, 1979a: 335; Fain, 1987: 109

*Grandiellina esacaudata* (Lombardini): Fain, 1989: 67

*Arrunsithiana esacaudata* (Lombardini): Haitlinger, 1991e: 398

Type locality: Brazil

Distribution: Bolivia, Brazil, Costa Rica, French Guyana, Guatemala, Mexico

Hosts: *Omoplatea marginata* (Coleoptera: Cerambycidae), *Phaeneum* sp., *Stolas punicea* (Coleoptera: Chrysomelidae)

***Arrunsithiana ilosi*** Haitlinger

*Arrunsithiana ilosi* Haitlinger, 1991e: 395

Type locality: Bogota

Distribution: Colombia

Host: *Cyrtanota dissecta* (Coleoptera: Chrysomelidae)

***Arrunsithiana latipes*** (Fain)

*Grandiellina latipes* Fain, 1989: 67

*Arrunsithiana latipes* (Fain): Haitlinger, 1991e: 398

Type locality: South America

Distribution: South America

Host: *Stolas inaequalis* (Coleoptera: Chrysomelidae)

***Arrunsithiana quadrata*** (Fain)

*Grandiella quadrata* Fain, 1987: 106

*Grandiellina quadrata* (Fain): Fain, 1989: 67

*Arrunsithiana quadrata* (Fain): Haitlinger, 1991e: 397

Type locality: Brazil, Bolivia (Santa Cruz), Colombia (Muzo)

Distribution: Colombia, Bolivia, Brazil

Host: *Stolas aenea*, *S. indigacea*, *S. conspersa*, *S. chalybaea*, *S. funebris*, *Eugenysa columbiana* (Coleoptera: Chrysomelidae)

***Arrunsithiana spicantis*** (Summers et Schuster)

*Grandiella spicantis* Summers & Schuster, 1979a: 341; Fain, 1987: 94

*Grandiellina spicantis* (Summers et Schuster): Fain, 1989: 67

*Arrunsithiana spicantis* (Summers et Schuster): Haitlinger, 1991e: 397

Type locality: Santa Catarina

Distribution: Brazil

Hosts: *Canistra plagosa*, *Stolas chalybaea*, *S. conspersa* (Coleoptera: Chrysomelidae)

***Arrunsithiana squarrosa*** (Summers et Schuster)

*Grandiella squarrosa* Summers & Schuster, 1979a: 338; Fain, 1987: 94

*Grandiellina squarosa* (Summers et Schuster): Fain, 1989: 67  
*Arrunsithiana squarrosa* (Summers et Schuster): Haitlinger, 1991e: 398  
Type locality: Chanchamayo Valley  
Distribution: Peru, French Guiana  
Host: *Stolas* sp. (Coleoptera: Chrysomelidae)

Genus ***Athogavia*** Haitlinger  
*Athogavia* Haitlinger, 1989d: 337  
Type species: *Athogavia tanzanica* Haitlinger, 1989

***Athogavia arybbasi*** Haitlinger  
*Athogavia arybbasi* Haitlinger, 1989d: 592  
Type locality: Papua New Guinea  
Distribution: Papua New Guinea  
Host: Dynastinae (Coleoptera: Scarabaeidae)

***Athogavia assamica*** Haitlinger  
*Athogavia assamica* Haitlinger, 1989d: 348  
Type locality: Assam  
Distribution: India  
Host: *Trichogomphus nartolani* (Coleoptera: Scarabaeidae, Dynastinae)

***Athogavia borneoica*** Haitlinger  
*Athogavia borneoica* Haitlinger, 1989d: 346  
Type locality: Borneo  
Distribution: Borneo  
Host: *Oryctes rhinoceros* (Coleoptera: Scarabaeidae, Dynastinae)

***Athogavia gamana*** Haitlinger  
*Athogavia gamana* Haitlinger, 1989d: 342  
Type locality: Tanzania  
Distribution: Tanzania  
Host: *Oryctes monoceros* (Coleoptera: Scarabaeidae, Dynastinae)

***Athogavia nosiana*** Haitlinger  
*Athogavia nosiana* Haitlinger, 1989: 340  
Type locality: Madagascar  
Distribution: Madagascar  
Host: *Oryctes* (Coleoptera: Scarabaeidae, Dynastinae)

***Athogavia scagana*** Haitlinger  
*Athogavia scagana* Haitlinger, 1989d: 342

Type locality: Borneo

Distribution: Borneo

Host: *Oryctes* sp. (Coleoptera: Scarabaeidae, Dynastinae)

***Athogavia tanzanica*** Haitlinger

*Athogavia tanzanica* Haitlinger, 1989d: 338

Type locality: Tanzania

Distribution: Tanzania

Host: *Oryctes monoceros* (Coleoptera: Scarabeidae, Dynastinae)

Genus ***Aurilossongia*** Haitlinger

*Aurilossongia* Haitlinger, 1989a: 43

Type species: *Aurilossongia hoaria* Haitlinger, 1989

***Aurilossongia bolanica*** Haitlinger

*Aurilossongia bolanica* Haitlinger, 1989a: 47

Type locality: Bolan Mts.

Distribution: Papua New Guinea

Host: *Xylotrupes asperulus* (Coleoptera: Cerambycidae)

***Aurilossongia dioni*** Haitlinger

*Aurilossongia dioni* Haitlinger, 1989: 593

Type locality: Indonesia

Distribution: Indonesia

Host: *Chalcosoma atlas* (Coleoptera: Scarabaeidae, Dynastinae)

***Aurilossongia fileasi*** Haitlinger

*Aurilossongia fileasi* Haitlinger, 1989: 593

Type locality: Papua New Guinea

Distribution: Papua New Guinea

Host: Scarabaeidae, Dynastinae (Coleoptera)

***Aurilossongia gaurana*** Haitlinger

*Aurilossongia gaurana* Haitlinger, 1989a: 48

Type locality: New Britain, Rabaul

Distribution: Papua New Guinea

Host: ?*Xylotrupes* sp. (Coleoptera: Cerambycidae, Dynastinae)

***Aurilossongia hoaria*** Haitlinger

*Aurilossongia hoaria* Haitlinger, 1989a: 44

Type locality: Borneo (Kalimantan)

Distribution: Indonesia (Kalimantan)

Host: *Xylotrupes* sp. (Coleoptera: Cerambycidae, Dynastinae)

***Aurilossongia norae*** Haitlinger

*Aurilossongia norae* Haitlinger, 1989: 594

Type locality: Papua New Guinea

Distribution: Papua New Guinea

Host: *Dynastes gideon* (Coleoptera: Scarabaeidae, Dynastinae)

Genus ***Averithiana*** Haitlinger

*Averithiana* Haitlinger, 1999: 42

Type species: *Averithiana anoni* Haitlinger, 1999

***Averithiana anoni*** Haitlinger

*Averithiana anoni* Haitlinger, 1999: 42

Type locality: French Guyana

Distribution: French Guyana

Host: *Zatrephina lineata* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Barbiangia*** Haitlinger

*Barbiangia* Haitlinger, 1993a: 5

Type species: *Barbiangia alvari* Haitlinger, 1993

***Barbiangia alvari*** Haitlinger

*Barbiangia alvari* Haitlinger, 1993a: 6

Type locality: Zanzibar

Distribution: Tanzania (Zanzibar)

Host: undetermined Cetoniinae (Coleoptera: Scarabaeidae)

***Barbiangia elongata*** Khaustov

*Barbiangia elongata* Khaustov, 2006: 80

Type locality: Ethiopia

Distribution: Ethiopia

Host: *Diplognatha gagates* (Coleoptera: Scarabaeidae, Cetoniinae)

***Barbiangia ethiopica*** (Haitlinger)

*Diplognatophilus ethiopicus* Haitlinger, 1990: 321

*Barbiangia ethiopica* (Haitlinger): Haitlinger, 1993a: 7

Type locality: Ethiopia

Distribution: Ethiopia

Host: Scarabaeidae, Cetoniinae (Coleoptera)

Genus ***Beeriphotia*** Haitlinger

*Beeriphotia* Haitlinger, 1994a: 207

Type species: *Beeriphotia volkeri* Haitlinger, 1994

***Beeriphotia volkeri*** Haitlinger

*Beeriphotia volkeri* Haitlinger, 1994a: 207

Type locality: Guandong (Kanton)

Distribution: China

Host: *Carabus angulicollis antaeus* (Coleoptera: Carabidae)

Genus ***Bibulothiana*** Haitlinger

*Bibulothiana* Haitlinger, 1993e: 278

Type species: *Grandiella brevispinata* Summers et Schuster, 1979

***Bibulothiana albertae*** Haitlinger

*Bibulothiana albertae* Haitlinger, 1994: 82

Type locality: Turrialba

Distribution: Costa Rica

Host: *Chelymorpha comata* (Coleoptera: Chrysomelidae, Cassidinae)

***Bibulothiana brevispinata*** (Summers et Schuster)

*Grandiella brevispinata* Summers & Schuster, 1979: 346

*Bibulothiana brevispinata* (Summers et Schuster): Haitlinger, 1993e: 278

Type locality: 9 km N .El Cope, Panama

Distribution: Bolivia, Brazil, Colombia, Honduras, Panama

Hosts: *Stolas bifenestrata*, *S. bipustulata*, *S. coerulescens*, *S. ephippium*, *S. lineaticollis*, *S. plagiata* (Coleoptera: Chrysomelidae, Cassidinae)

***Bibulothiana cyriaki*** Haitlinger

*Bibulothiana cyriaki* Haitlinger, 1993e: 280

Type locality: Parana, Iguacu

Distribution: Brazil, Mexico

Hosts: *Chelymorpha infecta*, *Ch. nigricollis*, *Ch. vermiculata* (Coleoptera: Chrysomelidae, Cassidinae)

***Bibulothiana everittae*** Haitlinger

*Bibulothiana everittae* Haitlinger, 1993e: 281

Type locality: Santa Catarina (Brazil)

Distribution: Brazil, Peru

Hosts: *Chelymorpha inflata*, *Ch. rufoguttata* (Coleoptera: Chrysomelidae, Cassidinae)



***Bibulothiana oswaldi*** Haitlinger*Bibulothiana oswaldi* Haitlinger, 1993e: 279

Type locality: Bahia

Distribution: Brazil

Host: *Stolas plagicollis* (Coleoptera: Chrysomelidae, Cassidinae)***Bibulothiana vatia*** (Summers et Schuster)*Grandiella vatia* Summers & Schuster, 1979: 333*Bibulothiana vatia* (Summers et Schuster): Haitlinger 1993e: 281

Type locality: Lago, Catemaco, Vera Cruz

Distribution: Mexico

Host: *Cyrtonota tristigma* (Coleoptera: Chrysomelidae, Cassidinae)Genus ***Bircericola*** Haitlinger*Bircericola* Haitlinger, 2000: 69Type species: *Bircericola bertrami* Haitlinger, 2000***Bircericola bertrami*** Haitlinger*Bircericola bertrami* Haitlinger, 2000: 70

Type locality: Bir Bon Ragba, nr. Hammamet

Distribution: Tunisia

Host: undetermined small Tenebrionidae (Coleoptera)

Genus ***Boetophela*** Haitlinger*Boetophela* Haitlinger, 1989: 589Type species: *Boetophela ginae* Haitlinger, 1989***Boetophela cassandrae*** Haitlinger et Chmielewski*Boetophela cassandrae* Haitlinger & Chmielewski, 2004: 196

Type locality: Durban

Distribution: South Africa

Host: undetermined Cetoniinae (Coleoptera: Scarabeidae)

***Boetophela erhardi*** Haitlinger*Boetophela erhardi* Haitlinger, 1991d: 304

Type locality: Nyangassy

Distribution: Cameroon

Host: *Mecynorrhina* [*Chelorrhina*] *savagei* (Coleoptera: Scarabeidae, Cetoniinae)***Boetophela ephraimi*** Haitlinger*Boetophela ephraimi* Haitlinger, 1993: 12

Type locality: Ashanti

Distribution: Ghana

Host: undetermined Cetoniinae (Coleoptera: Scarabaeidae)

***Boetophela ginae*** Haitlinger

*Boetophela ginae* Haitlinger, 1989: 591; 1993: 10

Type locality: Natal, Transvaal [described ex errore from Sumatra, *Batocera rubus*, Cerambycidae, corrected by Haitlinger, 1993a]

Distribution: Republic of South Africa

Host: *Eudicella smithi* (Coleoptera: Scarabaeidae, Cetoniinae)

***Boetophela robertsoni*** (Lavoipierre)

*Cetonicola robertsoni* Lavoipierre, 1958: 616

*Boetophela robertsoni*: Haitlinger, 1993: 14

Type locality: Tanzania

Distribution: Tanzania

Host: *Dicronorhina oberthuri* (Coleoptera: Scarabaeidae, Cetoniinae)

***Boetophela silvanae*** Haitlinger

*Boetophela silvanae* Haitlinger, 1991d: 303

Type locality: Tanzania

Distribution: Tanzania

Host: *Geynodonta laeviplaga* (Coleoptera: Scarabaeidae, Cetoniinae)

***Boetophela sybillae*** Haitlinger

*Boetophela sybillae* Haitlinger, 1991d: 299

Type locality: "surroundings of Nyassa lake"

Distribution: Tanzania

Host: *Goliathus alborignathus* (Coleoptera: Scarabaeidae, Cetoniinae)

***Boetophela symeoni*** Haitlinger

*Boetophela symeoni* Haitlinger, 1991d: 300

Type locality: probably Tanzania

Distribution: probably Tanzania

Host: *Elasocheilon heterospila* (Coleoptera: Scarabaeidae, Cetoniinae)

***Boetophela weneri*** Haitlinger

*Boetophela weneri* Haitlinger, 1993a: 14

Type locality: Bujumbura

Distribution: Burundi

Host: *Plaesiorrhina mhondana* (Coleoptera: Scarabaeidae, Cetoniinae)

Genus ***Boleohylla*** Haitlinger*Boleohylla* Haitlinger, 1991a: 274Type species: *Boleohylla kiogana* Haitlinger, 1991***Boleohylla garrica*** Haitlinger*Boleohylla garrica* Haitlinger, 1991a: 276

Type locality: Ghana

Distribution: Ghana

Host: *Metallonotus metallicus* (Coleoptera: Tenebrionidae)***Boleohylla kiogana*** Haitlinger*Boleohylla kiogana* Haitlinger, 1991a: 274

Type locality: nr. Lake Kiega

Distribution: Uganda

Host: *Psammodes carbonarius* (Coleoptera: Tenebrionidae)Genus ***Camirohylla*** Haitlinger*Camirohylla* Haitlinger, 1991a: 273Type species: *Camirohylla feziana* Haitlinger, 1991***Camirohylla feziana*** Haitlinger*Camirohylla feziana* Haitlinger, 1991a: 274; 2001: 25

Type locality: Morocco

Distribution: Morocco, Spain (Ibiza, Formentera)

Host: *Blaps appendiculata* (Coleoptera: Tenebrionidae)***Camirohylla* sp.**

Type locality: Alashtar, Lorestan Province

Distribution: Iran

Host: *Dila* sp. (Coleoptera: Tenebrionidae)Genus ***Canestrinia*** Berlese*Canestrinia* Berlese, 1881: 747Type species: *Canestrinia dorcicola* Berlese, 1881***Canestrinia carabicola*** (Berlese)*Coleopterophagus carabicola* Berlese, 1882: 10*Canestrinia* (*Percanestrinia*) *sardica* Vitzthum, 1924: 41*Percanestrinia carabicola*: Samšinak, 1965:*Canestrinia carabicola*: Samšinak, 1971: 176

Type locality: Italy

Distribution: Italy (incl. Sardinia and Sicily), Corsica, Tunisia  
Host: *Carabus (Macrothorax) morbillosus* (Coleoptera: Carabidae)

***Canestrinia damiani*** Haitlinger

*Canestrinia damiani* Haitlinger, 1989: 353

Type locality: Hungary

Distribution: Hungary, Ukraine, Crimea

Host: *Pentodon idiota* (Coleoptera)

***Canestrinia dorcicola*** Berlese

*Canestrinia dorcicola* Berlese, 1881: 748; Canestrini, 1897: 910; Canestrini & Kramer, 1899: 22; Leonardi, 1900: 15; Buitendijk, 1945: 364; Turk, 1953: 82; Cooreman, 1954: 86; Haitlinger, 1988a; 2004: 13; 2012: 186; Khaustov & Edelberg, 2001: 40; Trach, 2006: 176

Type locality: Italy

Distribution: Great Britain, Holland, Italy, Poland, Ukraine, Crimea

Hosts: *Oxythyrea funesta* (Coleoptera: Scarabaeidae, Cetoniinae), *Dorcus parallelipedus* (Coleoptera: Lucanidae)

***Canestrinia hispanica*** Samšínák

*Canestrinia hispanica* Samšínák, 1971: 173

Type locality: "Hispania"

Distribution: Morocco, Portugal, Spain

Hosts: *Carabus (Rhabdotocarabus) melancholicus*, *C. (Ctenocarabus) galicianus*, *C. (Oreocarabus) guadarramus* (Coleoptera: Carabidae).

***Canestrinia illegalis*** Samšínák

*Canestrinia illegalis* Samšínák, 1971: 162

Type locality: Hualien (Taiwan)

Distribution: Taiwan

Hosts: *Carabus (Coptolabrus) hankotaizanus*, *C. (Coptolabrus) longipennis mandarinus* (Coleoptera: Carabidae)

***Canestrinia kacperi*** Haitlinger

*Canestrinia kacperi* Haitlinger, 1998: 3

Type locality: Guanzhou

Distribution: China

Host: *Carabus subformosus* (Coleoptera: Carabidae)

***Canestrinia kamelskyi*** Samšínák

*Canestrinia kamelskyi* Samšínák, 1970: 75

Type locality: Tunisia

Distribution: Tunisia

Host: *Blaps* sp. (Coleoptera: Tenebrionidae)

***Canestrinia macgillavryi*** Oudemans

*Canestrinia macgillavryi* Oudemans, 1923: 204; Cooreman, 1954: 86

Type locality: Soember Pakel Station, Dampit, Probolinggo

Distribution: Indonesia (Java) ***Canestrinia manicata*** Berlese

*Canestrinia manicata* Berlese, 1910: 269

Type locality: Brazil

Distribution: Brazil

Host: *Doryphora tessellata* (Coleoptera: Chrysomelidae)

***Canestrinia microdisca*** Berlese

*Canestrinia microdisca* Berlese, 1910: 269

Type locality: Java

Distribution: Indonesia

Host: *Dorcus saiga* (Coleoptera: Lucanidae)

***Canestrinia nepalensis*** Berlese

*Canestrinia nepalensis* Berlese, 1910: 269

Type locality: Java

Distribution: Indonesia

Host: *Dorcus nepalensis* (Coleoptera: Lucanidae)

***Canestrinia paavoi*** Haitlinger

*Canestrinia paavoi* Haitlinger, 1994a: 208

Type locality: South China, Tschekiang (= Zhejiangsheng)

Distribution: China

Host: *Carabus grandis* (Coleoptera: Carabidae)

***Canestrinia pekingensis*** Samšínák

*Canestrinia pekingensis* Samšínák, 1971: 164

Type locality: Pekin

Distribution: China

Hosts: *Carabus (Acathaicus) brandti*, *C. (Cychrostomus) anchocephalus* (Tibet, 3200 m), *C. (Eupachys) glyptopterus*, *C. (Coptolabus) lafossei saturatus*, *C. augustus*, *C. augustus ignigena*, *C. pustulifer*, *C. pustulifer pratti*, *C. p. querryi*, *C. p. szechwanensis*, *C. ignimetalla angusticollis*, *C. gemmifer* (Coleoptera: Carabidae)

***Canestrinia pentodontis*** Berlese

*Canestrinia doricola* var. *pentodontis* Berlese, 1897:

*Canestrinia pentodontis* Berlese: Vitzthum, 1925: 47

Type locality: Italy

Distribution: Italy, Sicily

Host: *Pentodon* (Coleoptera: Scarabaeidae, Dynastinae)

***Canestrinia pictura*** Samšínák

*Canestrinia pictura* Samšínák, 1971: 171

Type locality: Mt Kurama near Kyoto

Distribution: Japan

Host: *Carabus (Damaster) blaptoides* (Coleoptera: Carabidae)

***Canestrinia ramoni*** Haitlinger

*Canestrinia ramoni* Haitlinger, 1994a: 212

Type locality: South China, Fukien (= Fujiansheng)

Distribution: China

Host: *Carabus coelestis giganteus* (Coleoptera: Carabidae)

***Canestrinia remigans*** Berlese

*Canestrinia remigans* Berlese, 1910: 387

Type locality: Africa

Distribution: Africa

Genus ***Canestriniella*** Berlese

*Canestriniella* Berlese, 1910: 270

Type species: *Canestriniella amplexans* Berlese, 1910

***Canestriniella amplexans*** Berlese

*Canestriniella amplexans* Berlese, 1910: 270

Type locality: "Batavia" (Jakarta)

Distribution: Indonesia (Java)

Host: *Batocera hector* (Coleoptera: Cerambycidae)

***Canestriniella batocerae*** (Vishnupriya et Mohanasundaram)

*Grandiella batocerae* Vishnupriya & Mohanasundaram, 1988: 253

*Grandiellina batocerae* (Vishnupriya et Mohanasundaram): Fain, 1989: 67

Type locality: Tamil Nadu

Distribution: India

Host: *Batocera rufomaculata* (Coleoptera: Cerambycidae, Lamiinae)

***Canestriniella elae*** Haitlinger*Canestriniella elae* Haitlinger, 1989: 599

Type locality: Sumatra

Distribution: Indonesia

Host: *Batocera ferruginea* (Coleoptera: Cerambycidae)***Canestriniella phoebinae*** Haitlinger*Canestriniella phoebinae* Haitlinger, 1995a: 89

Type locality: Java

Distribution: Indonesia

Host: *Batocera albofasciata octomaculata* (Coleoptera: Cerambycidae)***Canestriniella physsana*** Haitlinger*Canestriniella physsana* Haitlinger, 1989: 596

Type locality: Java

Distribution: Indonesia (Java, Sulawesi)

Hosts: *Batocera celebiana*, *B. humilidens* (Coleoptera: Cerambycidae)***Canestriniella togata*** Berlese*Canestriniella togata* Berlese, 1910: 270

Type locality: Java

Distribution: Indonesia (Java)

Host: *Batocera lunulata* (Coleoptera: Cerambycidae)Genus ***Caraboecius*** Cooreman*Caraboecius* Cooreman, 1950: 18Type species: *Caraboecius coriacei* Cooreman, 1950***Caraboecius coriacei*** Cooreman*Caraboecius coriacei* Cooreman, 1950: 19

Type locality: Tangelanga

Distribution: Belgium

Host: *Carabus (Procrustes) coriaceus* (Coleoptera: Carabidae)Genus ***Cetonicola*** Cooreman*Cetonicola* Cooreman, 1955: 15Type species: *Cetonicola hispidus* Cooreman, 1955***Cetonicola hispidus*** Cooreman*Cetonicola hispidus* Cooreman, 1955: 16

Type locality: May-ya-Moto (Riv. Rutshuru)

Distribution: D.R. Congo

Hosts: *Dicronorrhina micans*, *Smaragdesthes africana mutica*, *Eudicella gralli* var. *meckowi*  
(Coleoptera: Scarabaeidae, Cetoniinae)

***Cetonicola isadorae*** Haitlinger

*Cetonicola isadorae* Haitlinger, 1991d: 296

Type locality: Nyangassy

Distribution: Cameroon

Host: *Mecynorrhina* [*Chelorrhina*] *savagei* (Coleoptera: Scarabaeidae, Cetoniinae)

***Cetonicola maritae*** Haitlinger

*Cetonicola maritae* Haitlinger, 1992d: 297

Type locality: Distr. Kassai

Distribution: Congo-Brazzaville

Host: *Stephanorrhina guttata* (Coleoptera: Scarabaeidae, Cetoniinae)

***Cetonicola orestesi*** Haitlinger

*Cetonicola orestesi* Haitlinger, 1992d: 294

Type locality: Liberia

Distribution: Ghana, Liberia

Host: *Tmesorrhina iris* (Coleoptera: Scarabaeidae, Cetoniinae)

***Cetonicola vatus*** Haitlinger

*Cetonicola vatus* Haitlinger, 1990 : 323

Type locality: Tanzania

Distribution: Tanzania

Host: *Poecilophila hebraea* (Coleoptera: Scarabaeidae, Cetoniinae)

Genus ***Chelinochroa*** Summers et Schuster

*Chelinochroa* Summers & Schuster, 1982b: 41

Type species: *Chelinochroa dictyophora* Summers et Schuster, 1982

***Chelinochroa dictyophora*** Summers et Schuster

*Chelinochroa dictyophora* Summers & Schuster, 1982b: 41

Type locality: Wajir

Distribution: Kenya

Host: Coleoptera: Cerambycidae

Genus ***Cnecoderma*** Summers et Schuster

*Cnecoderma* Summers & Schuster, 1981b: 39

Type species: *Cnecoderma ovalis* Summers et Schuster, 1981



***Cnecoderma dolichopoda*** Summers et Schuster*Cnecoderma dolichopoda* Summers & Schuster, 1981b: 41

Type locality: Queensland

Distribution: Australia

Host: Passalidae (Coleoptera)

***Cnecoderma ovalis*** Summers et Schuster*Cnecoderma ovalis* Summers & Schuster, 1981b: 39

Type locality: Australia

Distribution: Australia

Host: (Coleoptera: Passalidae)

Genus ***Coleogyphus*** Berlese*Coleogyphus* Berlese, 1910: 268Type species: *Coleogyphus fuscipes* Berlese, 1910***Coleoglyphus fuscipes*** Berlese*Coleoglyphus fuscipes* Berlese, 1910: 268

Type locality: Africa

Distribution: Africa

Hosts: *Tefflus "megerlei"* (Coleoptera: Carabidae). Nymph on *Copris hamadryas* (Coleoptera: Scarabaeidae)***Coleoglyphus simplex*** Berlese*Coleoglyphus* (?) *simplex* Berlese, 1910b: 387

Type locality: Ecuador

Distribution: "Equatore" (Ecuador)

Host: *Mitrocephala humboldti* ()Genus ***Coleopterophagus*** Berlese*Coleopterophagus* Berlese, 1882: 9Type species: *Dermoglyphus megninii* Berlese, 1881***Coleopterophagus albini*** Haitlinger*Coleopterophagus albini* Haitlinger, 1990d: 328; 2002: 69; 2012: 187; 2015: 239; Trach & Khaustov, 2011: 223

Type locality: Zaborze n. Polczyn Zdroj (Poland)

Distribution: Austria, Czech Rep., Estonia, Germany, Norway, Poland, Romania, Slovakia, Ukraine

Hosts: *Protaetia* (*Cetonischema*) [*Potosia*] *aeruginosa*, *P. (Liocola) marmorata*, *P. metallica* (Coleoptera: Scarabaeidae, Cetoniinae)

***Coleopterophagus baali*** Haitlinger

*Coleopterophagus baali* Haitlinger, 1990d: 330

Type locality: North Iran, Elburs Mts.

Distribution: Iran

Host: *Potosia speciosa* (Coleoptera: Scarabaeidae, Cetoniinae)

***Coleopterophagus belzebubi*** Haitlinger

*Coleopterophagus belzebubi* Haitlinger, 1990d: 332

Type locality: Taihorim

Distribution: Taiwan

Host: *Potosia aerata* (Coleoptera: Scarabaeidae, Cetoniinae)

***Coleopterophagus blattophagus*** (Banks)

*Canestrinia blattophaga* Banks, 1914: 61

*Coleopterophagus blattophagus* (Banks): Vitzthum, 1925: 48

Type locality: Panama

Distribution: Panama

***Coleopterophagus dionizyi*** Haitlinger

*Coleopterophagus dionizyi* Haitlinger, 1990d: 330

Type locality: Syria

Distribution: Syria

Host: *Potosia cuprea* (Coleoptera: Scarabaeidae, Cetoniinae)

***Coleopterophagus donaldi*** Haitlinger

*Coleopterophagus donaldi* Haitlinger, 1990d: 332; Trach & Khaustov, 2011: 223

Type locality: Bolzano (Italy)

Distribution: Italy, Ukraine

Host: *Protaetia (Eupotosia) [Potosia] affinis* (Coleoptera: Scarabaeidae, Cetoniinae)

***Coleopterophagus maroni*** Haitlinger

*Coleopterophagus maroni* Haitlinger, 1990d: 336; Trach & Khaustov, 2011: 220

Type locality: Syria

Distribution: Romania, Syria, Ukraine

Hosts: *Protaetia (Cetonischema) [Potosia] aeruginosa*, *P. speciosa jousselini* (Coleoptera: Scarabaeidae, Cetoniinae)

***Coleopterophagus megnini*** (Berlese)

*Dermoglyphus megnini* Berlese, 1881: 750

*Dermoglyphus megninii* Berlese: Radford, 1950: 161

*Coleopterophagus megninii* (Berlese): Berlese, 1882: A.M.S., fasc. I, No 9; Turk, 1953: 82; Oudemans, 1923 : 205; 1937: 2155; Buitendijk, 1945: 364; Haitlinger, 1988d: 535; 2002: 69; 2012: 186

*Coleopterophagus megnini* (Berlese): Trach & Khaustov, 2011: 214; Haitlinger, 2012: 186

*Coleopterophagus cetoniae* Oudemans, 1923; Buitendijk, 1945: 264; Cooreman, 1954: 85

Type locality: Italy

Distribution: Croatia, Czech Rep., Great Britain, Holland, Hungary, Italy, Sicily, Poland, Serbia, Turkey, Ukraine

Hosts: *Cetonia aurata*, *Protaetia* (*Potosia*) *cuprina*, *Protaetia* (*Potosia*) *fieberi*, *Protaetia* (*Potosia*) *metallica*, *Protaetia cuprea cuprea*, *P. cuprea ignicollis*, *P. cuprea obscura*, *Protaetia* (*Eupotosia*) *affinis* (Coleoptera: Scarabaeidae, Cetoniinae)

### ***Coleopterophagus neglectus* Berlese**

*Coleopterophagus neglectus* Berlese, 1920: 147

Type locality: Africa

Distribution: Africa

Host: "*Scarabeus*" *centaurus* (Coleoptera: Scarabaeidae)

### ***Coleopterophagus pulcher* Cooreman**

*Coleopterophagus pulcher* Cooreman, 1955: 23

Type locality: Rutshuru

Distribution: D.R. Congo

Host: *Porphyronota cinnamonea* (Coleoptera: Scarabaeidae, Cetoniinae)

### ***Coleopterophagus quadrisetosus* Trägårdh**

*Coleopterophagus quadrisetosus* Trägårdh, 1904: 113

Type locality: Gebelein

Distribution: Sudan

Host: Coleoptera (Scarabaeidae, Cetoniinae)

### ***Coleopterophagus rudolfi* Haitlinger**

*Coleopterophagus rudolfi* Haitlinger, 1990d: 334

Type locality: China

Distribution: China

Host: *Potosia brevitarsis* (Coleoptera: Scarabaeidae, Cetoniinae)

### Genus ***Cooremania* Nesbitt**

*Cooremania* Nesbitt, 1976: 227

Type species: *Cooremania wauensis* Nesbitt, 1976

***Cooremania kietaensis*** Haitlinger et Šundić

*Cooremania kietaensis* Haitlinger & Šundić, 2020: 155

Type locality: Kieta

Distribution: Papua New Guinea

Host: Coleoptera (Lucanidae indet.)

***Cooremania wauensis*** Nesbitt

*Cooremania wauensis* Nesbitt, 1976: 227

Type locality: Wau, Njau

Distribution: Papua New Guinea

Host: *Eurytrachus arfakianus* (Coleoptera: Lucanidae)

Genus ***Danaithiana*** Haitlinger

*Danaithiana* Haitlinger, 1991b: 253

Type species: *Danaithiana chanchamayoica* Haitlinger, 1991

***Danaithiana archidonaica*** Haitlinger

*Danaithiana archidonaica* Haitlinger, 1991b: 257

Type locality: Archidona (Ecuador)

Distribution: Colombia, Ecuador

Host: *Semiotus furcatus* (Coleoptera: Elateridae)

***Danaithiana ayraica*** Haitlinger

*Danaithiana ayraica* Haitlinger, 1991b: 254

Type locality: Laguayra (Ecuador)

Distribution: Colombia, Ecuador

Host: *Semiotus virgatus* (Coleoptera: Elateridae)

***Danaithiana chanchamayoica*** Haitlinger

*Danaithiana chanchamayoica* Haitlinger, 1991b: 254

Type locality: Chanchamayo (Peru)

Distribution: Costa Rica, Cuba, Peru

Host: *Semiotus imperialis* (Coleoptera: Elateridae)

***Danaithiana ecuadorica*** Haitlinger

*Danaithiana ecuadorica* Haitlinger, 1991b: 257

Type locality: Archidona

Distribution: Ecuador

Host: *Semiotus furcatus* (Coleoptera: Elateridae)

Genus ***Dicanestrinia*** Berlese*Dicanestrinia* Berlese, 1911: 184Type species: *Dermaleichus cerambycis* G.Canestrini, 1878***Dicanestrinia cerambycis*** (G. Canestrini)*Dermaleichus cerambycis* G. Canestrini, 1878: 69*Canestrinia* (*Dicanestrinia*) *cerambicis* [sic]: Berlese, 1911: 184

Type locality: Italy

Distribution: Italy

Host: *Cerambyx cerdo* (Coleoptera: Cerambycidae)***Dicanestrinia huberti*** Haitlinger*Dicanestrinia huberti* Haitlinger, 1994: 200; 2012: 186; Khaustov & Edelberg, 2001: 40

Type locality: Bystre n. Baligród (Bieszczady Mountains – voi. Krosno)(Poland)

Distribution: Byelorussia, Poland

Host: *Carabus variolosus* (Coleoptera: Carabidae)***Dicanestrinia knobi*** Samšínák*Dicanestrinia knobi* Samšínák, 1971: 177; Haitlinger, 1988a: 535; 2012: 186; Trach, 2006: 175

Type locality: Carpathia, Užok (Ukraine)

Distribution: Czech Rep., Bosnia and Herzegovina, Italy, Poland, Ukraine

Host: *Carabus variolosus*, *C.v. nodulosus* (Coleoptera: Carabidae)Genus ***Diplognathophilus*** Cooreman*Diplognathophilus* Cooreman, 1955: 14Type species: *Diplognathophilus africanus* Cooreman, 1955 (56?)***Diplognathophilus africanus*** Cooreman*Diplognathophilus africanus* Cooreman, 1955: 14

Type locality: Ndeko (Katanda)

Distribution: D.R. Congo

Host: *Rhabdotis sobrina* (Coleoptera: Scarabaeidae, Cetoniinae)Genus ***Diplopodocoptes*** Fain*Diplopodocoptes* Fain, 1987: 167Type species: *Diplopodocoptes transkeiensis* Fain, 1987***Diplopodocoptes transkeiensis*** Fain*Diplopodocoptes transkeiensis* Fain, 1987: 168

Type locality: Transkei, District Lusikisiki, Mouth of Riv. Mzimhlava

Distribution: Kenya, South Africa

Hosts: millipede (Diplopoda: Glomeridae); paratypes from Odontopygidae (Diplopoda) from Kenya

Genus ***Donnelaphontia*** Lavoipierre

*Donnelaphontia* Lavoipierre, 1959: 611

*Farahanella* Haitlinger, 1990: 314; [Type is *suatoha*; Syn. Haitlinger 2001: 104]

Type species: *Donnelaphontia calostegis* Lavoipierre, 1959

***Donnelaphontia calostegis*** Lavoipierre

*Donnelaphontia calostegis* Lavoipierre, 1959: 611

Type locality: Kumba

Distribution: Cameroon

Host: *Calostega crassicornis* (Coleoptera: Tenebrionidae)

***Donnelaphontia suatoha*** (Haitlinger)

*Farahanella suatoha*: Haitlinger, 1990: 315

*Donnelaphontia suatoha*: Haitlinger, 2001: 104

Type locality: "Zaire"

Distribution: DR Congo

Host: *Odontopezus cupreus* (Coleoptera: Tenebrionidae)

Genus ***Dorynothiana*** Haitlinger

*Dorynothiana* Haitlinger, 1999: 43

Type species: *Dorynothiana jurandi* Haitlinger, 1999

***Dorynothiana delmari*** Haitlinger

*Dorynothiana delmari* Haitlinger, 2008: 66

Type locality: Brazil

Distribution: Brazil

Host: *Dorynota* sp. (Coleoptera: Chrysomelidae, Cassidinae)

***Dorynothiana jurandi*** Haitlinger

*Dorynothiana jurandi* Haitlinger, 1999: 44

Type locality: Santa Catarina

Distribution: Brazil

Host: *Dorynota pugionata* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Ennodithiana*** Haitlinger

*Ennodithiana* Haitlinger, 1993d: 66

Type species: *Ennodithiana messalinae* Haitlinger, 1993

***Ennodithiana maniusi*** Haitlinger

*Ennodithiana maniusi* Haitlinger, 1993d: 68

Type locality: Brazil, Parana

Distribution: Brazil, Mexico

Hosts: *Omaspides basilica*, *Psalidonota contemta*, *P. dorsoplagiata* (Coleoptera: Chrysomelidae, Cassidinae)

***Ennodithiana medoni*** Haitlinger

*Ennodithiana medoni* Haitlinger, 1993d: 71

Type locality: Brazil

Distribution: Brazil

Host: *Acromis spinifex* (Coleoptera: Chrysomelidae, Cassidinae)

***Ennodithiana megesi*** Haitlinger

*Ennodithiana megesi* Haitlinger, 1993d: 71

Type locality: Goyaz

Distribution: Brazil

Host: *Crambelea illuderis* (Coleoptera: Chrysomelidae, Cassidinae)

***Ennodithiana messalinae*** Haitlinger

*Ennodithiana messalinae* Haitlinger, 1993d: 66

Type locality: San Carlos

Distribution: Costa Rica, Cuba

Hosts: *Psalidonota dorsopunctata*, *P. leprosa* (Coleoptera: Chrysomelidae, Cassidinae)

***Ennodithiana penelopae*** Haitlinger

*Ennodithiana penelopae* Haitlinger, 1993: 68

Type locality: Paramaribo (Suriname)

Distribution: Brazil, Suriname

Host: *Acromis nebulosa* (Coleoptera: Chrysomelidae, Cassidinae)

***Ennodithiana platysma*** (Summers et Schuster)

*Grandiella platysma* Summers & Schuster, 1979: 335

*Ennodithiana platysma* (Summers & Schuster): Haitlinger, 1993d: 73

Type locality: Barro Colorado Isl.

Distribution: Panama

Host: *Coptocycla* sp. (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Eunorithiana*** Haitlinger

*Eunorithiana* Haitlinger, 1999: 46

Type species: *Eunorithiana aidae* Haitlinger, 1999

***Eunorithiana aida*** Haitlinger

*Eunorithiana aida* Haitlinger, 1999: 47; 2001: 103

Type locality: Rio Cantino

Distribution: Colombia

Host: *Plagiometriona phoebe* (Coleoptera: Chrysomelidae, Cassidinae)

***Eunorithiana heliodori*** Haitlinger

*Eunorithiana heliodori* Haitlinger, 1999: 49

Type locality: Santa Cruz, Santa Catarina

Distribution: Brazil

Host: *Plagiometriona ludiera*, *P. punctipennis* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Gasuthiana*** Haitlinger

*Gasuthiana* Haitlinger, 1989: 281

Type species: *Gasuthiana abapoica* Haitlinger, 1989

***Gasuthiana abapoica*** Haitlinger

*Gasuthiana abapoica* Haitlinger, 1989: 282

Type locality: Brazil

Distribution: Brazil

Host: *Alurnus elysianus* (Coleoptera: Chrysomelidae, Hispinae)

***Gasuthiana abufarica*** Haitlinger

*Gasuthiana abufarica* Haitlinger, 1989: 287

Type locality: Bolivia

Distribution: Bolivia

Host: *Meristomala nigripes* (Coleoptera: Chrysomelidae, Hispinae)

***Gasuthiana coarica*** Haitlinger

*Gasuthiana coarica* Haitlinger, 1989: 289

Type locality: Brazil

Distribution: Brazil

Host: *Mecistomala marginatus* (Coleoptera: Chrysomelidae, Hispinae)

***Gasuthiana melillae*** Haitlinger

*Gasuthiana melillae* Haitlinger, 1995a: 83

Type locality: Brazil

Distribution: Brazil

Host: Tenebrionidae indet. (Coleoptera)

***Gasuthiana olareica*** Haitlinger

*Gasuthiana olareica* Haitlinger, 1989: 284



Type locality: Colombia

Distribution: Colombia, French Guiana

Hosts: *Alurnus bipunctatus*, *A. bouldardi* (Coleoptera: Chrysomelidae, Hispinae)

Genus ***Gioharattia*** Haitlinger

*Gioharattia* Haitlinger, 1989a: 57

Type species: *Gioharattia maharae* Haitlinger, 1989

***Gioharattia caroae*** Haitlinger

*Gioharattia caroae* Haitlinger, 1989a: 59

Type locality: "South Ceylon"

Distribution: Sri Lanka

Host: *Coryphocera* sp. (Coleoptera: Scarabaeidae, Cetoniinae)

***Gioharattia maharae*** Haitlinger

*Gioharattia maharae* Haitlinger, 1989a: 57

Type locality: Borneo

Distribution: Borneo (?Indonesia)

Host: *Coglodera diaroi* (Coleoptera: Scarabaeidae, Cetoniinae)

Genus ***Globosophotia*** Haitlinger

*Globosophotia* Haitlinger, 1991a: 279

Type species: *Globosophotia bettinae* Haitlinger, 1991

***Globosophotia bettinae*** Haitlinger

*Globosophotia bettinae* Haitlinger, 1991a: 279

Type locality: Morocco

Distribution: Morocco

Host: *Pseudosteropus globosus* (Coleoptera: Carabidae, Pterostichinae)

Genus ***Grandiella*** Lombardini

*Grandiella* Lombardini, 1939: 45 [considered by Fain, 1989 praeocc. from Williams 1928 Hymenoptera, but being nomen nudum, *Grandiella* Lombardini has been restored by OConnor, 2004]

*Grandiellina* Fain, 1989: 67

Type species: *Grandiella tetracaudata* Lombardini, 1939

***Grandiella cooremani*** Fain

*Grandiella cooremani* Fain, 1987: 106; OConnor, 2004: 120

*Grandiellina cooremani* (Fain): Fain, 1989: 67

Type locality: Ecuador

Distribution: Ecuador

Host: *Canistra osculatii* (Coleoptera: Chrysomelidae)

***Grandiella decemcaudata*** Lombardini

*Grandiella decemcaudata* Lombardini, 1950: 289; OConnor, 2004: 120

*Grandiellina decemcaudata* (Lombardini): Fain, 1989: 67

Type locality: Bolivia, Zapirangai

Distribution: Bolivia, Paraguay

Hosts: *Echoma* [as *Omoplata*] *marginata*, *Coptocyclus contemta* (Coleoptera: Chrysomelidae, Cassidinae)

***Grandiella ecuadorensis*** Fain

*Grandiella ecuadorensis* Fain, 1987: 101; OConnor, 2004: 120

*Grandiellina ecuadorensis* (Fain): Fain, 1989: 67

Type locality: Ecuador

Distribution: Ecuador

Host: *Canistra osculatii* (Coleoptera: Chrysomelidae)

***Grandiella gambosa*** Summers et Schuster

*Grandiella gambosa* Summers & Schuster, 1979: 343; Fain, 1987: 94

*Grandiellina gambosa* (Summers & Schuster): Fain, 1989: 67

Type locality: El Llano Carti Rd., 10 km N El Llano, Pina, Panama

Distribution: Belize, Colombia, Panama

Hosts: *Discomorpha batesi*, *D. lanuginosa pubescens*, *D. depilata*, *Dolichotoma conspersipennis* (Coleoptera: Chrysomelidae)

***Grandiella joliveti*** Fain

*Grandiella joliveti* Fain, 1987: 97

*Grandiellina joliveti* (Fain): Fain, 1989: 67

Type locality: Vigosa, Minas Gerais

Distribution: Brazil

Host: *Elytrosphaera xanthopyga* (Coleoptera: Chrysomelidae)

***Grandiella kimseyi*** Summers et Schuster

*Grandiella kimseyi* Summers & Schuster, 1979a: 349; Fain, 1987: 94; OConnor, 2004: 120

*Grandiellina kimseyi* (Summers et Schuster): Fain, 1989: 67

Type locality: El Llano Carti Rd., Pina (Panama)

Distribution: Belize, Colombia, Panama

Hosts: *Discomorpha batesi*, *Dolichotoma conspersipennis* (Coleoptera: Chrysomelidae)

***Grandiella longini*** (Haitlinger)*Grandiellina longini* Haitlinger, 1991e: 389*Grandiella longini* (Haitlinger): OConnor, 2004: 120

Type locality: Bolivia

Distribution: Bolivia

Host: *Goniochenia (Baranosa) flavosparsa* (Coleoptera: Chrysomelidae, Cassidinae)***Grandiella marinae*** (Haitlinger)*Grandiellina marinae* Haitlinger, 1991e: 390*Grandiella marinae* (Haitlinger): OConnor, 2004: 120

Type locality: Chiapas

Distribution: Mexico

Host: *Ehoma confluens* (Coleoptera: Chrysomelidae)***Grandiella minor*** Fain*Grandiella minor* Fain, 1987: 106; OConnor, 2004: 120*Grandiellina minor* (Fain): Fain, 1989: 67

Type locality: Santarem

Distribution: Brazil

Host: *Canistra dohrni* (Coleoptera: Chrysomelidae)***Grandiella octocaudata*** Lombardini*Grandiella octocaudata* Lombardini, 1950: 288; OConnor, 2004: 120*Grandiellina octocaudata* (Lombardini): Fain, 1989: 67

Type locality: Estado de Paraná, Bariqui

Distribution: Brazil

Host: *Stolas chalybaea* (Coleoptera: Chrysomelidae)***Grandiella pentagona*** Lombardini*Grandiella pentagona* Lombardini, 1950: 286; OConnor, 2004: 120*Grandiellina pentagona* (Lombardini): Fain, 1989: 67

Type locality: Distrito Federal, Cerro de Naiguatá

Distribution: Venezuela

Host: Coleoptera: Chrysomelidae, Cassidinae

***Grandiella rogeri*** (Haitlinger)*Grandiellina rogeri* Haitlinger, 1991e: 388*Grandiella rogeri* (Haitlinger): OConnor, 2004: 120

Type locality: Chanchamayo

Distribution: Peru

Host: *Goniochenia (Baranosa) heroldi* (Coleoptera: Chrysomelidae, Cassidinae)

***Grandiella rosascostai*** (Lombardini)

*Coleoglyphus rosascostai* Lombardini, 1950: 279

*Hatohylla rosascostai* (Lombardini): Haitlinger 1991: 311

*Grandiella rosascostai* (Lombardini): OConnor, 2004: 120

Type locality: Distrito Federal Cerro del Naguayá

Distribution: Venezuela

Host: *Nyctobates* sp. (Coleoptera: Tenebrionidae)

***Grandiella rugosita*** Summers et Schuster

*Grandiella rugosita* Summers & Schuster, 1979: 343; OConnor, 2004: 120

Type locality: Panama

Distribution: Panama

Host: Coleoptera

***Grandiellina sicula*** Summers et Schuster

*Grandiella sicula* Summers & Schuster, 1979a: 333; OConnor, 2004: 120

*Grandiellina sicula* (Summers & Schuster): Fain, 1989: 67; Haitlinger, 1991e: 392

Type locality: Depto. Del Cesar, 0.3 km N Castilla, Inez Ranch

Distribution: Colombia

Hosts: *Coptocyclus nigropunctata*, *C. nr. wagneri* (Coleoptera: Chrysomelidae, Cassidinae)

***Grandiella soniae*** (Haitlinger)

*Grandiellina soniae* Haitlinger, 1991e: 391

*Grandiella soniae* (Haitlinger): OConnor, 2004: 120

Type locality: Rio Negro

Distribution: Colombia

Hosts: *Cyrtanota punicea*, *C. textilis*, *Stolas coalita*, *S. coerulea*, *S. erichsoni*, *S. placida* (Coleoptera: Chrysomelidae)

***Grandiella tacjannae*** (Haitlinger)

*Grandiellina tacjannae* Haitlinger, 1991e: 383

*Grandiella tacjannae* (Haitlinger): OConnor, 2004: 120

Type locality: Brazil, Candido de Abreu

Distribution: Argentina, Brazil, Paraguay, Peru

Hosts: *Anacassis fuscata*, *Botanochara angulata*, *B. bonariensis*, *B. convexiuscula*, *B. duodecimverrucata*, *B. impressa*, *B. macularia*, *B. nervosa*, *B. regina*, *B. ruforeticulata*, *B. sanguinea*, *B. sedecimpustulata*, *B. tessellata*, *B. texta* (Coleoptera: Chrysomelidae, Cassidinae)

***Grandiella tertia*** Lombardini

*Grandiella tertia* Lombardini, 1942: 46; OConnor, 2004: 120

*Grandiellina tertia* (Lombardini): Fain, 1989: 67

Type locality: Brazil

Distribution: Brazil

Host: Cassids (Coleoptera: Chrysomelidae)

***Grandiella tetracaudata*** Lombardini

*Grandiella tetracaudata* Lombardini, 1939: 45; 1950: 283; Summers & Schuster, 1979a: 330; Fain, 1987: 94; OConnor, 2004: 120

*Grandiellina tetracaudata* (Lombardini): Fain, 1989: 67; Haitlinger, 1991e: 383

Type locality: Brazil

Distribution: Brazil, Colombia, Peru

Hosts: [*Botanochara sedecimpustulata*, *B. subnervosa*], *Coptocycla adamantina*, *Cyrtonota cyanea*, *C. thalassina*, *C. tigrina*, *Eumolpus fulgidus*, *Stolas chalybaea*, *S. subrugosa* (Coleoptera: Chrysomelidae). According to Haitlinger (1992e), the mites recorded on genus *Botanochara* belong actually to *Grandiellina tacjannae*.

***Grandiella tetracaudata omoplata*** Fain

*Grandiella tetracaudata omoplata* Fain, 1987: 94; OConnor, 2004: 120

*Grandiellina tetracaudata omoplata* (Fain): Fain, 1989: 67

Type locality: Cayenne, St. Jean de Maroni, Gourdonville

Distribution: French Guyana

Host: *Eichoma clypeata* (= *Omoplata marginata*) (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Grandiellopsis*** Fain

*Grandiellopsis* Fain, 1989: 68

Type species: *Grandiellopsis cyclosoma* Fain, 1989

***Grandiellopsis alani*** Haitlinger

*Grandiellopsis alani* Haitlinger, 1992: 52

Type locality: Archidona

Distribution: Ecuador

Host: *Canistra osculatii* (Coleoptera: Chrysomelidae)

***Grandiellopsis ariani*** Haitlinger

*Grandiellopsis ariani* Haitlinger, 1992: 53

Type locality: Campirias

Distribution: Brazil

Host: *Canistra carbonaria* (Coleoptera: Chrysomelidae)

***Grandiellopsis canistra*** Fain

*Grandiellopsis canistra* Fain, 1989: 70

Type locality: Ecuador

Distribution: Ecuador

Host: *Canistra osculatii* (Coleoptera: Chrysomelidae)

***Grandiellopsis cyclosoma*** Fain

*Grandiellopsis cyclosoma* Fain, 1989: 68

Type locality: Bas Maroni

Distribution: French Guyana

Host: *Cyclosoma palliata* (Coleoptera: Chrysomelidae)

***Grandiellopsis odiosi*** Haitlinger

*Grandiellopsis odiosi* Haitlinger, 1992: 56

Type locality: Brazil

Distribution: Brazil

Host: *Polychalca (P.) punctatissima* (Coleoptera: Chrysomelidae)

***Grandiellopsis orsenae*** Haitlinger

*Grandiellopsis orsenae* Haitlinger, 1992: 58

Type locality: Puerto Inca

Distribution: Peru

Host: *Cyclosoma mirabilis* (Coleoptera: Chrysomelidae)

***Grandiellopsis violae*** Haitlinger

*Grandiellopsis violae* Haitlinger, 1992: 55

Type locality: Bolivia

Distribution: Bolivia

Host: *Canistra cruentata* (Coleoptera: Chrysomelidae)

Genus ***Haitlingeria*** Wontae Kim et al.

*Haitlingeria* Kim et al., 2006: 13

Type species: *Haitlingeria longilobata* Kim et al., 2006

***Haitlingeria longilobata*** Kim et al.

*Haitlingeria longilobata* Kim et al., 2006: 13

Type locality: South Korea, near the Bung-Dong Reservoir Seonbukcong Yuseongku  
Daejeon

Distribution: Korea

Host: *Serrognathus platymelus* (Coleoptera: Lucanidae)

Genus ***Hargeinella*** Haitlinger

*Hargeinella* Haitlinger, 1989a: 53

Type species: *Hargeinella poppana* Haitlinger, 1989

***Hargeinella poppana*** Haitlinger

*Hargeinella poppana* Haitlinger, 1989a: 53

Type locality: Sumatra

Distribution: Indonesia (Sumatra)

Host: *Trichogomphus milon* (Coleoptera: Scarabaeidae, Dynastinae)

Genus ***Hatohylla*** Haitlinger

*Hatohylla* Haitlinger, 1990a: 307 1991 ?

Type species: *Hatohylla morrata* Haitlinger, 1990

***Hatohylla bahiana*** Haitlinger

*Hatohylla bahiana* Haitlinger, 1990a: 308

Type locality: Santa Catarina

Distribution: Brazil

Host: *Nyctobates maximus* (Coleoptera: Tenebrionidae)

***Hatohylla bibiannae*** Haitlinger

*Hatohylla bibiannae* Haitlinger, 1990a: 311

Type locality: Santa Catarina

Distribution: Brazil

Host: undetermined Tenebrionidae (Coleoptera)

***Hatohylla morrata*** Haitlinger

*Hatohylla morrata* Haitlinger, 1990a: 308

Type locality: Amazonas

Distribution: Brazil

Host: *Nyctobates gigas* (Coleoptera: Tenebrionidae)

Genus ***Hyllosihemia*** Haitlinger

*Hyllosihemia* Haitlinger, 1994: 93

Type species: *Hyllosihemia belerofoni* Haitlinger, 1994

***Hyllosihemia belerofoni*** Haitlinger

*Hyllosihemia belerofoni* Haitlinger, 1994: 93

Type locality: Sumatra

Distribution: Indonesia (Sumatra)

Host: Coleoptera: Passalidae

Genus ***Hypopteryx*** Summers et Schuster

*Hypopteryx* Summers & Schuster, 1981b: 41

Type species: *Hypopteryx collaris* Summers et Schuster, 1981

***Hypopteryx collaris*** Summers et Schuster

*Hypopteryx collaris* Summers & Schuster, 1981b: 42

Type locality: Australia

Distribution: Australia

Host: Coleoptera

Genus ***Ibizella*** Haitlinger et Šundić

*Ibizella* Haitlinger & Šundić, 1916: 75

Type species: *Ibizella balearica* Haitlinger & Šundić, 1916

***Ibizella asilahica*** Haitlinger et Šundić

*Ibizella asilahica* Haitlinger et Šundić, 1918: 413

Type locality: Asilah (31 km south of Tangier)

Distribution: Morocco

Host: Coleoptera: Tenebrionidae indet.

***Ibizella balearica*** Haitlinger et Šundić

*Ibizella balearica* Haitlinger & Šundić, 1916: 75

Type locality: Ibiza

Distribution: Spain (Ibiza)

Host: (Coleoptera, Tenebrionidae: *Blaps* sp.)

***Ibizella samsinaki*** (Beron)

*Canestrinia samsinaki* Beron, 1975: 83; Haitlinger, 1993c: 87; 2001a: 26; Haitlinger & Šundić, 1916: 75

*Ibizella samsinaki* (Beron): Haitlinger & Šundić, 1916: 75

Type locality: Bulgaria, Sozopol

Distribution: Bulgaria, Cyprus, Spain (Ibiza)

Host: *Blaps* sp., *Gnaptor* sp. (Coleoptera: Tenebrionidae)

Genus ***Irmongia*** Haitlinger

*Irmongia* Haitlinger, 1990b: 547

Type species: *Irmongia helgae* Haitlinger, 1990

***Irmongia helgae*** Haitlinger

*Irmongia helgae* Haitlinger, 1990b: 547

Type locality: Tanzania

Distribution: Tanzania

Host: undetermined Passalidae (Coleoptera)



Genus ***Jowitella*** Haitlinger

*Jowitella* Haitlinger, 1990b: 547

Type species: *Jowitella barbarae* Haitlinger, 1990

***Jowitella barbarae*** Haitling

*Jowitella barbarae* Haitlinger, 1990b: 547

Type locality: Santa Catarina

Distribution: Brazil

Host: undetermined Passalidae (Coleoptera)

Genus ***Jullongia*** Haitlinger

*Jullongia* Haitlinger, 1990b: 538

Type species: *Jullongia izae* Haitlinger, 1990

***Jullongia izae*** Haitlinger

*Jullongia izae* Haitlinger, 1990b: 539

Type locality: Stephansort

Distribution: Papua New Guinea

Host: undetermined Passalidae (Coleoptera)

Genus ***Kahoorangia*** Haitlinger

*Kahoorangia* Haitlinger, 1992: 288

Type species: *Kahoorangia almae* Haitlinger, 1992

***Kahoorangia almae*** Haitlinger

*Kahoorangia almae* Haitlinger, 1991d: 289

Type locality: ? South Africa

Distribution: ? South Africa

Host: *Pachnoda carmelita* (Coleoptera: Scarabaeidae, Cetoniinae)

Genus ***Lidiophela*** Haitlinger

*Lidiophela* Haitlinger, 1990b: 540

Type species: *Lidiophela pelagiae* Haitlinger, 1990

***Lidiophela aruica*** Haitlinger

*Lidiophela aruica* Haitlinger, 1990b: 542

Type locality: Aru Is.

Distribution: Indonesia (Aru Is.)

Host: *Labienus ptox* (Coleoptera: Passalidae)

***Lidiophela bognae*** Haitlinger

*Lidiophela bognae* Haitlinger, 1990b: 543

Type locality: Moluccas, Batjan Is.  
Distribution: Indonesia (Moluccas, Batjan Is.)  
Host: undetermined Passalidae (Coleoptera)

***Lidiophela celinae*** Haitlinger

*Lidiophela celinae* Haitlinger, 1990b: 541  
Type locality: Moluccas, Ambon Is.  
Distribution: Indonesia, Moluccas (Ambon Is.)  
Host: undetermined Passalidae (Coleoptera)

***Lidiophela igae*** Haitlinger

*Lidiophela igae* Haitlinger, 1990b: 542  
Type locality: Moluccas, Batjan Is.  
Distribution: Indonesia (Batjan Is.)  
Host: *Labienus gigas* (Coleoptera: Passalidae)

***Lidiophela pauliana*** Haitlinger

*Lidiophela pauliana* Haitlinger, 1991a: 276  
Type locality: Australia  
Distribution: Australia  
Host: *Amarygmus striatus* (Coleoptera: Tenebrionidae)

***Lidiophela pecki*** (Nesbitt)

*Coleopterophagus pecki* Nesbitt, 1976: 220  
*Lidiophela pecki*: Haitlinger, 1990b: 540  
Type locality: Baiyer River Sanctuary, Mt.Hagen, Papua New Guinea  
Distribution: Papua New Guinea, Solomon Islands (Gizo Is.),  
Hosts: *Labienus* sp., *Obiensus* sp., *Protomocoelus australis* (Coleoptera: Passalidae)

***Lidiophela pelagiae*** Haitlinger

*Lidiophela pelagiae* Haitlinger, 1990b: 540  
Type locality: Moluccas, Batjan Is.  
Distribution: Indonesia, Moluccas (Batjan Is.)  
Host: *Labienus gigas* (Coleoptera: Passalidae)

Genus ***Megacanestrinia*** Trägårdh

*Megacanestrinia* Trägårdh, 1906: 877  
Type species: *Megacanestrinia mucronata* Trägårdh, 1906

***Megacanestrinia beloniana*** Haitlinger

*Megacanestrinia beloniana* Haitlinger, 1990e: 312  
Type locality: Tanzania

Distribution: Tanzania

Host: *Tefflus purpuripennis* (Coleoptera: Carabidae)

***Megacanestrinia mucronata*** Trägårdh

*Megacanestrinia mucronata* Trägårdh, 1906: 877

Type locality: Umfolozi, Zululand

Distribution: South Africa

Host: «Auf einen grossen Carabide» (Coleoptera: Carabidae)

Subfam. **Melisiinae** Summers et Schuster

Melisiinae Summers & Schuster, 1982a: 23

Type genus : *Melisia* Lombardini, 1944

Genus ***Melisia*** Lombardini

*Melisia* Lombardini, 1944: 2

Type species: *Melisia melisii* Lombardini, 1944

***Melisia anomala*** Samšinák

*Melisia anomala* Samšinák, 1963: 257

Type locality: Mts Singalang

Distribution: Indonesia (Sumatra)

Hosts: *Epiphanus indicus*, *E. stoliczkae* (Coleoptera: Passalidae)

***Melisia ariadnae*** Haitlinger

*Melisia ariadnae* Haitlinger, 1989: 529

Type locality: Soekaranda (Sumatra); Borneo

Distribution: Indonesia (Sumatra, Borneo)

Host: *Aceraius laevicollis* (Passalidae, Coleoptera)

***Melisia baloghi*** Samšinák

*Melisia baloghi* Samšinák, 1969: 407

Type locality: Cuc-phuong Bong

Distribution: Vietnam

Host: Coleoptera indet.

***Melisia gabrielae*** Haitlinger

*Melisia gabrielae* Haitlinger, 1990: 531

Type locality: Soekaranda, Sumatra

Distribution: Indonesia (Sumatra)

Host: *Aceraius laevicollis* (Coleoptera: Passalidae)

***Melisia helenae*** Haitlinger

*Melisia helenae* Haitlinger, 1990b: 533

Type locality: North Vietnam

Distribution: Vietnam

Host: undetermined Passalidae (Coleoptera)

***Melisia hieronimae*** Haitlinger

*Melisia hieronimae* Haitlinger, 1990b: 535

Type locality: holotype from North Vietnam; paratypes from Thailand and Sumatra

Distribution: Indonesia (Sumatra), Thailand, Vietnam

Host: undetermined Passalidae (Coleoptera)

***Melisia ingeborgae*** Haitlinger

*Melisia ingeborgae* Haitlinger, 1990b: 535

Type locality: Soekaranda, Sumatra

Distribution: Indonesia (Sumatra)

Host: undetermined Passalidae (Coleoptera)

***Melisia irenae*** Haitlinger

*Melisia irenae* Haitlinger, 1990b: 531

Type locality: Sinabong, Sumatra

Distribution: Indonesia (Sumatra)

Host: *Aceraius grandis* (Coleoptera: Passalidae)

***Melisia jadvigae*** Haitlinger

*Melisia jadvigae* Haitlinger, 1990b: 532

Type locality: North Vietnam

Distribution: Vietnam

Host: undetermined Passalidae (Coleoptera)

***Melisia klapaleki*** Samšínák

*Melisia klapaleki* Samšínák, 1963: 260

Type locality: India mer.: Coimbatore

Distribution: India

Host: *Epiphenus stoliczkae* (Coleoptera: Passalidae)

***Melisia leptinotarsa*** Summers et Schuster

*Melisia leptinotarsa* Summers & Schuster, 1982a: 25

Type locality: Paluma, Stop 388, Queensland

Distribution: Australia

Host: Coleoptera Passalidae (gen. sp. Indet.)

***Melisia lombardinii*** Samšínák

*Melisia lombardinii* Samšínák, 1963: 255

Type locality: Mts Singalang

Distribution: Indonesia (Sumatra)

Host: *Pelopides mniszecki* (Coleoptera: Passalidae)

***Melisia mahunkai*** Samšínák

*Melisia mahunkai* Samšínák, 1969: 409

Type locality: Cuc-phuong, Bong

Distribution: Vietnam

Host: Coleoptera indet.

***Melisia mariettae*** Haitlinger

*Melisia mariettae* Haitlinger, 1990b: 528

Type locality: Sinabong, Sumatra

Distribution: Indonesia (Sumatra)

Host: *Aceraius grandis* (Coleoptera: Passalidae)

***Melisia melaniae*** Haitlinger

*Melisia melaniae* Haitlinger, 1990b: 532

Type locality: Sumatra

Distribution: Indonesia (Sumatra)

Host: *Aceraius mayeri* (Coleoptera: Passalidae)

***Melisia melisii*** Lombardini

*Melisia melisii* Lombardini, 1944: 2; Samšínák, 1963: 253

Type locality: America

Distribution: America

Host: *Passalus* sp. (Coleoptera: Passalidae)

***Melisia occidii*** Samšínák

*Melisia occidii* Samšínák, 1969: 410; Haitlinger, 1990b: 532

Type locality: Cuc-phuong, Bong

Distribution: Vietnam

Host: Coleoptera indet.

***Melisia rutae*** Haitlinger

*Melisia rutae* Haitlinger, 1990b: 533

Type locality: North Vietnam

Distribution: Vietnam

Host: undetermined Passalidae (Coleoptera)

***Melisia salomeae*** Haitlinger

*Melisia salomeae* Haitlinger, 1990b: 529

Type locality: Sinabong, Sumatra

Distribution: Indonesia (Sumatra)

Host: *Aceraius grandis* (Coleoptera: Passalidae)

***Melisia samsinaki*** Vomero

*Melisia samsinaki* Vomero, 1972: 95

Type locality: Kon Techore

Distribution: Cambodia

Host: *Aceraius helferi* (Coleoptera: Passalidae)

***Melisia sentosa*** Summers et Schuster

*Melisia sentosa* Summers & Schuster, 1982a: 27

Type locality: Ta Rau, Hainan

Distribution: China (Hainan Isl.)

Host: Passalidae gen. sp. indet. (Coleoptera)

***Melisia superba*** Summers et Schuster

*Melisia superba* Summers & Schuster, 1982a: 27

Type locality: Musha, Taiwan

Distribution: Taiwan

Host: *Aceraius grandis hirsutus* (Coleoptera: Passalidae)

Genus ***Mesophotia*** Samšínák

*Mesophotia* Samšínák, 1971: 209

Type species: *Mesophotia penicillata* Samšínák, 1971

***Mesophotia penicillata penicillata*** Samšínák

*Mesophotia penicillata penicillata* Samšínák, 1971: 209

Type locality: Sevilla

Distribution: Spain

Host: *Carabus (Rhabdotocarabus) melancholicus*, *C.m. costatus* (Coleoptera: Carabidae)

***Mesophotia penicillata similis*** Samšínák

*Mesophotia penicillata similis* Samšínák, 1971: 214

Type locality: Andalusia

Distribution: Spain

Host: *Carabus (Rhabdotocarabus) melancholicus costatus* (Coleoptera: Carabidae)

***Mesophotia penicillata tertia*** Samšínák*Mesophotia penicillata tertia* Samšínák, 1971: 214

Type locality: Sevilla

Distribution: Morocco, Spain

Host: *Carabus (Rhabdotocarabus) melancholicus* (Coleoptera: Carabidae)Genus ***Metriothiana*** Haitlinger*Metriothiana* Haitlinger, 1999: 40Type species: *Metriothiana bolebori* Haitlinger, 1999***Metriothiana bolebori*** Haitlinger*Metriothiana bolebori* Haitlinger, 1999: 40

Type locality: Tegusigalpa

Distribution: Honduras

Host: *Metrionella bilimeki* (Coleoptera: Chrysomelidae, Cassidinae)Genus ***Mossongia*** Haitlinger*Mossongia* Haitlinger, 1989a: 49Type species: *Mossongia ssavina* Haitlinger, 1989***Mossongia bissaina*** Haitlinger*Mossongia bissaina* Haitlinger, 1989a: 52

Type locality: Bougainville, Kieta

Distribution: Papua New Guinea

Host: *Scapanus solomonensis* (Coleoptera: Scarabaeidae, Dynastinae)***Mossongia ssavina*** Haitlinger*Mossongia ssavina* Haitlinger, 1989a: 50

Type locality: New Guinea

Distribution: New Guinea

Host: *Scapanus australis* (Coleoptera: Scarabaeidae, Dynastinae)Genus ***Neophotia*** Samšínák*Neophotia* Samšínák, 1971: 201Type species: *Neophotia drvotocka* Samšínák, 1971***Neophotia drvotocka*** Samšínák*Neophotia drvotocka* Samšínák, 1971: 202

Type locality: San Ildefonso

Distribution: Portugal, Spain

Hosts: *Carabus (Iniopachus) pyrenaicus*, *C. (Oreocarabus) amplipennis*, *C. (Oreocarabus) gadarramus* (Coleoptera: Carabidae)

***Neophotia jureceki*** Samšínák

*Neophotia jureceki* Samšínák, 1971: 204

Type locality: Pyrenees, Pic du Midi

Distribution: France

Host: *Carabus (Iniopachus) pyrenaeus* (Coleoptera: Carabidae)

***Neophotia latissima*** Samšínák

*Neophotia latissima* Samšínák, 1971: 206

Type locality: Guadarrama, Cercedilla

Distribution: Spain

Host: *Carabus (Mesocarabus) lusitanicus* (Coleoptera: Carabidae)

Genus ***Noemiphela*** Haitlinger

*Noemiphela* Haitlinger, 1992b: 536

Type species: *Noemiphela izabelae* Haitlinger, 1992

***Noemiphela barryi*** Haitlinger

*Noemiphela barryi* Haitlinger, 1992b: 538

Type locality: Sumatra

Distribution: Indonesia

Host: *Eurytrachelus purpurescens* (Coleoptera: Lucanidae)

***Noemiphela izabelae*** Haitlinger

*Noemiphela izabelae* Haitlinger, 1992b: 537

Type locality: Celebes (Sulawesi)

Distribution: Indonesia

Host: *Cladognathus giraffa* (Coleoptera: Lucanidae)

Genus ***Oceogavia*** Haitlinger

*Oceogavia* Haitlinger, 1989: 586

Type species: *Oceogavia ubaldi* Haitlinger, 1989

***Oceogavia ubaldi*** Haitlinger

*Oceogavia ubaldi* Haitlinger, 1989: 586

Type locality: unknown

Distribution: unknown

Host: *Papuana woodlarkiana* (Coleoptera: Scarabaeidae, Dynastinae)

Genus ***Olafithiana*** Haitlinger

*Olafithiana* Haitlinger, 1993e: 274

Type species: *Olafithiana adelinae* Haitlinger, 1993



***Olafithiana adelinae*** Haitlinger*Olafithiana adelinae* Haitlinger, 1993e: 274

Type locality: Parana

Distribution: Brazil

Host: [*Stolas*] *Anacassis cribrum* (Coleoptera: Chrysomelidae, Cassidinae)***Olafithiana foliacea*** (Fain)*Grandiella foliacea* Fain, 1987: 101*Grandiellina foliacea* (Fain): Fain, 1989: 67*Olafithiana foliacea* (Fain): Haitlinger 1993e: 277

Type locality: Brazil, Nova Teutonia

Distribution: Argentina, Brazil, Panama

Hosts: *Stolas areolata*, *S. chalybea*, *S. conspersa*, *S. complexa*, *S. festiva*, *S. impluviata*, *S. lacunose*, *S. lenis*, *S. nudicollis*, *S. oblita*, *S. paranensis*, *S. subreticulata* (Coleoptera: Chrysomelidae, Cassidinae)***Olafithiana iwettae*** Haitlinger*Olafithiana iwettae* Haitlinger, 1994b: 83

Type locality: Costa Rica

Distribution: Costa Rica, Venezuela

Host: *Charidotella* (= *Metriona*) *testudinacea* (Coleoptera: Chrysomelidae, Cassidinae)***Olafithiana joliveti*** (Fain)*Grandiella joliveti* Fain, 1987: 97*Olafithiana joliveti* (Fain): Haitlinger 1993e: 278

Type locality: Viçosa, Minas Gerais

Distribution: Brazil

Host: *Elytrosphaera xanthopyga* (Coleoptera: Chrysomelidae)***Olafithiana multifida*** (Fain)*Grandiella multifida* Fain, 1987: 101*Olafithiana multifida* (Fain): Haitlinger, 1993e: 276

Type locality: Brazil

Distribution: Argentina, Bolivia, Brazil, Ecuador

Hosts: *Stolas antiqua*, *S. aurosetosa*, *S. cruentata* (Coleoptera: Chrysomelidae, Cassidinae)Genus ***Olgattia*** Haitlinger*Olgattia* Haitlinger, 1990b: 538Type species: *Olgattia useguaica* Haitlinger, 1990

***Olgattia useguaica*** Haitlinger

*Olgattia useguaica* Haitlinger, 1990b: 538

Type locality: Usegua

Distribution: Tanzania

Host: *Eumelasomus sansibaricus* (Coleoptera: Passalidae)

Genus ***Ovarrothiana*** Haitlinger

*Ovarrothiana* Haitlinger, 1993d: 60

Type species: *Ovarrothiana nikodemi* Haitlinger, 1993

***Ovarrothiana echinoderma*** (Summers et Schuster)

*Grandiella echinoderma* Summers & Schuster, 1979: 346; Fain, 1987: 94

*Grandiellina echinoderma* (Summers & Schuster): Fain, 1989: 67

*Ovarrothiana echinoderma* (Summers & Schuster): Haitlinger, 1993d: 65

Type locality: Cerro Compana, Panama

Distribution: Colombia, Panama

Host: *Eugenysa colombiana* (Coleoptera: Chrysomelidae, Cassidinae)

***Ovarrothiana erazmi*** Haitlinger

*Ovarrothiana erazmi* Haitlinger, 1993d: 61

Type locality: Cayenne

Distribution: French Guyana

Host: *Eugenysa venosa* (Coleoptera: Chrysomelidae, Cassidinae)

***Ovarrothiana leopoldi*** Haitlinger

*Ovarrothiana leopoldi* Haitlinger, 1993d: 65

Type locality: Yungaz de La Paz

Distribution: Bolivia

Host: *Miocalaspis gentilis* (Coleoptera: Chrysomelidae, Cassidinae)

***Ovarrothiana ludomiri*** Haitlinger

*Ovarrothiana ludomiri* Haitlinger, 1993d: 64

Type locality: Weise

Distribution: Bolivia

Host: *Cyclosoma tristis* (Coleoptera: Chrysomelidae, Cassidinae)

***Ovarrothiana nikodemi*** Haitlinger

*Ovarrothiana nikodemi* Haitlinger, 1993d: 60

Type locality: Peru

Distribution: Brazil, Peru

Host: *Eugenysa divalis* (Coleoptera: Chrysomelidae, Cassidinae)

***Ovarrothiana ozannae*** Haitlinger*Ovarrothiana ozannae* Haitlinger, 1993d: 63

Type locality: Peru, Chanchamayo

Distribution: Brazil, Ecuador, Peru

Hosts: *Agenyssa caedemadens*, *A. crassicornis*, *Eugenysa andicola* (Coleoptera: Chrysomelidae, Cassidinae)Genus ***Paracanestrinia*** Haitlinger*Paracanestrinia* Haitlinger, 2017: 658Type species: *Paracanestrinia denmarkica* Haitlinger, 2017***Paracanestrinia denmarkica*** Haitlinger*Paracanestrinia denmarkica* Haitlinger, 2017: 659

Type locality: 11 km north of Hvidbjerg

Distribution: Denmark

Host: *Carabus* sp. (Coleoptera: Carabidae)Genus ***Paramansia*** Cooreman*Paramansia* Cooreman, 1950: 13Type species: *Paramansia menthastri* Cooreman, 1950***Paramansia bicornis*** Khaustov et Eidelberg*Paramansia bicornis* Khaustov & Eidelberg, 2001: 43; Trach & Khaustov, 2007: 268

Type locality: Crimea, Yalta

Distribution: Crimea, Ukraine

Hosts: *Chrysolina menthastri*, *Ch. polita*, *Ch. fastuosa* (Coleoptera: Chrysomelidae)***Paramansia giardi*** (Trouessart)*Canestrinia giardi* Trouessart, in Berlese, 1887:*Paramansia giardi* (Trouessart): Cooreman, 1950: 18

Type locality: ? Brazil

Distribution: ? Brazil

Host: ? *Megistomela reticulata* (Coleoptera: Chrysomelidae)***Paramansia menthastri*** Cooreman*Paramansia menthastri* Cooreman, 1950: 14

Type locality: Bray-sous-Fay nr. Richelieu, Indre et Loire, France

Distribution: France

Host: *Chrysolina menthastri* (Coleoptera: Chrysomelidae)Genus ***Paramelisia*** Summers et Schuster*Paramelisia* Summers & Schuster, 1982a: 29

Type species: *Paramelisia lacuna* Summers & Schuster, 1982

***Paramelisia lacuna*** Summers et Schuster

*Paramelisia lacuna* Summers & Schuster, 1982a: 29

Type locality: Anomal Hills, Cinchona, S. India

Distribution: India

Host: *Pleurarius brachyphyllus* (Coleoptera: Passalidae)

Genus ***Paraphagella*** Cooreman

*Paraphagella* Cooreman, 1955: 28

Type species: *Paraphagella princeps* Cooreman, 1955

***Paraphagella eudicellae*** Cooreman

*Paraphagella eudicellae* Cooreman, 1955: 33

Type locality: Kibga, Sud Visoke, 2400 m; Rutshuru

Distribution: D.R. Congo

Hosts: *Eudicella smithi* var. *bertherandi*, *E. gralli* var. *meckowi* (Coleoptera: Chrysomelidae)

***Paraphagella indirae*** Haitlinger

*Paraphagella indirae* Haitlinger, 1991d: 291

Type locality: Nyangassy

Distribution: Cameroon

Host: *Mecynorrhina* [*Chelarrhina* – recte *Chelorrhina*] *savagei* (Coleoptera)

***Paraphagella ingridae*** Haitlinger

*Paraphagella ingridae* Haitlinger, 1991d: 290

Type locality: Liberia

Distribution: Liberia

Host: *Tmesorrhina iris* (Coleoptera: Scarabaeidae, Cetoniinae)

***Paraphagella minor*** Cooreman

*Paraphagella minor* Cooreman, 1955: 36

Type locality: Kibga, Sud Visoke, 2400 m

Distribution: D.R. Congo

Host: *Eudicella smithi* var. *bertherandi* (Coleoptera: Chrysomelidae)

***Paraphagella odae*** Haitlinger

*Paraphagella odae* Haitlinger, 1991d: 292

Type locality: Distr. Kassai

Distribution: Congo (Brazzaville)

Host: *Stephanorrhina guttata* (Coleoptera: Scarabaeidae, Cetoniinae)

***Paraphagella princeps*** Cooreman*Paraphagella princeps* Cooreman, 1955: 29

Type locality: May-ya-Moto, riv. Rutshuru

Distribution: D.R. Congo

Hosts: *Dicronorhina micans*, *Smaragdesthes africana mutica* (Coleoptera: Chrysomelidae)Genus ***Paraphotia*** Khaustov et Eidelberg*Paraphotia* Khaustov & Eidelberg, 2001: 37Type species: *Paraphotia calosomae* Khaustov et Eidelberg, 2001***Paraphotia calosomae*** Khaustov et Eidelberg*Paraphotia calosomae* Khaustov & Eidelberg, 2001: 39; Trach, 2006: 175

Type locality: Crimea, Opuk Mount.

Distribution: Crimea

Host: *Calosoma auropunctatum* (Coleoptera: Carabidae)Genus ***Passalophagus*** Nesbitt*Passalophagus* Nesbitt, 1976: 230Type species: *Passalophagus georgei* Nesbitt, 1976***Passalophagus georgei*** Nesbitt*Passalophagus georgei* Nesbitt, 1976: 231

Type locality: Baiyer River Bird of Paradise Sanctuary, Mt. Hagen Area

Distribution: Papua New Guinea

Host: *Labienus* sp. (Coleoptera: Passalidae)Genus ***Percanestrinia*** Berlese*Canestrinia* (*Percanestrinia*) Berlese, 1911: 184*Percanestrinia* Berlese: Samšinák, 1965 (syn. with *Canestrinia*); Haitlinger, 1992a: 535  
(restored as genus)Type species: *Alloptes blaptis* Canestrini et Berlese, 1880***Percanestrinia blaptis*** (Canestrini et Berlese)*Alloptes blaptis* Canestrini & Berlese, 1880: 148*Percanestrinia blaptis*: Berlese, 1911: 184; Turk, 1953: 82; Rack, 1968: 265; Haitlinger, 1992a: 541; 2012: 187; Trach, 2006: 176*Canestrinia blaptis*: Berlese, 1884: A.M.S., fasc. XXIX, No1; Haitlinger, 1992a: 541*Coleopterophagus blaptis* (Canestrini et Berlese): Oudemans, 1923: 187*Percanestrinia* (*Percanestrinia*) *blaptis*: Cooreman, 1954: 85*Canestrinia blaptis rackae* Samšinák, 1970: 72 (syn. by Haitlinger, 1992a)

Type locality: ? „Italia septentrionalis“

Distribution: Bulgaria, Georgia, Germany, Great Britain, Hungary, Italy (incl. Sardinia), Poland, Ukraine

Hosts: *Blaps gibbosa*, *B. lethifera*, *B. occulta*, *B. punctata* (Coleoptera: Tenebrionidae), *Sphodrus leucophthalmus* (Coleoptera: Carabidae)

***Percanestrinia egypti*** El Bishlawi et Allam

*Percanestrinia egypti* El Bishlawi & Allam, 2003: 267

Type locality: Egypt

Distribution: Egypt

***Percanestrinia izabelae*** Haitlinger

*Percanestrinia izabelae* Haitlinger, 1992a: 536

Type locality: Cyprus

Distribution: Cyprus

Host: *Blaps gibbosa* (Coleoptera: Tenebrionidae)

***Percanestrinia maroccana*** Cooreman

*Percanestrinia maroccana* Cooreman, 1953: 6; Haitlinger, 1992a: 540

Type locality: Morocco

Distribution: Corsica (France), Italy, Morocco

Hosts: *Blaps mucronata*, *B. pinguis*, *B. producta* (Coleoptera: Tenebrionidae)

***Percanestrinia norodomi*** Haitlinger

*Percanestrinia norodomi* Haitlinger, 1992a: 538

Type locality: Tashkent

Distribution: Uzbekistan

Host: *Blaps hejconota cortosa* (Coleoptera: Tenebrionidae)

***Percanestrinia sellnicki*** Samšínák

*Percanestrinia sellnicki* Samšínák, 1965: 145; Beron, 1971: 205; Haitlinger, 1988d, 2012: 188; *Canestrinia sellnicki*: Samsinák, 1971: 155; Haitlinger, 1989; Trach, 2006: 176

Type locality: "Hungaria (Com. Bihar)" (now in Romania)

Distribution: Czech Rep., Hungary, former Jugoslavia, Moldova, Poland, Romania, Slovakia, Ukraine

Hosts: *Carabus (Procrustes) coriaceus rugifer*, *C. c. coriaceus*, *C. coriaceus pseudorugifer*, *C. coriaceus banaticus*, *C. coriaceus subrugosus*, *C. coriaceus gressorius*, *C. coriaceus imminutus*, *C. violaceus* (Coleoptera: Carabidae)

***Percanestrinia viviannae*** Haitlinger

*Percanestrinia viviannae* Haitlinger, 1992a: 540

Type locality: China

Distribution: China

Host: Tenebrionidae (Coleoptera)

Genus ***Percanestriniella*** Khaustov et Eidelberg

*Percanestriniella* Khaustov & Eidelberg, 2001: 34

Type species: *Percanestriniella caucasica* Khaustov et Eidelberg, 2001

***Percanestriniella caucasica*** Khaustov et Eidelberg

*Percanestriniella caucasica* Khaustov & Eidelberg, 2001: 34

Type locality: Caucasus, Mzymsha river bank near Kardyvach

Distribution: Russia (Caucasus)

Host: *Carabus* sp. (Coleoptera: Carabidae)

***Percanestriniella levis*** (Samšinák)

*Canestrinia levis* Samšinák, 1971: 166

*Percanestriniella levis*: Khaustov & Eidelberg, 2001: 36

Type locality: 'Turkestan' (Sussamyr – GB, Ketmen-Tjube), Buchara

Distribution: Kirghizstan, Uzbekistan

Hosts: *Carabus (Pantophyrtus) turcomannorum*, *C.(P.) tanypedilus*, *C. (Cratocephalus) balassogloi*, *C. (C.) cicatricosus*, *C. (Ulocarabus) sturowskyi*, *C. (Cratocechenus) akinini* (Coleoptera: Carabidae)

***Percanestriniella vlachiana*** (Samšinák)

*Canestrinia vlachiana* Samšinák, 1971: 169

*Percanestriniella vlachiana* Khaustov & Eidelberg, 2001: 34

Type locality: Jalloori, Kulu (Kashmir)

Distribution: India (Kashmir)

Hosts: *Carabus (Imaibius) boysi*, *C. (I.) stoliczkanus* (Coleoptera: Carabidae)

Genus ***Peruthiana*** Haitlinger

*Peruthiana* Haitlinger, 2008: 69

Type species: *Peruthiana briannae* Haitlinger, 2008

***Peruthiana briannae*** Haitlinger

*Peruthiana briannae* Haitlinger, 2008: 69

Type locality: Peru

Distribution: Peru

Host: undetermined Hispinae (Coleoptera: Chrysomelidae)

Genus ***Phaleratus*** Nesbitt

*Phaleratus* Nesbitt, 1976: 233

Type species: *Phaleratus fentoni* Nesbitt, 1976

***Phaleratus alatus*** Summers et Schuster

*Phaleratus alatus* Summers & Schuster, 1982a: 29

Type locality: Anomali Hills, Madras

Distribution: India

Host: *Pleurarius brachyphyllus* (Coleoptera: Passalidae)

***Phaleratus fentoni*** Nesbitt

*Phaleratus fentoni* Nesbitt, 1976: 233

Type locality: Baiyer River Bird of Paradise Sanctuary, Mt. Hagen Area

Distribution: Papua New Guinea

Host: Coleoptera

Genus ***Phelliculophela*** Haitlinger

*Phelliculophela* Haitlinger, 1993a: 9

Type species: *Phelliculophela roaldi* Haitlinger, 1993

***Phelliculophela roaldi*** Haitlinger

*Phelliculophela roaldi* Haitlinger, 1993a: 9

Type locality: Cameroon

Distribution: Cameroon

Host: *Goliathus goliathus* (Coleoptera : Scarabaeidae, Cetoniinae)

Genus ***Photia*** Oudemans

*Photia* Oudemans, 1904: 192

Type species: *Canestrinia procustidis* Berlese, 1881

*Eucanestrinia* Berlese, 1911: 184

Type species: “*Canestrinia procrusti*”

***Photia adolfinae*** Haitlinger

*Photia adolfinae* Haitlinger, 1988 (sub “*polymorpha*”; 1994a: 202)

*Photia adolphinae* Haitlinger: Khaustov & Edelberg, 2001: 30; Trach, 2006: 175

Type locality: Narewka, voi. Bialystok, and many other localities in Poland

Distribution: Byelorussia, Poland, Crimea

Hosts: *Carabus* (*C.*) *glabratus*, *C. gyllenhali* (Coleoptera: Carabidae)

***Photia bardoica*** Haitlinger

*Photia bardoica* Haitlinger, 1988: 321; 1995b: 261; 2012: 189

Type locality: Poland

Distribution: Austria, Poland

Host: *Carabus nemoralis* (Coleoptera: Carabidae)



***Photia bilkorum*** Samšínák

*Photia bilkorum* Samšínák, 1971: 199; Haitlinger, 2012: 190

Type locality: Abhasia

Distribution: Abhasia, Russia

Hosts: *Carabus (Tribax) protensis*, *C. (T.) komarovi*, *C. (T.) shamyli*, *C. (T.) plasoni*  
(Coleoptera: Carabidae)

***Photia chrysocarabi*** Cooreman

*Photia chrysocarabi* Cooreman, 1950: 34; Samšínák, 1971: 193; Haitlinger, 1988d; 1995b:  
262; 2012: 188; Trach, 2006: 176

Type locality: Arlon (Belgium)

Distribution: Austria, Belgium, Czech Rep., England, France, Germany, Poland, Slovakia,  
Ukraine

Hosts: *Carabus auratus*, *C. irregularis*, *C. nemoralis*, *C. scheidleri*, *Chrysocarabus auronitens*  
(Coleoptera: Carabidae)

***Photia graeca*** Cooreman

*Photia graeca* Cooreman, 1958: 1; Samšínák, 1965: 143; 1971: 189

Type locality: Philothée nr. Athens

Distribution: Belgium, England, France, Greece (incl. Rhodos), Holland, Turkey

Hosts: *Carabus c. coriaceus*, *C. coriaceus foudrasi*, *C. c. kindermanni*, *C. c. impudicus*, *C. violaceus purpurascens* (Coleoptera: Carabidae)

***Photia hejniana*** Samšínák

*Photia hejniana* Samšínák, 1971: 193; Haitlinger, 1988d; 1995b: 261; 2012: 189; Trach, 2006: 176

Type locality: Sobotka

Distribution: Austria, Croatia, Czech Rep., Moldova, Poland, Slovakia, Slovenia, Ukraine

Hosts: *Carabus alpestris hoppei*, *C. coriaceus*, *C. croaticus*, *C. violaceus*, *C. v. exasperates*,  
*C. v. fioris*, *C. v. obliquus*, *C. v. savinicus*, *C. v. styriensis* (Coleoptera: Carabidae)

***Photia hermengildae*** Haitlinger

*Photia hermengildae* Haitlinger, 1988: 319; 2012: 189

Type locality: Huta Szklana, Gory Swietokrzyskie, Voivodeship Kielce

Distribution: Poland, Ukraine

Host: *Carabus linnaei* (Coleoptera: Carabidae)

***Photia howdeni*** Nesbitt

*Photia howdeni* Nesbitt, 1976: 223

Type locality: Baiyer River Bird of Paradise Sanctuary, Mt. Hagen Area

Distribution: Papua New Guinea

Host: Coleoptera

***Photia javensis*** (Oudemans)

*Canestrinia javensis* Oudemans, 1923b: 203

*Photia javensis* (Oudemans)

Type locality: Java, Soember Pakel, Probolingo

Distribution: Indonesia (Java)

Host: Coleoptera

***Photia lopatini*** Khaustov et Eidelberg

*Photia lopatini* Khaustov & Eidelberg, 2001: 26

Type locality: Sakhalin Is., Krasnoselskaya river bank

Distribution: Russia (Sakhalin)

Host: *Carabus* (*Acoptolabrus*) *lopatini* (Coleoptera: Carabidae)

***Photia lusitanica*** Samšinak

*Photia lusitanica* Samšinak, 1971: 189

Type locality: Sierra de Queija, Prov. Orense, Spain

Distribution: Portugal, Spain

Hosts: *Carabus* (*Oreocarabus*) *amplipennis*, *Carabus* (*Mesocarabus*) *lusitanicus breuningi*,  
*C. (M.) lusitanicus helluo*, *C. (M.) lusitanicus castilianus*, *C. (M.) lusitanicus logronicus*,  
*C. (M.) lusitanicus schaumii* (Coleoptera: Carabidae)

***Photia melchiori*** Haitlinger

*Photia melchiori* Haitlinger, 1998: 2; 2012: 191

Type locality: China

Distribution: China

Host: *Carabus* sp. (Coleoptera: Carabidae)

***Photia pacifica*** Khaustov et Eidelberg

*Photia pacifica* Khaustov & Eidelberg, 2001: 28

Type locality: Kuril Is. (Kunashir Is., Golovnin volcano)

Distribution: Russia (Kuril Is.)

Host: *Carabus* (*Megodontus*) *kolbei* (Coleoptera: Carabidae)

***Photia polymorpha*** Samšinák

*Photia polymorpha* Samšinak, 1971: 184; Khaustov & Eidelberg, 2001: 31; Trach, 2006:  
175; Haitlinger, 2012: 191

Type locality: Ulbinskoe, Siberia

Distribution: Japan, Korea, Russia (Siberia), Ukraine, Crimea

Host: holotype from *Carabus* (*Megodontus*) *imperialis* (Coleoptera: Carabidae). Reported also from other species of the genus *Carabus*, but, according to Khaustov & Eidelberg (2001), the mites collected from them may represent other species.

***Photia procera*** (Berlese)

*Canestrinia (Eucanestrinia) procera* Berlese, 1911: 184

*Photia procera procera* (Berlese): Samšinák, 1964: 35

*Photia procera* (Berlese): Cooreman, 1950: 26; Beron, 1971: 205; Haitlinger, 2012: 192

Type locality: “Carniolia” (Slovenia)

Distribution: Bulgaria, Slovenia (“Carniolia”), Italy

Hosts: *Carabus (Procerus) caucasicus*, *C. (P.) gigas*, *C. (P.) scabrosus*, *Carabus (Procrustes) coriaceus* (Coleoptera: Carabidae)

***Photia procera adanensis*** Samšinák

*Photia procera adanensis* Samšinák, 1964: 36

Type locality: Adana

Distribution: Turkey

Host: *Carabus (Procerus) scabrosus transversalis* (Coleoptera: Carabidae)

***Photia procera marani*** Samšinák

*Photia procera mařani* Samšinák, 1964: 37

Type locality: Lebanon

Distribution: Lebanon

Host: *Carabus (Procerus) syriacus* (Coleoptera: Carabidae)

***Photia procera turcica*** Samšinák

*Photia procera turcica* Samšinák, 1964: 35

Type locality: Turkey

Distribution: Turkey

Host: *Carabus (Procerus) scabrosus caucasicus* (Coleoptera: Carabidae)

***Photia procutidis*** (Berlese)

*Canestrinia procutidis* Berlese, 1881: 749

*Canestrinia procrusti* Berlese, 1892; Canestrini, 1897

*Photia procrusti* (Berlese): Oudemans, 1904: 192

*Photia procutidis* (Berlese): Oudemans, 1904; 1923b: 203; Samšinák, 1965: 140; 1971; Haitlinger, 2012: 190

*Eucanestrinia procrusti* Berlese, 1911: 184

*Eucanestrinia procutidis* Vitzthum, 1925: 48

Type locality: Italy

Distribution: Albania, Cyprus, Greece (incl. Crete, Rhodes), Israel, Italy, Lebanon, Slovakia, Turkey, former Yugoslavia

Hosts: *Carabus anatolicus*, *C. coriaceus*, *C. impressus* (Coleoptera: Carabidae)

***Photia saetolata*** (Cooreman)

*Percanestrinia saetolata* Cooreman, 1950: 42; 1954: 85

*Photia saetolata* (Cooreman): Samšinák, 1965: 145; 1971: 197

Type locality: Belgium

Distribution: Belgium, Czech Rep., France, Germany, Great Britain, Holland

Hosts: *Carabus (Procrustes) c. coriaceus*, *C. violaceus purpurascens*, *C.v. exasperaus*, *C.v. bicinctus*, *C.v. fulgens* (Coleoptera: Carabidae)

***Photia sibirica*** Khaustov et Eidelberg

*Photia sibirica* Khaustov & Eidelberg, 2001: 23

Type locality: Novosibirskaya Obl., Togoochinskiy Reg., Kotorovo Village

Distribution: Russia

Host: *Carabus (Megodontus) schoenherri* (Coleoptera: Carabidae)

Genus ***Phriknodora*** Summers et Schuster

*Phriknodora* Summers & Schuster, 1982b: 43

Type species: *Phriknodora pustulosa* Summers & Schuster, 1982

***Phriknodora avae*** Haitlinger

*Phriknodora avae* Haitlinger, 1994b: 81

Type locality: Costa Rica

Distribution: Costa Rica

Host: *Stolas lebesi* (Coleoptera: Chrysomelidae)

***Phriknodora pustulosa*** Summers et Schuster

*Phriknodora pustulosa* Summers & Schuster, 1982b: 43

Type locality: Oaxaca

Distribution: Mexico, Panama

Hosts: *Brazilianus mexicanus*, *B. batus* (Coleoptera: Cerambycidae)

***Phriknodora scabra*** Summers et Schuster

*Phriknodora scabra* Summers & Schuster, 1982b: 46

Type locality: South Africa

Distribution: South Africa

Host: *Trachyderes succinctus* (Coleoptera: Cerambycidae)

Genus ***Procericola*** Cooreman

*Procericola* Cooreman, 1950: 44

Type species: *Procericola ichthyoides* Cooreman, 1950

***Procericola bourgognei*** (Oudemans)

*Photia bourgognei* Oudemans, 1923b: 203

*Caraboecius coriacei* Cooreman, 1950: 19

*Caraboecius bourgognei* Cooreman, 1954: 87

*Procericola bourgognei* (Oudemans): Samšinák, 1965: 138; 1971; Beron, 1971: 205; Lundquist, 1985: 381; Khaustov & Eidelberg, 2001: 39; Trach, 2006: 175

Type locality: France (Bourgogne)

Distribution: Albania, Belgium, Bulgaria, Caucasus, former Yugoslavia, France, Greece, Hungary, Italy, Moldova, Romania, Russia, Slovakia, Sweden, Turkey, Ukraine

Hosts: *Carabus coriaceus*, *Carabus (Procrustes) ch. chevrolati*, *C. (P.) clypeatus clypeatus*, *C. (Megodontus) exaratus* (Coleoptera: Carabidae)

***Procericola ichthyoides*** Cooreman

*Procericola ichthyoides* Cooreman, 1950: 44

*Procericola ichthyoides ichthyoides* Cooreman: Samšinák, 1964: 38

Type locality: “Carniolia, Yougoslavie et Tolmezzo, Torrente Vinadia, Carnia”

Distribution: Italy, Slovenia

Host: *Carabus (Procerus) gigas* (Coleoptera: Carabidae)

***Procericola ichthyoides scabricola*** Samšinák

*Procericola ichthyoides scabricola* Samšinák, 1964: 38

Type locality: Caucasus, Mekish Mt.

Distribution: Bulgaria, Russia, Turkey

Hosts: *Carabus (Procerus) scabrosus transversalis* (Coleoptera: Carabidae)

***Procericola ichthyoides transversicola*** Samšinák

*Procericola ichthyoides transversicola* Samšinák, 1964: 40

Type locality: “Cilicien”

Distribution: Turkey

Hosts: *Carabus (Procerus) scabrosus transversalis* (Coleoptera: Carabidae)

Genus ***Pseudamansia*** Cooreman

*Pseudamansia* Cooreman, 1950: 5

Type species: *Dermaleichus chrysomelinus* Koch, 1841

***Pseudamansia chrysomelinus*** (C.L. Koch)

*Dermaleichus chrysomelinus* C.L. Koch, 1841: 4

*Amansia chrysomelinus*: Oudemans, 1923:

*Pseudamansia chrysomelinus* (C.L. Koch): Cooreman, 1950: 5; Jolivet, 1952, 1954; Theodorides, 1955; Santiago-Blay & Fain, 1994: 412

*Pseudamansia chrysomelina* (C.L. Koch): Bernini,

Type locality: various places in France (Neotype)

Distribution: Belgium, France, Algeria, Morocco, Mayorca Is., Italy

Hosts: *Timarcha atlantica*, *T. balearica*, *T. goettingensis*, *T. interstitialis*, *T. nicaeensis*, *T. pauperata*, *T. punctella*, *T. rugosa*, *T. tenebricosa* (Coleoptera: Chrysomelidae)

***Pseudamansia decorata*** Trach et Khaustov

*Pseudamansia decorata* Trach & Khaustov, 2007: 269

Type locality: Odessa and Vinnica regions

Distribution: Ukraine

Host: *Timarcha goettingensis* (Coleoptera: Chrysomelidae)

Genus ***Pseudocanestrinia*** Khaustov et Eidelberg

*Pseudocanestrinia* Khaustov & Eidelberg, 2001: 31

Type species: *Pseudocanestrinia carabi* Khaustov et Eidelberg, 2001

***Pseudocanestrinia berndi*** (Haitlinger)

*Canestrinia berndi* Haitlinger, 1995: 260

*Pseudocanestrinia berndi* (Haitlinger): Khaustov & Eidelberg, 2001: 34

Type locality: Jablanica (Herzegovina)

Distribution: Bosna and Herzegovina, Crimea

Hosts: *Carabus latenuatus plassensis*, *C. gyllenhali* (Coleoptera: Carabidae)

***Pseudocanestrinia carabi*** Khaustov et Eidelberg

*Pseudocanestrinia carabi* Khaustov & Eidelberg, 2001: 33; Trach, 2006: 175

Type locality: Crimean mountains 'Ay-Petri'

Distribution: Crimea

Host: *Carabus (C.) bessarabicus* (Coleoptera: Carabidae)

***Pseudocanestrinia mahunkai*** (Samšinák)

*Canestrinia mahunkai* Samšinák, 1971: 160; Haitlinger, 1988

*Pseudocanestrinia mahunkai* (Samšinák): Khaustov & Eidelberg, 2001: 32; Haitlinger, 2012: 186

Type locality: Balatonaracs (Hungary)

Distribution: Hungary, Poland

Host: *Carabus coriaceus* (Coleoptera: Carabidae)

***Pseudocanestrinia occidentalis*** (Samšinák)

*Canestrinia occidentalis* Samšinák, 1971: 155

*Pseudocanestrinia occidentalis* (Samšinák): Khaustov & Eidelberg, 2001: 32

Type locality: La Lourde

Distribution: France

Host: *Carabus (Chrysocarabus) auronitens* (Coleoptera: Carabidae)

***Pseudocanestrinia orientalis*** (Samšinák)*Canestrinia orientalis* Samšinák, 1971: 157*Pseudocanestrinia orientalis* (Samšinák): Khaustov & Eidelberg, 2001: 32

Type locality: "Carniolia"

Distribution: Slovenia

Hosts: *Carabus (Megodontus) caelatus*, *C. (M.) croaticus* (Coleoptera: Carabidae)Genus ***Pseudoparaphagella*** Haitlinger*Pseudoparaphagella* Haitlinger, 2010: 58Type species: *Pseudoparaphagella gerardi* Haitlinger, 2010***Pseudoparaphagella gerardi*** Haitlinger*Pseudoparaphagella gerardi* Haitlinger, 2010: 58

Type locality: Guinea

Distribution: Guinea

Host: *Caelorrhina thoreyi* (Coleoptera: Scarabaeidae, Cetoniinae)Genus ***Rugoniphela*** Haitlinger*Rugoniphela* Haitlinger, 1992b: 533Type species: *Rugoniphela marloni* Haitlinger, 1992***Rugoniphela marloni*** Haitlinger*Rugoniphela marloni* Haitlinger, 1992b: 534

Type locality: holotype from Borneo, paratypes from Java and Sumatra

Distribution: Indonesia (Borneo, Java, Sumatra)

Host: *Eurytrachelus bucephalus* (Coleoptera: Lucanidae)Genus ***Sabothiana*** Haitlinger*Sabothiana* Haitlinger, 1993e: 269Type species: *Sabothiana riccardoi* Haitlinger, 1993***Sabothiana boi*** Haitlinger*Sabothiana boi* Haitlinger, 1993e: 272

Type locality: Bahia

Distribution: Brazil

Host: *Charidotis* sp. (Coleoptera: Chrysomelidae, Cassidinae)***Sabothiana reidari*** Haitlinger*Sabothiana reidari* Haitlinger, 1993e: 273

Type locality: Bocaina

Distribution: Brazil

Host: *Charidotella kesseli* (Coleoptera: Chrysomelidae, Cassidinae)

***Sabothiana riccardoi*** Haitlinger

*Sabothiana riccardoi* Haitlinger, 1993e: 271

Type locality: Brazil

Distribution: Brazil

Host: *Charidotis furunculus* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Sajanophela*** Haitlinger

*Sajanophela* Haitlinger, 1990b: 545

Type species: *Sajanophela alfredae* Haitlinger, 1990

***Sajanophela alfredae*** Haitlinger

*Sajanophela alfredae* Haitlinger, 1990b: 545

Type locality: Papua New Guinea

Distribution: Papua New Guinea

Host: *Protomocelus australis* (Coleoptera: Passalidae)

Genus ***Sandrophela*** Haitlinger

*Sandrophela* Haitlinger, 1990: 315

Type species: *Sandrophela kokodaica* Haitlinger, 1990

***Sandrophela amarae*** Haitlinger

*Sandrophela amarae* Haitlinger, 1994a: 197

Type locality: East Java, Sumatra

Distribution: Indonesia (Java, Sumatra)

Host: *Eurytrachelus eurycephalus*, *E. gypeatus* (Coleoptera: Lucanidae)

***Sandrophela dittae*** Haitlinger

*Sandrophela dittae* Haitlinger, 1992: 282

Type locality: Borneo

Distribution: Indonesia

Host: *Colydium* sp. (Coleoptera: Colydiidae)

***Sandrophela hugoni*** Haitlinger

*Sandrophela hugoni* Haitlinger, 1994a: 194

Type locality: Sumatra

Distribution: Indonesia (Sumatra)

Host: *Odontolabis wollastoni* (Coleoptera: Lucanidae)

***Sandrophela kokodaica*** Haitlinger

*Sandrophela kokodaica* Haitlinger, 1990e: 316

Type locality: Kokoda



Distribution: Papua New Guinea  
 Host: *Passandra trigemina* (Coleoptera: Passandridae)

***Sandrophela rodioni*** Haitlinger

*Sandrophela rodioni* Haitlinger, 1993b: 342  
 Type locality: North Vietnam, Monte Mouson  
 Distribution: Vietnam  
 Host: *Eurytrachelus platymelus* (Coleoptera: Lucanidae)

***Sandrophela sophiae*** Haitlinger

*Sandrophela sophiae* Haitlinger, 1994a: 196  
 Type locality: India  
 Distribution: India  
 Host: *Hemisodorcus chevrilati* (Coleoptera: Lucanidae)

***Sandrophela spectanda*** (Berlese)

*Canestrinia spectanda* Berlese, 1910: 269  
*Sandrophela spectanda* (Berlese): Haitlinger, 1994a: 199  
 Type locality: Java  
 Distribution: Indonesia (Java, Sumatra)  
 Host: *Dorcus bucephalus* (Coleoptera: Lucanidae)

Genus ***Saniothiana*** Haitlinger

*Saniothiana* Haitlinger, 1990e: 317  
 Type species: *Saniothiana pycnosa* Haitlinger, 1990

***Saniothiana barumbaica*** Haitlinger

*Saniothiana barumbaica* Haitlinger, 1990e: 320  
 Type locality: Barumba  
 Distribution: Cameroon  
 Host: *Odontopezus cupreus lucens* (Coleoptera: Tenebrionidae)

***Saniothiana pycnosa*** Haitlinger

*Saniothiana pycnosa* Haitlinger, 1990e: 318  
 Type locality: Africa  
 Distribution: Africa  
 Host: *Pycnocerus* sp. (Coleoptera: Tenebrionidae)

Genus ***Scarabiphotia*** Haitlinger

*Scarabiphotia* Haitlinger, 1994a: 205  
 Type species: *Scarabiphotia vignoni* Haitlinger, 1994

***Scarabiphotia vignoni*** Haitlinger

*Scarabiphotia vignoni* Haitlinger, 1994a: 205

Type locality: unknown

Distribution: unknown

Host: *Scarabaeus variolosus* (Coleoptera: Scarabaeidae)

Genus ***Shillongia*** Haitlinger

*Shillongia* Haitlinger, 1990b: 546

Type species: *Shillongia marzenae* Haitlinger, 1990

***Shillongia marzenae*** Haitlinger

*Shillongia marzenae* Haitlinger, 1990b: 546

Type locality: Assam, Shillong

Distribution: India (Assam)

Host: *Leptaulus indicus* (Coleoptera: Passalidae)

Genus ***Sorbinophela*** Haitlinger

*Sorbinophela* Haitlinger, 1993a: 7

Type species: *Sorbinophela sandyi* Haitlinger, 1993

***Sorbinophela sandyi*** Haitlinger

*Sorbinophela sandyi* Haitlinger, 1993a: 7

Type locality: nr. Lake Ngami

Distribution: Botswana

Host: *Poecilophila maculatissima* (Coleoptera : Scarabaeidae, Cetoniinae)

Genus ***Tamarangia*** Haitlinger

*Tamarangia* Haitlinger, 1991d: 284

Type species: *Tamarangia nimfae* Haitlinger, 1992

***Tamarangia ethiopica*** Khaustov

*Tamarangia ethiopica* Khaustov, 2006: 79

Type locality: Ethiopia

Distribution: Ethiopia

Host: *Pachnoda marginata* (Coleoptera: Scarabaeidae, Cetoniinae)

***Tamarangia fabiolae*** Haitlinger

*Tamarangia fabiolae* Haitlinger, 1991d: 286

Type locality: Freetown

Distribution: Sierra Leone

Host: *Pachnoda marginata* (Coleoptera: Scarabaeidae, Cetoniinae)

***Tamarangia flawiani*** Haitlinger*Tamarangia flawiani* Haitlinger, 1991d: 287

Type locality: Freetown

Distribution: Sierra Leone

Host: *Pachnoda marginata* (Coleoptera: Scarabaeidae, Cetoniinae)***Tamarangia nimfae*** Haitlinger*Tamarangia nimfae* Haitlinger, 1991d: 284; Haitlinger & Chmielewski, 2004: 199

Type locality: Ethiopia

Distribution: Ethiopia, South Africa

Host: *Pachnoda thoracica* (Coleoptera: Scarabaeidae, Cetoniinae)Genus ***Tamarophela*** Haitlinger*Tamarophela* Haitlinger, 1990b: 537Type species: *Tamarophela batjanica* Haitlinger, 1990***Tamarophela batjanica*** Haitlinger*Tamarophela batjanica* Haitlinger, 1990b: 537

Type locality: Moluccas, Batjan Is.

Distribution: Indonesia (Moluccas, Batjan Is.)

Host: undetermined Passalidae (Coleoptera)

Genus ***Taseopus*** Summers et Schuster*Taseopus* Summers & Schuster, 1982a: 27Type species: *Taseopus platythrix* Summers et Schuster, 1982***Taseopus platythrix*** Summers et Schuster*Taseopus platythrix* Summers & Schuster, 1982a: 27

Type locality: Queensland

Distribution: Australia

Host: Passalidae gen. sp. (Coleoptera)

Genus ***Teklathiana*** Haitlinger*Teklathiana* Haitlinger, 1999: 36Type species: *Teklathiana onnae* Haitlinger, 1999***Teklathiana conula*** (Summers et Schuster)*Grandiella conula* Summers & Schuster, 1979: 341*Grandiellina conula*: Santiago-Blay & Fain, 1994:

*Ennodithiana conula* (Summers & Schuster): Haitlinger 1993: 72

*Teklathiana conula* (Summers et Schuster): Haitlinger, 1999: 40

Type locality: Panama (El Cope)

Distribution: Panama

Host: *Omaspides bistrinata* (Coleoptera: Chrysomelidae, Cassidinae)

***Teklathiana onnae*** Haitlinger

*Teklathiana onnae* Haitlinger, 1999: 37; 2001: 103

Type locality: holotype from Colombia, paratype from Bolivia

Distribution: Bolivia, Colombia

Host: *Acromis sparsa* (Coleoptera: Chrysomelidae, Cassidinae)

***Teklathiana rugosita*** (Summers et Schuster)

*Grandiella rugosita* Summers & Schuster, 1979: 343

*Teklathiana rugosita* (Summers et Schuster): Haitlinger, 1999: 40

Type locality: Panama (Canal Zone and Panama City)

Distribution: Panama

Host: *Acromis sparsa* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Teophyssa*** Haitlinger

*Teophyssa* Haitlinger, 1990b: 544

Type species: *Teophyssa honoratae* Haitlinger, 1990

***Teophyssa beatae*** Haitlinger

*Teophyssa beatae* Haitlinger, 1990b: 544

Type locality: Sumatra, Bekantiang

Distribution: Indonesia (Sumatra)

Host: undetermined Passalidae (Coleoptera)

***Teophyssa honoratae*** Haitlinger

*Teophyssa honoratae* Haitlinger, 1990b: 544

Type locality: North Sumatra

Distribution: Indonesia (Sumatra)

Host: *Gonatus noviculator* (Coleoptera: Passalidae)

***Teophyssa teresae*** Haitlinger

*Teophyssa teresae* Haitlinger, 1990b: 545

Type locality: Sumatra, Soekaranda

Distribution: Indonesia (Sumatra)

Host: undetermined Passalidae (Coleoptera)

**Genus *Thopia* Summers et Schuster**

*Thopia* Summers & Schuster, 1982b: 35

Type species: *Thopia tenax* Summers et Schuster, 1982

***Thopia amedae* Haitlinger**

*Thopia amedae* Haitlinger, 1993e: 268

Type locality: Cayenne

Distribution: French Guiana

Host: *Eugenysa venosa* (Coleoptera: Chrysomelidae, Cassidinae)

***Thopia boguwolae* Haitlinger**

*Thopia boguwolae* Haitlinger, 1993e: 266

Type locality: Brazil

Distribution: Brazil

Host: *Polychalca punctatissima* (Coleoptera: Chrysomelidae, Cassidinae)

***Thopia bulbocaudata* Summers et Schuster**

*Thopia bulbocaudata* Summers & Schuster, 1982b: 37

Type locality: Panama

Distribution: Panama

Host: *Neoptychodes trilineatus* (Coleoptera: Cerambycidae, Lamiinae)

***Thopia corinnae* Haitlinger**

*Thopia corinnae* Haitlinger, 1993e: 268

Type locality: Bahia

Distribution: Brazil

Host: *Polychalca dentipennis* (Coleoptera: Chrysomelidae, Cassidinae)

***Thopia pannucea* Summers et Schuster**

*Thopia pannucea* Summers & Schuster, 1982b: 41

Type locality: Panama

Distribution: Panama

Host: *Lagocheirus foveolatus* (Coleoptera: Cerambycidae, Lamiinae)

***Thopia tenax* Summers et Schuster**

*Thopia tenax* Summers & Schuster, 1982b: 37

Type locality: Canal Zone

Distribution: Panama

Host: *Taeniodes scalaris* (Coleoptera: Cerambycidae)

**Genus *Uriophela* Haitlinger**

*Uriophela* Haitlinger, 1992b: 539

Type species: *Uriophela arieli* Haitlinger, 1992

***Uriophela arieli*** Haitlinger

*Uriophela arieli* Haitlinger, 1992b: 540

Type locality: Amur District (Russia)

Distribution: Russia (Far East)

Host: *Hemisodorcus* [*Macrodera*] *rubrofemoratus* (Coleoptera: Lucanidae)

Genus ***Vandeinella*** Haitlinger

*Vandeinella* Haitlinger, 1989a: 54

Type species: *Vandeinella adriasae* Haitlinger, 1989

***Vandeinella adriasae*** Haitlinger

*Vandeinella adriasae* Haitlinger, 1989a: 54

Type locality: Sumatra

Distribution: Indonesia (Sumatra)

Host: *Trichogomphus milon* (Coleoptera: Scarabaeidae, Dynastinae)

***Vandeinella opressa*** Haitlinger

*Vandeinella opressa* Haitlinger, 1989a: 55

Type locality: Borneo

Distribution: ? Indonesia (Borneo)

Host: *Trichogomphus lunicollis* (Coleoptera: Scarabaeidae, Dynastinae)

Subfam. ***Vereoxiinae*** Haitlinger

*Vereoxiinae* Haitlinger, 1995a: 80

Type genus: *Vereoxia* Haitlinger, 1995

Genus ***Vereoxia*** Haitlinger

*Vereoxia* Haitlinger, 1995a: 80

Type species: *Vereoxia bogeri* Haitlinger, 1995

***Vereoxia bogeri*** Haitlinger

*Vereoxia bogeri* Haitlinger, 1995a: 80

Type locality: unknown

Distribution: unknown

Host: Lucanidae gen. sp. (Coleoptera)

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(Names in bold are accepted as valid)

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## Distribution of Canestriniidae

### EUROPE

- Albania** (Samšinák, 1965) – *Photia procustidis*, *Procericola bourgognei*  
**Austria** (Samšinák, 1971; Haitlinger, 1990d, 1995b) - *Coleopterophagus albini*, *Photia bardoica*, *Ph. chrysocarabi*, *Ph. hejniana*  
**Belgium** (Cooreman, 1950; Fain, Noti & Dufrêne, 1995) - *Photia chrysocarabi*, *Ph. saetolata*, *Procericola bourgognei*, *Pseudamansia chrysomelinus*  
**Bosna and Herzegovina** (Samšinák, 1971; Haitlinger, 1995b) – *Dicanestrinia knobi*, *Pseudocanestrinia berndi*, *P. carabi*

- Bulgaria** (Samšinák, 1970; Beron, 1971, 1975) – *Ibizella* [Canestrinia] *samsinaki*, *Percanestrinia blaptis*, *Procericola bourgognei*, *P. ichthyoides*, *Photia procera*
- Byelorussia** (Khaustov & Eidelberg, 2001) – *Dicanestrinia huberti*, *Photia adolphinae*
- Crimea** (Khaustov & Eidelberg, 2001) – *Amansiella trilobata*, *Canestrinia damiani*, *C. dorcicola*, *Paramansia bicornis*, *Paraphotia calosomae*, *Photia polymorpha*, *Pseudocanestrinia berndti*, *P. carabi*
- Croatia** (Samšinák, 1971; Haitlinger, 1990d) – *Coleopterophagus megnini*, *Photia hejniana*
- Czech Rep.** (Samšinák, 1965, 1971; Haitlinger, 1990d) – *Coleopterophagus albini*, *C. megnini*, *Dicanestrinia knobi*, *Percanestrinia sellnicki*, *Photia chrysocarabi*, *Ph. hejniana*, *Ph. saetolata*
- Denmark** (Haitlinger, 2017) – *Paracanestrinia denmarkica*
- Estonia** (Haitlinger, 2015) – *Coleopterophagus albini*
- France** (contin.) (Oudemans, 1923; Cooreman, 1950; Jolivet, 1950, 1954; Samšinák, 1970, 1971) – *N. jureceki*, *Paramansia menthastri*, *Percanestrinia blaptis*, *Photia chrysocarabi*, *Ph. saetolata*, *Procericola bourgognei*, *Pseudocanestrinia occidentalis*, *Pseudamansia chrysomelinus*
- Corsica** (Haitlinger, 1992a) – *Canestrinia carabicola*, *Percanestrinia maroccana*
- Georgia** (Samšinák, 1971; Haitlinger, 1992a) – *Percanestrinia blaptis*, *Photia bilkorum*
- Germany** (Pope, 1907; Rack, 1968; Samšinák, 1965, 1970; Haitlinger, 1992a) – *Coleopterophagus albini*, *Percanestrinia blaptis*, *Procericola bourgognei*, *Photia chrysocarabi*, *Ph. saetolata*
- Great Britain** (Turk, 1953; Evans, Sheals & Macfarlane, 1961; Samšinák, 1965, 1971) – *Canestrinia dorcicola*, *Coleopterophagus megnini*, *Percanestrinia blaptis*, *Photia chrysocarabi*, *Ph. saetolata*
- Greece** (Cooreman, 1958; Samšinák, 1965) – *Photia graeca*, *Ph. procustidis*, *Procericola bourgognei*
- Crete** (Samšinák, 1965) – *Photia procustidis*
- Rhodos** (Samšinák, 1965) – *Photia procustidis*
- Holland** (Buitendijk, 1945; Cooreman, 1954; Samšinák, 1965; Siepel, Cremers & Vierbergen, 2016) – *Canestrinia dorcicola*, *Coleopterophagus megnini*, *Photia saetolata*
- Hungary** (Samšinák, 1965; Haitlinger, 1989, 1990d; 1992a) – *Canestrinia damiani*, *Coleopterophagus megnini*, *Percanestrinia blaptis*, *P. sellnicki*, *Procericola bourgognei*,
- Italy** (contin.) (Berlese, 1881; Lombardini, 1943; Cooreman, 1950; Haitlinger, 1990d, 1992a, 2004) – *Canestrinia carabicola*, *C. dorcicola*, *Coleopterophagus donaldi*, *C. megninii*, *Dicanestrinia knobi*, *Percanestrinia blaptis*, *P. maroccana*, *Photia procera*, *Ph. procustidis*, *Procericola bourgognei*, *P. ichthyoides*, *Pseudamansia chrysomelinus*
- Sicily** (Haitlinger, 1990d) – *Canestrinia carabicola*, *Coleopterophagus megnini*,
- Sardinia** (Canestrini & Berlese, 1880; Vitzthum, 1924) – *Canestrinia carabicola*, *Percanestrinia blaptis*, *P. sardica*
- Moldova** (Trach, 2006) – *Percanestrinia sellnicki*, *Photia hejniana*, *Procericola bourgognei*
- Norway** (Haitlinger, 2015) – *Coleopterophagus albini*
- Poland** (Haitlinger, 1988a, 1988b, 1988c, 1988d, 1989, 1990c, 1990d, 1991c, 1992a, 1994a, 2002, 2004, 2012) – *Canestrinia dorcicola*, *Coleopterophagus albini*, *C. megnini*, *Di-*



*canestrinia huberti*, *D. knobi*, *Percanestrinia blaptis*, *P. sellnicki*, *Photia adolfinae* (as “polymorpha”), *P. hejniana*, *P. chrysocarabi*, *P. hermengildae*, *P. bardoica*, *Pseudocanestrinia mahunkai*, *Procericola bourgognei*

**Portugal** (cont.) (Samšínák, 1971) – *Canestrinia hispanica*, *Neophotia drvotocka*

**Romania** (Samšínák, 1965; Haitlinger, 1990d) – *Coleopterophagus albini*, *C. maroni*, *Percanestrinia sellnicki*, *Procericola bourgognei*

**Russia** (all, continent.) (Samšínák, 1971; Haitlinger, 1992b; Khaustov & Eidelberg, 2001) – *Percanestriniella caucasica*, *Photia bilkorum*, *Ph. polymorpha*, *Ph. sibirica*, *Procericola bourgognei*, *Uriophela arieli*

**Kunashir I.** (Khaustov & Eidelberg, 2001) – *Photia pacifica*

**Sakhalin I.** (Khaustov & Eidelberg, 2001) – *Photia lopatini*

**Serbia** (Haitlinger, 19 ) – *Coleopterophagus megnini*

**Slovakia** (Haitlinger, 1990 ; Samšínák, 1965, 1971; Zamec, 2014) – *Coleopterophagus albini*, *Percanestrinia selnicki*, *Photia chrysocarabi*, *Ph. hejniana*, *Ph. procustidis*, *Procericola bourgognei*

**Slovenia** (Cooreman, 1950; Samšínák, 1971) – *Photia hejniana*, *Ph. procera*, *Procericola ichthyoides*, *Pseudocanestrinia orientalis*

**Spain** (cont.) (Jolivet, 1954; Samšínák, 1971) - *Canestrinia hispanica*, *Mesophotia p. penicillata*, *M. p. similis*, *Neophotia drvotocka*, *N. latissima*, *Photia lusitanica*, *Pseudamansia chrysomelinus*

**Balearic Is.** (Haitlinger, 1991a, 2001; Haitlinger & Šundić, 1918) - *Camirohylla feziana* [Ibiza, Formentera], *Ibizella samsinaki* [Ibiza], *I. balearica* [Ibiza], *Pseudamansia chrysomelinus* [Mayorca]

**Sweden** (Lundquist, 1985) – *Procericola bourgognei*

**Turkey** (all) (Samšínák, 1964, 1965, ; Haitlinger, 1990d) - *Coleopterophagus megnini*, *Photia graeca*, *Ph. procera adanensis*, *Ph. procera turcica*, *Ph. procustidis*, *Procericola bourgognei*, *P. ichthyoides scabricola*, *P. i. transversicola*

**Ukraine** (Haitlinger, 1990, 2002; Khaustov & Eidelberg, 2001; Samšínák, 1971; Trach, 2006; Trach & Khaustov, 2007, 2011) – *Amansiella trilobata*, *Canestrinia dorcicola*, *Coleopterophagus albini*, *C. donaldi*, *C. megnini*, *C. maroni*, *Dicanestrinia knobi*, *Pararamansia bicornis*, *Paraphotia calosomae*, *Percanestrinia blaptis*, *P. sellnicki*, *Photia adolfinae*, *Ph. hejniana*, *Ph. hermengildae*, *Ph. polymorpha*, *Procericola bourgognei*, *Pseudamansia decorata*, *Pseudocanestrinia carabi*, *P. berndi*

## AFRICA

**Algeria** (Jolivet, 1954) - *Pseudamansia chrysomelinus*

**Botswana** (Haitlinger, 1993) - *Sorbinophela sandyi*

**Burundi** (Haitlinger, 1993) - *Boetophila weneri*

**Cameroon** (Haitlinger, 1990, 1991, 1991d, 1993, 2011) - *Boetophela erhardi*, *Cetonicola isadorae*, *Paraphagella grimaldi*, *P. indirae*, *P. odae*, *Pheliculophela roaldi*, *Saniothiana barumbaica*

**Congo-Brazaville** (Haitlinger, 1991d) – *Cetonicola maritae*, *Paraphagella odae*

- Congo DR** (Cooreman, 1953, 1955; Haitlinger, 1995) - *Afrocanestrinia straeleni*, *Cetonicola hispidus*, *Coleopterophagus pulcher*, *Diplognatophilus africanus*, *Donnelaphontia suatotha*
- Egypt** (El-Bishlawy & Allam, 2003) - *Percanestrinia egypti*
- Ethiopia** (Haitlinger, 1990, 1991d, 1993; Khaustov, 2006) - *Barbiangia elongata*, *B. ethiopica*, *Diplognatophilus ethiopicus*, *Tamarangia ethiopica*, *T. nimfae*
- Ghana** (Haitlinger, 1991a, 1991d, 1993) - *Boetophela ephraimi*, *Boleohylla garrica*, *Cetonicola orestesi*
- Guinea** (Haitlinger, 2010) - *Pseudoparaphagella gerardi*
- Kenya** (Fain, 1987b) - *Diplopodoctes transkeiensis*
- Liberia** (Haitlinger, 1991d) - *Cetonicola orestesi*
- Madagascar** (Haitlinger, 1989a, 1990) - *Ambilohylla favosa*, *Athogavia nosiana*
- Morocco** (Cooreman, 1953; Samšínák, 1971; Haitlinger, 1991; Haitlinger & Šundić, 1918) - *Canestrinia hispanica*, *Camirohylla feziana*, *Globosophotia bettinae*, *Ibizella asilahica*, *Mesophotia penicillata tertia*, *Percanestrinia maroccana*, *Pseudamansia chrysomelinus*
- Senegal** (Haitlinger, 1995a) - *Afrocanestrinia samsoni*
- Sierra Leone** (Haitlinger, 1992) - *Tamarangia fabiolae*
- South Africa** (Trägårdh, 1906; Fain, 1987; Haitlinger, 1989, Haitlinger & Chmielewski, 2004) - *Boetophela cassandrae*, *B. ginae*, *Diplopodoctes transkeyensis*, *Megacane-strinia mucronata*, *Tamarangia nimfae*
- Sudan** (Trägårdh, 1904) - *Coleopterophagus quadrisetosus*
- Tanzania** (cont.) (Lavoipierre, 1958; Haitlinger, 1989, 1990b, 1991, 1995a) - *Afrocanestrinia rufinae*, *Athogavia gamana*, *A. tanzanica*, *Barbiangia alvari* [Zanzibar], *Megacane-strinia beloniana*, *Boetophela robertsoni*, *B. silvanae*, *B. sybillae*, *B. symeoni*, *Cetonicola vatus*, *Irmongia helgae*, *Olgattia useguaica*
- Zanzibar** (Haitlinger, 1993) - *Barbiangia alvari*
- Tunisia** (Samšínák, 1970; Haitlinger, 2000) - *Bircericola bertrami*, *Percanestrinia kamelskyi*
- Uganda** (Haitlinger, 1991) - *Boleohylla kiogana*
- “Africa”** (Berlese, 1910, 1920; Haitlinger, 1990) - *Canestrinia remigans*, *Coleopterophagus neglectus*, *Saniothiana pycnosa*

## ASIA

- China** (Samšínák, 1971; Haitlinger, 1990d, 1992a, 1994a, 1998; Fan, Chen & Wang, 2010) - *Beeriphotia volkeri*, *Canestrinia kacperi*, *C. paavoi*, *C. pekingensis*, *C. ramoni*, *Coleopterophagus belzebubi*, *C. rudolfi*, *Gioharattia maharae*, *Percanestrinia melchiori*, *P. viviannae*, *Photia melchiori*
- Hainan** (Summers & Schuster, 1982a;) - *Melisia sentosa*
- Taiwan** (Samšínák, 1971; Summers & Schuster, 1981a; Haitlinger, 1990d; Fan, Chen & Wang, 2010) - *Apalotacarus aristatus*, *C. cristatus*, *A. trullus*, *Canestrinia illegalis*, *Coleopterophagus belzebubi*, *Melisia superba*
- Cyprus** (Samšínák, 1965; Haitlinger, 1992a) - *Ibizella* [Canestrinia] *samsinaki*, *Percanestrinia blaptis*, *Photia procustidis*



- India** (Samšínák, 19 1971; Summers & Schuster, 1981a; Haitlinger, 1990, 1994a; Vishnu-priya & Mohanasundaram, 1988) - *Apalotacarus aristatus*, *A. echinatus*, *A. protensus*, *A. scissus*, “*Coleopterophagus procerus*”, *Canestriniella batocerae* (Tamil Nadu), *Melisia anomala*, *M. klapaleki*, *Percanestriniella vlachiana* (Kashmir), *Shillongia marzenae* (Assam), *Sandrophela sophiae*
- Indonesia** (Berlese, 1910; Samšínák, 1963, 1944; Summers & Schuster, 1981a; Haitlinger, 1989a, 1990b, 1991, 1992b, 1993b, 1994a, 1995) – *Albinorattia igori* [Batjan], *Amboinophela bernaie* [Amboina, New Guinea], *Apalotacarus aristatus* [Java], *A. fulgens* [Java], *A. sajanae* [Java], *Arraphosoma paraminax* [Mollucas], *Athogavia borneoica* [Borneo, presumably Kalimantan], *A. scagana* [Borneo, presumably Kalimantan], *Aurilossongia dioni*, *A. hoaria* [Kalimantan], *Canestriniella amplexans* [Java], *C. physsana* [Java], *C. elae*, *C. phoebinae* [Java], *C. togata phoebinae* [Java], *C. phoebinae* [Java], *Gioharattia maharae* [Borneo, presumably Kalimantan], *Hargeinella poppana* [Sumatra], *Hyllosihemia belerofoni* [Sumatra], *Lidiophela bognae*, *L. celinae*, *L. pelagiae*, *Melisia jadowigae* [Moluccas], *Melisia ariadnae*, *M. gabrielae*, *M. hieronimae*, *M. ingeborgae*, *M. irenae*, *M. lombardini*, *M. mariettae*, *M. melaniae*, *M. salomeae*, *M. sumatrae*, *Noemiphela barryi* [Sumatra], *N. izabelae* [Sulawesi], *Rugoniphela marloni* [Borneo, Java, Sumatra], *Sandrophela amarae* [Java, Sumatra], *S. hugoni* [Sumatra], *S. spectanda* [Java, Sumatra], *Tamarophela batianica* [Moluccas], *Vandeinella adriasae* [Sumatra], *V. opressa* [Borneo]
- Iran** (Haitlinger, 1990c; Ardeshir et al., 2016) – *Camirohylla* sp., *Coleopterophagus baali*
- Israel and Palestina** (Samšínák, 1965) - *Dicanestrinia knobi*, *Photia procustidis*
- Japan** (Kishida, 1924, Samšínák, 1971; Haitlinger, 1990d) - *Canestrinia pictura*, *Coleopterophagus belzebubi*, *Photia polymorpha*
- Kambodia** (Vomero, 1972) – *Melisia samsinaki*
- Kirghizstan** (Khaustov & Eidelberg, 2001) - *Percanestriniella levis*
- Korea** (Samšínák, 1971; Wontae Kim et al., 2006) - *Haitlingeria longilobata*, *Photia polymorpha*
- Lebanon** (Samšínák, 1964, 1965) - *Photia procera marani*, *Ph. procustidis*
- Malaysia** (cont.)
- Sarawak and Sabah** (Haitlinger, 1991) - *Rugoniphela marioni* [Borneo]
- Philippines** (Summers & Schuster, 1981a) - *Apalotacarus fusulus* [Mindoro], *A. scaurus* [Mindanao]
- Sri Lanka** (Haitlinger, 1989a) – *Gioharattia caroae*
- Syria** (Haitlinger, 1990d) – *Coleopterophagus dionizyi*, *C. maroni*,
- Taiwan** (Summers & Schuster, 1981a) – *Apalotacarus aristatus*, *A. trullus*
- Thailand** (Haitlinger, 1990) - *Melisia hieronimae*
- Uzbekistan** (Samšínák, 1971) – *Percanestrinia levis*
- Vietnam** (Samšínák, 1969; Haitlinger, 1990b, 1993b) – *Melisia baloghi*, *M. helenae*, *M. jadowigae*, *M. hieronimae*, *M. mahunkai*, *M. occidii*, *M. rufae*, *Sandrophela rodioni*
- Asia** (Haitlinger, 1989)

**NORTH AMERICA**

**Mexico** (Banks, 1915; Summers & Schuster, 1979a, 1982b; Haitlinger, 1992e, 1993d, 1993e) – *Acrotacarus mirabilis*, *Arrunsithiana escaudata*, *Bibulothiana cyriaki*, *B. vatia*, *Grandiellina marinae*, *G. soniae*, *Ennodithiana maniusi*, *Phriknodora pustulosa*

**SOUTH and CENTRAL AMERICA**

**Argentina** (Haitlinger, 1992e, 1993e) - *Grandiella tacjannae*, *Olafithiana foliacea*, *O. multifida*

**Belize** (Fain, 1987a) - *Grandiella gambosa*, *G. kimsleyi*

**Bolivia** (Lombardini, 1950; Fain, 1987a; Haitlinger, 1989, 1992e, 1993d, 1993e, 1999) – *Arrunsithiana escaudata*, *Bibulothiana brevispinata*, *Grandiella decemcaudata*, *G. longini*, *G. quadrata*, *G. rosascostai*, *Olafithiana multifida*, *Ovarrothiana leopoldi*, *O. ludomiri*, *Teklathiana onnae*

**Brazil** (Lombardini, 1939, 1950; Summers & Schuster, 1979a; Fain, 1987a; Haitlinger, 1989, 1990a, 1991e, 1992e, 1993d, 1993e, 1995a, 2008) – *Arrunsithiana arcuata*, *A. battosi*, *A. escaudata*, *A. quadrata*, *A. spicantis*, *Bibulothiana brevispinata*, *B. cyriaki*, *B. everittae*, *B. oswaldi*, *Dorynothiana delmari*, *D. jurandi*, *Ennodithiana maniusi*, *E. medoni*, *E. megesi*, *Ennorithiana heliodori*, *Gasuthiana abapoica*, *G. coarica*, *G. melillae*, *Grandiella minor*, *G. tacjannae*, *G. tetracaudata*, *Hatohylla bahiana*, *H. bibiannae*, *H. morrata*, *Olafithiana adelinae*, *O. multifida*, *O. foliacea*, *O. joliveti*, *Ovarrothiana erazmi*, *O. ozannae*, *Sabothiana boi*, *S. reidari*, *S. riccardoi*, *Thopia boguwolae*, *Th. corinnae*

**Colombia** (Summers & Schuster, 1979a; Fain, 1987; Haitlinger, 1997, 1989, 1991b, 1991e, 1993d, 1993e, 2001) - *Arrunsithiana ilosi*, *A. battosi*, *A. quadrata*, *Bibulothiana brevispinata*, *Danaithiana ayraica*, *Ennorithiana aidaae*, *Gasuthiana olareica*, *Grandiella gambosa*, *G. kimseyi*, *G. sricula*, *G. soniae*, *G. tetracaudata*, *Ovarrothiana echinoderma*, *Teklathiana onnae*,

**Costa Rica** (Haitlinger, 1991b, 1994b; Summers & Schuster, 1979b) – *Acrotacarus mirabilis*, *Arrunsithiana escaudata*, *Bibulothiana albertae*, *Danaithiana chanchamayoica*, *Olafithiana iwettae*, *Phriknodora avae*

**Cuba** (Haitlinger, 1991b, 1993d) - *Danaithiana chanchamayoica*, *Ennodithiana messalinae*

**Ecuador** (contin.) (Fain, 1987a; Haitlinger, 1991b, 1991e, 1993d, 1993e,) – *Arrunsithiana artemoni*, *A. battoni*, *A. erinnae*, *Bibulothiana brevispinata*, *Danaithiana archidonaica*; *D. ayraica*, *D. ecuadorica*, *Grandiella cooremani*, *G. ecuadorensis*, *G. soniae*, *Olafithiana multifida*, *Ovarrothiana ozannae*,

**French Guyana** (Lombardini, 1950; Fain, 1987a; Haitlinger, 1993e, 1993d, 1999) – *Averithiana anoni*, *Arrunsithiana escaudata*, *A. quadrata*, *A. squarrosa*, *Gasuthiana olareica*, *Grandiella tetracaudata*, *G. t. omoplata*, *Ovarrothiana erazmi*, *Thopia amedae*

**Guatemala** (Summers & Schuster, 1979a, 1979b) - *Acrotacarus mirabilis*, *Arrunsithiana escaudata*

**Honduras** (Haitlinger, 1993e, 1999) - *Bibulothiana brevispinata*, *Metriothiana bolebori*

**Panama** (Banks, 1915; Summers & Schuster, 1979b, 1982b; Haitlinger, 1993d, 1993e, ) – *Bibulothiana brevispinata*, *Coleopterophagus blattophagus*, *Ennodithiana platysma*, *Grandiella gambosa*, *G. kimseyi*, *Ovarrothiana echinoderma*, *Phriknodora pustulosa*, *Teklathiana conula*, *T. rugosita*, *Thopia tenax*

**Paraguay** (Lombardini, 1950; Haitlinger, 1992e) – *Grandiella decemcaudata*, *G. tacjannae*

**Peru** (Summers & Schuster, 1979; Fain, 1987a; Haitlinger, 1991b, 1992e, 1993d, 1993e, 2008) – *Bibulothiana everittae*, *Danaithiana chanchamayoica*, *Grandiella rogeri*, *G. soniae*, *G. tetracaudata*, *Ovarrothiana ozannae*, *Peruthiana briannae*

**Suriname** (Haitlinger, 1993) – *Ennodithiana penelopae*

**Trinidad and Tobago** (Turk, 1948) – *Acrotacarus alutaceus*,

**Venezuela** (Lombardini, 1950; Haitlinger, 1994b) – *Olafithiana iwettae*, *Grandiella pentagona*

**South America** (Fain, 1989) – *Arrunsithiana latipes*

## OCEANIA

**Australia** (continent) (Summers & Schuster, 1981a, 1981b, 1982a; Haitlinger, 1991) — *Apalotacarus fusticulus*, *A. gracilis*, *A. luroris*, *Cnecoderma dolichopoda*, *C. ovalis*, *Hypopteryx collaris*, *Lidiophela pauliana*, *Melisia leptinotarsa*, *Taseopus platythrix*

**Papua New Guinea** (Nesbitt, 1976; Summers & Schuster, 1981a, b; Haitlinger, 1989a, 1989b, 1990a, 1990b, 1993b, Haitlinger & Šundić, 2020) – *Apalotacarus cidaris*, *A. fusulus*, *A. paxillus*, *A. petilus*, *A. rigescens*, *Aurilossongia bolanica*, *A. fileasi*, *A. gaurana* [New Britain], *A. norae*, *Lidiophela* [Coleopterophagus] *pecki*, *Cooremania kietiensis* [Bougainville], *C. wauensis*, *Jullongia izaie*, *Passalophagus georgei*, *Phaleratus fentoni*, *Photia howdeni*, *Sajanophela alfredae*

**New Guinea** (Summers & Schuster, 1981b) – *Arraphosoma minax*

**Salomon Islands** (Nesbitt, 1976; Summers & Schuster, 1981a) – *Apalotacarus glaber* [Russel I.], *Lidiophela* [Coleopterophagus] *pecki*

## Hosts of Canestriniidae

### Myriapoda

#### Diplopoda

##### Glomerida

Fam. Glomeridae – *Diplopodocoptes transkeiensis*

#### Spirostrepsida

Fam. Odontopygidae – *Diplopodocoptes transkeiensis*

### Insecta

#### Coleoptera

Fam. Carabidae

- Calosoma (Campalita) auropunctatum* – *Paraphotia calosomae*  
*Carabus (Oreocarabus) amplipennis* - *Photia lusitanica*  
*C. (Cychrostomus) anchocephalus* – *Canestrinia pekingensis*  
*C. (Eupachys) glyptopterus* - *Canestrinia pekingensis*  
*C. (Coptolabrus) lafossei saturatus* - *Canestrinia pekingensis*  
*C. augustus* - *Canestrinia pekingensis*  
*C. augustus ignigena* - *Canestrinia pekingensis*  
*C. pustulifer* - *Canestrinia pekingensis*  
*C. pustulifer pratti* - *Canestrinia pekingensis*  
*C. p. querryi* - *Canestrinia pekingensis*  
*C. p. szechwanensis* - *Canestrinia pekingensis*  
*C. ignimetalla angusticollis* - *Canestrinia pekingensis*  
*C. gemmifer* - *Canestrinia pekingensis*  
*C. (Cratocephenus) akinini* – *Percanestriniella levis*  
*C. angulicollis antaeus* – *Beeriphotia volkeri*  
*C. (Tachypus) auratus* – *Photia chrysocarabi*  
*C. (Chrysocarabus) auronitens* - *Photia chrysocarabi*, *Pseudocanestrinia occidentalis*  
*C. (Cratocephalus) balassogloi* – *Percanestriniella levis*  
*C. (C.) bessarabicus* – *Pseudocanestrinia carabi*  
*C. (Damaster) blaptoides* – *Canestrinia pictura*  
*C. (Imaibius) boysi* – *Percanestriniella vlachiana*  
*C. (Acanthaicus) brandti* – *Canestrinia pekingensis*  
*C. (Megodontus) caelatus* – *Pseudocanestrinia orientalis*  
*C. (C.) cicatricosus* - *Percanestriniella levis*  
*C. (Procrustes) coriaceus* - *Photia procera*, *Percanestrinia saetolata*, *Procericola bourgognei*  
*C. (Megodontus) croaticus* – *Pseudocanestrinia orientalis*  
*C. coelestes giganteus* – *Canestrinia ramoni*  
*C. (Procrustes) a. anaticus* – *Photia procustidis*  
*C. (Procrustes) auticollis* – *Procericola bourgognei*  
*C. (Procrustes) b. banoni* – *Photia procustidis*  
*C. (Procrustes) ch. chevrolati* – *Procericola bourgognei*  
*C. (Procrustes) clypeatus clypeatus* - *Procericola bourgognei*  
*C. (Procrustes) coriaceus banaticus* - *Percanestrinia sellnicki*  
*C. (Procrustes) c. coriaceus* - *Percanestrinia sellnicki*, *Photia saetolata*  
*C. (Procrustes) coriaceus foudrasi* – *Photia graeca*  
*C. (Procrustes) coriaceus gressorius* - *Percanestrinia sellnicki*  
*C. (Procrustes) coriaceus imminutus* - *Percanestrinia sellnicki*  
*C. (Procrustes) coriaceus impudicus* - *Photia graeca*  
*C. (Procrustes) coriaceus kindermanni* - *Photia graeca*

- C. (Procrustes) coriaceus pseudorugifer* - *Percanestrinia sellnicki*  
*C. (Procrustes) coriaceus rugifer* - *Percanestrinia sellnicki*  
*C. (Procrustes) coriaceus subrugosus* - *Percanestrinia sellnicki*  
*C. (Procrustes) coriaceus* - *Pseudocanestrinia mahunkai*  
*C. (Ctenocarabus) galicianus* - *Canestrinia hispanica*  
*C. (Procerus) gigas* - *Photia procera*, *Procericola ichthyoides*  
*C. (Procerus) scabrosus transversalis* - *Photia procera adanensis*  
*C. (Procerus) scabrosus caucasicus* - *Photia procera*  
*C. (Procerus) syriacus* - *Photia procera marani*  
*C. (C.) glabratus* - *Photia adolphinae*  
*C. grandis* - *Canestrinia paavoi*  
*C. (Oreocarabus) guadarramus* - *Canestrinia hispanica*, *Neophotia drvotocka*  
*C. (Megodontus) gyllenhali* - *Photia adolfinae*, *Pseudocanestrinia berndi*  
*C. (Coptolabrus) hankotaizanus* - *Canestrinia illegalis*  
*C. (Procrustes) impressus carmelita* - *Photia procutidid*  
*C. (Megodontus) kolbei* - *Photia pacifica*  
*C. (Tribax) komarovi* - *Photia bilkorum*  
*C. (Oreocarabus) linnaei* - *Photia hermengildae*  
*C. latenulatus plassensis* - *Pseudocanestrinia berndi*  
*C. (Coptolabrus) longipennis mandarinus* - *Canestrinia illegalis*  
*C. (Acoptolabrus) lopatini* - *Photia lopatini*  
*C. (Mesocarabus) lusitanicus* - *Neophotia latissima*  
*C. (M.) lusitanicus breuningi* - *Photia lusitanica*  
*C. (M.) lusitanicus castilianus* - *Photia lusitanica*  
*C. (M.) lusitanicus logronicus* - *Photia lusitanica*  
*C. (M.) lusitanicus schauumi* - *Photia lusitanica*  
*C. (Rhabdotocarabus) melancholicus* - *Canestrinia hispanica*, *Mesophotia p. penicillata*  
*C. (Macrothorax) morbillosus* - *Canestrinia carabicola*  
*C. (Procrustes) m. mulsatianus* - *Photia procutidid*  
*C. (Archicarabus) nemoralis* - *Photia bardoica*, *Ph. chrysocarabi*  
*C. (Procrustes) payafa* - *Procericola bourgognei*  
*C. (Tribax) plasoni* - *Photia bilkorum*  
*C. (Tribax) protensis* - *Photia bilkorum*  
*C. (Iniopachus) pyrenaeus* - *Neophotia drvotocka*, *N. jureceki*  
*C. (Procerus) scabrusus* - *Photia procera*  
*C. (Megodontus) schoenherri* - *Photia sibirica*  
*C. (Tribax) shamyli* - *Photia bilkorum*  
*C. (I.) stoliczkanus* - *Percanestriniella vlachiana*  
*C. (Ulocarabus) sturowskyi* - *Percanestriniella levis*  
*C. (P.) tanypedilus* - *Percanestriniella levis*

- C. (Pantophyrus) turcomannorum* - *Percanestriniella levis*  
*C. (Hygrocarabus) variolosus* - *Dicanestrinia huberti*, *D. knobi*  
*C. (Megodontus) violaceus* - *Photia hejniana*, *Ph. saetolata*  
*C. v. bicinctus* - *Photia saetolata*  
*C. v. exasperatus* - *Photia hejniana*, *Ph. saetolata*  
*C. v. fioris* - *Photia hejniana*  
*C. v. fulgens* - *Photia saetolata*  
*C. v. obliquus* - *Photia hejniana*  
*C. v. purpurascens* - *Photia graeca*, *Ph. saetolata*  
*C. v. savinicus* - *Photia hejniana*  
*C. v. styriensis* - *Photia hejniana*  
*Pseudosteropus globosus* - *Globosophotia bettinae*  
*Sphodrus leucophthalmus* - *Percanestrinia blaptis*  
*Tefflus purpuripennis* - *Megacanestrinia beloniana*  
*Carabus* sp. - *Percanestriniella caucasica*, *Paracanestrinia denmarkica*  
*Carabidae* gen. sp. - *Megacanestrinia mucronata*

**Fam. Cerambycidae**

- Batocera albofasciata octomaculata* - *Canestriniella phoebinae*  
*B. celebiana* - *Canestriniella physsana*  
*B. ferruginea* - *Canestriniella elae*  
*B. hector* - *Canestriniella amplexans*  
*B. humilidens* - *Canestriniella physsana*  
*B. lunulata* - *Canestriniella togata*  
*B. procera* - *Canestriniella togata*  
*Brazilianus batus* - *Phriknodora pustulosa*  
*B. brazilianus* - *Phriknodora pustulosa*  
*Cerambyx cerdo* - *Dicanestrinia cerambycis*  
*Lagocheirus foveolatus* - *Thopia pannucea*  
*Neoptychodes trilineatus* - *Thopia bulbocaudata*  
*Sternotomis bohemani* - *Anaspistes unguiculatus*  
*Taeniotes scalatus* - *Thopia tenax*  
*Trachyderes succinctus* - *Phriknodora scabra*  
*Xylotrupes asperulus* - *Aurilossongia bolanica*  
*Xylotrupes* sp. - *Aurilossongia gaurana*, *A. hoarica*  
*Cerambycidae* gen. sp. - *Chelinophora dictyophora*

**Fam. Chrysomelidae**

- Acromis nebulosa* - *Ennodithiana penelopae*  
*A. sparsa* - *Teklathiana onnae*, *T. rugosita*  
*A. spinifex* - *Ennodithiana medoni*  
*Agenyssa caedemadens* - *Ovarrothiana ozannae*  
*A. crassicornis* - *Ovarrothiana ozannae*

- Alurnus bipunctatus* - *Gasuthiana olareica*  
*A. boulsardi* - *Gasuthiana olareica*  
*A. clysianus* - *Gassuthiana abapoica*  
*Anacassis cribrum* - *Olafithiana adelinae*  
*A. fuscata* - *Grandiella tacjannae*  
*Botanochara angulata* - *Grandiella tacjannae*  
*B. bonariensis* - *Grandiella tacjannae*  
*B. convexiuscula* - *Grandiella tacjannae*  
*B. duodecimverrucata* - *Grandiella tacjannae*  
*B. impressa* - *Grandiella tacjannae*  
*B. macularia* - *Grandiella tacjannae*  
*B. nervosa* - *Grandiella tacjannae*  
*B. regina* - *Grandiella tacjannae*  
*B. ruforeticulata* - *Grandiella tacjannae*  
*B. sanguinea* - *Grandiella tacjannae*  
*B. sedecimpustulata* - *Grandiella tacjannae*  
*B. tessellata* - *Grandiella tacjannae*  
*B. texta* - *Grandiella tacjannae*  
*Canistra carbonaria* - *Grandiellopsis arriani*  
*C. cruentata* - *Grandiellopsis violae*  
*C. osculatii* - *Grandiellopsis alani*, *G. canistra*  
*C. plagosa* - *Arrunsithiana spicantis*  
*Charidotella kesseli* - *Sabothiana reidari*  
*Ch.* (= *Metriona*) *testudinacea* - *Olafithiana iwettae*  
*Charidotis furunculus* - *Sabothiana riccardoi*  
*Charidotis* sp. - *Sabothiana boi*  
*Chelymorpha comata* - *Bibulothiana albertae*  
*Ch. Infecta* - *Bibulothiana cyriaki*  
*Ch. inflata* - *Bibulothiana everittae*  
*Ch. nigricollis* - *Bibulothiana cyriaki*  
*Ch. rufoguttata* - *Bibulothiana everittae*  
*Ch. vermiculata* - *Bibulothiana cyriaki*  
*Chrysolina fastuosa* - *Paramansia bicornis*  
*Ch. mentastri* - *Paramansia bicornis*, *P. mentastri*  
*Ch. polita* - *Paramansia bicornis*  
*Coptocyclus adamantina* - *Grandiella tetracaudata*  
*C. contenta* - *Grandiella decemcaudata*  
*C. nigropunctata* - *Grandiella sicula*  
*C. wagneri* - *Grandiella sicula*  
*Coptocyclus* sp. - *Ennodithiana platysma*  
*Crambelea illuderis* - *Ennodithiana megesi*



- Cyclosoma mirabilis* – *Grandiellopsis orsenae*  
*C. paliata* – *Grandiellopsis cyclosoma*  
*C. tristis* – *Ovarothiana ludomiri*  
*Cyrtonota cyanea* - *Grandiella tetracaudata*  
*C. dissecta* – *Arrunsithiana ilosi*  
*C. latevittata* – *Arrunsithiana artemoni*  
*C. punicea* – *Grandiella soniae*  
*C. textilis* - *Grandiella soniae*  
*C. thalassina* - *Grandiella tetracaudata*  
*C. tigrina* - *Grandiella tetracaudata*  
*C. tristigma* – *Bibulothiana vatia*  
*Discomorpha batesi* - *Grandiella gambosa*  
*D. lanuginosa pubescens* - *Grandiella gambosa*  
*D. depilata* - *Grandiella gambosa*  
*Dolichotoma conspersipennis* - *Grandiella gambosa*  
*Dorynota pugionata* – *Dorynothiana jurandi*  
*Dorynota* sp. – *Dorynothiana delmari*  
*Echoma* [as *Omoplata*] *marginata* – *Arrunsithiana escaudata*, *Grandiellina decemcaudata*  
*E. clypeata* – *Grandiella tetracaudata*  
*E. confluens* – *Grandiella marinae*  
*Elytrosphaera xanthopyga* – *Olafithiana joliveti*  
*Eudicella gralli* var. *meckowi* – *Paraphagella eudicellae*  
*E. smithi* var. *bertherandi* – *Paraphagella eudicellae*, *P. minor*  
*Eugenysa andicola* – *Ovarrothiana ozannae*  
*E. bacchus* - *Ovarrothiana erazmi*  
*E. columbiana* – *Ovarrothiana echinoderma*, *Arrunsithiana quadrata*  
*E. delicata* - *Ovarrothiana nikodemi*  
*E. divalis* – *Ovarrothiana nikodemi*  
*E. grossa* - *Ovarrothiana erazmi*, *Arrunsithiana squarrosa*  
*E. venosa* – *Ovarrothiana erazmi*, *Thopia amedae*  
*Eumolpus fulgidus* - *Grandiella tetracaudata*  
*Goniochenia* (*Baranosa*) *decolor* – *Grandiella rogeri*  
*G. (B.) heroldi* - *Grandiella rogeri*  
*G. (B.) flavosparsa* - *Grandiella longini*  
*Mecistomala marginatus* – *Gassuthiana coarica*  
*M. nigripes* – *Gassuthiana abufarica*  
*Metriona testudinacea* – *Olafithiana iwettae*  
*Metrionella bilimeki* - *Metriothiana bolebori*  
*Myocalaspis gentilis* – *Ovarrothiana leopoldi*  
*Omaspides basilica* - *Ennodithiana messalinae*  
*O. bistrinata* – *Teklathiana conula*



- Physonota alutacea* – *Acrotacarus alutaceus*, *A. mirabilis*  
*Ph. diluta* – *Acrotacarus crataepus*  
*Plagiometriona ludiera* – *Ennorithiana heliodori*  
*P. punctipennis* - *Ennorithiana heliodori*  
*Polychalca dentipennis* – *Thopia corinnae*  
*P. punctatissima* – *Grandiellopsis odiosi*, *Thopia boguwolae*  
*Psalidonota contemta* – *Ennodithiana maniusi*  
*P. dorsoplagiata* - *Ennodithiana messalinae*  
*P. dorsopunctata* – *Ennodithiana messalinae*  
*P. leprosa* - *Ennodithiana messalinae*  
*Pycnocerus* sp. – *Saniothiana pycnosa*  
*Stolas aenea* - *Arrunsithiana quadrata*  
*S. antiqua* – *Olafithiana multifida*  
*S. areolata* - *Olafithiana foliacea*  
*S. aurosetosa* - *Olafithiana multifida*  
*S. bifenestrata* - *Bibulothiana brevispinata*  
*S. bipunctata* - *Arrunsithiana quadrata*  
*S. bipustulata* - *Bibulothiana brevispinata*  
*S. chalybaea* – *Arrunsithiana spicantis*, *A. battosi*, *Grandiella tetracaudata*,  
*Olafithiana foliacea*  
*S. coalita* - *Grandiella soniae*  
*S. coerulescens* – *Grandiella soniae*, *Bibulothiana brevispinata*  
*S. conspersa* - *Olafithiana foliacea*, *Arrunsithiana battosi*, *A. spicantis*  
*S. cruentata* - *Olafithiana multifida*, *Arrunsithiana battosi*  
*S. decemguttata* - *Arrunsithiana arcuata*  
*S. demissa* - *Arrunsithiana quadrata*  
*S. ephippium* - *Bibulothiana brevispinata*  
*S. erichsoni* - *Grandiella soniae*, *Arrunsithiana battosi*  
*S. esignata* - *Arrunsithiana arcuata*  
*S. funebris* - *Arrunsithiana battosi*, *A. spicantis*  
*S. gibbosa* - *Arrunsithiana battosi*  
*S. huanocensis* - *Arrunsithiana battosi*  
*S. ignita* - *Arrunsithiana battosi*  
*S. imitans* - *Arrunsithiana quadrata*  
*S. implexa* - *Olafithiana foliacea*  
*S. impluviata* - *Olafithiana foliacea*  
*S. inaequalis* – *Arrunsithiana latipes*, *A. quadrata*  
*S. indigacea* - *Arrunsithiana quadrata*  
*S. inexculata* - *Arrunsithiana battosi*  
*S. lacunosa* - *Olafithiana foliacea*  
*S. latevittata* – *Arrunsithiana artemoni*  
*S. lebesi* – *Arrunsithiana escaudata*, *Phriknodora avae*

- S. lenis* - *Olafithiana foliacea*, *Arrunsithiana battosi*  
*S. lineaticollis* - *Bibulothiana brevispinata*  
*S. niobe* - *Arrunsithiana battosi*  
*S. nudicollis* - *Olafithiana foliacea*  
*S. oblita* - *Olafithiana foliacea*, *Arrunsithiana battosi*  
*S. paranensis* - *Olafithiana foliacea*, *Arrunsithiana battosi*  
*S. pectinata* - *Arrunsithiana erinnae*  
*S. placida* - *Grandiella soniae*  
*S. plagiata* - *Bibulothiana brevispinata*  
*S. plagicollis* - *Bibulothiana oswaldi*  
*S. pleurosticha* - *Arrunsithiana battosi*  
*S. punicea* - *Arrunsithiana escaudata*, *Grandiellina soniae*  
*S. redtenbacheri* - *Arrunsithiana quadrata*  
*S. scoparia* - *Arrunsithiana battosi*  
*S. subreticulata* - *Olafithiana foliacea*  
*S. subrugosa* - *Grandiella tetracaudata*  
*S. thoreyi* - *Arrunsithiana quadrata*  
*Stolas* sp. - *Arrunsithiana squarrosa*  
*Timarcha atlantica* - *Pseudamansia chrysomelinus*  
*T. balearica* - *Pseudamansia chrysomelinus*  
*T. goettingensis* - *Pseudamansia chrysomelinus*, *P. decorata*  
*T. interstitialis* - *Pseudamansia chrysomelinus*  
*T. nicaensis* - *Pseudamansia chrysomelinus*  
*T. pauperata* - *Pseudamansia chrysomelinus*  
*T. punctella* - *Pseudamansia chrysomelinus*  
*T. rugosa* - *Pseudamansia chrysomelinus*  
*T. tenebricosa* - *Amansiella trilobata*, *Pseudamansia chrysomelinus*  
*Zatrephina lineata* - *Averithiana anoni*  
Hispinæ gen. sp. - *Peruthiana brianna*  
Chrysomelidae gen. sp. - *Acrotacarus mirabilis*

**Fam. Colydiidae**

- Colydium* sp. - *Sandrophela ditae*

**Fam. Elateridae**

- Semiotus furcatus* - *Danaithiana ecuadorica*, *D. archidonaica*  
*S. imperialis* - *Danaithiana chanchamayoica*  
*S. virgatus* - *Danaithiana ayraica*

**Fam. Lucanidae**

- Cladognathus giraffa* - *Noemiphela izabelae*  
*Dorcus bucephalus* - *Sandrophela spectanda*  
*D. paralellipedus* - *Canestrinia dorcicola*  
*Eumelasomus sansibaricus* - *Olgattia useguaica*

*Eurytrachelus anthaeus* – *Rugoniphela marloni*  
*Eurytrachelus bucephalus* – *Rugoniphela marloni*  
*Eurytrachelus eurycephalus* - *Rugoniphela marloni*, *Sandrophela amarae*  
*Eurytrachelus gypeatus* - *Sandrophela amarae*  
*Eurytrachelus platymelus* - *Sandrophela rodioni*  
*Eurytrachelus purpurescens* - *Noemiphela barryi*  
*Hemisodorcus chevrilati* – *Sandrophela sophiae*  
*Hemisodorcus* [*Macrodera*] *rubrofemoratus* - *Uriophela arieli*  
*Metapodonotus bison* - *Amboinophela bernaie*  
*Metapodonotus cinctus* - *Amboinophela bernaie*  
*Odontolabis wollastoni* – *Sandrophela hugoni*  
*Serrogathus platymelus* – *Haitlingeria longilobata*  
*Telodorcus saiga* – *Canestrinia microdisca*  
 Lucanidae indet. - *Vereoxia bogeri*, *Cooremania kietaensis*

#### Fam. Passalidae

*Aceraius grandis* – *Apalotacarus aristatus*, *Melisia mariettae*, *M. salomeae*  
*A. grandis hirsutus* – *Apalotacarus cristatus*, *Melisia superba*  
*A. helferi* – *Melisia samsinaki*  
*A. laevicollis* – *Melisia gabrielae*  
*A. mayeri* – *Melisia melaniae*  
*Epiphanius indicus* – *Melisia anomala*  
*E. stoliczkae* - *Melisia anomala*, *M. klapaleki*  
*Eriocnemis tridens* – *Apalotacarus sajanae*  
*Eumelasomus sansibaricus* – *Olgattia useguaica*  
*Gonatus noviculator* - *Teophyssa honoratae*  
*Labienuus gigax* – *Lidiophela igae*, *L. pelagiae*  
*L. ptox* – *Apalotacarus fusulus*, *Lidiophela arnica*  
*Labienuus* sp. - *Passalophagus georgei*, *Lidiophela* [*Coleopterophagus*] *pecki*  
*Leptaulax bicolor formosanus* - *Apalotacarus trullus*  
*L. indicus* – *Shillongia marzenae*  
*Mastochilus australasiens* – *Apalotacarus luroris*  
*M. quaestionis* - *Apalotacarus luroris*  
*Macrolinus nicobaricus* – *Apalotacarus protensus*  
*M. weberi* – *Apalotacarus scaurus*  
*Obiensis* sp. – *Lidiophela* [*Coleopterophagus*] *pecki*  
*Pelopides mniszcecki* – *Melisia lombardini*  
*P. tridens* – *Apalotacarus fulgens*  
*Pharochilus dilatatus* – *Apalotacarus luroris*  
*Ph. nitidulus* – *Apalotacarus fusticulus*, *A. luroris*  
*Pleurarius brachyphyllus* – *Apalotacarus echinatus*, *A. scissus*, *Phaleratus alatus*

*Protomocoelus australis* – *Apalotacarus cidaris*, *A. petilus*, *Sajanophela alfredae*,

*Lidiophela* [*Coleopterophagus*] *pecki*

*P. triumphator* – *Apalotacarus glaber*

Passalidae gen. sp. – *Apalotacarus gracilis*, *A. paxillus*, *A. rigescens*, *Arraphosoma minax*, *A. paraminax*, *Cnecoderma dolichopoda*, *C. ovalis*, *Hyllosihemia belerofoni*, *Jowitella barbarae*, *Jullongia izaie*, *Lidiophela bognae*, *L. celinae*, *Melisia helenaie*, *M. ingeborgae*, *M. irenae*, *M. jadwigae*, *M. leptinotarsa*, *M. rutae*, *M. sentosa*, *Tamarophela batjanica*

**Fam. Passandridae**

*Passandra trigemina* – *Sandrophela kokodaica*

**Fam. Scarabaeidae**

*Caelorrhina thoreyi* – *Pseudoparaphagella gerardi*

*Cetonia aurata* – *Coleopterophagus megnini*

*Coglodera diaroi* – *Gioharattia caroae*

*Coryphocera* sp. – *Gioharattia caroae*

*Dicronorhina micans* – *Afrocanestrinia straeleni*, *Cetonicola hispidus*, *Paraphagella princeps*

*D. oberthuri* – *Boetophela robertsoni*

*Diplognatha gagates* – *Barbiangia elongata*

*Elasocheilon haterospila* – *Boetophela symeoni*

*Eudicella smithi* – *Boetophela ginae*

*E. gralli* var. *meckowi* – *Canestrinia hispidus*

*Geynodonta laeviplaga* – *Boetophela silvanae*

*Goliathus alborignathus* – *Boetophela sybillae*

*Goliathus goliathus* – *Phelliculophela roaldi*

*Ischipsophia olivacea* – *Albinorattia igori*

*Mecynorrhina* [*Chelarrhina* – recte *Chelorrhina*] *savagei* – *Boetophela erhardi*,

*Cetonicola isadorae*, *Paraphagella indirae*

*Meristomala marginatus* – *Gasuthiana coarica*

*M. nigriceps* – *Gasuthiana abufarica*

*Oryctes monoceros* – *Athogavia gamana*, *A. tanzanica*

*O. pyrrhus* – *Athogavia nosiana*

*Oryctes* sp. – *Athogavia scagana*

*Oxythirea funesta* – *Canestrinia dorcicola*

*Pachnoda abyssinica* – *Tamarangia ethiopica*

*P. carmelita* – *Kahoorangia almae*

*P. marginata* – *Tamarangia ethiopica*, *T. fabiolae*, *T. flawiani*

*P. thoracica* – *Tamarangia nimphae*

*Papuana woodlarkiana* – *Oceogavia ubaldi*

*Plaesiorrhina mhondana* – *Boetophela wernerii*

- Poecilophila hebraea* – *Cetonicola vatus*  
*P. maculatissima* – *Sorbinophela sandyi*  
*Porphyroneta cinnamonea* – *Coleopterophagus pulcher*  
*Protaetia (Potosia) aerata* – *Coleopterophagus belzebubi*  
*Protaetia (Potosia) affinis* – *Coleopterophagus donaldi*, *C. megnini*  
*Protaetia (Potosia) brevitarsis* – *Coleopterophagus rudolphi*  
*Protaetia (Potosia) cuprea* – *Coleopterophagus dionizyi*  
*Protaetia (Potosia) cuprea ignicollis* – *Coleopterophagus megnini*  
*Protaetia (Potosia) cuprea cuprea* – *Coleopterophagus megnini*  
*Protaetia (Potosia) cuprea obscura* – *Coleopterophagus megnini*  
*Protaetia (Potosia) cuprina* – *Coleopterophagus megnini*  
*Protaetia (Potosia) fieberi* – *Coleopterophagus megnini*  
*Protaetia (Potosia) metallica* – *Coleopterophagus megnini*, *C. albini*  
*Protaetia (Potosia) speciosa* – *Coleopterophagus baali*  
*Protaetia (Potosia) speciosa jousselini* – *Coleopterophagus maroni*  
*Protaetia (Cetonischema) aeruginosa* – *Coleopterophagus albini*, *C. maroni*  
*Protaetia (Eupotosia) affinis* – *Coleopterophagus donaldi*, *C. megnini*  
*Protaetia (Liocola) marmorata* – *Coleopterophagus albini*  
*Rhabdotis sobrina* – *Diplognathophilus africanus*  
*Scarabaeus variolosus* – *Scarabiphotia vignoni*  
*Smaragdesthes africana mutica* – *Paraphagella princeps*  
*S. oertzeni* – *Afrocanestrinia rufinae*  
*Stephanorrhina guttata* – *Cetonicola maritae*, *Paraphagella odae*  
*Tmesorrhina iris* – *Cetonicola orestesi*, *Paraphagella ingridae*  
*Trichogomphus lunicollis* – *Vandeinella opressa*  
*T. milon* – *Hargeinella poppana*, *Vandeinella adriassae*  
*T. nartolani* – *Athogavia assamica*  
 “*Scarabeus*” *centaurus* – *Coleopterophagus neglectus*  
*Scarabaeidae (Cetoniinae)* – *Babiangia alvari*, *B. ethiopica*, *Boetophela cassandrae*, *B. ephraimi*, *Coleopterophagus quadrisetosus*  
*Scarabaeidae (Dynastinae)* – *Athogavia arybbasi*, *Aurillossongia fileasi*  
*Scarabaeidae gen. sp.* – *Anaspistes unguiculatus*

#### Fam. Tenebrionidae

- Amarygmus striatus* – *Lidiophela pauliana*  
*Blaps appendiculata* – *Camirohylla feziana*  
*B. gibbosa* – *Percanestrinia blaptis*, *P. izabelae*  
*B. hejconota cortosa* – *Percanestrinia norodomi*  
*B. lethifera* – *Percanestrinia blaptis*  
*B. mucronata* – *Percanestrinia maroccana*  
*B. occulta* – *Percanestrinia blaptis*  
*B. pinguis* – *Percanestrinia maroccana*  
*B. polychresta* – *Percanestrinia egypti*

- B. producta* - *Percanestrinia maroccana*  
*B. punctata* - *Percanestrinia blaptis*  
*Blaps* sp. – *Ibizella* [*Canestrinia*] *samsinaki*, *Ibizella balearica*  
*Damatria formosus* – *Ambylohylla favosa*  
*Dila* sp. - *Camirohylla* sp.  
*Gnaptor* sp. – *Ibizella* [*Canestrinia*] *samsinaki*  
*Metallonotus metallicus* – *Boleohylla garrica*  
*Nyctobates gigas* - *Hatohylla morrata*  
*N. maximus* – *Hatohylla bahiana*  
*Nyctobates* sp. – *Grandiella* [*Hatohylla*] *rosascostai*  
*Odontopezus cupreus* – *Donnelaphontia cuatoha*  
*Odontopezus cupreus lucens* - *Saniothiana barumbaica*  
*Psammodes carbonarius* – *Boleohylla kiogana*  
Tenebrionidae gen. sp. – *Bicercicola bertrami*, *Gasuthiana melillae*, *Hatohylla bibiannae*  
**Coleoptera indet.** – *Ennodithiana platysma*, *Grandiella rugosita*, *Melisia baloghi*, *M. helenae*, *Phaleratus fentoni*

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## The Mite Family Chetochelacaridae Fain

Chetochelacaridae Fain, 1987: 161

One genus and species of African mites associated with Diplopoda.

Fam. **Chetochelacaridae** Fain

Chetochelacaridae Fain, 1987: 161

Type genus: *Chetochelacarus* Fain, 1987

Genus **Chetochelacarus** Fain

*Chetochelacarus* Fain, 1987: 162

Type species: *Chetochelacarus mamillatus* Fain, 1987

***Chetochelacarus mamillatus*** Fain

*Chetochelacarus* Fain, 1987: 162

Type locality: Kivu, Djuma Valley

Distribution: D.R. Congo (former Zaire)

Host: millipede (Diplopoda: Julidae)

## Index of Chetochelacaridae

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

**Chetochelacaridae** 243

*mamillatus*, **Chetochelacarus** 243

*Chetochelacarus* 243

## Distribution of Chetochelacaridae

### AFRICA

D.R. Congo (Fain, 1987) – *Chetochelacarus mamillatus*

## Hosts of Chetochelacaridae

### Myriapoda

#### Diplopoda

#### Julida

#### Fam. Julidae

Gen. sp. indet. - *Chetochelacarus mamillatus*

## Bibliography of Chetochelacaridae

Fain A. 1987. Notes on mites associated with Myriapoda 1. Three new astigmatic mites from Afrotropical Myriapoda (Acari, Astigmata). – Bull. Inst. R. Sci. Nat. de Belgique, Entomologie, 57: 161–172.

## The Mite Family Lophonotacaridae Fain

Lophonotacaridae Fain, 1987: 163

One genus and species of African mites associated with Diplopoda.

Family **Lophonotacaridae** Fain

Lophonotacaridae Fain, 1987: 163

Type genus: *Lophonotacarus* Fain, 1987

Genus ***Lophonotacarus*** Fain

*Lophonotacarus* Fain, 1987: 164

Type species: *Lophonotacarus minutus* Fain, 1987

***Lophonotacarus minutus*** Fain

*Lophonotacarus minutus* Fain, 1987: 164

Type locality: Transkei, District Lusikisiki, Mouth of Riv. Mzimhlava

Distribution: South Africa

Host: millipede (Diplopoda: Glomeridae)

## Index of Lophonotacaridae

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

**Lophonotacaridae** 244

***Lophonotacarus*** 245

*minutus*, ***Lophonotacarus*** 245

## Distribution of Lophonotacaridae

### AFRICA

South Africa (Fain, 1987) – *Lophonotacarus minutus*

## Hosts of Lophonotacaridae

Myriapoda

Diplopoda

Glomerida

Fam. Glomeridae

Gen. sp. indet. - *Chetochelacarus mamillatus*

## Bibliography of Lophonotacaridae

Fain A. 1987. Notes on mites associated with Myriapoda 1. Three new astigmatic mites from Afrotropical Myriapoda (Acari, Astigmata). – Bull. Inst. R. Sci. Nat. de Belgique, Entomologie, 57: 161–172.

## The Mite Family Heteroptidae Fain

Heteroptidae Fain, 1961: 91

Mites associated with chrysomelid beetles (Cassidinae and Hispinae), other Coleoptera (Lycidae, Erotylidae, Passandridae) and Hymenoptera (Apidae, Sphecidae), mostly in the Afritropical and Indomalayan Regions. The first genus and species (*Heteroptes tarsii* Fain, 1967) has been found on *Tarsius* (Mammalia: Primates)(chance host ?). Haitlinger described since 1990 10 of the 12 genera, known so far, and most of the species from Africa, Madagascar, South Asia, Peru, Australia, New Guinea and other tropical areas.

### Composition of Heteroptidae

Fam. **Heteroptidae** Fain, 1967–13 gen., 39 sp.

- Abboticoptes* Haitlinger, 1996–1 sp.
- Amarucoptes* Haitlinger, 2001–1 sp.
- Bahrucoptes* Haitlinger, 1999 – 1 sp.
- Cassiocoptes* Haitlinger, 1996–1 sp.
- Conchycoptes* Haitlinger, 2002–1 sp.
- Erotylocoptes* Fain, 1987–7 sp.
- Gascaricoptes* Haitlinger, 2002–1 sp.
- Heteroptes* Fain, 1967–15 sp.
- Honiarrea* Haitlinger, 1990–1 sp.
- Kamerucoptes* Haitlinger, 2002–5 sp.
- Nolaecoptes* Haitlinger, 1996–2 sp.
- Tannuicoptes* Haitlinger, 1999–2 sp.
- Uvallicoptes* Haitlinger, 1999–1 sp.

### Catalogue of Heteroptidae

Family **Heteroptidae** Fain

Heteroptidae Fain, 1967: 91

Type genus: *Heteroptes* Fain, 1967

Genus ***Abboticoptes*** Haitlinger

*Abboticoptes* Haitlinger, 1996: 988

Type species: *Abboticoptes eddae* Haitlinger, 1996



***Abboticoptes eddae*** Haitlinger

*Abboticoptes eddae* Haitlinger, 1996: 988

Type locality: Philippines

Distribution: Philippines

Host: *Aspidomorpha quadrilobata* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Amarucoptes*** Haitlinger

*Amarucoptes* Haitlinger, 2001: 112

Type species: *Amarucoptes eddae* Haitlinger, 2001

***Amarucoptes busannae*** Haitlinger

*Amarucoptes busannae* Haitlinger, 2001: 113

Type locality: 30 km east from Puerto Maldonado, at river Madre de Dios

Distribution: Peru

Host: Coleoptera: Passalidae indet.

Genus ***BahrucOPTES*** Haitlinger

*BahrucOPTES* Haitlinger, 1999: 60

Type species: *BahrucOPTES amaliae* Haitlinger, 1999

***BahrucOPTES amaliae*** Haitlinger

*BahrucOPTES amaliae* Haitlinger, 1999: 60

Type locality: Kota Bahru

Distribution: Malaysia

Host: *Aspidomorpha elevata* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***CassiocOPTES*** Haitlinger

*CassiocOPTES* Haitlinger, 1996: 986

Type species: *CassiocOPTES mikki* Haitlinger, 1996

***CassiocOPTES mikki*** Haitlinger

*CassiocOPTES mikki* Haitlinger, 1996: 986

Type locality: Soekaranda (Sumatra)

Distribution: Indonesia (Sumatra)

Host: *Lasiochila fallax* (Coleoptera: Chrysomelidae, Hispinae)

Genus ***ConchyocOPTES*** Haitlinger

*ConchyocOPTES* Haitlinger, 2002: 25

Type species: *ConchyocOPTES tangaicus* Haitlinger, 2002

***ConchyocOPTES tangaicus*** Haitlinger

*ConchyocOPTES tangaicus* Haitlinger, 2002: 25

Type locality: Tanga

Distribution: Tanzania

Host: *Conchyloctenia hybrida* (Coleoptera: Chrysomelidae, Hispinae)

Genus ***Erotylocoptes*** Fain

*Erotylocoptes* Fain, 1987: 244

Type species: *Erotylocoptes linodesmus* Fain, 1987

***Erotylocoptes anthophora*** Fain

*Erotylocoptes anthophora* Fain, 1987: 251

Type locality: Mobwasa

Distribution: DR Congo [Zaire]

Host: *Anthophora acraensis* (Hymenoptera, Apidae)

***Erotylocoptes helenae*** Haitlinger

*Erotylocoptes helenae* Haitlinger, 1996: 980

Type locality: ?Radburg (RSA)

Distribution: Mozambique, South Africa

Hosts: *Laccolptera rugosicollis* (Coleoptera: Chrysomelidae, Cassidinae)

***Erotylocoptes linodesmus*** Fain

*Erotylocoptes linodesmus* Fain, 1987: 244

Type locality: Mediakoko

Distribution: DR Congo [Zaire]

Host: *Linodesmus coccus apicalis* (Coleoptera, Erotylidae)

***Erotylocoptes luluensis*** Fain

*Erotylocoptes luluensis* Fain, 1987: 252

Type locality: Lulua-Kapanga

Distribution: DR Congo [Zaire]

Host: *Chlorion (Isodontia) simoni* (Hymenoptera, Sphecidae)

***Erotylocoptes taorettae*** Haitlinger

*Erotylocoptes taorettae* Haitlinger, 1996: 981

Type locality: ?Pugu

Distribution: Tanzania

Host: *Laccolptera aurosa* (Coleoptera: Chrysomelidae, Cassidinae)

***Erotylocoptes verенаe*** Haitlinger

*Erotylocoptes verенаe* Haitlinger, 1996: 982

Type locality: Congo (Brazaville)

Distribution: Congo (Brazaville)

Host: *Lacoptera caduca* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Gascaricoptes*** Haitlinger

*Gascaricoptes* Haitlinger, 2002: 22

Type species: *Gascaricoptes analevelonaicus* Haitlinger, 2002

***Gascaricoptes analevelonaicus*** Haitlinger

*Gascaricoptes analevelonaicus* Haitlinger, 2002: 22

Type locality: Analavelona

Distribution: Madagascar

Host: *Cassida fuscomacula* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Heteroceptes*** Fain

*Heteroceptes* Fain, 1967: 94

Type species: *Heteroceptes tarsii* Fain, 1967

***Heteroceptes barbarae*** Haitlinger

*Heteroceptes barbarae* Haitlinger, 2009: 334

Type locality: New Britain, Gazelle Peninsula

Distribution: Papua New Guinea (New Britain)

Host: *Aspidomorpha aurata* (Coleoptera: Chrysomelidae, Cassidinae)

***Heteroceptes floresiensis*** Haitlinger

*Heteroceptes floresiensis* Haitlinger, 2009: 62

Type locality: Flores

Distribution: Indonesia (Flores)

Host: *Aspidomorpha indica* (Coleoptera: Chrysomelidae, Cassidinae)

***Heteroceptes hanna*** Haitlinger

*Heteroceptes hanna* Haitlinger, 1998: 5

Type locality: Shanghai

Distribution: China

Host: *Basipronota bisignata* (Coleoptera: Chrysomelidae, Cassidinae)

***Heteroceptes ingeri*** Haitlinger

*Heteroceptes ingeri* Haitlinger, 1999: 67

Type locality: South Luzon

Distribution: Philippines

Host: *Lacoptera tredecimguttata* (Coleoptera: Chrysomelidae, Cassidinae)

***Heteroceptes kamillae*** Haitlinger

*Heteroceptes kamillae* Haitlinger, 1998: 8

Type locality: ? Solim-Ho, Yunnan

Distribution: China (Yunnan)

Host: *Aspidimorpha miliaris* (Coleoptera: Chrysomelidae, Cassidinae)

***Heterocoptes lombokensis*** Haitlinger

*Heterocoptes lombokensis* Haitlinger, 2009: 326

Type locality: Lombok, Senggigi

Distribution: Indonesia (Lombok, Bali, Java)

Hosts: *Aspidimorpha sanctaecrucis*, *A. miliaris* (Coleoptera: Chrysomelidae, Cassidinae)

***Heterocoptes lottae*** Haitlinger

*Heterocoptes lottae* Haitlinger, 1996: 985; 1999: 72

Type locality: North Vietnam

Distribution: Malaysia, Vietnam

Host: *Lacoptera hospita*, *Aspidomorpha elevata* (Coleoptera: Chrysomelidae, Cassidinae)

***Heterocoptes marcellae*** Haitlinger

*Heterocoptes marcellae* Haitlinger, 2009: 336

Type locality: South Sulawesi

Distribution: Indonesia (Sulawesi)

Host: *Aspidimorpha amabilis* (Coleoptera: Chrysomelidae, Cassidinae)

***Heterocoptes nolae*** Haitlinger

*Heterocoptes nolae* Haitlinger, 1996: 983

Type locality: Andaman Is.

Distribution: India (Andaman Is.)

Host: *Aspidomorpha inquinata* (Coleoptera: Chrysomelidae, Cassidinae)

***Heterocoptes rukaensis*** Haitlinger

*Heterocoptes rukaensis* Haitlinger, 1999: 70

Type locality: Ruka

Distribution: Papua New Guinea

Host: *Aspidimorpha punctum* (Coleoptera: Chrysomelidae, Cassidinae)

***Heterocoptes ruperti*** Haitlinger

*Heterocoptes ruperti* Haitlinger, 2009: 64

Type locality: ? Liangages, Sumatra

Distribution: Indonesia (Sumatra)

Host: *Platypria echinogale* (Coleoptera: Chrysomelidae, Hispinae)

***Heterocoptes samueli*** Haitlinger

*Heterocoptes samueli* Haitlinger, 2009: 332

Type locality: "New Territory", Darwin

Distribution: Australia

Host: *Aspidimorpha quadriradiata* (Coleoptera: Chrysomelidae, Cassidinae)

***Heteroceptes simonettae*** Haitlinger

*Heteroceptes simonettae* Haitlinger, 1999: 70

Type locality: Papua New Guinea

Host: *Aspidimorpha punctata* (Coleoptera: Chrysomelidae, Cassidinae)

***Heteroceptes sumatrensis*** Haitlinger

*Heteroceptes sumatrensis* Haitlinger, 2009: 329

Type locality: Sumatra, Soekaranda

Distribution: Indonesia (Sumatra)

Host: *Basipronota decemmaculata* (Coleoptera: Chrysomelidae, Cassidinae)

***Heteroceptes tarsii*** Fain

*Heteroceptes tarsii* Fain, 1967: 94; Haitlinger, 1996: 985; 2009: 69

Type locality: Sarawak (Malaysia)

Distribution: India (Assam), Indonesia (Bali, Sanur, Lombok, Java, Sumatra, Ceram),  
Malaysia (Sarawak, Perak), Philippines

Hosts: *Aspidomorpha elevata*, *A. sanctaerucis* (Coleoptera: Chrysomelidae, Cassidinae);  
described from *Tarsius* sp. (Primates: Tarsiidae)

Genus ***Honiarrea*** Haitlinger

*Honiarrea* Haitlinger, 1990: 343

Type species: *Honiarrea lagossa* Haitlinger, 1990

***Honiarrea lagossa*** Haitlinger

*Honiarrea lagossa* Haitlinger, 1990: 343

Type locality: Hainan Is.

Distribution: China (Hainan Is.)

Host: *Passandra heros* (Coleoptera: Passandridae)

Genus ***Kamerucoptes*** Haitlinger

*Kamerucoptes* Haitlinger, 2002: 8

Type species: *Kamerucoptes doubeicus* Haitlinger, 2002

***Kamerucoptes doubeicus*** Haitlinger

*Kamerucoptes doubeicus* Haitlinger, 2002: 8

Type locality: Doube

Distribution: Cameroon

Host: *Aspidimorpha obovata* (Coleoptera: Chrysomelidae, Cassidinae)

***Kamerucoptes lycius*** Haitlinger

*Kamerucoptes lycius* Haitlinger, 2002: 13

Type locality: D.R. Congo

Distribution: D.R. Congo

Host: Lycidae gen. sp. (Coleoptera)

***Kamerucoptes ruvenzoricus*** Haitlinger

*Kamerucoptes ruvenzoricus* Haitlinger, 2002: 13

Type locality: Ruvenzori, Mutwanga

Distribution: Uganda

Host: *Aspidimorpha dissentonea* (Coleoptera: Chrysomelidae, Cassidinae)

***Kamerucoptes sibuticus*** Haitlinger

*Kamerucoptes sibuticus* Haitlinger, 2002: 16

Type locality: N'Chari, Fort Sibut

Distribution: Tshad

Host: *Lacoptera (Patrisma) murrayi* (Coleoptera: Chrysomelidae, Cassidinae)

***Kamerucoptes tsaratananaicus*** Haitlinger

*Kamerucoptes tsaratananaicus* Haitlinger, 2002: 19

Type locality: Mts Tsaratanana, 2000 m

Distribution: Madagascar

Host: *Cassida pretiosa* (Coleoptera: Chrysomelidae, Cassidinae)

Genus ***Nolaecoptes*** Haitlinger

*Nolaecoptes* Haitlinger, 1996: 987

Type species: *Nolaecoptes vonettae* Haitlinger, 1996

***Nolaecoptes tanahlotions*** Haitlinger

*Nolaecoptes tanahlotions* Haitlinger, 2009: 324

Type locality: Bali, Tanahlot

Distribution: Indonesia (Bali)

***Nolaecoptes vonettae*** Haitlinger

*Nolaecoptes vonettae* Haitlinger, 1996: 987

Type locality: Sikkim

Distribution: India (Sikkim)

Host: *Aspidomorpha sanctaegrucis* (Coleoptera: Chrysomelidae, Cassidinae)

Genus **Tannuicoptes** Haitlinger*Tannuicoptes* Haitlinger, 1999: 62Type species: *Tannuicoptes ulfi* Haitlinger, 1999***Tannuicoptes jeroni*** Haitlinger*Tannuicoptes jeroni* Haitlinger, 1999: 65

Type locality: Indonesia

Distribution: Indonesia

Host: *Corynodes compressicornis* (Coleoptera: Chrysomelidae, Eumolpinae)***Tannuicoptes ulfi*** Haitlinger*Tannuicoptes ulfi* Haitlinger, 1999: 62

Type locality: Sikkim

Distribution: India (Sikkim)

Host: *Aspidomorpha dorsata* (Coleoptera: Chrysomelidae, Cassidinae)Genus **Uvallicoptes** Haitlinger*Uvallicoptes* Haitlinger, 1999: 62Type species: *Uvallicoptes peeteri* Haitlinger, 1999***Uvallicoptes peeteri*** Haitlinger*Uvallicoptes peeteri* Haitlinger, 1999: 62

Type locality: ? Small Gela, Florida Is., Solomon Islands

Distribution: Solomon Islands, Indonesia [Sumatra]

Host: *Aspidomorpha adhaerens* (Coleoptera: Chrysomelidae, Cassidinae)**Index of Heterocoptidae**(Names in **bold** are accepted as valid)*Abboticoptes* 246*amaliae*, *Bahrucoptes* 247*Amarucoptes* 247*analevelonaicus*, *Gascaricoptes* 249*anthophora*, *Erotylocoptes* 248*Bahrucoptes* 247*barbarae*, *Heterocoptes* 249*busannae*, *Amarucoptes* 247*Cassiicoptes* 247*Conchycoptes* 247*doubaicus*, *Kamerucoptes* 251*eddae*, *Abboticoptes* 247*Erotylocoptes* 248*floresiensis*, *Heterocoptes* 249*Gascaricoptes* 249*hannae*, *Heterocoptes* 249*helenae*, *Erotylocoptes* 248*Heterocoptes* 249**Heterocoptidae** 246*Honiarrea* 251

- ingeri*, *Heterocoptes* 249  
*jeroni*, *Tannuicoptes* 253  
*Kamerucoptes* 251  
*kamillae*, *Heterocoptes* 249  
*lagossa*, *Honiarrea* 251  
*linodesmus*, *Erotylocoptes* 248  
*lombokensis*, *Heterocoptes* 250  
*lottae*, *Heterocoptes* 250  
*luluensis*, *Erotylocoptes* 248  
*lycius*, *Kamerucoptes* 252  
*marcellae*, *Heterocoptes* 250  
*mikki*, *Cassiocoptes* 247  
*nolae*, *Heterocoptes* 250  
*Nolaecoptes* 252  
*peeteri*, *Uvallicoptes* 252  
*rukaensis*, *Heterocoptes* 250  
*ruperti*, *Heterocoptes* 250  
*ruvenzoricus*, *Kamerucoptes* 252  
*samueli*, *Heterocoptes* 250  
*sibuticus*, *Kamerucoptes* 252  
*simonettae*, *Heterocoptes* 251  
*sumatrensis*, *Heterocoptes* 251  
*tanahlotions*, *Nolaecoptes* 252  
*tangaicus*, *Conchycoptes* 247  
*Tannuicoptes* 253  
*taoetiae*, *Erotylocoptes* 248  
*tarsii*, *Heterocoptes* 251  
*tsaratananaicus*, *Kamerucoptes* 252  
*ulfi*, *Tannuicoptes* 253  
*Uvallicoptes* 253  
*verenae*, *Erotylocoptes* 248  
*vonettae*, *Nolaecoptes* 252

## Distribution of Heterocoptidae

### AFRICA

- Cameroon** (Haitlinger, 2002) – *Kamerucoptes doubeicus*  
**Congo (Brazzaville)** (Haitlinger, 1996) – *Erotylocoptes verenae*  
**Congo DR** (Fain, 1987; Haitlinger, 2002) – *Erotylocoptes anthophora*, *E. linodesmus*, *E. luluensis*, *Kamerucoptes lycius*  
**Madagascar** (Haitlinger, 2002) – *Gascaricoptes anavelevelonaicus*, *Kamerucoptes tsaratananaicus*  
**Mozambique** (Haitlinger, 1996) – *Erotylocoptes helenae*  
**South Africa** (Haitlinger, 1996) – *Erotylocoptes helenae*  
**Tanzania** (Haitlinger, 1996, 2002) – *Conchycoptes tangaicus*, *Erotylocoptes taoetiae*  
**Tshad** (Haitlinger, 2002) – *Kamerucoptes sibuticus*  
**Uganda** (Haitlinger, 2002) – *Kamerucoptes ruvenzoricus*

### ASIA

- China** (Haitlinger, 1998; Fan, Chen & Wang, 2010) – *Heterocoptes hannaie*, *H. kamillae*  
**Hainan** (Haitlinger, 1990) – *Honiarrea lagossa*  
**India** (Fain, 1967; Haitlinger, 1996, 1999) – *Heterocoptes tarsii*, *Nolaecoptes vonettae*, *Tannuicoptes ulfi*  
**Andaman Is.** (Haitlinger, 1996) – *Heterocoptes nolae*  
**Indonesia** (Haitlinger, 1996, 1999; 2009a) – *Cassiocoptes mikki* [Sumatra], *Heterocoptes floresiensis* [Flores], *H. lombokensis* [Lombok, Bali, Java], *H. marcellae* [Sulawesi],



*H. ruperti* [Sumatra], *H. sumatrensis* [Sumatra], *H. tarsii* (Bali, Sanur, Lombok, Sumatra, Java, Ceram), *Nolaecoptes tanahloticus* [Bali], *Uvallicoptes peeteri* [Sumatra], *Tannuicoptes jeroni*

**Malaysia** (Fain, 1967; Haitlinger, 1999) – *Bahrucoptes amaliae*, *Heterocoptes tarsii*

**Sarawak and Sabah** (Fain, 1967) – *Heterocoptes tarsii*

**Philippines** (Haitlinger, 1996, 1999) – *Abboticoptes eddae*, *Heterocoptes ingeri*, *H. tarsii*,

**Vietnam** (Haitlinger, 1996) – *Heterocoptes lottae*

## NORTH AMERICA

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

## SOUTH and CENTRAL AMERICA

**Peru** (Haitlinger, 2001) – *Amarucoptes busannae*

## OCEANIA

**Australia** (Haitlinger, 2009a) – *Heterocoptes samueli*

**Papua New Guinea** (Haitlinger, 1999, 2009) – *Heterocoptes simonettae*, *H. rukaensis*

**New Britain** (Haitlinger, 2009a) – *Heterocoptes barbarae*

**New Ireland** – *Uvallicoptes peeteri*

**Solomon Islands** (Haitlinger, 1999) – *Uvallicoptes peeteri*

## Hosts of Heterocoptidae

### Insecta

#### Coleoptera

##### Fam. Chrysomelidae

##### Subfam. Hispinae

*Conchyloctenia hybrida* – *Conchyloptes tangaicus*

*Lasiochila* sp. – *Cassiocoptes mikki*

*Platypria echinogale* – *Heterocoptes ruperti*

##### Subfam. Cassidinae

*Aspidimorpha adhaerens* – *Uvallicoptes peeteri*

*Aspidimorpha amabilis* – *Heterocoptes marcellae*

*Aspidimorpha dissentonea* – *Kamerucoptes ruvenzoricus*

*Aspidimorpha dorsata* – *Tannuicoptes ulfi*

*Aspidimorpha elevata* – *Bahrucoptes amaliae*, *Heterocoptes tarsii*

*Aspidimorpha fuscopunctata* – *Uvallicoptes peeteri*

*Aspidimorpha inquinata* – *Heterocoptes nolae*

*Aspidimorpha miliaris* – *Heterocoptes kamillae*, *H. lombokensis*

*Aspidimorpha obovata* – *Kamerucoptes doubeicus*

*Aspidimorpha punctum* – *Heterocoptes simonettae*

*Aspidimorpha quadrilobata* – *Abboticoptes edda*  
*Aspidimorpha quadriradiata* – *Heterocoptes samueli*  
*Aspidimorpha sanctaecrucis* – *Heterocoptes lombokensis*, *H. tarsii*, *No-  
laecoites tanahloticus*, *N. vonettae*  
*Aspidimorpha socia* – *Heterocoptes barbarae*  
*Basipronota bisignata* - *Heterocoptes hanna*  
*Basipronota decemmaculata* - *Heterocoptes sumatrensis*  
*Cassida fuscomacula* - *Gascaricoptes analevelonaicus*  
*Cassida pretiosa* - *Kamerucoptes tsaratananaicus*  
*Laccoptera aurosa* - *Erotylocoptes taorettae*  
*Laccoptera caduca* – *Erotylocoptes verenae*  
*Laccoptera hospita* – *Heterocoptes lottae*  
*Laccoptera (Patrisma) murrayi* - *Kamerucoptes sibuticus*  
*Laccoptera rugosicollis* - *Erotylocoptes helenae*  
*Laccoptera tredecimguttata* – *Heterocoptes ingeri*

Subfam. **Eumolpinae**

*Corynodes compressicornis* - *Tannuicoptes jeroni*

**Fam. Erotylidae**

*Linodesmus coccus apicalis* – *Erotylocoptes linodesmus*

**Fam. Lycidae** gen. sp. - *Kamerucoptes lycius*

**Fam. Passandridae**

*Passandra heros* – *Honiarrea lagossa*

**Fam. Passalidae** gen.sp. - *Amarucoptes busannae*

**Hymenoptera**

**Fam. Apidae**

*Anthophora acraensis* - *Erotylocoptes anthophora*

**Fam. Sphecidae**

*Chlorion (Isodontia) simoni* – *Erotylocoptes luluensis*

**Mammalia**

**Primates**

**Fam. Tarsiidae**

*Tarsius* sp. - *Heterocoptes tarsii*

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## The Mite Superfamily Hemisarcoptoidea

According to O'Connor (2009), the superfamily contains the families Chaetodactylidae, Hyadesiidae, Carpoglyphidae, Algophagidae, Hemisarcoptidae and Winterschmidtidae, or in total 51 genera and ca. 345 species. Some of them (Chaetodactylidae) live on Hymenoptera, some (Hyadesiidae, Algophagidae) prefer the sea shore and the saline habitats. Hemisarcoptidae are found to live as parasites on Insects (Coccoidea, Coleoptera – Chrysomelidae, Coccinellidae) and some of them are used for the pest control. Carpoglyphidae and Winterschmidtidae are inhabitants of rotten materials, sometimes found also on insects.

## The Mite Family Chaetodactylidae

Glyciphagidae (Chaetodactylinae) Zachvatkin, 1941: 347

Chaetodactylidae Zachvatkin: Baker, 1962: 229 (part.); Klimov & OConnor, 2008: 98

Obligate associates of long-tongued bees (OConnor & Klimov, 2009). From the five known genera in the family the first (*Chaetodactylus* Rondani) has been described as early as in 1866, but remained the only one until Oudemans (1905) described (based on *Pediculus cerambycinus* Scopoli, 1763) the large genus *Sennertia*, revised much later by Fain (from 1966 to 2001). The thorough study of the family starts with the results of B. OConnor and P. Klimov, who published generic revision of the group (OConnor, 1993) and very detailed monograph (Klimov & OConnor, 2008), containing the history of the research on Chaetodactylidae until this time. As early as in 1903 Tschitscherin separated these mites in a group Chaetodactylini. Zachvatkin (1941) considered Chaetodactylinae as subfamily of Glyciphagidae and Baker (1962) raised them in a family rank. Meanwhile some other authors contributed to the taxonomy and/or the biology of Chaetodactylidae (Womersley, 1941, Vitzthum, 1941, Elbadry, 1971, Delfinado & Baker, 1976, Sherbef & El-Duweini, 1980, Baker & Delfinado-Baker, 1983, Haitlinger, 1999, 2000, Kurosa, 1987, 2003, Ramaraju & Mohanasundaram, 2001, and others).

### Composition of Chaetodactylidae

**Fam. Chaetodactylidae** Zachvatkin, 1941–5 genera, 109 sp.

*Achaetodactylus* Fain, 1981–3 sp.

*Centriacarus* Klimov et OConnor, 2007–2 sp.

*Chaetodactylus* Rondani, 1866–26 sp.

*Roubikia* OConnor, 1993–4 sp.

*Sennertia* Oudemans, 1905–72 sp.

### Catalogue of Chaetodactylidae

**Fam. Chaetodactylidae** Zachvatkin

Glyciphagidae (Chaetodactylinae) Zachvatkin, 1941: 347

Chaetodactylidae Zachvatkin; Baker, 1962: 229 (par.); Klimov & OConnor, 2008 : 98

Type genus: *Chaetodactylus* Rondani, 1866

Genus *Achaetodactylus* Fain

*Achaetodactylus* Fain, 1981a: 2 (as subgenus)

*Achaetodactylus* Fain: Klimov et al., 2007a: 1370 (as genus)  
*Chaetodactylus* (*Ochaetodactylus*) Fain, 1981b: 2. Type species *Chaetodactylus decellei* Fain, 1974  
 Type species: *Chaetodactylus leleupi* Fain, 1974

***Achaetodactylus ceratinae*** (Fain)

*Chaetodactylus ceratinae* Fain, 1974a: 214  
*Chaetodactylus* (*Achaetodactylus*) *ceratinae* Fain, 1981a: 4  
*Achaetodactylus ceratinae* (Fain): Klimov et al., 2007a: 1371; Klimov & OConnor, 2008: 215  
 Type locality: Nairobi  
 Distribution: Kenya, South Africa, Tanzania  
 Hosts: *Ceratina apaca*, *Ceratina* (*Hirashima*) *lativentris*, *C. (H.) nigriceps* (Hymenoptera: Apidae, Xylocopinae)

***Achaetodactylus decellei*** (Fain)

*Chaetodactylus decellei* Fain, 1974: 215  
*Chaetodactylus* (*Ochaetodactylus*) *decellei*: Fain, 1981a: 8  
*Ochaetodactylus decellei*: Klimov et al., 2007a: 1371  
*Achaetodactylus decellei* (Fain): Klimov & OConnor, 2008: 216  
 Type locality: Ngurdoto Nat. Park, Tanzania  
 Distribution: Cameroon, DR Congo, Tanzania  
 Hosts: *Ceratina aereola*, *C. excavata*, *C. spilota* (Hymenoptera: Apidae, Xylocopinae)

***Achaetodactylus leleupi*** (Fain)

*Chaetodactylus leleupi* Fain, 1974: 214  
*Chaetodactylus* (*Achaetodactylus*) *leleupi*: Fain, 1981a: 4; Fain & Pauly, 2001: 131  
*Achaetodactylus leleupi* (Fain): Klimov et al., 2007a: 1371; Klimov & OConnor, 2008: 215  
 Type locality: Karen, Nairobi (Kenya)  
 Distribution: Cameroon, DR Congo, Kenya, Tanzania  
 Hosts: *Ceratina* (*Hirashima*) *lativentris*, *Ceratina diloloensis*, *C. ruwenzorica*, *C. spilota* (Hymenoptera: Apidae, Xylocopinae)

Genus ***Centriacarus*** Klimov et OConnor

*Centriacarus* Klimov & OConnor, 2007: 816  
 Type species: *Centriacarus turbator* Klimov et OConnor, 2007

***Centriacarus guahibo*** Klimov et OConnor

*Centriacarus guahibo* Klimov & OConnor, 2007: 817; Klimov et al., 2007a: 1371; 2008: 216  
 Type locality: Territorio Amazonas  
 Distribution: Venezuela  
 Host: *Centris* sp. (Hymenoptera: Apidae, Apinae)

***Centriacarus turbator*** Klimov et OConnor

*Centriacarus turbator* Klimov & OConnor, 2007: 816; Klimov et al., 2007a: 1371; Klimov & OConnor, 2008: 216

Type locality: Mato Grosso de Sul, Aquidauana (Brazil)

Distribution: Brazil, Colombia, Mexico, Panama

Host: *Centris (Heterocentris) vittata* (Hymenoptera: Apidae, Apinae)

**Genus *Chaetodactylus*** Rondani

*Chaetodactylus* Rondani, 1866: 19

Type species: *Trichodactylus osmiaie* Dujardin, 1839

**Subgenus *Chaetodactylus*** Rondani

*Chaetodactylus* Rondani, 1866: 19

Type species: *Trichodactylus osmiaie* Dujardin, 1839

***Chaetodactylus abditus*** Klimov et OConnor

*Chaetodactylus abditus* Klimov & OConnor, 2004: 175; 2008: 124

Type locality: Arizona, Pima Co., Continental

Distribution: Mexico, USA (Arizona)

Hosts: *Lithurgus (Lithurgopsis) echinocacti*, *L. (Lithurgopsis) planifrons* (Hymenoptera: Megachilidae)

***Chaetodactylus anthidii*** (Oudemans)

*Trichotarsus anthidii* Oudemans, 1911a: 165; Vitzthum, 1919: 31

*Chaetodactylus anthidii*: Oudemans, 1924: 328; Zachvatkin, 1941: 398; Klimov & OConnor, 2008: 110

*Chaetodactylus (Chaetodactylus) anthidii*: Fain, 1981a: 2; OConnor, 1993a: 62

Type locality: Tunisia

Distribution: Tunisia

Host: *Rhodanthidium sticticum* (as *Anthidium sticticum*) (Hymenoptera: Megachilidae)

***Chaetodactylus antillarum*** Klimov et OConnor

*Chaetodactylus antillarum* Klimov & OConnor, 2008: 113

Type locality: Jamaica, Hellshire Hills

Distribution: Dominican Republic, Jamaica

Host: *Lithurgus antilleorum antilleorum* (Hymenoptera: Megachilidae)

***Chaetodactylus azteca*** Klimov et OConnor

*Chaetodactylus azteca* Klimov & OConnor, 2008: 127

Type locality: Hidalgo: Tepeapulco

Distribution: Mexico

Host: *Osmia (Diceratosmia) azteca* (Hymenoptera: Megachilidae)

***Chaetodactylus birulai*** Zachvatkin

*Chaetodactylus birulai* Zachvatkin, 1941: 396; Samšínák, 1973: 404; Fain, 1974a: 213; Klimov & OConnor, 2008: 216

*Chaetodactylus (Chaetodactylus) birulai* Zachvatkin: Fain, 1981a: 3; Kurosa, 1987: 373

*Chaetodactylus poetae* Samšínák, 1973: 401; Fain, 1981a: 2. Type: Czech Republic: Sobotka; syn. by Klimov & OConnor, 2008: 109

*Chaetodactylus (Chaetodactylus) poetae*: Kurosa, 1987: 373

Type locality: Kirovskaya Oblast' (Russia)

Distribution: Czech Rep., Holland, Russia

Host: *Chelostoma florissomne* (Hymenoptera: Megachilidae), also found phoretic on cleptoparasites: *Sapyga quinquepunctata*, *Sapyga clavicornis* (Hymenoptera: Sapygidae)

***Chaetodactylus chrysidis*** Fain et Baugnée

*Chaetodactylus chrysidis* Fain & Baugnée, 1996: 23; Van Asselt, 2000: 225; Klimov & OConnor, 2008: 110

*Chaetodactylus chrysidis aurulenticola* Fain & Baugnée, 1996: 28. Type: Belgium, Treignes-Rivelottes, ex *Osmia aurulenta*; syn. by Klimov & OConnor, 2008: 110; Van Asselt, 2000: 225

Type locality: Treignes-Saumières

Distribution: Belgium

Host: *Chrysura trimaculata* (Hymenoptera: Chrysididae), *Osmia aurulenta* and *O. bicolor* (Hymenoptera: Megachilidae)

***Chaetodactylus claudus*** Klimov et OConnor

*Chaetodactylus claudus* Klimov & OConnor, 2008: 133

Type locality: Utah, Cache Co., Green Canyon

Distribution: USA (Utah, Texas)

Host: *Osmia (O.) rubiflorus* (Hymenoptera: Megachilidae)

***Chaetodactylus claviger*** Oudemans

*Chaetodactylus claviger* Oudemans, 1924: 328; Zachvatkin, 1941: 396; Klimov & OConnor, 2008: 111

*Chaetodactylus (Spinodactylus) claviger*: Fain, 1981a: 2 (part., excluding *Chaetodactylus krombeini*)

*Chaetodactylus osmiae*: Abou Senna, 1997: 667 (misidentification, Egypt, from *Apis mellifera*)

Type locality: Promontorio del Gargano ("Monte Gargano, Apulië"), Italy

Distribution: Egypt, France, Italy

Hosts: *Osmia tricornis* (Hymenoptera: Megachilidae), *Apis mellifera* (Hymenoptera: Apidae)

***Chaetodactylus dalyi* Fain**

*Chaetodactylus dalyi* Fain, 1974: 213; Klimov & OConnor, 2007: 826; 2008: 213

*Chaetodactylus (Chaetodactylus) dalyi*: Fain, 1981a: 6

Type locality: Natal

Distribution: Mozambique, South Africa, Zimbabwe

Host: *Ceratina (Pithitis) turneri* (Hymenoptera: Apidae, Xylocopinae)

***Chaetodactylus dementjevi* Zachvatkin**

*Chaetodactylus dementjevi* Zachvatkin, 1941: 399; Klimov & OConnor, 2008: 103

*Chaetodactylus (Achaetodactylus) dementjevi*: Fain, 1981a: 2

Type locality: Uzbekistan: Toshkent (Gora Aktash)

Distribution: Kazakhstan, Russia, Uzbekistan

Hosts: *Megachile bombycina*, *M. ligniseca* (Hymenoptera: Megachilidae), also on *Vespula germanica* (Vespidae)

***Chaetodactylus furunculus* Klimov et OConnor**

*Chaetodactylus furunculus* Klimov & OConnor, 2008: 116

Type locality: California, San Bernardino Co., Cedar Canyon

Distribution: USA (California)

Host: *Lithurgus listrotus* (Hymenoptera: Megachilidae)

***Chaetodactylus gibbosi* Klimov et OConnor**

*Chaetodactylus gibbosi* Klimov & OConnor, 2004: 178; 2008: 124

Type locality: Florida, Liberty Co.

Distribution: USA (Florida)

Host: *Lithurgus gibbosus* (Hymenoptera: Megachilidae)

***Chaetodactylus hirashimai* Kurosa**

*Chaetodactylus (Chaetodactylus) hirashimai* Kurosa, 1987: 374

*Saproglyphus* sp.: Hirashima, 1957: 200 (Host: *Osmia excavata*)

*Chaetodactylus* sp.: Krombein, 1962: 239; Host: *Osmia excavata*, Japan

*Chaetodactylus hirashimai*: Qu et al., 2002: 121; Klimov & OConnor, 2008: 110

Type locality: Japan: Honshu, Nara Pref., Nara-shi, Furuichi-chô

Distribution: Japan (Honshu, Kyushu)

Hosts: *Osmia (Osmia) excavata*, *O. (O.) cornifrons*, *O. (O.) pedicornis*, *Osmia (Helicosmia) imaii*

(Hymenoptera: Megachilidae)



***Chaetodactylus hopliti* Klimov et OConnor**

*Chaetodactylus hopliti* Klimov & OConnor, 2008: 137

Type locality: New York, Onondaga Co., Syracuse

Distribution: Canada, USA

Hosts: *Hoplitis (Alcidamea) producta* (type host); *Hoplitis (Alcidamea) pilosifrons*; *Hoplitis (Monumetha) spoliata*; *Megachile (Megachile) relativa*; *Osmia (Melanosmia) brevis*; *Osmia (Centrosmia) bucephala*; *Osmia (Chenosmia) inermis* (Megachilidae); *Isodontia mexicana* (Hymenoptera: Sphecidae)

***Chaetodactylus kouboy* Klimov et OConnor**

*Chaetodactylus kouboy* Klimov & OConnor, 2008: 121

Type locality: New Mexico, Colfax Co., Cimarron Canyon

Distribution: USA (New Mexico)

Host: *Lithurgus (Lithurgopsis) apicalis* (Hymenoptera: Megachilidae)

***Chaetodactylus krombeini* Baker**

*Chaetodactylus krombeini* Baker, 1962: 229; Klimov & OConnor, 2008: 141; McKinney & Park, 2012:

*Chaetodactylus (Spinodactylus) krombeini* Baker: Fain, 1981 : 2; OConnor, 1993a: 362

Type locality: Maryland

Distribution: USA

Hosts: *Osmia cornifrons*, *O. rubifloris*, *O. r. biedermanni*, *O. bucephala*, *O. chlybaea*, *O. lignaria propinqua*, *O. montana*, *O. californica*, *O. grindeliae* (Hymenoptera: Magachilidae)

***Chaetodactylus lassulus* Klimov et OConnor**

*Chaetodactylus lassulus* Klimov & OConnor, 2007: 824; 2008: 111

Type locality: Coquimbo

Distribution: Chile

Hosts: *Trichothurgus dubius*, *T. herbsti* (Hymenoptera: Magachilidae)

***Chaetodactylus lithurgi* Klimov et OConnor**

*Chaetodactylus lithurgi* Klimov & OConnor, 2004: 173; 2008: 121

Type locality: New Mexico, Colfax Co., Cimarron Canyon

Distribution: USA (New Mexico, Idaho, Texas, Arizona)

Hosts: *Lithurgus apicalis*, *L. gibbosus*, *L. littoralis* (Hymenoptera: Megachilidae)

***Chaetodactylus ludwigi* (Trouessart)**

*Trichotarsus Ludwigi* Trouessart, 1904a: 234; 1904b: 365; Ludwig, 1904: 216; Vitzthum, 1912d: 292; 1919; Knülle, 1959: 385

*Chaetodactylus ludwigi* (Trouessart): Zachvatkin, 1941: 42; Baker, 1962a: 229; 1987: 65; OConnor, 1993a: 353; Pauly & Munzinger, 2003: 160; Klimov & OConnor, 2007: 826; Klimov et al., 2007a: 1371; Klimov & OConnor, 2008: 111

*Chaetodactylus (Chaetodactylus) ludwigi*: Fain & Pauly, 2001: 128

Type locality: Carolines Islands: Ponapé

Distribution: Federated States of Micronesia: Pohnpei Is. (“Carolines Islands: Ponapé”); New Caledonia; French Polynesia: Moorea Is. Nr. Taiti; India, Indonesia (Java), Madagascar

Hosts: *Lithurgus (Lithurgus) atratus* (as *Megachile lonalap*), nest; *Lithurgus scabrosus* (Hymenoptera: Megachilidae)

***Chaetodactylus melitomae*** Klimov et OConnor

*Chaetodactylus melitomae* Klimov & OConnor, 2007: 821; 2008: 113

Type locality: Mexico: Tabasco, Cardenas

Distribution: Honduras, Mexico

Host: *Melitoma* sp., *Melitoma segmentaria* (Hymenoptera: Apidae, Apinae)

***Chaetodactylus micheneri*** Klimov et OConnor

*Chaetodactylus micheneri* Klimov & OConnor, 2008: 127

Type locality: California, Fresno Co., Mt. Crocker, 11800 ft.

Distribution: USA (California)

Host: *Osmia subaustralis* (Hymenoptera: Megachilidae)

***Chaetodactylus nipponicus*** Kurosa

*Chaetodactylus* sp.: Yamada et al., 1971: 32

*Chaetodactylus (Chaetodactylus) nipponicus* Kurosa, 1987: 377

*Chaetodactylus nipponicus*: Van Asselt, 2000: 221; Bosh & Kemp, 2001: 62; Qu et al., 2002: 121; Qu et al., 2003: 55; Klimov & OConnor, 2008: 110

Type locality: Tsugaru-gun (Tsushima Is.)

Distribution: Japan (Tsushima Is., Honshu)

Hosts: *Osmia (Osmia) excavata*, *O. (O.) cornifrons*, *O. (O.) taurus*, *O. (O.) pedicornis* (Hymenoptera: Megachilidae)

***Chaetodactylus osmiae*** (Dufour)

*Trichodactylus osmiae* Dufour, 1839: 276; Gervais, 1844: 266 (part.); Murray, 1877: 252 (part.); Mégnin, 1880: 147; Canestrini, 1888a: 395; 1888b: 23

*Chaetodactylus osmiae*: Rondani, 1866: 183; Zachvatkin, 1941: 394 (part.); Turk, 1953: 82; Türk & Türk, 1957: 207; Lith, 1957: 197; Baker, 1962a: 229; 1987: 65; Krombein, 1962: 238; Fain, 1966: 249; Elbadry, 1971: 88; De Jong et al., 1982: 245 (*Apis*); Bosch, 1992: 77; Chmielewski, 1993: 133; Fain & Baugnée, 1996: 23; Van Asselt, 2000: 221;

Fain & Pauly, 2001: 127; Qu et al., 2003: 59; Krunic' et al., 2005: 143; Klimov et al., 2007a: 1371; Klimov & OConnor, 2008: 110

*Trichotarsus osmiae*: Berlese, 1897: 105; Canestrini & Kramer, 1899: 149; Giard, 1900: 377; Oudemans, 1900: 117; 1901: 81; 1903a: 147; 1905a: 22; Oudemans, 1905b: 80; 1911a: 165; Michael, 1903: 17; Ludwig, 1904: 216; Trouessart, 1904a: 235; 1904b: 365; Vitzthum, 1912d: 291; 1919: 38; Popovici-Bazosanu, 1913: 32; Knülle, 1959: 385

*Chaetodactylus mahunkai* Samsinák, 1973: 404. Type: Hungary; synonymized by Fain, 1981b.

*Chaetodactylus (Chaetodactylus) osmiae*: Fain, 1981b: 4; Kurosa, 1987: 373; OConnor, 1993a: 353

Misidentifications (acc. to Klimov & OConnor, 2008): Donnadieu, 1868 (*Chaetodactylus claviger*), Banks, 1902: 176 (*Chaetodactylus krombeini* or *Ch. rozeni*), Abou Senna, 1997 (*Chaetodactylus claviger*), Fain et al., 1992 (*Chaetodactylus chrysidis aurulenticola*)

Type locality: France, Département des Landes (Gervais)

Distribution: Belgium, Croatia, England, France, Georgia, Germany, Holland, Hungary, Italy, Luxemburg, Poland, Romania, Russia

Hosts: *Osmia bicornis*, *O. cornuta*, *O. fronticornis*, *O. kohlii*, *O. niveata*, *O. rufa*, *O. rufiventris*, *O. tricornis* (Hymenoptera: Megachilidae); *Andrena* spp., *Megachile* sp. (Berlese); *Anthophora* sp.

### ***Chaetodactylus reaumuri* (Oudemans)**

*Trichotarsus reaumuri* Oudemans, 1905b: 81; 1905a: 22; 1911a: 165; Vitzthum, 1919: 31

*Chaetodactylus reaumuri* (Oudemans): Oudemans, 1924: 328; Vitzthum, 1929: 77; Zachvatkin, 1941: 396; Türk & Türk, 1957: 210; Fain & Baugnée, 1996: 28; Klimov & OConnor, 2008: 110

*Chaetodactylus (Chaetodactylus) reaumuri*: Fain, 1981b: 2; Kurosa, 1987: 373 (*reamuri*); OConnor, 1993a: 362 (*reaumerii*)

Type locality: Kolin (Czech Rep.)

Distribution: Czech Rep., Georgia, Germany, Greece (Corfu), ? Poland ("Odran, Oost-nrijksch Silezië"); Crimea.

Hosts: *Osmia rufiventris*, *O. brevicornis*, *O. leucogastra* (as *Osmia panzeri*) (Hymenoptera: Megachilidae)

### ***Chaetodactylus rozeni* Klimov et OConnor**

*Chaetodactylus rozeni* Klimov & OConnor, 2008: 132

Type locality: North Carolina, Swain Co., Bryson City

Distribution: USA (North Carolina, Texas, Tennessee)

Hosts: *Osmia georgica* (Hymenoptera: Megachilidae); *Chrysis coeruleans* (Hymenoptera: Chrysididae)

***Chaetodactylus zachvatkini*** Klimov et OConnor

*Chaetodactylus zachvatkini* Klimov & OConnor, 2008: 110 (nom. nov. pro *Chaetodactylus osmia* sensu Zachvatkin, 1941(part., non Dufour, 1839)

Type locality: Italy

Distribution: Italy, Spain, Tunisia

Hosts: *Osmia cornuta*, *O. latreillei*, *O. niveata*, *O. tricornis* (Hymenoptera: Megachilidae)

Genus ***Roubikia*** OConnor

*Roubikia* OConnor, 1993: 347

Type species: *Chaetodactylus panamensis* Baker, Roubik et Delfinado-Baker, 1987

***Roubikia imberba*** Klimov et OConnor

*Roubikia imberba* Klimov & OConnor, 2007: 819; 2008: 221

Type locality: Tucumán, Salta

Distribution: Argentina

Host: *Tetrapedia* sp. (Hymenoptera: Apidae, Apinae) and its cleptoparasites *Coelioxoides waltheriae* and *C. exulans*

***Roubikia latebrosa*** Klimov et OConnor

*Roubikia latebrosa* Klimov & OConnor in Klimov et al., 2007b: 118; Klimov et al., 2007a: 1371; Klimov & OConnor, 2008: 103

Type locality: Loreto

Distribution: Peru

Host: *Tetrapedia* sp. (Hymenoptera: Apidae, Apinae)

***Roubikia officiosa*** Klimov et OConnor

*Roubikia officiosa* Klimov & OConnor, 2007: 821; 2008: 107

Type locality: Jalisco

Distribution: Mexico

Host: *Tetrapedia maura* (Hymenoptera: Apidae, Apinae)

***Roubikia panamensis*** (Baker, Roubik et Delfinado-Baker)

*Chaetodactylus panamensis* Baker, Roubik & Delfinado-Baker, 1987: 67; Roubik, 1987: 75

*Roubikia panamensis* (Baker, Roubik et Delfinado-Baker): OConnor, 1993 : 345; Van Asselt, 2000: 225; Klimov & OConnor, 2007: 819; Klimov et al., 2007a: 1371; 2007b: 116; Klimov & OConnor, 2008: 103

Type locality: Panama, Curundú

Distribution: Bolivia, Brazil, French Guiana, Mexico, Panama

Hosts: *Tetrapedia diversipes*, *T. peckoltii* (Hymenoptera: Apidae, Apinae), also phoretic on *Coelioxoides waltheriae* (cleptoparasite of *Tetrapedia diversipes*)

Genus **Sennertia** Oudemans*Sennertia* Oudemans, 1905: 21Type species: *Pediculus cerambycinus* Scopoli, 1763Subgenus **Afro-sennertia** Fain*Afro-sennertia* Fain, 1981b: 147*Asio-sennertia* Fain, 1981b: 147, type species: *Sennertia (Afro-sennertia) delfinadoae* Fain, 1981, synonymized by Klimov & OConnor, 2008: 147Type species: *Sennertia monicae* Fain, 1971***Sennertia (Afro-sennertia) basilewskyi*** Fain*Sennertia basilewskyi* Fain, 1974: 215; Klimov & OConnor, 2008: 223*Sennertia (Afro-sennertia) basilewskyi*: Fain, 1981b: 180; Fain, 1982: 67

Type locality: Bambesa, Haut-Congo Prov.

Distribution: DR Congo

Hosts: Hymenoptera (Megachilidae); *Chedron nigrihirtum*, *Mesotrichia africana****Sennertia (Afro-sennertia) delfinadoae*** Fain*Sennertia (Asio-sennertia) delfinadoae* Fain, 1981b: 172*Sennertia delfinadoae* Fain: Klimov & OConnor, 2008: 227*Sennertia bakeri* Ramaraju & Mohanasundaram, 2001: 109 (Type: Tamil Nadu Coimbatore; Klimov & OConnor, 2008: 227)

Type locality: India

Distribution: India

Host: *Xylocopa (Nodula) amethystina* (Hymenoptera: Apidae, Xylocopinae)***Sennertia (Afro-sennertia) jeanalexi*** Fain*Sennertia jeanalexi* Fain, 1971: 269; Fain, 1974a: 216; Klimov & OConnor, 2008: 230*Sennertia (Afro-sennertia) jeanalexi*: Fain, 1981b: 178; Fain, 1982: 67; OConnor, 1993a: 362

Type locality: Bubulu river, near Mvungu, Mayumbe

Distribution: DR Congo

Hosts: *Xylocopa (Koptortosoma) nigrita*, *X. (K.) lepeletieri* (Hymenoptera: Apidae, Xylocopinae)***Sennertia (Afro-sennertia) monicae*** Fain*Sennertia monicae* Fain, 1971: 269; 1974a: 215; Klimov & OConnor, 2008: 233*Sennertia (Afro-sennertia) monicae*: Fain, 1981b: 178; 1982: 67

Type locality: Kivu, Uvira

Distribution: DR Congo

Host: *Xylocopa (Xenoxylocopa) inconstans* (as *Mesotrichia inconstans*) (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Afrosennertia) oudemansi*** Zachvatkin*Sennertia oudemansi* Zachvatkin, 1941: 390; Turk, 1948: 84; Klimov & OConnor, 2008: 233*Sennertia (Asiosennertia) oudemansi*: Fain, 1981b: 176

Type locality: Japan

Distribution: Japan

Host: *Xylocopa (Biluna) nasalis* (as *Xylocopa dissimilis*) (Hymenoptera: Apidae, Xylocopinae)***Sennertia (Afrosennertia) queenslandica*** Womersley*Sennertia queenslandica* Womersley, 1941: 479; Klimov & OConnor, 2008: 234*Sennertia (Asiosennertia) queenslandica*: Fain, 1981b: 176*Sennertia (Afrosennertia) queenslandica*: Fain, 1982: 68

Type locality: Queensland, «Moa Is., Torres Straits»

Distribution: Australia

Host: *Xylocopa (Koptortosoma) bryorum* (as *Mesotrichia bryorum*) (Hymenoptera: Apidae, Xylocopinae)***Sennertia (Afrosennertia) vitzthumi*** Fain*Sennertia (Asiosennertia) vitzthumi* Fain, 1981b: 172*Sennertia vitzthumi* Fain: Klimov & OConnor, 2008: 237

Type locality: Unknown

Distribution: Unknown (probably Oriental)

Host: Unknown

Subgenus ***Amsennertia*** Fain*Amsennertia* Fain, 1981a: 147Type species: *Sennertia frontalis* Vitzthum, 1941***Sennertia (Amsennertia) americana*** Delfinado et Baker*Sennertia americana* Delfinado & Baker, 1976: 84; OConnor, 1988: 341; 1993b: 164; Ramaraju & Mohanasundaram, 2001: 107; Klimov & OConnor, 2008: 173*Sennertia (Amsennertia) americana* (Delfinado et Baker): Fain, 1981b: 147; Alzuet & Abrahamovich, 1987: 350; Lombert et al., 1987: 113; OConnor, 1993a: 362

Type locality: New York (Albany Co., Albany)

Distribution: USA

Host: *Xylocopa (Xylocopoides) virginica*, X. (*Xylocopoides virginica texana*) (Hymenoptera: Apidae, Xylocopinae)***Sennertia (Amsennertia) faini*** Baker et Delfinado-Baker*Sennertia faini* Baker & Delfinado-Baker, 1983: 117; Alzuet & Abrahamovich, 1987: 350; Ramaraju & Mohanasundaram, 2001: 107 (*Senertia*); Klimov & OConnor, 2008: 170

Type locality: Sololá, San Lucas Tolimán  
 Distribution: Guatemala  
 Host: *Apis mellifera* (Hymenoptera: Apidae, Apinae)

***Sennertia (Amsennertia) frontalis*** Vitzthum

*Sennertia frontalis* Vitzthum, 1941: 308; Baker & Delfinado-Baker, 1983: 119; Ramaraju & Mohanasundaram, 2001: 109; Klimov & OConnor, 2008: 179  
*Sennertia (Amsennertia) frontalis* Vitzthum : Fain, 1981b: 176; Alzuet & Abrahamovich, 1987: 346; 1990: 630; OConnor, 1993a: 362

Type locality: Argentina, Entre Rios  
 Distribution: Argentina, Brazil, Honduras, Mexico, Panama, Peru, Suriname, Venezuela  
 Hosts: *Xylocopa (Neoxylocopa) frontalis*, *X. (N.) nautlana* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Amsennertia) ignota*** Delfinado et Baker

*Sennertia ignota* Delfinado & Baker, 1976: 85; Baker & Delfinado-Baker, 1983: 119; Klimov & OConnor, 2008: 211

*Senertia ignota* [sic !]: Ramaraju & Mohanasundaram, 2001: 107  
*Sennertia (Amsennertia) ignota*: Fain, 1981a: 178; Alzuet & Abrahamovich, 1987: 346  
 Type locality: Peru: Piura, Talara

Distribution: Peru  
 Host: *Xylocopa* sp. (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Amsennertia) longipilis*** Alzuet et Abrahamovich

*Sennertia (Amsennertia) longipilis* Alzuet & Abrahamovich, 1987: 346  
*Sennertia longipilis* Alzuet & Abrahamovich, 1989: 115; Klimov & OConnor, 2008: 232; Montalva & Allendes, 2010: 55

Type locality: Misiones Prov. (Argentina)  
 Distribution: Argentina, Chile  
 Host: *Xylocopa (Schonherria) splendidula splendidula* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Amsennertia) splendidulae*** Alzuet et Abrahamovich

*Sennertia (Amsennertia) brevipilis* Alzuet & Abrahamovich, 1987: 345 (praeoccup. from *Sennertia vanderhammeni brevipilis* Fain, 1974)  
*Sennertia splendidulae* Alzuet & Abrahamovich, 1989: 236; 1990: 630  
*Sennertia (Amsennertia) splendidulae* Alzuet & Abrahamovich, 1991: 1; OConnor, 1993a: 362

Type locality: La Plata, Buenos Aires Prov.  
 Distribution: Argentina



Host: *Xylocopa* (*Schonnherria*) *splendidula splendidula* (Hymenoptera: Apidae, Xylocopinae)

Subgenus ***Sennertia*** Oudemans

*Sennertia* Oudemans, 1905: 21 (Fain, 1981b: 146)

*Eosennertia* Kurosa, 2003: 25. Type species: *Sennertia* (*Eosennertia*) *bifida* Kurosa, 2003, synonymized by Klimov & OConnor, 2008

Type species: *Pediculus cerambycinus* Scopoli, 1763

***Sennertia* (*Sennertia*) *aldeodadi*** Haitlinger

*Sennertia* (*Sennertia*) *aldeodadi* Haitlinger, 2000: 18

*Sennertia aldeodadi* : Klimov & OConnor, 2008: 222

Type locality: Mohebourg

Distribution: Mauricius

Host: undetermined Anthophoridae (Hymenoptera)

***Sennertia* (*Sennertia*) *alfkeni*** (Oudemans)

*Trichotarsus alfkeni* Oudemans, 1900: 115; 1901: 82; 1903a: 147; Vitzthum, 1912c: 233 ~part., only specimens from *Xylocopa circumvolans* – see Klimov & OConnor (2008).

*Sennertia alfkeni* Oudemans, 1905a: 22; 1924: 329; Vitzthum, 1914: 323; 1919: 31; Vitzthum, 1941: 308; Zachvatkin, 1941: 389; Fain, 1974b: 229; Delfinado & Baker, 1976: 85; Okabe & Makino, 2002: 73; Klimov & OConnor, 2008: 222; Kontschán et al., 2016: 3

*Trichotarsus japonicus* Oudemans, 1900: 117, synonymized by Zachvatkin, 1941; Oudemans, 1901: 83; 1903a: 147; Trägårdh, 1904: 156

*Sennertia japonica* (Oudemans): Oudemans, 1905a: 22; Vitzthum, 1914: 323; 1919: 43; 1941: 308; Okabe & Makino, 2002: 73

*Sennertia japonicus*: Fain, 1974b: 224

*Sennertia* (*Sennertia*) *japonicus*: Fain, 1981b: 163

*Sennertia* (*Sennertia*) *alfkeni*: Fain, 1981b: 163; Fain, 1982: 70; OConnor, 1993a: 362

*Sennertia* ?*bifilis*: Womersley, 1941: 480 (after Fain, 1982); from *Xylocopa* (*Koptortosoma*) *bryorum* (as “*Mesotricha bryorum*”), Australia: Queensland

Type locality: Japan

Distribution: Australia, China, Japan, Korea

Host: *Xylocopa* (*Alloxylocopa*) *circumvolans* [in Zachvatkin, 1941 as “*X. kalinovskii*” (Hymenoptera: Apidae, Xylocopinae)]

Misidentifications (after Klimov & OConnor, 2008): *Trichotarsus Alfkeni*: Vitzthum, 1912c: 233, from *Xylocopa* (*Koptortosoma*) *aestuans* (East Sumatra), *Xylocopa* (*Koptortosoma*) *caerulea* (Java)

***Sennertia* (*Sennertia*) *antarctica*** (Trägårdh)

*Trichotarsus antarcticus* Trägårdh, 1907: 12



*Chaetodactylus antarcticus*: Pugh, 1993: 373

*Sennertia antarctica* (Trägårdh): Klimov & OConnor, 2008: 222

Type locality: Booth Is. (as Wandel Is.)

Distribution: Antarctica (The geographic locality is, most likely, erroneous because carpenter bees, the only hosts of *Sennertia*, do not occur in Antarctica - Klimov & OConnor, 2008)

Host: marin algae

***Sennertia (Sennertia) augustii*** Alzuet et Abrahamovich

*Sennertia augustii* Alzuet & Abrahamovich, 1990: 628; Klimov & OConnor, 2008: 192

Type locality: Buenos Aires, Berazategui

Distribution: Argentina, Mexico, Uruguay

Hosts: *Xylocopa (Neoxylocopa) augusti*, *X. fimbriata* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) benoiti*** Fain

*Sennertia benoiti* Fain, 1974: 218; 1980: 988; Klimov & OConnor, 2008: 223

*Sennertia (Sennertia) benoiti* Fain: Fain, 1981a: 157; Haitlinger, 2000: 17

Type locality: Bafing, 7 km ESE Touba (Ivory Coast)

Distribution: DR Congo, Ivory Coast

Host: *Ceratina* sp. (type host), *Ceratina atopura* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) bifida*** Kurosa

*Sennertia (Eosennertia) bifida* Kurosa, 2003: 26

*Sennertia (Sennertia) bifida*: Klimov & OConnor, 2008: 224

Type locality: Hitsujigaoka, Sapporo, Hokaido

Distribution: Japan (Hokkaido, Honshu and Ryukyus)

Hosts: *Ceratina (Ceratinidia) japonica*, *C. flavipes*, *C. okinawana* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) bifilis*** (Canestrini)

*Trichotarsus bifilis* Canestrini, 1897: 474; Canestrini & Kramer, 1899: 149; Giard, 1900: 377; Oudemans, 1901: 83; 1903: 147; 1905a: 22

*Sennertia bifilis* (Canestrini): Vitzthum, 1919: 61; Zachvatkin, 1941: 42; Fain, 1981b: 180; 1982: 70; Lombert et al., 1987: 113; Klimov & OConnor, 2008: 224

Type locality: Madang: Astrolabe Bay (Erima)

Distribution: Papua New Guinea

Host: *Xylocopa (Koptortosoma) combinata* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) caffra*** Vitzthum

*Sennertia caffra* Vitzthum, 1919: 53; 1941: 310; Zachvatkin, 1941: 42; Klimov & OConnor, 2008: 224

*Sennertia (Sennertia) caffra*: Fain, 1981b: 159; Lombert et al., 1987: 113; Haitlinger, 2000: 17

Type locality: Eastern Cape (Willowmore)

Distribution: South Africa

Host: *Xylocopa* (*Koptortosoma*) *caffra* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia* (*Sennertia*) *cantabrica* Zachvatkin**

*Sennertia cantabrica* Zachvatkin, 1941: 385; Lombert et al., 1987: 113; Klimov & OConnor, 2008: 224

*Sennertia* (*Sennertia*) *cantabrica*: Fain, 1981b: 163; Haitlinger, 2000: 17

Type locality: Algeria

Distribution: Algeria

Host: *Xylocopa* (*X.*) *cantabrita* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia* (*Senneria*) *capensis* Fain**

*Sennertia capensis* Fain, 1971: 266; Klimov & OConnor, 2008: 225

*Sennertia* (*Sennertia*) *capensis*: Fain, 1981b: 157; Haitlinger, 2000: 17

Type locality: Eastern Cape (Willowmore)

Distribution: South Africa

Host: *Xylocopa* (*Gnathoxylocopa*) *sicheli* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia* (*Sennertia*) *cerambycina* (Scopoli)**

*Pediculus cerambycinus* Scopoli, 1763: 386

*Trichodactylus osmiae*: Gervais, 1844: 266 (part.)

*Trichodactyle Xylocopae* Donnadieu, 1868: 84

*Trichodactylus xylocopae*: Murray, 1877: 252 (part.); Canestrini & Fanzago, 1878: 205; Mégnin, 1880: 147; Berlese, 1885: XVIII, No 1; Canestrini & Berlese, 1885: 206

*Trichotarsus xylocopae*: Dugès, 1834; Canestrini, 1888a: 394; 1888b: 23; 1897: 474; Berlese, 1892: fasc. LXV, n 1; 1897: 105; 1903a: 322; Canestrini & Kramer, 1899: 149; Giard, 1900: 377; Oudemans, 1900: 116; 1901: 81; 1902: 44; 1903a: 322; Trägårdh, 1907: 12; Popovici-Bazosanu, 1913: 32; Vitzthum, 1912c: 232; 1912d: 292

*Trichotarsus cerambycinus* : Oudemans, 1905b: 80

*Sennertia cerambycina* (Scopoli): Oudemans, 1905: 21; Vitzthum, 1919: 31; 1929: 77; 1933: 152; Vitzthum, 1941: 307; Zachvatkin, 1941: 382; Eyndhoven, 1941: 325; 1952: 34; Skaife, 1952: 76; Fain, 1971: 265; Elbadry, 1971: 87; Vicidomini & Meloni, 1999: 138; Klimov & OConnor, 2008: 226

*Sennertia xylocopae*: Türk & Türk, 1957: 210

*Sennertia* (*Sennertia*) *cerambycina* (Scopoli): Fain, 1981b: 152; Lombert et al., 1987: 113; OConnor, 1993a: 362; Vicidomini, 1996: 71

Type locality: "Carniola" (now Slovenia)

Distribution: France, Germany, Greece, Holland, Italy, Slovenia, Spain, China; "All southern, central, and eastern Europe, up to 55, 8 N; West and Central Asia up to Tibet and Gashun Gobi Desert China, on the east and up to northern Iran to the south".

Hosts: *Xylocopa valga*, *X. varentzowi*, *X. violacea*, *Xylocopa (Proxylocopa) nitidiventris*, *Xylocopa (P.) przewalskyi*, *Xylocopa (Copoxyta) turanica* (Hymenoptera: Apidae, Xylocopinae). Also phoretic on *Polochrum repandum* (Hymenoptera, Sapygidae, cleptoparasite of *Xylocopa*, occasionally found on *Hoplitis princeps* (as *Osmia princeps*), *Osmia (Monosmia) apicata* (as *Osmia macroglossa*), *Megachile (Eutricharaea) leachella* (as *Megachile argentata*), and *Anthophora (Paramegilla) balassogloi* (as *Anthidium christofi*)

### ***Sennertia (Sennertia) ceratinarum* Fain**

*Sennertia ceratinarum* Fain, 1974 : 216; 1980: 983; Klimov & OConnor, 2008: 226

*Sennertia (Sennertia) ceratinarum* Fain: Fain, 1981b: 156; Haitlinger, 2000: 17

Type locality: Salt Rock, Natal

Distribution: Cameroon, D.R. Congo, South Africa

Hosts: *Ceratina atopura*, *C. acutipyga*, *C. congoensis*, *C. nilotica*, *C. turneri*, *Pithitis viridis* (Hymenoptera: Apidae, Xylocopinae)

### ***Sennertia (Sennertia) congoicola* Fain**

*Sennertia congoicola* Fain, 1971: 265; Klimov & OConnor, 2008: 227

*Sennertia (Sennertia) congoicola*: Fain, 1981b: 161; Haitlinger, 1999: 59; 2000: 17

Type locality: Moanda

Distribution: DR Congo

Hosts: "*Mesotrichia striata*", *Xylocopa (Mesotrichia) torrida*, *Xylocopa (Koptortosoma) imitator* (Hymenoptera: Apidae, Xylocopinae)

### ***Sennertia (Sennertia) dalyi* Fain**

*Sennertia dalyi* Fain, 1980: 990; Klimov & OConnor, 2008: 227

*Sennertia (Sennertia) dalyi*: Fain, 1981b: 163; Haitlinger, 2000: 17

Type locality: 3.5 km S Tabarka

Distribution: Tunisia

Hosts: *Ceratina (Euceratina) dallatorreana*, *C. (E.) chalybea*, *C. (E.) mocsaryi*, *C. (E.) callosa* (Hymenoptera: Apidae, Xylocopinae)

### ***Sennertia (Sennertia) dalyi nilotica* Fain**

*Sennertia dalyi nilotica* Fain, 1980: 990; Klimov & OConnor, 2008: 227

*Sennertia (Sennertia) dalyi nilotica*: Fain, 1981b: 163

Type locality: Al Qalyus biyah, Banha ("Benha, Nile Delta")

Distribution: Egypt

Host: *Ceratina (Pithitis) tarsata* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) devincta*** Klimov et OConnor

*Sennertia devincta* Klimov & OConnor, in Klimov et al., 2007: 121; Klimov & OConnor, 2008: 148

Type locality: Huanuco

Distribution: Peru

Host: *Ceratina* sp. (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) dissimilis*** Zachvatkin

*Sennertia dissimilis* Zachvatkin, 1941: 385; Fain, 1981b: 182; Klimov & OConnor, 2008: 227

Type locality: Japan

Distribution: Japan

Host: *Xylocopa (Biluna) nasalis* (as *Xylocopa dissimilis*) (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) duweinii*** Sherbef et Duweini

*Sennertia duweinii* Sherbef & Duweini, 1980: 245; Klimov & OConnor, 2008: 228

Type locality: not indicated

Distribution: ? Egypt

Host: *Xylocopa (Koptortosoma) aestuans* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) egyptiaca*** Elbadry

*Sennertia egyptiaca* Elbadry, 1971: 87; Sherbef & Duweini, 1980: 246; Fain, 1981b: 182; Klimov & OConnor, 2008: 228

Type locality: Shoubra Elkheima, Cairo

Distribution: Egypt, Sudan

Host: *Xylocopa (Koptortosoma) aestuans* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) elseni*** Fain

*Sennertia elseni* Fain, 1971: 266; Klimov & OConnor, 2008: 228

*Sennertia (Sennertia) elseni*: Fain, 1981b: 161; OConnor, 1993a: 362; Haitlinger, 1999: 59; 2000: 17; Fain & Pauly, 2001: 132

Type locality: Bas-Congo (Muanda)

Distribution: DR Congo, Madagascar

Hosts: *Xylocopa (Koptortosoma) caffra* (as *Mesotrichia olivacea*) (Hymenoptera: Apidae, Xylocopinae); on Madagascar: except Ranomafana: *Melanempis* sp.; Ranomafana: cleptoparasitic bee of the family Nomadinae

***Sennertia (Sennertia) flabellifera*** Oudemans

*Sennertia flabellifera* Oudemans, 1924: 331; Lombert et al., 1987: 113; Klimov & OConnor, 2008: 228

Type locality: Bogor (Java)

Distribution: Indonesia (Java)

Host: *Xylocopa (Koptortosoma)* sp., nest (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) frontalis*** Vitzthum

*Sennertia frontalis* Vitzthum, 1941: 308; Klimov & OConnor, 2008: 228

Type locality: Entre Rios, Argentina

Distribution: Argentina, Brazil, Mexico, Peru, Panama, Suriname, Venezuela

Hosts: *Xylocopa frontalis*, *X. nautlana* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) gargantua*** Zachvatkin

*Sennertia gargantua* Zachvatkin, 1941: 385; Klimov & OConnor, 2008: 228

*Sennertia (Sennertia) gargantua*: Fain, 1981b: 154

Type locality: Turkey

Distribution: Tajikistan, Turkey, Uzbekistan

Hosts: *Xylocopa (Nodula) punctilabris*, *X. (X.) valga* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) greeni*** (Oudemans)

*Hericia greeni* Oudemans, 1917: 345

*Sennertia greeni* (Oudemans): Oudemans, 1924: 330; Zachvatkin, 1941: 42; Lombert et al., 1987: 113; Klimov & OConnor, 2008: 228

Type locality: Eton Estate, Punduloga

Distribution: Sri Lanka

Host: *Xylocopa (Mesotrichia) tenuiscapa* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) haustriifera*** Klimov et OConnor

*Sennertia haustriifera* Klimov & OConnor, 2008: 151

Type locality: Jalisco, Estacion de Biologia Chamela

Distribution: Mexico (Jalisco, Chiapas)

Host: *Ceratina captiosa* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) herminae*** Haitlinger

*Sennertia (Sennertia) herminae*: Haitlinger, 1999: 57; 2000: 17

*Sennertia herminae*: Klimov & OConnor, 2008: 229

Type locality: Antananarivo

Distribution: Madagascar

Host: *Xylocopa* sp. (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) hipposideros*** (Oudemans)

*Trichotarsus hipposideros* Oudemans, 1902: 44; 1903: 145

*Trichotarsus hipposiderus* Oudemans, 1903a: 145 (unjust. emend.); Trägårdh, 1904: 156; 1907: 12; Vitzthum, 1912d: 290

*Sennertia hipposiderus* (Oudemans): Oudemans, 1905a: 22; Vitzthum, 1941: 310 (*hipposideruns*); Fain, 1974b: 226; OConnor, 1993b: 161; Krantz, 1998: 298

*Sennertia hipposidera*: Vitzthum, 1919: 43 (unjust. emend.)

*Sennertia hipposideros*: Zachvatkin, 1941: 42; Fain, 1974 : 226; Klimov & OConnor, 2008: 229

*Sennertia (Sennertia) hipposiderus* (Oudemans): Fain, 1981b: 156

Type locality: India

Distribution: India, Malaysia

Hosts: *Xylocopa (Platynopoda) latipes*, *X. (Mesotrichia) tenuiscapa* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) horrida* (Vitzthum)**

*Trichotarsus horridus* Vitzthum, 1912: 290

*Sennertia horrida* (Vitzthum): Vitzthum, 1919: 57; 1941: 308; Zachvatkin, 1941: 387; Klimov et al., 2007b: 124; Klimov & OConnor, 2008: 229

*Sennertia (Sennertia) horrida*: Fain, 1981b: 170

*Sennertia sumatrensis* Oudemans, 1924: 329; Fain, 1974b: 228 (synonymized by Fain, 1981b)

*Sennertia leucothorae* Ramaraju & Mohanasundaram, 2001: 107 (Type: Tamil Nadu, Coimbatore; synonymized by Klimov et al., 2007b)

Type locality: Jakarta (Java)

Distribution: India, Indonesia (Java, Sumatra), Japan, Taiwan

Hosts: *Xylocopa (Biluna) nasalis* (as *Xylocopa (Koptorthosoma?) dissimilis*), *Xylocopa (Koptortosoma) aestuans* (as *Xylocopa leucothorae*), *X. auripennis*, *X. fallax*, *X. iridipennis*, *X. mcgregori*, *X. mimetica* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) hurdi* Klimov et OConnor**

*Sennertia hurdi* Klimov & OConnor, 2008: 164

Type locality: Oaxaca, Presa Benito Juárez, nr. Jalapa de Marquez

Distribution: Mexico

Hosts: *Xylocopa t. tabaniformis*, *X. tabaniformis azteca* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) indica* Delfinado et Baker**

*Sonnertia* [sic !] *indica* Delfinado & Baker, 1976: 87

*Seneria* [sic !] *indica*: Ramaraju & Mohanasundaram, 2001: 107

*Sennertia indica*: Fain, 1981b: 182 (inadequately described); Klimov & OConnor, 2008: 230

Type locality: Hissar

Distribution: India

Host: *Ceratina binghami* (as *Pithitis binghami*) (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) koptorthosomae*** (Oudemans)

*Trichotarsus koptorthosomae* Oudemans, 1901: 82; 1903a: 47; Vitzthum, 1912d: 290 (part.)

*Trichotarsus koptorthosomae* Trägårdh, 1904: 156 (unjust. emend.)

*Sennertia koptorthosomae*: Oudemans, 1905a: 22 (unjust. emend.)

*Sennertia koptorthosomae* (Oudemans): Oudemans, 1924: 329; Zachvatkin, 1941: 42; Fain, 1974: 219; OConnor 1993b: 161; Krantz, 1998: 298; Klimov & OConnor, 2008: 192

*Sennertia (Sennertia) koptorthosomae* (Oudemans): Fain, 1981b: 156

Type locality: Java (Bogor)

Distribution: India, Indonesia (Java, Sumatra), Malaysia, Sri Lanka

Hosts: nest of *Xylocopa (Mesotrichia) latipes*, *X. (M.) tenuiscapa* [*Koptorthosoma*] (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) latipilis*** Fain

*Sennertia latipilis* Fain, 1974: 217; 1980: 986; Klimov & OConnor, 2008: 231

*Sennertia (Sennertia) latipilis*: Fain, 1981a: 156; Haitlinger, 2000: 17

Type locality: Malindi

Distribution: Kenya

Host: *Ceratina (Ctenoceratina) penicilligera* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) lauta*** Klimov and OConnor

*Sennertia lauta* Klimov & OConnor, in Klimov et al., 2007b: 125; Klimov & OConnor, 2008: 231

Type locality: Davao (Philippines)

Distribution: Malaysia (Sarawak), Philippines (Mindanao, Palawan)

Hosts: *Xylocopa (Zonohirsuta) fuliginata*, *X. (Z.) dejeanii* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) leclercqi*** Fain

*Sennertia leclercqi* Fain, 1971: 268; Klimov & OConnor, 2008: 232

*Sennertia (Sennertia) leclercqi*: Fain, 1981b: 157; Haitlinger, 2000: 17

Type locality: Sud-Kivu, Uvira

Distribution: DR Congo

Host: *Xylocopa (Xenoxylocopa) inconstans* (as *Mesotrichia inconstans*) (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) leei*** Fain

*Sennertia (Sennertia) leei* Fain, 1982: 67; OConnor, 1993a: 362

*Sennertia leei* Fain: Klimov & OConnor, 2008: 150, 192



Type locality: Ku-rin-gai, New South Wales

Distribution: Australia (N.S.W., Queensland, SA)

Hosts: *Xylocopa (Lestis) bombylans*, *X. aerata* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) loricata*** Klimov et OConnor

*Sennertia loricata* Klimov & OConnor, 2008: 181

Type locality: Florida, Alachua Co., Gainesville

Distribution: Mexico (Chiapas, Jalisco), USA (Florida, Louisiana, Puerto Rico, Texas, Virginia)

Hosts: *Xylocopa b. barbatella*, *X. micans*, *X. mordax*, *X. muscaria* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) lucrosa*** Klimov and OConnor

*Sennertia lucrosa* Klimov & OConnor, 2008: 164

Type locality: California, Los Angeles Co., Los Angeles, Crenshaw Distr.

Distribution: Mexico, USA

Hosts: *Xylocopa californica*, *X. clarionensis*, *X. guatemalensis*, *X. mexicanorum*, *X. varipuncta* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) madagascarensis*** Fain

*Sennertia madagascarensis* Fain, 1971: 270; Fain & Pauly, 2001: 125; Klimov et al., 2007b; Klimov & OConnor, 2008: 232

*Sennertia (Sennertia) madagascarensis*: Fain, 1981b: 170; OConnor, 1993a: 362

Type locality: Antananarivo (“Tananarive”)

Distribution: Madagascar

Hosts: *Xylocopa (Prosopoxylocopa) mirabilis*, *Xylocopa (Koptortosoma) calens* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) mesotrichia*** Fain

*Sennertia mesotrichia* Fain, 1971: 265; Klimov & OConnor, 2008: 232

*Sennertia (Sennertia) mesotrichia*: Fain, 1981b: 154; Haitlinger, 2000: 17

Type locality: Bambesa, Uele

Distribution: D.R. Congo

Hosts: *Xylocopa (Koptortosoma) africana* (as *Mesotrichia africana*), *X. (K.) lepeletieri*, *Xylocopa (Xylomelissa) tarsata* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) micheli*** Fain

*Sennertia micheli* Fain, 1971: 268; Klimov & OConnor, 2008: 232

*Sennertia (Sennertia) micheli*: Fain, 1981b: 164

Type locality: Java

Distribution: Indonesia (Java)

Host: *Bembix borrei* (Hymenoptera: Sphecidae)



***Sennertia (Sennertia) morstatti*** Vitzthum

*Sennertia morstatti* Vitzthum, 1914: 323; 1919: 42; Zachvatkin, 1941: 42; Klimov & OConnor, 2008: 233

*Sennertia (Sennertia) morstatti*: Fain, 1981b: 164; Lombert et al., 1987: 113; Sherbef & Duweini, 1980: 245

*Sennertia moandensis* Fain, 1971: 267 (synonymized by Fain, 1981b). Type: Moanda, DR Congo

*Sennertia tanythrix* Fain, 1971: 267 (part., specimens from *X. nigrita*)

Type locality: Tanzania, Amani

Distribution: DR Congo, Sudan, Tanzania

Hosts: *Xylocopa (Koptortosoma) nigrita* (Hymenoptera: Apidae, Xylocopinae), Megachilidae

***Sennertia (Sennertia) perturbans*** Vitzthum

*Sennertia perturbans* Vitzthum, 1919: 48; Zachvatkin, 1941: 42; Fain, 1981b: 145; Lombert et al., 1987: 113; Klimov & OConnor, 2008: 233

Type locality: Amani

Distribution: Tanzania

Host: *Xylocopa (Koptortosoma) nigrita* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) pirata*** Klimov et OConnor

*Sennertia pirata* Klimov & OConnor, 2008: 144

Type locality: Bahamas, Bimini, South Bimini Island

Distribution: Bahamas, British Virgin Islands (Guana Is.), Cuba, Virgin Islands of the United States, Puerto Rico

Hosts: *Xylocopa cubaecola*, *X. mordax* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) potanini*** Zachvatkin

*Sennertia potanini* Zachvatkin, 1941: 390; Klimov & OConnor, 2008: 233

*Sennertia (Sennertia) potanini*: Fain, 1981b: 170; Klimov et al., 2007b: 125

Type locality: Sichuan, Yazhou

Distribution: China

Host: *Xylocopa (Biluna) tranquebarorum* or *Xylocopa (Bomboixylocopa) rufipes* (as *Xylocopa pictifrons*) (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) ratiocinator*** Klimov et OConnor

*Sennertia ratiocinator* Klimov et OConnor, in Klimov et al., 2007b: 128; Klimov & OConnor, 2008: 234

Type locality: NW Sri Lanka

Distribution: Sri Lanka

Hosts: *Xylocopa (Zonohirsuta) bhowara*, *X. (Z.) dejeanii*, *Xylocopa (Nodula) amethystina*  
(Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) recondita*** Klimov et OConnor

*Sennertia recondita* Klimov & OConnor, 2008: 151

Type locality: Quintana Roo, Vallarta, 17 km W Pto. Morelos

Distribution: Mexico

Host: *Ceratina (Calloceratina) exemia* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) robusta*** Delfinado et Baker

*Sennertia robusta* Delfinado et Baker, 1976: 87; Klimov & OConnor, 2008: 234

*Sennertia (Sennertia) robusta*: Fain, 1981b: 157; Haitlinger, 2000: 18

*Sennertia carpenteri* Ramaraju & Mohanasundaram, 2001: 109 – Type: Tamil Nadu,  
Coimbatore

Type locality: Hissar

Distribution: India

Hosts: «Megachilid bee», *Xylocopa (Nodula) amethystina* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) roepkei*** Oudemans

*Sennertia roepkei* Oudemans, 1924: 330; Lombert et al., 1987: 113; Klimov & OConnor,  
2008: 234

Type locality: Java (Bogor)

Distribution: Indonesia (Java)

Host: On eggs of *Horia* (as “*Cissites*”) (Coleoptera: Meloidae) in nest of *Xylocopa* sp.  
(Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) sayutara*** Klimov et OConnor

*Sennertia sayutara* Klimov & OConnor, in Klimov et al., 2007: 122; 2008: 161

Type locality: San José

Distribution: Costa Rica

Host: *Ceratina laticeps* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) scutata*** Fain

*Sennertia scutata* Fain, 1974: 217; 1980: 986; Klimov & OConnor, 2008: 234

*Sennertia (Sennertia) scutata*: Fain, 1981b: 159; Haitlinger, 2000: 17

Type locality: Cape Town

Distribution: South Africa, El Salvador, Guatemala

Hosts: *Ceratina truncata*, *Ceratina (Pithitis) nasalis* (as *Ceratina viridior*) (Hymenoptera:  
Apidae, Xylocopinae)

***Sennertia (Sennertia) segnis*** Klimov et OConnor*Sennertia segnis* Klimov & OConnor, 2008: 170

Type locality: California, Tulare Co., 2 mi N Hartland

Distribution: Mexico, USA (California, Arizona)

Hosts: *Xylocopa c. californica*, *X. californica arizonensis*, *X. cyanea*, *X. tabaniformis orpifex* (Hymenoptera: Apidae, Xylocopinae)***Sennertia (Sennertia) shimanukii*** Baker et Delfinado-Baker*Sennertia shimanukii* Baker & Delfinado-Baker, 1983: 117; Klimov & OConnor, 2008: 176

Type locality: Sololá, San Lucas Tolimán (Guatemala)

Distribution: Guatemala, Mexico, USA

Hosts: *Xylocopa (Neoxylocopa) fimbriata*, *X. (N.) mexicanorum*, *X. (N.) sonorina*, *X. (N.) varipuncta*, *Xylocopa (Xylocopoides) californica arizonensis* (Hymenoptera: Apidae, Xylocopinae); *Apis mellifera* (Hymenoptera: Apidae, Apinae)(type host, accidental)***Sennertia (Sennertia) simplex*** (Trägårdh)*Trichotarsus simplex* Trägårdh, 1904: 156*Sennertia simplex* (Trägårdh): Vitzthum, 1919: 32; 1941: 308; Zachvatkin, 1941: 42; Klimov & OConnor, 2008: 235*Sennertia (Sennertia) simplex*: Fain, 1981b: 159; Haitlinger, 2000: 17

Type locality: Cameroon

Distribution: Cameroon

Host: *Xylocopa (Koptortosoma) nigrita* (Hymenoptera: Apidae, Xylocopinae)***Sennertia (Sennertia) sodalis*** Klimov et OConnor*Sennertia sodalis* Klimov & OConnor, 2008: 156

Type locality: San Juan de la Punta (Veracruz)

Distribution: Costa Rica, Mexico, Panama

Host: *Ceratina* sp., *Ceratina (Calloceratina) eximia* (Hymenoptera: Apidae, Xylocopinae)***Sennertia (Sennertia) spinifera*** Fain*Sennertia ceratinarum spinifera* Fain, 1974: 217*Sennertia (Sennertia) spinifera* Fain, 1980: 984; 1981b: 156; Haitlinger, 2000: 17*Sennertia spinifera* Fain: Klimov & OConnor, 2008: 235

Type locality: N. E. Lusambo

Distribution: D.R. Congo

Host: *Ceratina (Propithitis) aereola* (Hymenoptera: Apidae, Xylocopinae)***Sennertia (Sennertia) surinamensis*** Fain et Lukoschus*Sennertia surinamensis* Fain & Lukoschus, 1971: 270; Klimov et al., 2007a: 1371; Klimov & OConnor, 2008: 237

*Sennertia (Sennertia) surinamensis* (Fain et Lukoschus): Fain, 1981b: 170; Alzuet & Abrahamovich, 1987: 348

Type locality: Paramaribo

Distribution: French Guiana, Panama, Suriname

Host: *Ceratina (Calloceratina) chloris* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) tanythrix* Fain**

*Sennertia tanythrix* Fain, 1971: 267; Klimov & OConnor, 2008: 236

*Sennertia (Sennertia) tanythrix*: Fain, 1981b: 167; Haitlinger, 2000: 17

Type locality: Uele, Haut-Congo Prov.

Distribution: DR Congo

Hosts: *Xylocopa (Mesotrichia) torrida*, *Xylocopa (Koptortosoma) imitator*, *X. (K.) nigrita* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) tunisiana* Fain**

*Sennertia tunisiana* Fain, 1980: 991; Klimov & OConnor, 2008: 236

*Sennertia (Sennertia) tunisiana*: Fain, 1981b: 163; Haitlinger, 2000: 17

Type locality: Silya nah Maktar

Distribution: Tunisia

Hosts: *Ceratina (Ceratina) cucurbitina*, *Ceratina (Euceratina) albosticta*, *Ceratina (Euceratina) mocsaryi*, *Ceratina dallatorreana*, *C. chalybea* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) vaga* Klimov et OConnor**

*Sennertia vaga* Klimov & OConnor, 2008: 150

Type locality: California, Los Angeles Co., Rustic Canyon

Distribution: Mexico, USA

Hosts: *Xylocopa (Notoxylocopa) tabaniformis orpifex*, *X. (N.) tabaniformis androleuca*, *X. (Xylocopoides) californica* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) vanderhammeni* Fain**

*Trichotarsus koptorthosomae* Oudemans, 1901: 82 (part.)

*Sennertia vanderhammeni* Fain, 1974: 222; Klimov & OConnor, 2008: 236

*Sennertia (Sennertia) vanderhammeni*: Fain, 1981b: 156

Type locality: Peradeniya

Distribution: India, Indonesia (Java), Sri Lanka

Host: *Xylocopa (Koptorthosoma) tenuiscapa* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) vanderhammeni brevipilis* Fain**

*Trichotarsus koptorthosomae* Oudemans, 1901: 82 (part.)

*Sennertia vanderhammeni brevipilis* Fain, 1974: 224; 1981b: 156; Klimov & OConnor, 2008: 236

*Sennertia (Sennertia) vanderhammeni brevipilis*: Fain, 1981b: 156; Alzuet & Abrahamovich, 1989: 236; 1990: 319

Type locality: Java

Distribution: Indonesia (Java)

Host: *Xylocopa (Koptorthosoma) tenuiscapa* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) varicosa* Fain .**

*Sennertia varicosa* Fain, 1971: 268; Klimov & OConnor, 2008: 237

*Sennertia (Sennertia) varicosa*: Fain, 1981b: 167; Haitlinger, 2000: 17

Type locality: Katanga – Monts Kundelungu (DR Congo)

Distribution: Angola, DR Congo

Hosts: *Xylocopa (Mesotrichia)* sp., *X. (Xenoxycopa) inconstans* (as *Mesotrichia flavescens inconstans*) (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Sennertia) zhelochovtsevi* Zachvatkin**

*Sennertia zhelochovtsevi* Zachvatkin, 1941: 388; Turk, 1948: 84; Klimov et al., 2007a: 1371; Klimov & OConnor, 2008: 237; Nazan et al., 2019

*Sennertia (Sennertia) zhelochovtsevi* Zachvatkin: Fain, 1981b: 148

Type locality: Greece

Distribution: Armenia, Greece, Iran, Turkey, Uzbekistan

Hosts: *Xylocopa olivieri*, *X. rufa* (Hymenoptera: Apidae, Xylocopinae)

**Subgenus *Spinosenertia* Fain**

*Spinosenertia* Fain, 1981b: 147; Klimov & OConnor, 2008: 147

Type species: *Sennertia argentina* Vitzthum, 1941

***Sennertia (Spinosenertia) argentina* Vitzthum**

*Sennertia argentina* Vitzthum, 1941: 309; Klimov & OConnor, 2008: 156

*Sennertia (Spinosenertia) argentina* Vitzthum: Fain, 1981b: 147

Type locality: Argentina

Distribution: Argentina, Brazil, Costa Rica, Guatemala, Mexico, Nicaragua, Panama, Peru, Suriname

Hosts: *Xylocopa (Neoxylocopa) fimbriata*, *X. (N.) frontalis*, *X. (N.) mexicanorum*, *X. (N.) nasica*, *X. (N.) nautlana* (Hymenoptera: Apidae, Xylocopinae)

***Sennertia (Spinosenertia) donaldi* Turk**

*Sennertia donaldi* Turk, 1948: 84; Klimov & OConnor, 2008: 148

*Sennertia (Spinosenertia) argentina*: Fain, 1981b: 176 (part.); Alzuet & Abrahamovich, 1987: 350 (part.); Haitlinger, 1999: 59 (part.)

*Sennertia (Spinosenntertia) donaldi*: Klimov et al., 2007b: 130

Type locality: Piarco

Distribution: Brazil, Trinidad and Tobago, Venezuela

Hosts: *Xylocopa (Neoxylocopa) fimbriata*, *X. (N.) frontalis* (Hymenoptera: Apidae, Xylocopinae)

**Speciae inquirendae and Taxa Incorrectly attributed to Chaetodactylidae** – see in Klimov & OConnor, 2008

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## Distribution of Chaetodactylidae

### EUROPE

- Armenia** (Zachvatkin, 1941) – *Sennertia zhelochovtsevi*  
**Belgium** (Fain & Baugnée, 1996 ; Van Asselt, 2000; Klimov & OConnor, 2008) – *Chaetodactylus chrysidis*, *Ch. osmiae*  
**Bulgaria** (Beron, 2010) – *Sennertia* sp.  
**Croatia** (Klimov & OConnor, 2008) – *Chaetodactylus osmiae*  
**Czech Rep.** (Oudemans, 1905) – *Chaetodactylus birulai* (= *poetae*), *Ch. reaumuri*  
**France (contin.)** (Dufour, 1839;) – *Chaetodactylus anthidii*, *Ch. claviger*, *Ch. osmiae*, *Sennertia cerambycina*  
**Georgia** (Klimov & OConnor, 2008) - *Chaetodactylus osmiae*, *Ch. reaumuri*,  
**Germany** (Oudemans, 1905) – *Chaetodactylus chrysidis*, *Ch. osmiae*, *Ch. reaumuri*, *Sennertia cerambycina*  
**Great Britain** (Michael, 1901; Turk, 1953) – *Chaetodactylus osmiae*  
**Greece** (Zachvatkin, 1941) – *Ch. reaumuri*, *Sennertia cerambycina*, *S. zhelochovtsevi*  
**Holland** (Eyndhoven, 1952; Siepel, Cremers & Vierbergen, 2016) – *Chaetodactylus birulai*, *Ch. osmiae*, *Sennertia cerambycina*  
**Hungary** (Samšinak, 1973; Klimov & OConnor, 2008) – *Chaetodactylus osmiae* (= *mahunkai*)



- Italy (contin.)** (Oudemans, 1924, 1928; Fain, 1981b; Klimov & OConnor, 2008) – *Chaetodactylus claviger*, *Ch. osmia*, *Ch. reaumuri*, *Ch. zachvatkini*, *Sennertia cerambycina*
- Luxemburg** - *Chaetodactylus osmia*
- Poland** (Chmielewski, 1993) – *Chaetodactylus osmia*
- Romania** (Popovici-Bazosanu, 1913; Klimov & OConnor, 2008) – *Chaetodactylus osmia*
- Russia (all, continent.)** (Zachvatkin, 1941) – *Chaetodactylus birulai*, *Ch. dementjevi*, *Ch. osmia*
- Crimea** (Zachvatkin, 1941) - *Chaetodactylus reaumuri*
- Serbia** (Krunic et al., 2005) – *Chaetodactylus osmia*
- Slovenia** (Scopoly, 1763) – *Sennertia cerambycina*
- Spain (cont.)** (Fain, 1981b; Bosch, 1992) – *Chaetodactylus osmia*, *Ch. reaumuri*, *Ch. zachvatkini*, *Sennertia cerambycina*
- Turkey (all)** (Zachvatkin, 1941; Fain, 1981b) – *Ch. reaumuri*, *Sennertia gargantua*, *S. zhelochovtsevi*
- Western Palaearctic** (Zachvatkin, 1941) – *Chaetodactylus dementjevi*

## AFRICA

- Algeria** (Zachvatkin, 1941) – *Sennertia cantabrica*
- Angola** *Sennertia varicosa*
- Cameroon** (Trägårdh, 1904; Klimov & OConnor, 2008) – *Achaetodactylus decellei*, *A. leleupi*, *Sennertia af. basilewskyi*, *S. simplex*
- Congo DR** (Fain, 1981b) – *Achaetodactylus decellei*, *A. leleupi*, *Sennertia basilewskyi*, *S. benoiti*, *S. ceratinarum*, *S. elseni*, *S. jeanalexi*, *S. leclercki*, *S. mesotrichia*, *S. monicae*, *S. morstatti*, *S. spinifera*, *S. tanythrix*, *S. varicosa*
- Egypt** (Elbadry, 1971; Sherbef & El-Duweini, 1980; Fain, 1981a) – *Chaetodactylus anthidii*, *Ch. claviger*, *Sennertia dalyi nilotica*, *S. duweinii*, *S. egyptiaca*
- Ivory Coast** (Fain, 1974) – *Sennertia benoiti*
- Kenya** (Fain, 1974) – *Achaetodactylus ceratinae*, *A. leleupi*, *Sennertia latipilis*
- Madagascar** (Fain, 1971; Haitlinger, 1999; Fain & Pauly, 2001) – *Chaetodactylus dalyi*, *Ch. ludwigi*, *Sennertia elseni*, *S. herminae*, *S. madagascarensis*
- Mauricius** (Haitlinger, 2000) - *Sennertia aldeodadi*
- Mozambique** (Fain, 1974) – *Chaetodactylus dalyi*
- South Africa** (Fain, 1974; Klimov & OConnor, 2008) – *Achaetodactylus ceratinae*, *Chaetodactylus dalyi*, *Sennertia caffra*, *S. capensis*, *S. ceratinarum*, *S. scutata*
- Sudan** – *Sennertia egyptiaca*, *S. morstatti*
- Tanzania** (Vitzthum, 1914, 1919) – *Achaetodactylus ceratinae*, *A. decellei*, *A. leleupi*, *Sennertia morstatti*, *S. perturbans*
- Tunisia** (Oudemans, 1911; Fain, 1980; ) – *Chaetodactylus anthidii*, *Ch. reaumuri*, *Ch. zachvatkini*, *Sennertia dalyi*, *S. tunisiana*
- Zimbabwe** (Fain, 1974) – *Chaetodactylus dalyi*

**ASIA**

- China** (Zachvatkin, 1941) – *Sennertia alfkeni*, *S. cerambycinus*, *S. potanini*
- Taiwan** (Kawazoe et al., 2010) – *Sennertia horrida*
- India** (Oudemans, 1902 ; Ramaraju & Mohanasundaram, 2001; Fain & Pauly, 2001) – *Chaetodactylus ludwigi*, *Sennertia delfinadoae*, *S. hipposideros*, *S. horrida*, *S. indica*, *S. koptorthosomae*, *S. robusta* (= *carpenteri*), *S. vanderhammeni*
- Indonesia** (Vitzthum, 1912; Oudemans, 1924; Fain, 1971, 1981b; ) - *Chaetodactylus ludwigi*, *Sennertia flabellifera*, *S. horrida* (= *sumatrensis*), *S. koptorthosomae*, *S. micheli*, *S. roepkei*, *S. vanderhammeni*, *S. vanderhammeni brevipilis*
- Japan** (Oudemans, 1901 ; Hirashima, 1957; Krombein, 1962; Fain, 1974 ; Kurosa, 1987, 2003; Qu et al., 2002; Okabe & Makino, 2002, 2005; Okabe, Makino & Endo, 2008; Kawazoe et al., 2010) – *Chaetodactylus hirashimai*, *Ch. nipponicus* (*Tsushima Is., Honshu*), *Sennertia alfkeni*, *S. horrida*, *S. japonicus*, *S. oudemansi*
- Kazakhstan** (Zachvatkin, 1941) – *Chaetodactylus dementjevi*
- Korea** (Kontschán et al., 2016) – *Sennertia alfkeni*
- Malaysia** (Fain, 1981b; Klimov & OConnor, 2007) – *Sennertia hipposideros*, *S. koptorthosomae*, *S. lauta*
- Philippines** (Klimov & OConnor, 2007) - *Sennertia lauta*
- Sri Lanka** (Oudemans, 1917; Klimov et OConnor, 2007) – *Sennertia greeni*, *S. koptorthosomae*, *S. ratiocinator*, *S. vanderhammeni*
- Tajikistan** (Zachvatkin, 1941) - *Sennertia gargantua*
- Uzbekistan** (Zachvatkin, 1941) – *Chaetodactylus dementjevi*, *Sennertia gargantua*, *S. zhelochovtsevi*

**NORTH AMERICA**

- Canada** (Klimov & OConnor, 2008) – *Chaetodactylus hopliti*, *Ch. krombeini*, *Ch. micheneri*
- Mexico** (Klimov & OConnor, 2007, 2008) – *Centriacarus turbator*, *Chaetodactylus abditus*, *Ch. melitomae*, *Roubikia officiosa*, *R. panamensis*, *Sennertia argentina*, *S. augustii*, *S. frontalis*, *S. haustriifera*, *S. hurdi*, *S. loricata*, *S. lucrosa*, *S. recondita*, *S. segnis*, *S. shimanukii*, *S. sodalis*, *S. vaga*
- USA** (Osborn, 1893; Baker, 1962; Klimov & OConnor, 2008; McKinney & Park, 2012) – *Chaetodactylus abditus*, *Ch. azteca*, *Ch. claudus*, *Ch. furunculus*, *Ch. gibbosi*, *Ch. hopliti*, *Ch. kouboy*, *Ch. krombeini*, *Ch. lithurgi*, *Ch. micheneri*, *Ch. rozeni*, *Sennertia americana*, *S. loricata*, *S. lucrosa*, *S. segnis*, *S. shimanukii*, *S. vaga*
- Puerto Rico** (Klimov & OConnor, 2008) - *Sennertia loricata*, *S. pirata*
- Virgin Islands of the USA** (Klimov & OConnor, 2008) - *Sennertia pirata*

**SOUTH and CENTRAL AMERICA**

- Argentina** (Vitzthum, 1941; Alzuet & Abrahamovich, 1989) – *Roubikia imberba*, *Sennertia argentina*, *S. augustii*, *S. frontalis*, *S. longipilis*, *S. splendidulae*
- Bahamas** (Klimov & OConnor, 2008) - *Sennertia pirata*

- Belize** (Klimov & OConnor, 2008) – *Sennertia recondita*  
**Bolivia** (Klimov & OConnor, 2008) – *Roubikia panamensis*  
**Brazil** (Klimov & OConnor, 2008) – *Centriacarus turbator*, *Roubikia panamensis*, *Sennertia argentina*, *S. donaldi*, *S. frontalis*  
**British Virgin Islands** (Klimov & OConnor, 2008) - *Sennertia pirata*  
**Chile (contin.)** (Klimov & OConnor, 2007; Montalva & Allendes, 2010) – *Chaetodactylus lassulus*, *Sennertia longipilis*  
**Colombia** (Klimov & OConnor, 2008) – *Centriacarus turbator*  
**Costa Rica** (Klimov & OConnor, 2007, 2008) – *Sennertia argentina*, *S. sayutara*, *S. sodalis*  
**Cuba** (Klimov & OConnor, 2008) – *Sennertia pirata*  
**Dominican Republic** (Klimov & OConnor, 2008) – *Chaetodactylus antillarum*  
**El Salvador** (Klimov & OConnor, 2008) – *Sennertia scutata*  
**French Guiana** (Klimov & OConnor, 2008) – *Roubikia panamensis*, *Sennertia surinamensis*  
**Guatemala** (Baker & Delfinado-Baker, 1983; ) – *Sennertia faini*, *S. scutata* *S. shimanukii*  
**Honduras** (Klimov & OConnor, 2007) – *Chaetodactylus melitomae*, *Sennertia frontalis*  
**Jamaica** (Klimov & OConnor, 2008) – *Chaetodactylus antillarum*  
**Nicaragua** (Klimov & OConnor, 2008) – *Sennertia argentina*  
**Panama** (Baker, Roubik & Delfinado-Baker, 1987; Klimov & OConnor, 2008) – *Centriacarus turbator*, *Roubikia panamensis*, *Sennertia argentyina*, *S. frontalis*, *S. sodalis*, *S. surinamensis*  
**Peru** (Delfinado & Baker, 1976; Klimov & OConnor, 2007, 2008) – *Roubikia latebrosa*, *Sennertia argentina*, *S. devincta*, *S. frontalis*, *S. ignota*  
**Suriname** (Fain & Lukoschus, 1971) - *Sennertia argentina*, *S. frontalis*, *S. surinamensis*  
**Trinidad** (Turk, 1948) – *Sennertia donaldi*  
**Uruguay** (Klimov & OConnor, 2008) – *Sennertia augustii*  
**Venezuela** (Klimov & OConnor, 2007) – *Centriacarus guahibo*, *Sennertia donaldi*, *S. frontalis*  
**Virgin Islands of the USA** (Klimov & OConnor, 2008) - *Sennertia pirata*

## OCEANIA

- Australia (continent)** (Womersley, 1941; Fain, 1982; Houston, 1992) – *Sennertia queenslandica*, *S. alfkeni*, *S. leei*  
**Papua New Guinea** (Canestrini, 1897) – *Sennertia bifilis*  
**New Caledonia** (Klimov & OConnor, 2008; Fain & Pauly, 2001) – *Chaetodactylus ludwigi*  
**Micronesia** (Klimov & OConnor, 2008) - *Chaetodactylus ludwigi*  
**French Polynesia** (Klimov & OConnor, 2008; Fain & Pauly, 2001) - *Chaetodactylus ludwigi*

## ? ANTARCTICA

- (Trägårdh, 1907) - *Sennertia antarctica*

## Hosts of Chaetodactylidae

### Insecta

#### Hymenoptera

#### Fam. Apidae

#### Subfam. Xylocopinae

- Ceratina aereola* - *Achaetodactylus decellei*  
*Ceratina apaca* - *Achaetodactylus ceratinae*  
*Ceratina cucurbitina* - *Sennertia tunisiana*  
*Ceratina diloloensis* - *Achaetodactylus leleupi*  
*Ceratina excavata* - *Achaetodactylus decellei*  
*Ceratina exemia* - *Sennertia recondita*  
*Ceratina lativentris* - *Achaetodactylus ceratinae*  
*Ceratina nigriceps* - *Achaetodactylus ceratinae*  
*Ceratina penicilligera* - *Sennertia latipilis*  
*Ceratina ruwenzorica* - *Achaetodactylus leleupi*  
*Ceratina spilota* - *Achaetodactylus leleupi*, *A. decellei*  
*Ceratina turneri* - *Chaetodactylus dalyi*, *Sennertia ceratarum*  
*Ceratina* sp. - *Sennertia benoiti*  
*Xylocopa aerata* - *Sennertia leei*  
*Xylocopa aestuans* - *Sennertia duweinii*, *S. egyptiaca*, *S. horrida*  
*Xylocopa amethystina* - *Sennertia delfinadoae* (= *bakeri*), *S. ratiocinator*,  
*S. robusta*  
*Xylocopa auripennis* - *Sennertia horrida*  
*Xylocopa b. barbatella* - *Sennertia loricata*  
*Xylocopa bhowara* - *Sennertia ratiocinator*  
*Xylocopa bombylans* - *Sennertia leei*  
*Xylocopa calens* - *Sennertia elseni*  
*Xylocopa californica* - *Sennertia lucrosa*  
*Xylocopa californica arizonensis* - *Sennertia segnis*  
*Xylocopa clarionensis* - *Sennertia lucrosa*  
*Xylocopa cubaecola* - *Sennertia pirata*  
*Xylocopa dejeanii* - *Sennertia ratiocinator*  
*Xylocopa fallax* - *Sennertia horrida*  
*Xylocopa fimbriata* - *Sennertia argentina*, *S. donaldi*  
*Xylocopa frontalis* - *Sennertia argentina*, *S. donaldi*  
*Xylocopa guatemalensis* - *Sennertia lucrosa*  
*Xylocopa imitator* - *Sennertia tanythrix*  
*Xylocopa inconstans* - *Sennertia leclercqi*  
*Xylocopa iridipennis* - *Sennertia horrida*

- Xylocopa latipes* - *Sennertia hipposideros*  
*Xylocopa lepeletieri* - *Sennertia jeanalexi*  
*Xylocopa mcgregori* - *Sennertia horrida*  
*Xylocopa mexicanorum* - *Sennertia argentina*, *S. lucrosa*  
*Xylocopa micans* - *Sennertia loricata*  
*Xylocopa mimetica* - *Sennertia horrida*  
*Xylocopa mirabilis* - *Sennertia madagascarensis*  
*Xylocopa mordax* - *Sennertia loricata*, *S. pirata*  
*Xylocopa muscaria* - *Sennertia loricata*  
*Xylocopa nasalis* - *Sennertia dissimilis*, *S. horrida*, *S. oudemansi*  
*Xylocopa nautlana* - *Sennertia argentina*  
*Xylocopa nigrita* - *Sennertia jeanalexi*, *S. perturbans*, *S. simplex*, *S. tanythrix*  
*Xylocopa nitidiventris* - *Sennertia cerambycina*  
*Xylocopa olivieri* - *Sennertia zhelochovtsevi*  
*Xylocopa przewalskyi* - *Sennertia cerambycina*  
*Xylocopa punctilabris* - *Sennertia gargantua*  
*Xylocopa rufa* - *Sennertia zhelochovtsevi*  
*Xylocopa scioensis* (= *Mesotrichia bryorum*) - *Sennertia queenslandica*  
*Xylocopa sonorina* - *Sennertia shimanukii*  
*Xylocopa splendidula splendidula* -  
*Xylocopa tenuiscapa* - *Sennertia greeni*, *S. hipposideros*, *S. koptorthosomae*, *S. vanderhammeni*  
*Xylocopa torrida* - *Sennertia tanythrix*  
*Xylocopa tranquebarorum* - *Sennertia potanini*  
*Xylocopa turanica* - *Sennertia cerambycina*  
*Xylocopa valga* - *Sennertia cerambycina*, *S. gargantua*  
*Xylocopa varentzowi* - *Sennertia cerambycina*  
*Xylocopa varipuncta* - *Sennertia lucrosa*  
*Xylocopa violacea* - *Sennertia cerambycina*

#### **Subfam. Apinae**

- Apis mellifera* - *Chaetodactylus claviger*, *Sennertia faini*  
*Melitoma segmentaria* - *Chaetodactylus melitomae*  
*Tetrapedia diversipes* - *Roubikia panamensis*  
*T. maura* - *Roubikia officiosa*  
*T. peckoltii* - *Roubikia panamensis*  
*Tetrapedia* sp. - *Roubikia imberba*, *R. latebrosa*

#### **Fam. Megachilidae**

- Chelostoma florissomne* - *Chaetodactylus birulai*  
*Hoplitis pilosifrons* - *Chaetodactylus hopliti*  
*H. producta* - *Chaetodactylus hopliti*

- Lithurgus antilleorum* – *Chaetodactylus antillarum*  
*L. apicalis* – *Chaetodactylus kouboy*, Ch. *lithurgi*  
*L. atratus* – *Chaetodactylus ludwigi*  
*L. echinocacti* – *Chaetodactylus abditus*  
*L. gibbosus* – *Chaetodactylus gibbosi*, Ch. *lithurgi*  
*L. littoralis* - *Chaetodactylus lithurgi*  
*L. planifrons* – *Chaetodactylus abditus*  
*L. scabrosus* - *Chaetodactylus ludwigi*  
*Megachile bombycina* – *Chaetodactylus dementjevi*  
*M. liguseca* - *Chaetodactylus dementjevi*  
*Megachile* sp. – *Chaetodactylus osmiae*  
*Osmia aurulenta* – *Chaetodactylus chrysidis*  
*O. azteca* – *Chaetodactylus azteca*  
*O. bicolor* – *Chaetodactylus chrysidis*  
*O. bicornis* – *Chaetodactylus osmiae*  
*O. brevicornis* – *Chaetodactylus reaumuri*  
*O. brevis* - *Chaetodactylus hopliti*  
*O. bucephala* - *Chaetodactylus hopliti*  
*O. cornifrons* – *Chaetodactylus hirashimai*, Ch. *krombeini*, Ch. *nipponicus*  
*O. cornuta* – *Chaetodactylus osmiae*, Ch. *zachvatkini*  
*O. excavata* - *Chaetodactylus hirashimai*, Ch. *nipponicus*  
*O. fronticornis* – *Chaetodactylus osmiae*  
*O. georgica* – *Chaetodactylus rozeni*  
*O. imaii* - *Chaetodactylus hirashimai*  
*O. inermis* - *Chaetodactylus hopliti*  
*O. kohlii* – *Chaetodactylus osmiae*  
*O. latreillei* – *Chaetodactylus zachvatkini*  
*O. leucogastra* – *Chaetodactylus reaumuri*  
*O. niveata* - *Chaetodactylus osmiae*, Ch. *zachvatkini*  
*O. pedicornis* - *Chaetodactylus hirashimai*, Ch. *nipponicus*  
*O. rubriflorus* – *Chaetodactylus claudus*  
*O. rufa* – *Chaetodactylus osmiae*  
*O. rufiventris* – *Chaetodactylus osmiae*, Ch. *reaumuri*  
*O. subaustralis* – *Chaetodactylus micheneri*  
*O. taurus* - *Chaetodactylus nipponicus*  
*O. tricornis* - *Chaetodactylus claviger*, Ch. *osmiae*, Ch. *zachvatkini*  
*Rhodanthidium sticticum* – *Chaetodactylus anthidii*  
*Trichorhurgus dubius* - *Chaetodactylus lassulus*

**Fam. Chrysididae**

- Chrysis coerulans* – *Chaetodactylus rozeni*  
*Chrysis trimaculata* – *Chaetodactylus chrysidis*

**Fam. Vespidae**



*Vespa germanica* – *Chaetodactylus dementjevi*  
**Fam. Sphecidae**  
*Isodontia mexicana* – *Chaetodactylus hopliti*

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## The Mite Family Hyadesiidae

Hyadesiidae Halbert, 1915: 53

The mites of the genera *Hyadesia* and *Amhyadesia* (total of 47 species, see Proches and Marshall, 2001), inhabit marine intertidal to littoral habitats, occurring on all coastlines and often associated with barnacles, algal mats. The Hyadesiids feed primarily on marine algae, but other organic debris may also be consumed. (Pugh & King, 1985a). Deutonymphs are never formed in the family, and dispersal is accomplished by feeding forms. The start of the studies of Hyadesiidae belongs to Mégnin (1891), who described the genus *Hyadesia*, to Michael (1893) and to Halbert (1915) – the author of the family. Major taxonomic contributions are due also to Fain, Fain & Schuster, Fain & Ganning, Marshall & Nunkumar, Luxton, Lohmann, Marshall & Ugrasen, Viets, Womersley and others. Important biological data are due to Schuster, Pugh, Matshall and other researchers of coastal habitats.

## Composition of Hyadesiidae

**Family Hyadesiidae** Halbert, 1915–2 gen., 47 sp.

*Amhyadesia* Fain et Schuster, 1984–15 sp.

*Hyadesia* Mégnin, 1891–32 sp.

## Catalogue of Hyadesiidae

Fam. **Hyadesiidae** Halbert

Hyadesidae Halbert, 1915: 53

Hyadesiidae: Fain, 1981: 47

Lentungulidae Berlese, 1897

Type genus: *Hyadesia* Mégnin, 1889

Genus ***Amhyadesia*** Fain et Schuster

*Amhyadesia* Fain & Schuster, 1984: 15

Type species: *Amhyadesia californica* Fain et Schuster, 1984

***Amhyadesia atlantica*** Fain et Schuster

*Amhyadesia atlantica* Fain & Schuster, 1983: 420

Type locality: Penhurst Park, Main Island

Distribution: Bermudas

***Amhyadesia australifricana*** Marshall et Nunkumar

*Amhyadesia australifricana* Marshall & Nunkumar, 1999: 173

Type locality: Sardinia Bay near Port Elizabeth

Distribution: South Africa

***Amhyadesia bartschae*** Luxton

*Amhyadesia bartschae* Luxton, 1992: 229

Type locality: Hong Kong

Distribution: China

***Amhyadesia bermudana*** Fain et Schuster

*Amhyadesia bermudana* Fain & Schuster, 1983: 418

Type locality: Crawl Hill, Main Island

Distribution: Bermudas

***Amhyadesia brasiliensis*** Fain et Schuster

*Amhyadesia brasiliensis* Fain & Schuster, 1984b: 274

Type locality: south of São Sebastião (São Paulo State)

Distribution: Brazil

***Amhyadesia bursaria*** Fain et Schuster

*Amhyadesia bursaria* Fain & Schuster, 1984a: 106

Type locality: Noumea, between Baie des Citrons and Anse Vata

Distribution: New Caledonia

***Amhyadesia californica*** Fain et Ganning

*Amhyadesia californica* Fain & Ganning, 1979: 139

Type locality: California

Distribution: USA

***Amhyadesia costaricensis*** Fain et Schuster

*Amhyadesia costaricensis* Fain & Schuster, 1984: 271

Type locality: Pacific coast, northern part of the Nat. park "Manuel Antonio", Quepos

Distribution: Costa Rica

***Amhyadesia elizabethensis*** Marshall et Nunkumar

*Amhyadesia elizabethensis* Marshall & Nunkumar, 1999: 176

Type locality: Sardinia Bay near Port Elizabeth

Distribution: South Africa

***Amhyadesia heteromorpha*** Luxton

*Amhyadesia heteromorpha* Luxton, 1992a: 232

Type locality: Hong Kong

Distribution: China

***Amhyadesia heterophallus*** Fain et Schuster

*Amhyadesia heterophallus* Fain & Schuster, 1984a: 103; Marshall & Nunkumar, 1999: 177

Type locality: Villingili Island, Male Atoll

Distribution: Maldives, Philippines, Mozambique, South Africa

***Amhyadesia longipillis*** Fain et Schuster

*Amhyadesia longipillis* Fain & Schuster, 1984a: 109

Type locality: Pang-an Island

Distribution: Philippines

***Amhyadesia madeirensis*** Fain et Schuster

*Amhyadesia madeirensis* Fain & Schuster, 1986: 4

Type locality: East of Caniçal

Distribution: Madeira (incl. Porto Santo)

***Amhyadesia pacifica*** Fain et Schuster

*Amhyadesia pacifica* Fain & Schuster, 1984a: 109

Type locality: Coconut Island, Camotes Sea

Distribution: Philippines

***Amhyadesia punctulata*** Luxton

*Amhyadesia punctulata* Luxton, 1989a: 73; 1990: 374

Type locality: Auckland

Distribution: New Zealand

Genus ***Hyadesia*** Mégnin

*Hyadesia* Mégnin, 1891: 53

*Lentungula* Michael, 1893: 262

Type species: *Hyadesia uncinifer* Mégnin, 1891

Subgenus ***Hyadesia*** Mégnin

*Hyadesia* Mégnin, 1891: 53; made subgenus by Fain, 1981

*Parahyadesia* (unavailable name? No type species fixation)

Type species: *Hyadesia uncinifer* Mégnin, 1891

***Hyadesia (H.) agulhensis*** Marshall et Ugrasen

*Hyadesia (Parahyadesia) agulhensis* Marshall & Ugrasen, 2000: 88

Type locality: South Africa

Distribution: South Africa

***Hyadesia (H.) alexi*** Marshall et Chown

*Hyadesia alexi* Marshall & Chown, 2003: 120

Type locality: Gough Island

Distribution: Gough Island (nr. Tristan da Cunha)

***Hyadesia (H.) algivorans*** (Michael)

*Lentungula algivorans* Michael, 1893: 262

*Hyadesia algivorans* (Michael): Turk, 1953: 82; Fain, 1981: 55

Type locality: Cornwall, Land's End

Distribution: Great Britain,

***Hyadesia (H.) arabica*** Fain et Schuster

*Hyadesia (H.) arabica* Fain & Schuster, 1985: 68

Type locality: Red Sea at Al Ghardaqa

Distribution: Egypt

***Hyadesia (H.) australiana*** Fain et Synnot

*Hyadesia australiana* Fain & Synnot, 1981: 195

Type locality: Gunnamatta Beach, Mornington Peninsula, nr. Melbourne, Victoria

Distribution: Australia (Victoria)

***Hyadesia (H.) benguelensis*** Marshall et Ugrasen*Hyadesia (Parahyadesia) benguelensis* Marshall & Ugrasen, 2000

Type locality: Angola

Distribution: Angola, South Africa

***Hyadesia (H.) curassaviensis*** Viets*Hyadesia curassaviensis* Viets, 1936: 426; Fain, 1981: 53

Type locality: Curaçao, Riftwal nr. Willemstad

Distribution: Curaçao

***Hyadesia (H.) fusca*** (Lohmann)*Lentungula fusca* Lohmann, 1894: 85; Canestrini & Kramer, 1899: 136; Halbert, 1915: 108*Hyadesia fusca* (Lohmann): Halbert, 1920: 137; Willmann, 1937: 167; Sellnick, 1949: 127; Turk, 1953: 82*Hyadesia (H.) fusca* (Lohmann): Fain & Ganning, 1989: 163*Hyadesia furcillipes* Benard, 1961: 81. Type: France (syn. by Fain, 1981)

Type locality: Helgoland Island (Germany)

Distribution: Belgium, France, Germany, Great Britain, Finland, Holland, Ireland, Norway, Sweden, USA

***Hyadesia (H.) glynni*** Manson*Hyadesia glynni* Manson, 1963: 163

Type locality: Hopkins Marine Station, Pacific Grove, California

Distribution: USA (California)

***Hyadesia (H.) halophila*** Fain*Hyadesia (Hyadesia) halophila* Fain, 1974: 699

Type locality: Kerguelen Island

Distribution: Kerguelen Island

***Hyadesia (H.) heteromorpha*** Marshall et Ugrasen*Hyadesia (Parahyadesia) heteromorpha* Marshall & Ugrasen, 2000: 87

Type locality: South Africa

Distribution: South Africa

***Hyadesia (H.) maxima*** Fain, Sømme et Block*Hyadesia maxima* Fain, Sømme & Block, 1983: 171

Type locality: South Georgia, Maiviken and Sooty Bluff

Distribution: South Georgia

***Hyadesia (H.) microseta*** Luxton

*Hyadesia (H.) microseta* Luxton, 1989a: 81; 1990: 376

Type locality: Auckland

Distribution: New Zealand

***Hyadesia (H.) mollis*** Luxton

*Hyadesia (Parahyadesia) mollis* Luxton, 1989a: 81; 1990: 378

Type locality: Auckland

Distribution: New Zealand (Auckland)

***Hyadesia (H.) nearctica*** Fain et Ganning

*Hyadesia (H.) nearctica* Fain & Ganning, 1978: 215

Type locality: from Saint John, New Brunswick, Canada throughout the coast of Main, New Hampshire to Cape Ann, Massachusetts, USA

Distribution: Canada, USA

***Hyadesia (H.) pakistanensis*** Fain et Schuster

*Hyadesia pakistanensis* Fain & Schuster, 1985: 73

Type locality: Paradise Point near Karachi

Distribution: Pakistan

***Hyadesia (H.) paulensis*** Fain

*Hyadesia (H.) paulensis* Fain, 1975b: 157

Type locality: St. Paul Is.

Distribution: St. Paul Is.

***Hyadesia (H.) plicata*** Luxton

*Hyadesia (Parahyadesia) plicata* Luxton, 1989a: 84; 1990: 378

Type locality: Chatham Islands

Distribution: New Zealand (Chatham Islands)

***Hyadesia (H.) reticulata*** Luxton

*Hyadesia (Parahyadesia) reticulata* Luxton, 1989a: 88; 1990: 378

Type locality: Kaikoura

Distribution: New Zealand

***Hyadesia (H.) sanjuanensis*** Fain et Ganning

*Hyadesia (H.) sanjuanensis* Fain & Ganning, 1989: 162

Type locality: San Juan Archip., Friday Harbor Marine Lab.

Distribution: USA (State of Washington)

***Hyadesia (H.) sellai*** Viets

*Hyadesia sellai* Viets, 1937: 3; Fain, 1981: 54

Type locality: Rovinj, Split

Distribution: Croatia

***Hyadesia (H.) subantarctica*** Fain

*Hyadesia (Hyadesia) subantarctica* Fain, 1974: 702

Type locality: Kerguelen Island

Distribution: Kerguelen Island

***Hyadesia (H.) tenuipilis*** Fain

*Hyadesia fusca tenuipilis* Fain, 1979: 131

Type locality: Abo

Distribution: Finland

***Hyadesia (H.) tessellata*** Luxton

*Hyadesia (Parahyadesia) tessellata* Luxton, 1989a: 91; 1990: 378

Type locality: Dunedin

Distribution: New Zealand

***Hyadesia (H.) travei*** Fain

*Hyadesia (H.) travei* Fain, 1975b: 153

Type locality: Saint-Paul Isl.

Distribution: Saint-Paul and New Amsterdam Islands

***Hyadesia (H.) tumida*** Benard

*Hyadesia tumida* Benard, 1961: 71

Type locality: Roscoff, Bloscon (Brittany), Cotentin (Normandy)

Distribution: France

***Hyadesia (H.) uncinifer*** Mégnin

*Hyadesia uncinifer* Mégnin, 1889: 51

Type locality: Tierra del Fuego

Distribution: Tierra del Fuego

***Hyadesia (H.) verrucosa*** Fain et Schuster

*Hyadesia verrucosa* Fain & Schuster, 1985: 70

Type locality: Rovinj

Distribution: Croatia

***Hyadesia (H.) vietsi*** Womersley*Hyadesia vietsi* Womersley, 1961: 204; Fain, 1979: 127

Type locality: Biak Is.

Distribution: Indonesia (Papua)

***Hyadesia (H.) womersleyi*** Luxton*Hyadesia womersleyi* Luxton, 1989b: 407

Type locality: Macquarie Island

Distribution: Macquarie Island

***Hyadesia (H.) zelandica*** Luxton*Hyadesia zelandica* Luxton, 1984: 293; 1990: 376

Type locality: Auckland

Distribution: New Zealand, Auckland

Subgenus ***Hyadesiella*** Fain*Hyadesiella* Fain, 1974: 693Type species: *Hyadesia kerguelensis* Lohmann, 1907***Hyadesia (Hyadesiella) kerguelensis*** Lohmann*Hyadesia kerguelensis* Lohmann, 1907: 369*Hyadesia (Hyadesiella) kerguelensis* Lohmann: Fain, 1974: 693

Type locality: Kerguelen Island

Distribution: Kerguelen Island

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## Distribution of Hyadesiidae

### EUROPE

- Belgium** (Fain, 1979) – *Hyadesia fusca*  
**Croatia** (Viets, 1937; Fain & Schuster, 1985) – *Hyadesia* (H.) *sellai*, *H.* (H.) *verrucosa*  
**Finland** (Fain, 1979) – *Hyadesia fusca*, *H. tenuipilis*  
**France (contin.)** (Benard, 1961) – *Hyadesia fusca* (= *furcillipes*), *H. tumida*  
**Germany** (Lohmann, 1894; Willmann, 1937) – *Hyadesia fusca*  
**Great Britain** (Michael, 1893; Turk, 1953) – *Hyadesia algivorans*, *H. fusca*  
**Holland** (Oudemans, 1927; Pugh & King, 1985) – *Hyadesia fusca*  
**Ireland** (Halbert, 1920) – *Hyadesia fusca*  
**Madeira** (Fain & Schuster, 1986) – *Amhyadesia madeirensis*, *Hyadesia* (H.) *verrucosa*  
**Sweden** (Sellnick, 1949; Ganning, 1970) – *Hyadesia fusca*

### AFRICA

- Angola** (Marshall & Ugrasen, 2000) – *Hyadesia benguelensis*  
**Egypt** (Fain & Schuster, 1985) – *Hyadesia* (H.) *arabica*  
**South Africa** (Marshall & Nunkumar, 1999; Marshall & Ugrasen, 2000) – *Amhyadesia australifricana*, *A. elizabethensis*, *Hyadesia agulhensis*, *H. benguelensis*

### ASIA

- China** (Luxton, 1992a) – *Amhyadesia bartschae*, *A. heteromorpha* [Hong Kong]

**Indonesia** (Womersley, 1961) – *Hyadesia vietsi* [Papua, Biak Isl.]

**Maledive Islands** (Fain & Schuster, 1984a) – *Amhyadesia heterophallus*

**Pakistan** (Fain & Schuster, 1985) – *Hyadesia* (*H.*) *pakistanensis*

**Philippines** (Talker, Alberti & Sotto, 1981; Fain & Schuster, 1984a) – *Amhyadesia heterophallus*, *A. longipilis*, *A. pacifica*

#### NORTH AMERICA

**Bermuda Islands** (Fain & Ganning, 1989; Fain & Schuster, 1983) – *Amhyadesia atlantica*, *A. bermudana*

**Canada** (Fain & Ganning, 1978, 1979, 1989) – *Hyadesia nearctica*

**USA** (Manson, 1963; Fain & Ganning, 1979, 1989) – *Amhyadesia californica*, *A. glynni*, *Hyadesia fusca*, *H. sanjuanensis*, *H. nearctica*

#### SOUTH and CENTRAL AMERICA

**Argentina** (Megnin, 1891) – *Hyadesia uncinifer* (Tierra del Fuego)

**Brazil** (Fain & Schuster, 1984b) – *Amhyadesia brasiliensis*

**Costa Rica** (Fain & Schuster, 1984b) – *Amhyadesia costaricensis*

**Curaçao** (Viets, 1936) – *Hyadesia curassaviensis*

#### ATLANTIC OCEAN

**Gough Island** (Marshall & Chown, 2003) – *Hyadesia alexi*

**Saint Paul and New Amsterdam Islands** (Fain, 1975a, b) – *Hyadesia paulensis*, *H. travei*

#### OCEANIA

**Australia (continent)** (Fain & Synnot, 1981) – *Hyadesia australiana*

**New Zealand** (Luxton, 1984, 1989, 1990) – *Amhyadesia punctulata*, *Hyadesia microseta*, *H. mollis*, *H. reticulata*, *H. tessellata*, *H. zelandica*

**New Caledonia** (Fain & Schuster, 1984a) – *Amhyadesia bursaria*

#### ANTARCTICA

**South Georgia** (Fain, Sømme & Block, 1983) – *Hyadesia maxima*

**Kerguelen Island** (Lohmann, 1907; Fain, 1974) – *Hyadesia halophila*, *H. subantarctica*, *H. (Hyadesiella) kerguelensis*

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## The Mite Family Algophagidae Fain

Algophaginae Fain, 1974: 703

Algophagidae Fain, 1981: 49

The small family Algophagidae (eight genera, 17 species) was proposed by A. Fain, first as subfamily (1974), than as family (1981). The first genera (*Hericia* G. Canestrini, 1888, *Fusohericia* Vitzthum, 1931, *Algophagus* Hughes, 1955) and species have been described much earlier, but only with the intensifying of the Antarctic and subantarctic research many new taxa (mainly of Algophaginae) were discovered by Fain & Johnston (1975),

Hughes & Goodman (1969), Cruz & Socarras (1992 - Cuba), Fashing, O'Connor & Kitching (2000), Marshall, O'Connor & Pugh (2001, 2003), and others.

These peculiar mites are aquatic, with various species inhabiting sap flows on trees (*Hericia*, *Fusohericia*), water filled tree holes (*Lamingtonacarus*), rivers and lakes (*Algophagopsis*), or other aquatic or subaquatic habitats (O'Connor, 2009) up to 100 m (Anderson & Krantz, 1993). Species of *Algophagus* and *Neohyadesia* are generally restricted to subantarctic islands. They range from coastal brackish pools to inland tussock grass soils, where they feed primarily on algae (Goddard 1982; Marshall, O'Connor & Pugh, 2003, generalized by O'Connor, 2009). Genital papillae are strongly reduced in Algophagidae, but the uniquely developed axillary organs between legs I—II characterize the family.

The sap inhabiting taxa of the algophagid subfamily Hericiinae form deutonymphs for dispersal on sap frequenting Coleoptera (Nitidulidae, Nosodendridae) and Lepidoptera (O'Connor, 2009). The algophagine genus *Lamingtonacarus oreillyorum* is known to form deutonymphs, but these have not been collected from any insect host. O'Connor and Moser (1985) proposed generic phylogenetic analysis.

## Composition of Algophagidae

**Fam. Algophagidae** Fain, 1981–9 gen., 24 sp.

**Subfam. Algophaginae** Fain, 1974–14 sp.

*Algophagopsis* Fain et Johnston, 1975–1 sp.

*Algophagus* Hughes, 1955–6 sp.

*Lamingtonacarus* Fashing, O'Connor et Kitching, 2000–2 sp.

*Neohyadesia* Hughes et Goodman, 1969–3 sp.

*Terraphagus* Clark et Andrews, 2012–1 sp.

*Thalassophagacarus* J. de la Cruz et Socarras, 1992–1 sp.

**Subfam. Hericiinae** O'Connor et Moser, 1985–10 sp.

*Fusohericia* Vitzthum, 1931–3 sp.

*Hericia* G. Canestrini, 1888–6 sp.

*Prohericia* O'Connor et Moser, 1985–1 sp.

## Catalogue of Algophagidae

**Fam. Algophagidae** Fain

Algophaginae Fain, 1974: 703

Algophagidae Fain: Fain, 1981: 49

Type genus: *Algophagus* Hughes, 1955

**Subfam. Algophaginae** Fain

Algophaginae Fain, 1974: 703

Type genus: *Algophagus* Hughes, 1955

Genus ***Algophagopsis*** Fain et Johnston

*Algophagopsis* Fain & Johnston, 1975: 67

Type species: *Algophagopsis pneumatica* Fain et Johnston, 1975

***Algophagopsis pneumatica*** Fain et Johnston

*Algophagopsis pneumatica* Fain & Johnston, 1975: 67

Type locality: Kings River, California

Distribution: USA (California)

Genus ***Algophagus*** Hughes

*Algophagus* Hughes, 1955: 1

Type species: *Algophagus antarcticus* Hughes, 1955

***Algophagus antarcticus*** Hughes

*Algophagus antarcticus* Hughes, 1955: 1; OConnor & Pugh, 2003: 39

Type locality: Heard Island

Distribution: Heard Island, Kerguelen Island

***Algophagus brachytarsus*** OConnor et Pugh

*Algophagus brachytarsus* OConnor & Pugh, 2003: 41

Type locality: Prince Edward Islands

Distribution: Prince Edward Islands

***Algophagus laticollaris*** Fain

*Algophagus antarcticus laticollaris* Fain, 1974: 704

*Algophagus laticollaris* Fain: OConnor & Pugh, 2003: 39

Type locality: Kerguelen I.

Distribution: Kerguelen I.

***Algophagus macrolithus*** OConnor et Pugh

*Algophagus macrolithus* OConnor & Pugh, 2003: 43

Type locality: Prince Edward Islands

Distribution: Prince Edward Islands

***Algophagus pennsylvanicus*** Fashing et Wiseman

*Algophagus pennsylvanicus* Fashing & Wiseman, 1980: 79

Type locality: Cook Forest State Park, Forest County, Pennsylvania

Distribution: USA



***Algophagus semicollaris*** Fain

*Algophagus semicollaris* Fain, 1974: 704; Fedorova, Fedorov, Stavsky, Matyukhina & Voronin 1980: 82

Type locality: Kerguelen Island

Distribution: Kerguelen Island

Genus ***Lamingtonacarus*** Fashing, OConnor et Kitching

*Lamingtonacarus* Fashing, OConnor & Kitching, 2000: 592

Type species: *Lamingtonacarus oreillyorum* Fashing, OConnor et Kitching, 2000

***Lamingtonacarus oreillyorum*** Fashing, OConnor et Kitching

*Lamingtonacarus oreillyorum* Fashing, OConnor & Kitching, 2000: 592

Type locality: Lamington National Park, Box Forest; Queensland

Distribution: Australia (Queensland)

***Lamingtonacarus posidonis*** Fashing, OConnor et Kitching

*Lamingtonacarus posidonis* Fashing, OConnor & Kitching, 2000: 599

Type locality: Lamington National Park, Box Forest; Queensland

Distribution: Australia (Queensland)

Genus ***Neohyadesia*** Hughes et Goodman

*Neohyadesia* Hughes & Goodman, 1969: 39

Type species: *Neohyadesia signyi* Hughes et Goodman, 1969

***Neohyadesia microtricha*** Marshall, OConnor et Pugh

*Neohyadesia microtricha* Marshall, OConnor & Pugh, 2001: 101

Type locality: Marion Island (Prince Edward Islands, South Georgia, Trypot beach)

Distribution: Indian Ocean islands

***Neohyadesia minor*** Clark et Andrews

*Neohyadesia minor* Clark & Andrews, 2012: 1478

Type locality: Lake Forsyth/Wairewa, Canterbury

Distribution: New Zealand

***Neohyadesia signyi*** Hughes et Goodman

*Neohyadesia signyi* Hughes & Goodman, 1969: 39

Type locality: Signy Island

Distribution: South Orkney Islands

***Neohyadesia signyi punctulata*** Fain

*Neohyadesia signyi punctulata* Fain, 1974: 706



Type locality: Kerguelen Island

Distribution: Kerguelen Island

Genus ***Terraphagus*** Clark et Andrews

*Terraphagus* Clark & Andrews, 2012: 1476

Type species: *Terraphagus antipodus* Clark et Andrews, 2012

***Terraphagus antipodus*** Clark et Andrews

*Terraphagus antipodus* Clark & Andrews, 2012: 1476

Type locality: Antipodes Islands

Distribution: Antipodes Islands

Host: from grey petrel *Procellaria cinerea* burrow soil

Genus ***Thalassophagacarus*** J. de la Cruz et Socarras

*Thalassophagacarus* J. de la Cruz & Socarras, 1992: 1

Type species: *Thalassophagacarus faime* J. de la Cruz et Socarras, 1992

***Thalassophagacarus faime*** J. de la Cruz et Socarras

*Thalassophagacarus faime* J. de la Cruz & Socarras, 1992: 2

Type locality: “playa cercana al Faro Roncali, Cabo de San Antonio, Pinar del Rio”

Distribution: Cuba

Subfam. **Hericiinae** OConnor et Moser

Hericiinae OConnor & Moser, 1985: 786

Type genus: *Hericia* G. Canestrini, 1888

Genus ***Fusohericia*** Vitzthum

*Fusohericia* Vitzthum, 1931: 98

Type species: *Fusohericia incredibilis* Vitzthum, 1931

***Fusohericia incredibilis*** Vitzthum

*Fusohericia incredibilis* Vitzthum, 1931: 98

Type locality: South Sumatra

Distribution: Indonesia (Sumatra)

***Fusohericia heliconiae*** Fashing et Glist

*Fusohericia heliconiae* Fashing & Glist, 2012: 591

Type locality: La Selva Biological Station and Reserve, Heredia Province

Distribution: Costa Rica

***Fusohericia lawrencei*** Baker et Crossley

*Fusohericia lawrencei* Baker & Crossley, 1964: 4

Type locality: treehole, trunk of yellow poplar, *Liriodendron tulipijera*, Roane County, Tennessee

Distribution: USA (Tennessee)

Genus ***Hericia*** G.Canestrini

*Hericia* G. Canestrini, 1888: 6

Type species: *Glyciphagus hericius* Robin, 1868

***Hericia fermentationis*** Vitzthum

*Hericia fermentationis* Vitzthum, 1931: 85

Type locality: Sumatra

Distribution: Indonesia (Sumatra)

***Hericia georgei*** Michael

*Hericia georgei* Michael, 1903: 38; Samšinák, 1972: 65; Haitlinger, 2002: 68; Fashing, 2008: 5

Type locality: Great Britain

Distribution: Great Britain, Finland, France, Poland, Russia

Hosts: *Cetonia aurata*, *Potosia cuprea metallica* (Coleoptera: Scarabaeidae), *Catocala spona*, *C. nupta*, *C. adultera*, *C. elocata*, *C. neonympha*, *C. promissa*, *C. pacta*, *C. fraxini* (Lepidoptera: Noctuidae), *Cossus cossus* (Lep.: Cossidae),

*Nymphalis antiopa*, *N. atalanta*, *Polygonia c-album*, *Acronicta [Apatele] psi*, *Europis occulta* (Nymphalidae), *Scoliopteryx libatrix* (Erebidae)

***Hericia hericia*** (Robin)

*Glyciphagus hericius* Robin, 1868: 607

*Hericia robini* Michael, 1903 (synonymy 1868–1903)

*Hericia hericia* (Robin): Zachvatkin, 1941

Type locality: France

Distribution: England, France, Germany, Italy

***Hericia janehenleyi*** Fashing

*Hericia janehenleyi* Fashing, 2008: 7

Type species: Newport News, Eastern Virginia

Distribution: USA

Host: *Glischrochilus obtusus* (Coleoptera, Nitidulidae).

***Hericia paradoxa*** Türk et Türk

*Hericia* (?) *paradoxa* Türk & Türk, 1957: 180

Type species: Erlangen

Distribution: Germany

***Hericia sanukiensis*** Fashing*Hericia sanukiensis* Fashing & Okabe, 2006: 3

Type locality: Takamatsu City, Kagawa Prefecture

Distribution: Japan

Host: *Librodor japonicus* (Coleoptera: Nitidulidae)Genus ***Prohericia*** OConnor et Moser*Prohericia* OConnor & Moser, 1985: 783Type species: *Prohericia longipes* OConnor et Moser, 1985***Prohericia longipes*** OConnor et Moser*Prohericia longipes* OConnor & Moser, 1985: 783

Type locality: Germany

Distribution: Germany

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*laticollaris*, *Algophagus antarcticus* 317  
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## Distribution of Algophagidae

### EUROPE

**Finland** (Samšinák, 1972) – *Hericia georgei*

**France (contin.)** (Türk & Türk, 1957) – *Hericia georgei*, *H. hericia*

**Germany** (Türk & Türk, 1957; OConnor & Moser, 1985) – *Hericia hericia*, *H. paradoxa*,  
*Prohericia longipes*

**Great Britain** (Michael, 1903) – *Hericia georgei*, *H. hericia*

**Italy** (Bernini et al., 1995) – *Hericia hericia*

**Poland** (Haitlinger, 2002, 2004) – *Hericia georgei*

**Russia (all, continent.)** (Samšinák, 1972) – *Hericia georgei*

### ASIA

**Indonesia** (Vitzthum, 1931) – *Hericia fermentationis* (Sumatra), *Fusohericia incredibilis*  
(Sumatra)

**Japan** (Fashing & Okabe, 2006; Hayashi, Ichikawa & Yasui, 2010) – *Hericia sanukiensis*

### NORTH AMERICA

**USA** (Baker & Crossley, 1964; Fain & Johnston, 1975; Fashing, 2008) – *Algophagopsis*  
*pneumatica*, *Hericia janehenleyi*, *Fusohericia lawrencei*

### SOUTH and CENTRAL AMERICA

**Costa Rica** (Fashing, 2012) – *Fusohericia heliconiae*

**Cuba** (Cruz & Socarras, 1992) – *Thalassophagacarus faime*

### OCEANIA

**Australia (continent)** (Fashing, OConnor & Kitching, 2000) – *Lamingtonacarus oreil-*  
*lyorum*, *L. posidonis*

**New Zealand** (Clark & Andrews, 2012) – *Neohyadesia minor*

**Antipodes Islands, New Zealand** (Clark & Andrews, 2012) – *Terraphagus antipodus*

### ANTARCTICA

**Heard Island** (Hughes, 1955) – *Algophagus antarcticus*

**Kerguelen Island** (Fain, 1974) – *Algophagus antarcticus*, *A. laticollaris*, *A. semicollaris*,  
*Neohyadesia signyi punctulata*

**South Orkney Islands** (Hughes & Goodman, 1969) – *Neohyadesia signyi*

**Marion island** (Marshall, OConnor & Pugh, 2001) – *Neohyadesia microtricha*

**South Georgia** (Marshall, OConnor & Pugh, 2001) – *Neohyadesia microtricha*

**Prince Edward Islands** (Marshall et al., 1999; Marshall, OConnor & Pugh, 2003) – *Al-*  
*gophagus brachytarsus*, *A. macrolithus*

## Hosts of Algophagidae

### Insecta

#### Coleoptera

##### Fam. Scarabaeidae

*Cetonia aurata* - *Hericia georgei*

*Potosia cuprea metallica* - *Hericia georgei*

##### Fam. Nitidulidae

*Glischrochilus obtusus* - *Hericia janehenleyi*

*Librodor japonicus* - *Hericia sanukiensis*

#### Lepidoptera

##### Fam. Noctuidae

*Catocala sponsa* - *Hericia georgei*

*C. nupta* - *Hericia georgei*

*C. adultera* - *Hericia georgei*

*C. elocata* - *Hericia georgei*

*C. neonympha* - *Hericia georgei*

*C. promissa* - *Hericia georgei*

*C. pacta* - *Hericia georgei*

*C. fraxini* - *Hericia georgei*

*Nymphalis antiopa* - *Hericia georgei*

*N. atalanta* - *Hericia georgei*

*Polygonia c-album* - *Hericia georgei*

*Acronicta [Apatele] psi* - *Hericia georgei*

##### Fam. Nymphalidae

*Europis occulta* - *Hericia georgei*

##### Fam. Erebidae

*Scoliopteryx libatrix* - *Hericia georgei*

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## The Mite Family Hemisarcoptidae

Hemisarcoptidae Oudemans, 1908: 60

Hemisarcoptoid mites are common inhabitants of various arboreal or aquatic habitats, with many species specialized as inquilines in nests of Hymenoptera.

*Linobia coccinellae* is ectoparasite (hematophagous) of *Chrysomela populi* and *Ch. saliceti* (Coleoptera: Chrysomelidae). Other *Linobia* species have been described on the plant *Eichhornia crassipes* in Egypt (Soliman, Hussein & Ramadan, 1991). According to OConnor (1982), "Deutonymphs of *Hemisarcoptes* are known to be phoretic only on coccinellid beetles of the genus *Chilocorus*, which feeds exclusively on scale insects". *Hemisarcoptes* species are used for control of scale insects (Coccoidea), as they are predaceous on the eggs and adults of these insects (Gerson, 1967). The peculiar *Espeletiacarus andinus* Fain, 1987 is known from the high Andes in Colombia on the flowers of *Espeletia incana*.

### Composition of Hemisarcoptidae

**Fam. Hemisarcoptidae** - 8 gen., 24 sp.

*Divilia* Sevastjanov, 1969–3 sp.

*Espeletiacarus* Fain, 1987–1 sp.

*Hemisarcoptes* Lignières, 1893–5 sp.

*Huronopus* OConnor et Houck, 1989–1 sp.

*Linobia* Berlese, 1884–4 sp.

*Nanacarus* Oudemans, 1902–8 sp.

*Pasohopus* OConnor et Houck, 1989–1 sp.

*Superioropus* OConnor et Houck, 1989–1 sp.

### Catalogue of Hemisarcoptidae

Family **Hemisarcoptidae** Oudemans

Hemisarcoptidae Oudemans, 1908: 60

Nanacaridae Oudemans, 1923: 206

Linobiidae Oudemans, 1908

Type genus: *Hemisarcoptes* Lignières, 1893

Genus ***Divilia*** Sevastjanov

*Divilia* Sevastjanov, 1969: 447 [Diagnostic, Fain, Hurst, Tweddle, Lachlan, Majerus & Britt 1995: 103]



Type species: *Divilia oculata* Sevastjanov, 1969

***Divilia exigua*** Fain, Hurst, Fassotte, Webberley, Sloggett et Majerus

*Divilia exigua* Fain, Hurst, Fassotte, Webberley, Sloggett & Majerus, 1997: 91

Type locality: Torun

Distribution: Poland

Host: *Vibidia duodecimguttata* (Coleoptera: Coccinellidae)

***Divilia occidentalis*** Fain, Hurst, Tweddle, Lachlan, Majerus et Britt

*Divilia occidentalis* Fain, Hurst, Tweddle, Lachlan, Majerus & Britt, 1995: 103

Type locality: England

Distribution: England

Host: *Chilocorus renipustulatus* (Coleoptera: Coccinellidae, Chilocorinae)

***Divilia oculata*** Sevastjanov

*Divilia oculata* Sevastjanov, 1969: 447

Type locality: Ukraine

Distribution: Russia, Ukraine

Hosts: *Lasius fuliginorus*, *Formica polyctena*, *F. rufa* (Hymenoptera: Formicidae)

***Divillia*** sp.

Hosts: *Chrysops univittatus*, *Hybomitra epistates*, *H. frontalis*, *H. lasiophthalma*, *H. nuda*, *Tabanus quinquevittatus* (Canada)

Genus ***Espeletiacarus*** Fain

*Espeletiacarus* Fain, 1987: 37

Type species: *Espeletiacarus andinus* Fain, 1987

***Espeletiacarus andinus*** Fain

*Espeletiacarus andinus* Fain, 1987: 38

Type locality: Páramo La Rusia, ca. 200 km NNW of Bogotá, 10 km N of Duitame, alt. 3550 m

Distribution: Colombia

Host: from a flower of *Espeletia incana*

[Genus ***Giardius*** Perraud, 1896; placement? Nanacaridae]

[*Giardius vitis* Perraud, 1896]

Genus ***Hemisarcoptes*** Lignières

*Hemisarcoptes* Lignières, 1893: 16; [Diagnostic: Fain, 1988: 127]

Subgenus *Coleovidia* H. A. Thomas

*Vidia* (*Coleovidia*) H. A. Thomas, 1961: 461 [syn. of *Hemisarcoptes* by Gerson 1967: 637].

Type species: *Vidia cooremani* H. A. Thomas, 1961

Type species: *Acarus malus* Shimer, 1868

***Hemisarcoptes budensis*** Fain et Ripka

*Hemisarcoptes budensis* Fain & Ripka, 1998: 35

Type locality: Budapest

Distribution: Hungary

Hosts: *Chilocorus renipustulatus* (Coleoptera: Coccinellidae) & Coccoidea (Hemiptera)

***Hemisarcoptes coccophagus*** Meyer

*Hemisarcoptes coccophagus* Meyer, 1962: 414; Charles, Hill & Allan, 1995: 297; Houk, 1999: 100

Type locality: Letaba, Transvaal, South Africa

Distribution: New Zealand, South Africa

***Hemisarcoptes cooremani*** (Thomas)

*Vidia* (*Coleovidia*) *cooremani* Thomas, 1961: 461

*Hemisarcoptes cooremani* (Thomas): syn. by Gerson, 1967: 637; Houck & OConnor, 1990: 870

Type locality: Weslaco, Texas

Distribution: USA

Host: *Chilocorus cacti* (Coleoptera: Coccinellidae)

***Hemisarcoptes dzhashii*** K. Dzhibladze

*Hemisarcoptes dzhashii* K. Dzhibladze, 1969: 435; Rekk, 1976: 40

Type locality: Zelenyy Cape

Distribution: Georgia

***Hemisarcoptes malus*** (Shimer)

*Acarus malus* Shimer, 1868: 368

*Hemisarcoptes malus* (Shimer): André, 1942: 173; Cooreman, 1951: 30; Redescription: Vacante 1985: 750; Abdelgayed et al., 2019: 32

*Hemisarcoptes coccisugus* Lignières, 1893: 75

Type locality: Mt. Carroll, Illinois

Distribution: Algeria, Canada, Egypt, Italy, Morocco, USA

Hosts: *Chrysomphalus dictyospermi*, *Lepidosaphes beckii*, *L. gloveri*, *Parlatoria blanchardi*, *P. zizyphi* (Coccoidea: Diaspididae)

Genus ***Huronopus*** OConnor et Houck

*Huronopus* OConnor & Houck, 1989b: 6

Type species: *Huronopus michiganensis* OConnor et Houck, 1989

***Huronopus michiganensis*** OConnor et Houck*Huronopus michiganensis* OConnor & Houck, 1989b: 6

Type locality: Michigan

Distribution: USA

Genus ***Linobia*** Berlese*Linobia* Berlese, 1884: 29Type species: *Acarus coccinellae* Scopoli, 1763***Linobia coccinellae*** (Scopoli)*Acarus coccinellae* Scopoli, 1763: 389

Berlese, 1884: 29; Théodoridès, 1955: 71; Haitlinger, 1999: 181; Bernini et al., 1995; Tarasi, Saboori &amp; Sadeghi, 2001; Trach, 2016; Pohlík, Georgi &amp; Müller, 2020: 723

Type locality: Europe

Distribution: Czech Rep., France, Germany, Great Britain, Iran, Italy, Poland, Ukraine

Hosts: *Chrysomela populi*, *C. saliceti*, *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae)***Linobia eichhornia*** Soliman, Hussein et Ramadan*Linobia eichhornia* Soliman, Hussein & Ramadan, 1991: 22

Type locality: Egypt

Distribution: Egypt

Host: *Eichhornia crassipes* (plant)***Linobia nilotica*** Soliman, Hussein et Ramadan*Linobia nilotica* Soliman, Hussein & Ramadan, 1991: 17

Type locality: Egypt

Distribution: Egypt

Host: *Eichhornia crassipes* (plant)***Linobia replacementica*** Soliman, Hussein et Ramadan*Linobia replacementica* Soliman, Hussein & Ramadan, 1991: 19

Type locality: Egypt

Distribution: Egypt

Host: *Eichhornia crassipes* (plant)Genus ***Nanacarus*** Oudemans*Nanacarus* Oudemans, 1902: 7, 45 [Diagnostic, Fain 1988: 127; Redescription, Fain, 1985: 280]*Froweinia* Oudemans, 1923: 183*Congovidiella* Fain, 1971: 282 [type is *hieroglyphia*; syn. Fain 1988: 126]*Nanacaroides* Volgin & Mironov, 1979: 93 [type is *elongatus*; syn. Purvis & Evans 1982: 820]

Type species: *Hypopus minutus* Oudemans, 1901

***Nanacarus collembolicola*** (Fain et Johnston)

*Congovidiella collembolicola* Fain & Johnston, 1974: 418

*Nanacarus collembolicola* (Fain et Johnston)

Type locality: England, Domleo, Spinney, Sutton Bonington

Distribution: Great Britain

Host: *Sminthurus fuscus* (Collembola, Symphypleona: Sminthuridae)

***Nanacarus elongatus*** (Volgin et Mironov)

*Nanacaroides elongatus* Volgin & Mironov, 1979: 93

*Nanacarus elongatus* (Volgin et Mironov): Purvis & Evans, 1982: 820

Type locality: Habarovskiy Kray, Bolshe-Hehcirskiy Zapovednik (the Far East of Russia)

Distribution: Russia

***Nanacarus hieroglypha*** (Fain et Elsen)

*Congovidiella hieroglypha* Fain et Elsen, in Fain, 1971: 282

*Nanacarus hieroglypha* (Fain et Elsen):

Type locality: Haut Lopori

Distribution: D.R. Congo

Host: *Glossina fuscipes fuscipes* (Diptera: Glossinidae)

***Nanacarus hungaricus*** Halmai et Mahunka

*Nanacarus hungaricus* Halmai & Mahunka, 1980: 266 [mammalian host]

Type locality: Hungary

Distribution: Hungary

***Nanacarus longisetosus*** Volgin et Mironov

*Nanacarus longisetosus* Volgin & Mironov, 1979: 91

Type locality: Buryatian ASSR, Gremyachenskiy Rayon, Istok

Distribution: Russia

***Nanacarus manus*** Purvis et Evans

*Nanacarus manus* Purvis & Evans, 1982: 815

Type locality: S.E. Ireland

Distribution: Ireland

***Nanacarus minutus*** (Oudemans)

*Hypopus minutus* Oudemans, 1901: 85

*Nanacarus minutus* (Oudemans): Krivoluckiy, 1975: 474; Fain 1985: 280; Fain et al., 1997: 94; Li et al., 1992: 23

Type locality: Indonesia (Java)

Distribution: China, Germany, Indonesia (Java, Buru), Poland, Russia

Hosts: *Adalia* sp., *Calvia duodecimguttata*, *Exochomus quadripustulus* (Coleoptera: Coccinellidae); *Xylocopa* (*Koptorthosoma*) *tenuiscapa* (Hymenoptera: Apidae, Xylocopinae), *Eptesicus serotinus*, *Pipistrellus pipistrellus*, *Sorex araneus* (Mammalia), *Megapodius reinwardt buruensis* (Aves: Megapodiidae)

***Nanacarus nominis*** Woodring

*Nanacarus nominis* Woodring, 1966: 82

Type locality: Holden, Utah

Distribution: USA

Host: «from the cells of the alkali bee *Nominia melanderi*» (Hymenoptera: Halictidae, Nomininae)

***Nanacarus pragensis*** (Samšínák et Vobrazkova)

*Congovidiella pragensis* Samšínák & Vobrazkova, 1983: 119

*Nanacarus pragensis* (Samšínák & Vobrazkova): Khaustov et al., 2018: 48

Type locality: Prague

Distribution: Czech Rep.

Genus ***Pasohopus*** OConnor et Houck

*Pasohopus* OConnor & Houck, 1989a: 17

Type species: *Pasohopus labrynthus* OConnor et Houck, 1989

***Pasohopus labrynthus*** OConnor et Houck

*Pasohopus labrynthus* OConnor & Houck, 1989a: 17

Type locality: Pasoh Forest Reserve

Distribution: Malaysia

Genus ***Superioropus*** OConnor et Houck

*Superioropus* OConnor & Houck, 1989b: 2

Type species: *Superioropus huronmontanus* OConnor & Houck, 1989

***Superioropus huronmontanus*** OConnor et Houck

*Superioropus huronmontanus* OConnor & Houck, 1989b: 2; OConnor, 1991; Khaustov et al., 2018: 49

Type locality: the Huron Mountains of northern Michigan

Distribution: Russia, USA

Hosts: *Exeristes comstockii* (Hymenoptera: Ichneumonidae), galleries of *Ips typographus* (Coleoptera: Curculionidae, Scolytinae)

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## Distribution of Hemisarcoptidae

### EUROPE

- Belgium** (Fain, Hurst et al. 1997) – *Nanacarus minutus*  
**Czech Rep.** (Samšinak & Vobrazkova, 1983) – *Nanacarus pragensis*  
**France (contin.)** (Théodoridès, 1955) – *Linobia coccinellae*  
**Georgia** (Dzhibladze, 1969) – *Hemisarcoptes dzhashii*  
**Germany** (Pohlink, Georgi & Müller, 2020) – *Linobia coccinellae*, *Nanacarus minutus*

**Great Britain** (Türk & Türk, 1952; Fain & Johnston, 1974; Fain, Hurst, Tweddle et al., 1995; Fain, Hurst, Fassotte et al. 1997) – *Congovidia coccinellidarum*, *Linobia coccinellae*, *Nanacarus* (= *Congovidiella*) *collembolicola*

**Hungary** (Halmai & Mahunka, 1980; Fain & Ripka, 1998) – *Hemisarcoptes budensis*, *Nanacarus hungaricus*

**Ireland** (Purvis & Evans, 1982) – *Nanacarus manus*

**Italy (contin.)** (Bernini et al., 1995) – *Hemisarcoptes malus*, *Linobia coccinellae*

**Sicily** (Bernini et al., 1995) – *Hemisarcoptes malus*

**Poland** (Fain et al., 1997) – *Divilia exigua*, *Nanacarus minutus*

**Russia (all, continent.)** (Sevastjanov, 1969; Krivoluckiy, 1975: 474; Volgin & Mironov, 1979) – *Divilia oculata*, *Divilia aff. occidentalis*, *Hemisarcoptes sp.*, *Nanacarus longisetosus*, *N. elongatus*, *N. minutus*, *Superioropus huronmontanus*

**Ukraine** (Sevastjanov, 1969; Trach, 2007) – *Divilia oculata*, *Linobia coccinellae*

## AFRICA

**Congo DR** (Fain, 1971) – *Nanacarus hieroglypha*

**Egypt** (Soliman, Hussein & Ramadan, 1991; Abdelgayed et al., 2019) – *Hemisarcoptes malus*, *Linobia eichhornia*, *L. nilotica*, *L. replacementica* **Morocco** (Cooreman, 1951) – *Hemisarcoptes malus*

**South Africa** (Meyer, 1962) – *Hemisarcoptes coccophagus*

## ASIA

**China** (Fan, Chen & Wang, 2010; Ji, L.-Z., Gerson & Izraylevich, 1994; Li, L.-S., Xuan, J.-Y. & Fan, Q.-H., 1992) – *Hemisarcoptes sp.*, *Nanacarus minutus*

**Indonesia** (Oudemans, 1901, 1928) – *Nanacarus minutus*

**Iran** (Tarasi, Saboori & Sadeghi, 2001) – *Linobia coccinellae*

**Israel and Palestina** (Gerson, 1964, 1967; Gerson & Schneider, 1981, 1982; Izraylevich & Gerson, 1993) – *Hemisarcoptes coccophagus*

**Malaysia** (OConnor & Houck, 1989a) – *Pasohopus labrynthus*

## NORTH AMERICA

**Canada** (Mullen et al., 1989; Tothill, 1918; Baulieu et al., 2019) – *Hemisarcoptes malus* and two other sp., *Divilia sp.*

**USA** (Shimer, 1868; Woodring, 1966; OConnor, 1991, OConnor & Houck, 1989b; Luck, Jiang & Houck, 1999) – *Huronopus michiganensis*, *Nanacarus nominis*, *Superioropus huronmontanus*

## SOUTH and CENTRAL AMERICA

**Colombia** (Fain, 1987) – *Espeletiacarus andinus*

## OCEANIA

**Australia (continent)** (Gerson, 1994) – *Hemisarcoptes* 2 spp.

**New Zealand** (Charles, Hill & Allan, 1995a, 1995b; Hill et al., 1993) – *Hemisarcoptes coccophagus*

## Hosts of Hemisarcoptidae

### Insecta s.l.

#### Collembola

##### Fam. Sminthuridae

*Sminthurus fuscus* – *Nanacarus collembolicola*

#### Coleoptera

##### Fam. Chrysomelidae

*Chrysomela populi* – *Linobia coccinellae*

*C. saliceti* - *Linobia coccinellae*

##### Fam. Coccinellidae

*Adalia* sp. - *Nanacarus minutus*

*Chilocorus cacti* – *Hemisarcoptes cooremani*

*Ch. renipustulatus* - *Hemisarcoptes budensis*

*Exochomus quadripustulus* - *Nanacarus minutus*

*Vibidia duodecimguttata* - *Nanacarus minutus*

#### Homoptera

#### Coccoidea

##### Fam. Diaspididae

*Chrysomphalus dictyospermi* – *Hemisarcoptes malus*

*Hemiberlesia lataniae* – *Hemisarcoptes coccophagus*

*Lepidosaphes beckii* – *Hemisarcoptes malus*

*L. gloveri* - *Hemisarcoptes malus*

*Parlatoria blanchardi* – *Hemisarcoptes malus*

*P. zizyphi* - *Hemisarcoptes malus*

#### Hymenoptera

##### Fam. Apidae

*Xylocopa* (*Koptorthosoma*) *tenuiscapa* – *Nanacarus minutus*

##### Fam. Halictidae

*Nominia melanderi* – *Nanacarus nominis*

##### Fam. Formicidae

*Lasius fuliginorus* – *Divilia oculata*

*Formica polyctena* - *Divilia oculata*

*F. rufa* - *Divilia oculata*

##### Fam. Ichneumonidae

*Exeristes comstockii* - *Superioropus huronmontanus*



**Diptera****Fam. Glossinidae***Glossina fuscipes fuscipes* – *Nanacarus hieroglypha***Aves****Fam. Megapodiidae***Megapodius reinwardt buruensis* – *Nanacarus minutus***Mammalia****Soricomorpha****Fam. Soricidae***Sorex araneus* – *Nanacarus minutus***Chiroptera****Fam. Vespertilionidae***Eptesicus serotinus* – *Nanacarus minutus**Pipistrellus pipistrellus* – *Nanacarus minutus***Bibliography of Hemisarcoptidae**

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## The Mite Family Carpoglyphidae

Carpoglyphidae Oudemans, 1923: 206

The best known representative of the Carpoglyphidae is the dried fruit mite, *Carpoglyphus lactis* (L.). This species is a cosmopolitan pest of stored materials with a high sugar content, such as dried fruit, powdered milk, and honey, as well as of other stored food substrates (Chmielewski 1971; Hughes 1976). Deutonymphs have been collected from Lepidoptera and Coleoptera (Türk & Türk, 1957).

## Composition of Carpoglyphidae

**Fam. Carpoglyphidae** Oudemans, 1923–4 gen., 12 sp.

*Carpoglyphus* Robin, 1869–9 sp.

*Coproglyphus* Türk et Türk, 1957–1 sp.

*Dichotomiopus* Fain et Camerik, 1978–1 sp.

*Pullea* Canestrini, 1884–1 sp.

## Catalogue of Carpoglyphidae

Family **Carpoglyphidae** Oudemans

Carpoglyphidae Oudemans, 1923: 206

Type genus: *Carpoglyphus* Robin, 1869

Genus ***Carpoglyphus*** Robin

*Carpoglyphus* Robin, 1869: 197

Type species: *Acarus lactis* Linnaeus, 1758

***Carpoglyphus afzali*** Khan

*Carpoglyphus afzali* Khan, 1967: 398

Type locality: Pakistan

Distribution: Pakistan

***Carpoglyphus alienus*** Banks

*Carpoglyphus alienus* Banks, 1905: 42

Type locality: "Batavia" (Java)

Distribution: Indonesia (Java)

***Carpoglyphus ganzhouensis*** Jiang

*Carpoglyphus ganzhouensis* Jiang, 1991: 82

Type locality: Jiangxi

Distribution: China

***Carpoglyphus lactis*** (Linnaeus, 1758) [ 1767?]

*Acarus lactis* Linnaeus, 1767: 1024

*Carpoglyphus lactis* (Linnaeus): Jeleva & Angelkova, 1964:

*Carpoglyphus passularum* Robin, 1869

*Glycyphagus anonymus* Haller, 1882

Type locality: Europe

Distribution: Argentina, Australia, Bulgaria, China, England, Germany, Italy

***Carpoglyphus munroi*** Hughes

*Carpoglyphus munroi* Hughes, 1962: 168

Type locality: Imperial College, Field Station, Silwood Park, Ascot, Surrey

Distribution: England

***Carpoglyphus nidicolous*** Hubard et Fashing

*Carpoglyphus nidicolous* Hubard & Fashing, 1996: 215

Type locality: Oregon

Distribution: USA

Host: *Petrochelidon pyrrhonota* (Aves) nests

***Carpoglyphus sturmi*** Fain et Rack

*Carpoglyphus sturmi* Fain & Rack, 1987: 12

Type locality: Páramo de Montserrate, 3250 m

Distribution: Colombia

Host: *Espeletiopsis corymbosa* (plant)

***Carpoglyphus vagabundus*** Berlese

*Carpoglyphus vagabundus* Berlese, 1910: 267

Type locality: Rosignano (Pisa)

Distribution: Italy

Host: nest of *Polystes gallicus* (Hymenoptera: Vespidae)

***Carpoglyphus wardleorum*** Clark

*Carpoglyphus wardleorum* Clark, 2010: 454

Type locality: Ashley Gorge, Canterbury

Distribution: New Zealand

Host: from sooty mould fungi on the bark of black beech, *Nothofagus solandri*.

Genus ***Coproglyphus*** Türk et Türk

*Coproglyphus* Türk & Türk, 1957: 181

Type species: *Coproglyphus stammeri* Türk et Türk, 1957

***Coproglyphus stammeri*** Türk et Türk

*Coproglyphus stammeri* Türk & Türk, 1957: 181; Li, 1999: 72

Type locality: Erlangen (Germany)

Distribution: China, Germany

Genus ***Dichotomiopus*** Fain et Camerik

*Dichotomiopus* Fain & Camerik, 1978: 172

Type species: *Dichotomiopus biaggioi* Fain et Camerik, 1978

***Dichotomiopus biaggioi*** Fain et Camerik

*Dichotomiopus biaggioi* Fain & Camerik, 1978: 173

Type locality: Cotia, Sao Paulo

Distribution: Brazil

Host: *Dichotomius anaglypticus* (Coleoptera: Scarabaeidae)



Genus *Pullea* Canestrini

*Pullea* Canestrini, 1884: 720

Type species: *Pullea discoidalis* Canestrini, 1884

*Pullea discoidalis* Canestrini

*Pullea discoidalis* Canestrini, 1884: 720

Type locality: Australia

Distribution: Australia

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## Distribution of Carpoglyphidae

### EUROPE

**Bulgaria** (Jeleva & Angelkova, 1964) – *Carpoglyphus lactis*

**Germany** (Türk & Türk, 1957) – *Carpoglyphus lactis*, *Coproglyphus stammeri*

**Great Britain** (Hughes, 1962) – *Carpoglyphus lactis*, *C. munroi*

**Holland** (Siepel, Cremers & Vierbergen, 2016) – *Carpoglyphus lactis*

**Italy (contin.)** (Berlese, 1910) – *Carpoglyphus lactis*, *C. vagabundus*

**Turkey** (Turgu & Kumral, 2019) – *Carpoglyphus lactis*

### ASIA

**China** (Jiang, 1991; Li, 1999; Fan, Chen & Wang, 2010) – *Carpoglyphus ganzhouensis*, *C. lactis*, *Coproglyphus stammeri*

**Indonesia** (Banks, 1905) – *Carpoglyphus alienus*

**Pakistan** (Khan, 1967) – *Carpoglyphus afzali*



**NORTH AMERICA**

**USA** (Hubard & Fashing, 1996) – *Carpoglyphus nidicolous*

**SOUTH and CENTRAL AMERICA**

**Argentina** (Hughes, 1978) – *Carpoglyphus lactis*

**Brazil** (Fain & Camerik, 1978) – *Dichotomiopus biaggioi*

**Colombia** (Fain & Rack, 1987) – *Carpoglyphus sturmi*

**OCEANIA**

**Australia (continent)** (Womersley, 1941) – *Carpoglyphus lactis*, *Pullea discoidalis*

**New Zealand** (Clark, 2010) – *Carpoglyphus wardleorum*

**Hosts of Carpoglyphidae****Hymenoptera****Fam. Vespidae**

*Polistes gallicus* - *Carpoglyphus vagabundus*

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## The Mite Family Winterschmidtidae (Saproglyphidae)

Winterschmidtidae Oudemans, 1923  
Saproglyphinae Oudemans, 1924

Winterschmidtidae (= Saproglyphidae) is the largest family in the Hemisarcoptoidea, with 28 genera and 139 known species with a wide range of ecological associations.

Species of *Saproglyphus* are fungivores in decaying materials, bark crevices, and woody fungi, and deutonymphs are dispersed by a wide variety of insect hosts. Other species are common fungivores on leaf surfaces. In temperate regions, the tritonymph is a resistant overwintering stage. Species of *Winterschmidtia* are also predators of the eggs of bark beetles (Scolytinae). Some taxa are known from deutonymphs associated with various families of subcortical Coleoptera. Other winterschmidtiid genera are found in various types of decaying material such as dung, carrion and in vertebrate nests. *Procalvolia zacheri* (Oudemans) and *Acalvolia squamata* (Oudemans) occasionally infest stored food products, *P. zacheri* was associated with severe dermatitis in a horse. The subfamily Ensliniellinae includes obligate associates of Hymenoptera. Some taxa are associated with sphecid wasps (*Crabrovidia* and others), most species are associates of Vespidae. Other genera are associated with solitary wasps of the subfamilies Masarinae (pollen wasps) and Eumeninae. A partial list of associations and a phylogeny for the subfamily was provided by OConnor and Klompen (1999). Some species such as *Monobiacarus quadridens* Baker and *Kurosaia jiju* OConnor et Okabe feed on hemolymph of paralyzed arthropod prey provisioned by the female wasp. Other species, in the genera *Ensliniella*, *Kennethiella*, and *Vespacarus* feed directly on hemolymph of the wasp host larva or pupa. Many female (or rarely male) wasp hosts have more or less elaborated acaritaria in different locations on the body that harbor dispersing deutonymphs. Based on their phylogeny, OConnor and Klompen (1999) concluded that acaritaria have evolved independently in many host groups.

For many years was used the family name Saproglyphidae Oudemans, 1924, but OConnor (1984) insisted to use the antedating name Winterschmidtiidae Oudemans, 1923 and was followed by other researchers. Now both names are used on subfamily level.

## Composition of Winterschmidtiidae

Fam. **Winterschmidtiidae** (Saproglyphidae) - 28 gen., 139 sp.

Subfam. **Ensliniellinae** Vitzthum, 1924–71 sp.

*Crabrovidia* Zakhvatkin, 1941–20 sp.

*Ensliniella* Vitzthum, 1925–7 sp.

*Kennethiella* Cooreman, 1954–1 sp.

*Kurosaia* Okabe et OConnor, 2002–1 sp.

*Macroharpa* Mostafa, 1970–4 sp.

*Monobiacarus* Baker et Cunliffe, 1960–3 sp.

*Sphexicozela* Mahunka, 1970–1 sp.

*Vespacarus* Baker, 1960–10 sp.

*Vidia* Oudemans, 1905–2 sp.

*Zethacarus* Mostafa, 1971–6 sp.

*Zethovidia* Mostafa, 1970–16 sp.

Subfam. **Saproglyphinae** Oudemans, 1924–18 sp.

*Acalvolia* Fain, 1971–2 sp.

- Congovidia* Fain et Elsen, in Fain, 1971–6 sp.  
*Gambacarus* Mahunka, 1975–1 sp.  
*Neocalvolia* Hughes, 1970–3 sp.  
*Neosuidasia* Ranganath et Channabasa, 1983–1 sp.  
*Neottiglyphus* Volgin, 1974–1 sp.  
*Saproglyphus* Berlese, 1890–4 sp.  
Subfam. **Oulenziinae** Oudemans, 1928– 7 sp.  
*Oulenzia* Radford, 1950–1 sp.  
*Oulenziella* Fan et al., 2015–2 sp.  
*Procalvolia* Fain, 1971–3 sp.  
*Trypetacarus* Fain, 1971–1 sp.  
Subfam. **Winterschmidtinae** Oudemans, 1923–50 sp.  
*Allocalvolia* Fain et Rack, 1987–2 sp.  
*Calvolia* Oudemans, 1911–34 sp.  
*Czenspinskiia* Oudemans, 1927–2 sp.  
*Parawinterschmidtia* Khaustov, 2000–1 sp.  
*Riemia* Oudemans, 1925–1 sp.  
*Winterschmidtia* Oudemans, 1923 (= *Afrocalvolia* Fain et Elsen, 1971) – 10 sp.

## Catalogue of Winterschmidtidae

### Fam. **Winterschmidtidae** Oudemans

Winterschmidtidae Oudemans, 1923: 206

Saproglyphidae Oudemans, 1924

Czenspinskiidae Oudemans, 1927

Oulenziidae Oudemans, 1928

Calvoliinae Turk & Turk, 1957: 155

Type genus: *Winterschmidtia* Oudemans, 1923

### Subfam. **Ensliniellinae** Vitzthum

#### Genus ***Crabrovidia*** Zakhvatkin

*Vidia* (*Crabrovidia*) Zakhvatkin, 1941: 371

*Crabrovidia* Zakhvatkin: Fain, 1971: 284

*Euvidia* Delfinado & Baker, 1976: 81] [Type is *utahensis*; syn. OConnor & Eickwort 1988: 172]

Type species: *Vidia* (*Crabrovidia*) *gussakovskii* Zakhvatkin, 1941

#### ***Crabrovidia africana*** Fain

*Crabrovidia africana* Fain, 1973: 183

Type locality: Kibombo  
Distribution: DR Congo  
Host: *Sphex hemorrhoidalis* (Hymenoptera: Sphecidae)

***Crabrovidia brasiliensis*** Fain

*Crabrovidia brasiliensis* Fain, 1973: 169  
Type locality: Merretes, Alto de Sierra, Sta Catarina, Nova Teutonia  
Distribution: Brazil  
Host: *Ectemnius cubiceps* (Hymenoptera: Crabronidae)

***Crabrovidia concellaria*** (Cooreman)

*Vidia concellaria* Cooreman, 1948a: 1  
*Crabrovidia concellaria* Fain, 1973: 179  
Type locality: Uccle (Bruxelles)  
Distribution: Belgium, France  
Host: *Cerceris arenaria* (Hymenoptera: Crabronidae); ? accidental host: *Hedichrum nobile* (Chrysididae)

***Crabrovidia corsicana*** Fain

*Crabrovidia corsicana* Fain, 1973: 183  
Type locality: Bonifacio  
Distribution: Corsica  
Host: *Crossocercus elongatus* (Hymenoptera: Crabronidae)

***Crabrovidia crossocerus*** Fain

*Crabrovidia crossocerus* Fain, 1973: 167  
Type locality: Sta Catarina, Nova Teutonia  
Distribution: Brazil  
Host: *Crossocerus porexus* (Hymenoptera: Crabronidae)

***Crabrovidia cubensis*** Fain

*Crabrovidia cubensis* Fain, 1973: 170  
Type locality: Guantanamo  
Distribution: Cuba  
Host: *Lestica cubensis* (Hymenoptera: Crabronidae)

***Crabrovidia dasyproctus*** Fain

*Crabrovidia dasyproctus* Fain, 1973: 177  
Type locality: Taiherin (Taiwan)  
Distribution: India, Philippines, South Africa (Natal), Taiwan

Hosts: *Dasyproctus agilis orientalis*, *D. bipunctatus lugubris*, *D. buddha*, *D. cevirus*, *D. westermanni* (Hymenoptera: Crabronidae)

***Crabrovidia ectemnii*** Fain

*Vidia gussakovskii*: Cooreman, 1948: 8 (nec Zachvatkin, 1941)

*Crabrovidia ectemnii* Fain, 1973: 163

Type locality: La Panne (Belgium)

Distribution: Argentina, Austria, Belgium, Bolivia, Brazil, Colombia, Costa Rica, Croatia, Cyprus, France, Greece (Crete), Guiana, Honduras, Jamaica, Japan [Okinawa], Mexico, Morocco, Puerto Rico, Spain, Switzerland

Hosts: *Ectemnius carinatus*, *E. cavifrons*, *E. centralis*, *E. continuus*, *E. craesus*, *E. guttatus*, *E. hypsae*, *E. impressus*, *E. laevigatus*, *E. lapidaries*, *E. schettereri*, *E. semipunctatus*, *E. singularis*, *E. sonorensis*, *E. sexcinctus* (Hymenoptera: Crabronidae)

***Crabrovidia gussakovskii*** (Zachvatkin)

*Vidia (Crabrovidia) gussakovskii* Zachvatkin, 1941: 270

*Crabrovidia gussakovskii* (Zachvatkin): Fain, 1973: 160; Klimov, 1998: 25

Type locality: Crimea (Karadag)

Distribution: Russia, Crimea, Kuril Isl. (Iturup)

Hosts: *Crabro solenius*, *Ectemnius (Metacrabro) fossorius*, *E. (Hypocrabro) impressus*, *E. (Hypocrabro) continuus* (= *vagus* auct.) (Hymenoptera: Crabronidae)

***Crabrovidia hirsuta*** (OConnor et Eickwort)

*Vidia hirsuta* OConnor & Eickwort, 1988: 161

*Crabrovidia hirsuta* (OConnor et Eickwort):

Type locality: New Mexico, Sandoval Co., Jemez Springs

Distribution: USA

Host: *Megachile (Sayapis) fidelis* (Hymenoptera: Megachilidae)

***Crabrovidia julianii*** (Sevastianov)

*Vidia julianii* Sevastianov, in Kadzhaya & Sevastianov, 1967: 199

*Crabrovidia julianii* (Sevastianov): OConnor & Eickwort, 1988: 172

Type locality: Odessa

Distribution: Ukraine

***Crabrovidia latimanus*** (OConnor et Eickwort)

*Vidia latimanus* OConnor & Eickwort, 1988: 160

*Crabrovidia latimanus* (OConnor et Eickwort):

Type locality: Nova Scotia, Cape Breton Highlands National Park, Ingonish Beach

Distribution: Canada

Host: *Megachile (Xanthosaurus) latimanus* (Hymenoptera: Megachilidae)

***Crabrovidia leclercqi* Fain**

*Crabrovidia leclercqi* Fain, 1973: 179

Type locality: Yermasoyia

Distribution: Cyprus

Host: *Cerceris rubida* (Hymenoptera: Crabronidae)

***Crabrovidia ninae* (Sevastianov)**

*Vidia ninae* Sevastianov, in Kadzhaya & Sevastianov 1967: 198

*Crabrovidia ninae* (Sevastianov): OConnor & Eickwort 1988: 172

Type locality: Kherson Prov.

Distribution: Ukraine

Host: *Pseudovespa* sp. (Hymenoptera: Vespidae)

***Crabrovidia oudemansi* Fain**

*Crabrovidia oudemansi* Fain, 1971: 284; 1972: 244; 1973: 175; Nazan et al., 2019

Type locality: Corfu (Greece)

Distribution: Greece (Corfu), Iran

Host: *Cerceris* sp. (Hymenoptera: Crabronidae)

***Crabrovidia popovi* (Zachvatkin)**

*Vidia (Crabrovidia) popovi* Zachvatkin, 1941: 375

*Crabrovidia popovi* (Zachvatkin): Fain, 1973: 161

Type locality: Krasnograd (Ukraine)

Distribution: Abhasia, Croatia, Italy, Spain, Turkey, Ukraine, Uzbekistan

Hosts: *Lestica (Clypeocrabro) clypeata*, *L. (Ceratocolus) alata*, *L. (Clypeocrabro) wollmanni*,  
*Ectemnius impressus* (Hymenoptera: Crabronidae)

***Crabrovidia rubi* (OConnor et Eickwort)**

*Vidia rubi* OConnor & Eickwort, 1988: 148

*Crabrovidia rubi* (OConnor et Eickwort): Fain, 1971: 284

Type locality: Georgia, Liberty Co., St. Catherine's Island

Distribution: USA (Georgia)

Host: *Megachile (Xeromegachile) rubi* (Hymenoptera: Megachilidae)

***Crabrovidia texana* (OConnor et Eickwort)**

*Vidia texana* OConnor & Eickwort, 1988: 162

*Crabrovidia texana* (OConnor et Eickwort):

Type locality: New York, Albany Co., Rensselaerville, Edmund Niles Huyck Preserve

Distribution: USA

Host: *Megachile (Litomegachile) texana* (Hymenoptera: Megachilidae)

***Crabrovidia thomasi*** (Delfinado et Baker)

*Vidia thomasi* Delfinado & Baker, 1976: 81 (nom. nom. for *V. cooremani* Baker)

*Crabrovidia thomasi* (Delfinado et Baker): OConnor & Eickwort 1988: 172 (nom. nov.  
for *Vidia cooremani* Baker, 1964 nec *V. cooremani* Thomas, 1961)

Type locality: Plummers Island, Maryland

Distribution: USA (Maryland)

***Crabrovidia utahensis*** (Delfinado et Baker)

*Vidia (Euvidia) utahensis* Delfinado & Baker, 1976: 81

*Crabrovidia utahensis* (Delfinado et Baker): OConnor & Eickwort 1988: 172

Type locality: Beaver, Utah

Distribution: USA

Host: Hymenoptera (Sphecidae)

Genus ***Ensliniella*** Vitzthum

*Ensliniella* Vitzthum, 1925 [1924?]: 289

Type species: *Ensliniella aegyptiana* Baker et Cunliffe, 1960

***Ensliniella aegyptiana*** Baker et Cunliffe

*Ensliniella aegyptiana* Baker & Cunliffe, 1960: 214; Klompen & OConnor 1995: 126

Type locality: Abu Suttan

Distribution: Egypt

Hosts: *Allodynerus koenigi*, *A. vinciquerrae* (Hymenoptera: Vespidae, Eumeninae)

***Ensliniella asiatica*** Abe et Okabe

*Ensliniella asiatica* Abe & Okabe, 2006: 929

Type locality: Sakurazawa, Yorii town, Osato District, Saitama Prefecture, central Honshu,  
36°07'49"N, 139°12'28"E; 102 m

Distribution: Japan

Host: *Allodynerus mandschuricus* (Hymenoptera: Vespidae, Eumeninae)

***Ensliniella dignotus*** Klompen et OConnor

*Ensliniella dignotus* Klompen & OConnor, 1995: 126

Type locality: Turkey

Distribution: Turkey

Host: *Allodynerus dignotus* (Hymenoptera: Vespidae, Eumeninae)

***Ensliniella floricola*** Klompen et OConnor

*Ensliniella floricola* Klompen & OConnor, 1995: 127

Type locality: Pula (Croatia)

Distribution: Croatia, Austria, Bulgaria, France, Greece, Holland, Turkey

Hosts: *Allodynerus floricola*, *A. rossii* (Hymenoptera: Vespidae, Eumeninae)



***Ensliniella koenigi*** Baker et Cunliffe

*Ensliniella koenigi* Baker & Cunliffe, 1960: 216; Klompen & OConnor 1995: 127

Type locality: Ijonkak

Distribution: Morocco

Host: *Allodynerus koenigi* (Hymenoptera: Vespidae, Eumeninae)

***Ensliniella kostylevi*** Zakhvatkin

*Ensliniella kostylevi* Zakhvatkin, 1941: 267; Klompen & OConnor, 1995

Type locality: Byalovezh (Belarus)

Distribution: Belarus, Crimea, Holland, Algeria, Austria, Belgium, Bulgaria, France, Greece, Turkey

Host: *Allodynerus rossii* (Hymenoptera: Vespidae, Eumeninae)

***Ensliniella parasitica*** Vitzthum

*Ensliniella parasitica* Vitzthum, 1925: 289; Cooreman, 1942; Baker & Cunliffe, 1960: 214; Krivoluckiy, 1975: 476; Klompen & OConnor 1995: 128

Type locality: Germany (Bayern, Nürnberg)

Distribution: Armenia, Italy, Germany, Holland, Slovakia, Uzbekistan, Belgium, Czech Rep., Spain, Gibraltar, Tadjikistan, Kyrgyzstan, Kazakhstan

Hosts: *Allodynerus delphinalis*, *A. floricola* (Hymenoptera: Vespidae, Eumeninae; *Melittobia acasta* (Eulophidae)

Genus ***Kennethiella*** Cooreman

*Kennethiella* Cooreman, 1954: 2

Type species: *Ensliniella trisetosa* Cooreman, 1942

***Kennethiella trisetosa*** (Cooreman)

*Ensliniella trisetosa* Cooreman, 1942: 1; Cooper, 1955

*Kennethiella trisetosa* (Cooreman): Cooreman, 1954; Baker & Cunliffe, 1960: 218

Type locality: USA

Distribution: Finland, USA

Host: *Ancistrocerus antilope* (Hymenoptera: Vespidae, Eumeninae)

Genus ***Kurosaia*** Okabe et OConnor

*Kurosaia* Okabe & OConnor, 2002: 69

Type species: *Kurosaia jiju* Okabe et OConnor, 2002

***Kurosaia jiju*** Okabe et OConnor

*Kurosaia jiju* Okabe & OConnor, 2002: 69

Distribution: Japan

Host: *Anterhynchium flavomarginatum* (Hymenoptera, Vespidae)

Genus ***Macroharpa*** Mostafa

*Macroharpa* Mostafa, 1970b: 395

Type species: *Macroharpa amazonica* Mostafa, 1970

***Macroharpa amazonica*** Mostafa

*Macroharpa amazonica* Mostafa, 1970b: 397

Type locality: Faro, Estado de Para

Distribution: Brazil

Host: *Zethus biglumis ferrugineus* (Hymenoptera: Vespidae, Zethinae)

***Macroharpa arota*** Mostafa

*Macroharpa arota* Mostafa, 1970b: 399

Type locality: Amazonas, Manaus

Distribution: Brazil

Host: *Zethus arotus* (Hymenoptera: Vespidae, Zethinae)

***Macroharpa pachymapoda*** Mostafa

*Macroharpa pachymapoda* Mostafa, 1970b: 398

Type locality: Obidos, Estado de Para

Distribution: Brazil

Host: *Zethus lobulatus* (Hymenoptera: Vespidae, Zethinae)

***Macroharpa palpognatha*** Mostafa

*Macroharpa palpognatha* Mostafa, 1970b: 400

Type locality: Tefe

Distribution: Brazil

Host: *Zethus roridus* (Hymenoptera: Vespidae, Zethinae)

Genus ***Monobiacarus*** Baker et Cunliffe

*Monobiacarus* Baker & Cunliffe, 1960: 210

Type species: *Monobiacarus quadridens* Baker et Cunliffe, 1960

***Monobiacarus funebris*** Baker et Cunliffe

*Monobiacarus funebris* Baker & Cunliffe, 1960: 211

Type locality: Santa Rosa, Veracruz

Distribution: Mexico

Host: *Monobia apicalipennis* (Hymenoptera: Vespidae)

***Monobiacarus insularis*** Baker et Cunliffe

*Monobiacarus insularis* Baker & Cunliffe, 1960: 212

Type locality: San Rafael, Jicoltepee

Distribution: Mexico

Host: *Monobia angulosa* (Hymenoptera: Vespidae)

***Monobiacarus quadridens*** Baker et Cunliffe

*Monobiacarus quadridens* Baker & Cunliffe, 1960: 211

Type locality: Kill Devis Hills, North Carolina

Distribution: USA

Host: *Monobia quadridens* (Hymenoptera: Vespidae)

Genus ***Sphexicozela*** Mahunka

*Sphexicozela* Mahunka, 1970: 77

Type species: *Sphexicozela connivens* Mahunka, 1970

***Sphexicozela connivens*** Mahunka

*Sphexicozela connivens* Mahunka, 1970: 77; Rusina & Orlova, 2011: 685

Type locality: Budapest

Distribution: Hungary, Ukraine, Crimea

Hosts: *Polistes dominula*, *P. gallica*, *P. nimpha* (Hymenoptera: Vespidae, Polistinae)

Genus ***Vespacarus*** Baker et Cunliffe

*Vespacarus* Baker & Cunliffe, 1960: 220

Type species: *Vespacarus rufovestis* Baker et Cunliffe, 1960

***Vespacarus anacardivorus*** Baker et Cunliffe

*Vespacarus anacardivorus* Baker & Cunliffe, 1960: 224

Type locality: Paradise Key, Everglades National Park, Florida

Distribution: USA (Florida)

Host: *Stenodynerus* (*Parancystrocerus*) *perennis anacardovora* (Hymenoptera: Vespidae, Eumeninae)

***Vespacarus fulvipes*** Baker et Cunliffe

*Vespacarus fulvipes* Baker & Cunliffe, 1960: 222

Type locality: Kill Devil Hills, North Carolina

Distribution: USA

Host: *Stenodynerus* (*Parancystrocerus*) *f. fulvipes* (Hymenoptera: Vespidae, Eumeninae)

***Vespacarus histrio*** Baker et Cunliffe

*Vespacarus histrio* Baker & Cunliffe, 1960: 222

Type locality: Kill Devil Hills, North Carolina

Distribution: USA

Hosts: *Stenodynerus* (*Parancystrocerus*) *histrio*, *S. (P.) f. fulvipes* (Hymenoptera: Vespidae, Eumeninae)

***Vespacarus minimoferus*** Mostafa

*Vespacarus minimoferus* Mostafa, 1967: 618

Type locality: California

Distribution: USA

Host: *Parancystrocercus minimoferus* (Hymenoptera: Eumenidae)

***Vespacarus pedestris*** Baker et Cunliffe

*Vespacarus pedestris* Baker & Cunliffe, 1960: 226

Type locality: Derby, New York

Distribution: USA

Host: *Stenodynerus (Parancystrocercus) p. pedestris* (Hymenoptera: Vespidae, Eumeninae)

***Vespacarus rufovestis*** Baker et & Cunliffe

*Vespacarus rufovestis* Baker & Cunliffe, 1960: 220

Type locality: Lake Placid, Florida

Distribution: USA

Host: *Stenodynerus (Parancystrocercus) fulvipes rufovestis* (Hymenoptera: Vespidae, Eumeninae)

***Vespacarus saecularis*** Baker et Cunliffe

*Vespacarus saecularis* Baker & Cunliffe, 1960: 224

Type locality: Lake Placid, Florida

Distribution: USA

Host: *Stenodynerus (Parancystrocercus) saecularis* (Hymenoptera: Vespidae, Eumeninae)

***Vespacarus tigris*** Baker et Cunliffe

*Vespacarus tigris* Baker & Cunliffe, 1960: 228

Type locality: Arlington, Virginia

Distribution: USA

Host: *Ancistrocerus t. tigris* (Hymenoptera: Vespidae, Eumeninae)

***Vespacarus toltecus*** Baker et Cunliffe

*Vespacarus toltecus* Baker & Cunliffe, 1960: 226

Type locality: Chisos Mts., Brewster Co., Texas

Distribution: USA (Texas)

Host: *Stenodynerus (Parancystrocercus) toltecus* (Hymenoptera: Vespidae, Eumeninae)

***Vespacarus vagus*** Baker et Cunliffe

*Vespacarus vagus* Baker & Cunliffe, 1960: 228

Type locality: Toronto

Distribution: Canada

Host: *Stenodynerus v. vagus* (Hymenoptera: Vespidae, Eumeninae)

Genus **Vidia** Oudemans*Vidia* Oudemans, 1905: 22 [OConnor & Eickwort 1988]Type species: *Vidia undulata* Oudemans, 1905**Vidia lineata** Oudemans*Vidia lineata* Oudemans, 1917: 391; Zachvatkin, 1941: 373; Buitendijk, 1945: 356; Fain, 1972: 240; Nazan et al., 2019? *Vidia stoeckherti* Türk & Türk, 1957: 152 – Type: Erlangen, Germany.

Type locality: Bozen

Distribution: Belgium, Croatia, Germany, Greece (Corfu), Holland, Iran, Italy, Russia

Host: *Megachile pilicrus* (Hymenoptera: Megachilidae)**Vidia undulata** Oudemans*Vidia undulata* Oudemans, 1905: 22; Zachvatkin, 1941: 374; Fain, 1972: 239

Type locality: Maggianico

Distribution: Italy

Host: *Hylaeus (Prosopis) conformis* (Hymenoptera: Colletidae)Genus **Zethacarus** Mostafa*Zethacarus* Mostafa, 1971: 566Type species: *Zethacarus boharti* Mostafa, 1971**Zethacarus andinus** Mostafa*Zethacarus andinus* Mostafa, 1971: 572

Type locality: R.A. Cordoba, Totoral

Distribution: Argentina

Host: *Zethus andinus* (Hymenoptera: Vespidae, Zethinae)**Zethacarus argentinae** Mostafa*Zethacarus argentinae* Mostafa, 1971: 571

Type locality: Chaco de Santiago del Estro Bords du Rio Salado env. d'Icano

Distribution: Argentina

Host: *Zethus haywardi* (Hymenoptera: Vespidae, Zethinae)**Zethacarus boharti** Mostafa*Zethacarus boharti* Mostafa, 1971: 567

Type locality: Tamaulipas

Distribution: Mexico

Host: *Zethus gurreroi mayorum* (Hymenoptera: Vespidae, Zethinae)**Zethacarus ellipsus** Mostafa*Zethacarus ellipsus* Mostafa, 1971: 575

Type locality: Orizaba, Ver.

Distribution: Mexico

Host: *Zethus orizabae* (Hymenoptera: Vespidae, Zethinae)

***Zethacarus miscogaster*** Mostafa

*Zethacarus misco gaster* Mostafa, 1971: 569

Type locality: 38 mi. W Jiquilpan Mich.

Distribution: Mexico

Host: *Zethus miscogaster* (Hymenoptera: Vespidae, Zethinae)

***Zethacarus paranicus*** Mostafa

*Zethacarus paranicus* Mostafa, 1971: 574

Type locality: Parana

Distribution: Brazil

Host: *Zethus smithii* (Hymenoptera: Vespidae, Zethinae)

Genus ***Zethovidia*** Mostafa, 1970

*Zethovidia* Mostafa, 1970a: 178 (subgenus of *Vidia*)

*Zethovidia* Mostafa: Fain, 1972: 245 (genus)

Type species: *Vidia (Zethovidia) diminuta* Mostafa, 1970

***Zethovidia acaris*** (Mostafa)

*Vidia (Zethovidia) acaris* Mostafa, 1970b: 385

*Zethovidia acaris* (Mostafa)

Type locality: Maroni

Distribution: French Guiana

Host: *Zethus carbonarius* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia arizonensis*** (Mostafa)

*Vidia (Zethovidia) arizonensis* Mostafa, 1970a: 187

*Zethovidia arizonensis* (Mostafa)

Type locality: San Simeon, Cochise Co., Arizona

Distribution: USA

Host: *Zethus guerreroi arizonensis* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia brasiliensis*** (Mostafa)

*Vidia (Zethovidia) brasiliensis* Mostafa, 1970a: 389

*Zethovidia brasiliensis* (Mostafa)

Type locality: Chapa

Distribution: Brazil

Host: *Zethus coeruleopennis* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia brevapodemis*** (Mostafa)

*Vidia (Zethovidia) brevapodemis* Mostafa, 1970b: 387

*Zethovidia brevapodemis* (Mostafa)

Type locality: Suriname

Distribution: Suriname

Host: *Zethus magnus* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia compactilis*** (Mostafa)

*Vidia (Zethovidia) compactilis* Mostafa, 1970a: 188

*Zethovidia compactilis* (Mostafa)

Type locality: 3 mi. N.W. Petlalcingo, Puebla

Distribution: Mexico

Host: *Zethus guerreroi guerreroi* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia diminuta*** (Mostafa)

*Vidia (Zethovidia) diminuta* Mostafa, 1970a: 181

*Zethovidia diminuta* (Mostafa)

Type locality: San Bernardino

Distribution: Brazil, Paraguay

Host: *Zethus diminutus diminutus*, *Z. diminutus santaremae* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia floridae*** (Mostafa)

*Vidia (Zethovidia) floridae* Mostafa, 1970b: 392

*Zethovidia floridae* (Mostafa)

Type locality: Royal Palm Park, Florida

Distribution: USA

Host: *Zethus slossonae* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia fusca*** (Mostafa)

*Vidia (Zethovidia) fusca* Mostafa, 1970b: 394

*Zethovidia fusca* (Mostafa)

Type locality: Barro Colorado, Canal Zone

Distribution: Panama

Host: *Zethus fuscus* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia laevapodemis*** (Mostafa)

*Vidia (Zethovidia) laevapodemis* Mostafa, 1970a: 183

*Zethovidia laevapodemis* (Mostafa)

Type locality: 23 mi. S. Matias Romero, Oaxaca

Distribution: Mexico

Host: *Zethus menkei* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia mexicana*** (Mostafa)

*Vidia (Zethovidia) mexicana* Mostafa, 1970a: 184

*Zethovidia mexicana* (Mostafa)

Type locality: 30 mi. W. Acayucan, Veracruz

Distribution: Mexico

Host: *Zethus parkeri* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia oculabsensa*** (Mostafa)

*Vidia (Zethovidia) oculabsensa* Mostafa, 1970a: 191

*Zethovidia oculabsensa* (Mostafa)

Type locality: Chapada de Aunr Mato Grosso

Distribution: Brazil

Host: *Zethus inconstans* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia paraguayensis*** (Mostafa)

*Vidia (Zethovidia) paraguayensis* Mostafa, 1970a: 182

*Zethovidia paraguayensis* (Mostafa)

Type locality: San Bernardino

Distribution: Paraguay

Host: *Zethus diminutus diminutus* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia parvula*** (Mostafa)

*Vidia (Zethovidia) parvula* Mostafa, 1970b: 392

*Zethovidia parvula* (Mostafa)

Type locality: Corrientes

Distribution: Argentina

Host: *Zethus parvulus* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia promina*** (Mostafa)

*Vidia (Zethovidia) promina* Mostafa, 1970a: 388

*Zethovidia promina* (Mostafa)

Type locality: Chapa

Distribution: Brazil

Host: *Zethus prominens* (Hymenoptera: Vespidae, Zethinae)

***Zethovidia reticulata*** (Mostafa)

*Vidia (Zethovidia) reticulata* Mostafa, 1970b: 384



*Zethovidia reticulata* (Mostafa)

Type locality: 42 km SE Maturin Monagas

Distribution: Venezuela

Host: *Zethus romandinus* (Hymenoptera: Vespidae, Zethinae )***Zethovidia rugocoxa*** (Mostafa)*Vidia (Zethovidia) rugocoxa* Mostafa, 1970a: 189*Zethovidia rugocoxa* (Mostafa)

Type locality: 3 mi. N.W. Petlalcingo, Puebla

Distribution: Mexico

Host: *Zethus guerreroi guerreroi* (Hymenoptera: Vespidae, Zethinae )***Zethovidia salvadorensis*** (Mostafa)*Vidia (Zethovidia) salvadorensis* Mostafa, 1970a: 186*Zethovidia salvadorensis* (Mostafa)

Type locality: 4 mi. N. Quezaltepeque

Distribution: El Salvador

Host: *Zethus irwini* (Hymenoptera: Vespidae, Zethinae )Subfamily **Saproglyphinae** Oudemans

Saproglyphinae Oudemans, 1924

Type genus: *Saproglyphus* Berlese, 1890Genus ***Acalvolia*** Fain*Acalvolia* Fain, 1971: 283Type species: *Vidia squamata* Oudemans, 1909***Acalvolia americana*** Fan Qing-Hai, George & Kumarasinghe*Acalvolia americana* Fan Qing-Hai, George & Kumarasinghe, 2010: 42

Type locality: intercepted in New Zealand from oranges from the USA

Distribution: USA

***Acalvolia squamata*** (Oudemans)*Vidia squamata* Oudemans, 1909: 317; Zachvatkin, 1941: 371*Acalvolia squamata* (Oudemans): Fain, 1971: 283; 1972: 234; Fain & Knülle, 1981: 140;  
Barbosa & de Moraes, 2021

Type locality: Semarang (Java)

Distribution: Germany, Holland, (?) Indonesia (probably an error), Brazil

Host: *Mus jerdoni* (Rodentia: Muridae); house dustGenus ***Congovidia*** Fain et Elsen, in Fain, 1971

*Congovidia* Fain & Elsen, in Fain 1971: 282; Fain, Hurst, Tweddle, Lachlan, Majerus & Britt 1995: 100; see also Fain & Camerik, 1977 description of adult]

Type species: *Congovidia glossinae* Fain, 1971

***Congovidia benelux*** Fain, Hurst, Fassotte, Webberley, Sloggett et Majerus

*Congovidia benelux* Fain, Hurst, Fassotte, Webberley, Sloggett & Majerus, 1997: 89

Type locality: Wageningen

Distribution: Holland

Host: *Adalia bipunctata* (Coleoptera: Coccinellidae)

***Congovidia brasiliensis*** Fain et Camerik

*Congovidia brasiliensis* Fain & Camerik, 1977: 46; Fain, Hurst, Tweddle, Lachlan, Majerus & Britt 1995: 103

Type locality: Itatiaia (State of Rio de Janeiro)

Distribution: Brazil

Host: in the nest of *Trypoxylon (Trypargilum) aestivale* (Hymenoptera: Sphegidae)

***Congovidia coccinellidarum*** Fain, Hurst, Tweddle, Lachlan, Majerus et Britt

*Congovidia coccinellidarum* Fain, Hurst, Tweddle, Lachlan, Majerus & Britt, 1995: 100

Type locality: England

Distribution: England, Belgium

Host: *Halyzia sedecimguttata* (Coleoptera: Coccinellidae)

***Congovidia glossinae*** Fain

*Congovidia glossinae* Fain & Elsen, 1971: 282; 1972: 77; Fain, Hurst, Tweddle, Lachlan, Majerus & Britt, 1995: 103

Type locality: Luputa, Mabenga, Benzali

Distribution: DR Congo

Host: *Glossina fuscipes quanzensis* (Diptera: Glossinidae)

***Congovidia lomamiensis*** Fain et Elsen

*Congovidia lomamiensis* Fain & Elsen, 1972: 81; Fain, Hurst, Tweddle, Lachlan, Majerus & Britt, 1995: 103

Type locality: Luputa

Distribution: DR Congo

Host: *Glossina fuscipes quanzensis* (Diptera: Glossinidae)

***Congovidia servalina*** Fain et Elsen

*Congovidia servalina* Fain & Elsen, 1972: 83; Fain, Hurst, Tweddle, Lachlan, Majerus & Britt, 1995: 103

Type locality: Lundu, Mayumbe

Distribution: DR Congo

Host: *Glossina palpalis palpalis* (Diptera: Glossinidae)

**Congovidia** sp.

*Hybomitra epistates* *H. lasiophthalma*, *H. microcephala*, *H. nuda*, *H. sodalist*, *Tabanus lineata*, *T. reinwardii* (Canada)

Genus **Gambacarus** Mahunka

*Gambacarus* Mahunka, 1975: 43

Type species: *Gambacarus huettleri* Mahunka, 1975

**Gambacarus huettleri** Mahunka

*Gambacarus huettleri* Mahunka, 1975: 43

Type locality: Gambia

Distribution: Gambia

Genus **Neocalvolia** Hughes

*Neocalvolia* Hughes, 1970: 153

Type species: *Neocalvolia claggi* Hughes, 1970

**Neocalvolia claggi** Hughes

*Neocalvolia claggi* Hughes, 1970: 153

Type locality: grass, Bird I., South Georgia

Distribution: South Georgia

**Neocalvolia coperminensis** Rosas et Casanueva

*Neocalvolia coperminensis* Rosas & Casanueva, 1993: 66

Type locality: South Shetlands

Distribution: South Shetlands

**Neocalvolia inermis** Fain et Schuster

*Neocalvolia inermis* Fain & Schuster, 1983: 421

Type locality: Harrington Sound, Main Island

Distribution: Bermudas

Genus **Neosuidasia** Ranganath et Channabasa, in Ranganath, Channabasavanna & Krishna-Rao

*Neosuidasia* Ranganath & Channabasa, in Ranganath, Channabasavanna & Krishna-Rao, 1983: 63

Type species: *Neosuidasia faini* Ranganath et Channabasa, in Ranganath, Channabasavanna & Krishna-Rao, 1983

***Neosuidasia faini*** Ranganath et Channabasa, in Ranganath, Channabasavanna & Krishna-Rao

*Neosuidasia faini* Ranganath & Channabasa, in Ranganath, Channabasavanna & Krishna-Rao, 1983: 64

Type locality: unknown (India?)

Distribution: on imported animal feed by Vegetal Quarantine of Cuba

Genus ***Neottiglyphus*** Volgin

*Neottiglyphus* Volgin, 1974: 223

Type species *Neottiglyphus alatavicus* Volgin, 1974

***Neottiglyphus alatavicus*** Volgin

*Neottiglyphus alatavicus* Volgin, 1974: 224

Type locality: Kazakhstan

Distribution: Kazakhstan

Genus ***Saproglyphus*** Berlese

*Saproglyphus* Berlese, 1890: 6

Type species: *Saproglyphus neglectus* Berlese, 1890 (Diagnostic, Volgin 1980: 161)

***Saproglyphus cocciphagus*** Womersley

*Saproglyphus cocciphagus* Womersley, 1941: 471

Type locality: Australia

Distribution: Australia

***Saproglyphus neglectus*** Berlese

*Saproglyphus neglectus* Berlese, 1890: 6 [Diagnostic, Volgin 1980: 161]

Type locality: Sahalin

Distribution: Russia (Sahalin), Italy

***Saproglyphus setosus*** Volgin

*Saproglyphus setosus* Volgin, 1980: 159

Type locality: Yuzhno-Sakhalinsk (Sakhalin Island)

Distribution: Russia (Far East)

Host: on birch bark

***Saproglyphus waldorfae*** (Fain et Johnston)

*Calvolia waldorfae* Fain & Johnston, 1974: 416

*Saproglyphus waldorfae* (Fain et Johnston): Khaustov et al., 2018: 53

Type locality: Domleo, Spinney, Sutton Bonington

Distribution: England, Russia (Tyumen Region)

Host: *Sminthurus fuscus* (Collembola: Sminthuridae), galleries of *Ips typographus* (Coleoptera: Curculionidae, Scolytinae)

Subfam. **Oulenziinae** Oudemans

Oulenziidae: Oudemans, 1928

Type genus: *Oulenzia* Radford, 1950

Genus ***Oulenzia*** Radford

*Lenzia* Oudemans, 1928: 327 [praeocc.!]

*Oulenzia* Radford, 1950: 152; [syn. by Hughes 1962: 60; Type is *arboricola*; nomen nova for *Lenzia*?; restored by Fan et al., 2012]

Type species: *Lenzia arboricola* Oudemans, 1928

***Oulenzia arboricola*** (Oudemans)

*Lenzia arboricola* Oudemans, 1928: 327

*Calvolia arboricola* (Oudemans): Hughes, 1962: 61

*Oulenzia arboricola* (Oudemans): Radford, 1950: 222; Fan, George & Kumarasinghe, 2012: 334; Barbosa & de Moraes, 2021

Type locality: Medan, Deli, Sumatra

Distribution: Indonesia (Sumatra), Brazil

Host: *Hevea* leaves

Genus ***Oulenziella*** Fan, George, Li et Zhang

*Oulenziella* Fan, George, Li & Zhang, 2015: 191

Type species: *Calvolia bakeri* Hughes, 1962

***Oulenziella bakeri*** (Hughes)

*Calvolia bakeri* Hughes, 1962: 59 (as nom. nov.); Woodring, 1966: 80

*Oulenzia bakeri* (Hughes): Radford, 1950

*Oulenziella bakeri* (Hughes): Fan et al., 2015: 191; Barbosa & de Moraes, 2021

*Oulenzia gossypii* Meyer & Rodrigues, 1965: (Mozambique, Kaidundjua, on *Gossypium* sp., syn. by Fan et al., 2015)

Type locality: India

Distribution: India, Mozambique, Brazil, Indonesia (Sumatra)

***Oulenziella longiseta*** Barbosa et de Moraes

*Oulenziella longiseta* Barbosa & de Moraes, 2021:

Type locality: Brazil

Distribution: Brazil

Genus ***Procalvolia*** Fain

*Procalvolia* Fain, 1971: 283

Type species: *Calvolia zacheri* Oudemans, 1929

***Procalvolia aviophilus*** Sevastianov et Hassan

*Procalvolia aviophilus* Sevastianov & Hassan, 1989: 141

Type locality: Ukraine

Distribution: Ukraine

Host: *Pica pica* (Aves: Corvidae)

***Procalvolia coccinella*** Sevastianov et Hassan

*Procalvolia coccinella* Sevastianov & Hassan, 1989: 141

Type locality: Ukraine

Distribution: Ukraine

Host: *Coccinella* (Coleoptera: Coccinellidae)

***Procalvolia hamadi*** Sevastianov et Hassan

*Procalvolia hamadi* Sevastianov & Hassan, 1989: 141

Type locality: Egypt

Distribution: Egypt

Host: *Labidura riparia* (Dermaptera: Labiduridae)

***Procalvolia zacheri*** (Oudemans)

*Calvolia zacheri* Oudemans, 1929: 36; Zachvatkin, 1941: 361

*Calvolia romanovae* Zachvatkin, 1941: 345; Hughes, 1962: 54 (syn. by Fain, 1972)(type from Moskow); Angelkova, 1988:

*Calvolia tarsoinfracta* Türk & Türk, 1957: 167 (syn. with *Calvolia romanovae* by Hughes, 1962)

*Procalvolia zacheri* (Oudemans): Fain, 1971: 283; 1972: 235; Rack, 1980: 304

Type locality: Berlin

Distribution: Bulgaria, Germany, New Zealand (cheese), Russia

Genus ***Psylloglyphus*** Fain

*Psylloglyphus* Fain, 1966: 159

Type species: *Psylloglyphus u. uilenbergi* Fain, 1966

Subgenus ***Psylloglyphus*** (s. str.) Fain

*Psylloglyphus* Fain, 1966: 159

Type species: *Psylloglyphus u. uilenbergi* Fain, 1966

***Psylloglyphus (Psylloglyphus) australiensis*** Fain, Bartholomaeus, Cooke et Beaucournu

*Psylloglyphus (Psylloglyphus) australiensis* Fain, Bartholomaeus, Cooke & Beaucournu, 1990: 97

Type locality: Forrest (Victoria)

Distribution: Australia

Hosts: *Pygiopsylla hoplia*, *Bibikovana rainbowi*, *Acanthopsylla r. rothschildi*, *Macropsylla hercules* (Siphonaptera: Pygiopsyllidae)

***Psylloglyphus (Psylloglyphus) crenulatus*** Fain

*Psylloglyphus (Psylloglyphus) crenulatus* Fain & Beaucournu, 1984: 100

Type locality: Ile de la Possession, Pointe Lieutard, alt. 50 m, Arch. Crozet

Distribution: Arch. Crozet

***Psylloglyphus (Psylloglyphus) parapsyllus*** Fain et Galloway

*Psylloglyphus (Psylloglyphus) parapsyllus* Fain & Galloway, 1993a: 160

Type locality: Motunau Island, Plateau Region

Distribution: New Zealand

Host: fleas in nests of *Eudyptula minor* and *Pachyptila turtur*

***Psylloglyphus (Psylloglyphus) maculatus*** Fain et Beaucournu

*Psylloglyphus (Psylloglyphus) maculatus* Fain & Beaucournu, 1976: 184

Type locality: Ulugombak, Selangor, Malaysia

Distribution: Malaysia

Host: *Medwayella robinsoni* (Siphonaptera: Pygiopsyllidae)

***Psylloglyphus (Psylloglyphus) reticulatus*** Fain et Beaucournu

*Psylloglyphus reticulatus* Fain & Beaucournu, 1976: 182

Type locality: Buhengere, Kivu, DR Congo

Distribution: DR Congo

Host: *Ctenophthamus calceatus cabirus* (Siphonaptera)

***Psylloglyphus (Psylloglyphus) u. uilenbergi*** Fain

*Psylloglyphus (Psylloglyphus) uilenbergi* Fain, 1966: 162; Fain & Beaucournu, 1976: 181

Type locality: Madagascar, Iwato

Distribution: Madagascar

Hosts: *Paractenophyllus petiti*, *Synopsyllus fonquerniei* (Siphonaptera from tenrecs - *Microgale* and *Setifer setosus*)

***Psylloglyphus (Psylloglyphus) uilenbergi kivuensis*** Fain et Beaucournu

*Psylloglyphus (Psylloglyphus) uilenbergi kivuensis* Fain & Beaucournu, 1976: 182; Fain & Schwan, 1976: 634

Type locality: Kivu (DR Congo)

Distribution: DR Congo, Gabon, Kenya

Hosts: *Ctenophthalmus cabirus*, *Dinopsyllus apistus*, *D. echinus*, *D. lypusus*, *Listropsylla dolosa*, *Stivalius sitianus*, *Xiphiopsylla levis* (Siphonaptera)

***Psylloglyphus (Psylloglyphus) vietnamensis*** Fain et Beaucournu

*Psylloglyphus (Psylloglyphus) vietnamensis* Fain & Beaucournu, 1972: 529

Type locality: Dalat, South Vietnam

Distribution: Vietnam

Host: *Stivalius aporus rectodigitus* (Siphonaptera) from *Rattus rattus* (Rodentia)

Subgenus ***Psylloglyphus (Hemimeropus)*** Fain et Beaucournu

*Psylloglyphus (Hemimeropus)* Fain & Beaucournu, 1976: 184

Type species: *Psylloglyphus (Hemimeropus) hemimerus* Fain et Beaucournu, 1976

***Psylloglyphus (Hemimeropus) hemimerus*** Fain et Beaucournu

*Psylloglyphus (Hemimeropus) hemimerus* Fain & Beaucournu, 1976: 184

Type locality: Butare

Distribution: Rwanda

Host: on *Hemimerus bouvieri* (Dermaptera: Hemimeridae), parasite on *Cricetomys gambianus* (Rodentia: Nesomyidae)

Subgenus ***Psyllobia*** Fain, Bartholomaeus, Cooke et Beaucournu

*Psyllobia* Fain, Bartholomaeus, Cooke et Beaucournu, 1990:

Type species: *Psylloglyphus (Psylloglyphus) foveolatus* Fain et Mason, 1989

***Psylloglyphus (Psyllobia) foveolatus*** Fain et Mason

*Psylloglyphus (Psylloglyphus) foveolatus* Fain & Mason, 1989: 43; Fain et al., 1990:

Type locality: 12 km S of Launceston, Tasmania

Distribution: Australia (Tasmania, Victoria)

Hosts: phoretic on *Pygiopsylla hoplia* from *Rattus rattus* (Muridae), *Bibikovana rainbowi*, *Acanthopsylla r. rothschildi* (Siphonaptera: Pygiopsyllidae)

Subgenus ***Tetrapsyllopus*** Fain et Beaucournu

*Psylloglyphus (Tetrapsyllopus)*: Fain & Beaucournu, 1986: 257

Type species: *Psylloglyphus (Tetrapsyllopus) micronychus* Fain et Beaucournu, 1986

***Psylloglyphus (Tetrapsyllopus) chiliensis*** Fain et Beaucournu

*Psylloglyphus (Tetrapsyllopus) chiliensis* Fain & Beaucournu, 1989: 139

Type locality: Isla Quila (Chiloë)

Distribution: Chile



Hosts: *Sphinctopsylla ares* (Stephanocircidae), *Ctenoparia inopinata* (Hystrihopsyllidae)  
(Siphonaptera)

***Psylloglyphus (Tetrapsyllopus) micronychus*** Fain et Beaucournu  
*Psylloglyphus (Tetrapsyllopus) micronychus* Fain & Beaucournu, 1986: 258  
Type locality: Galletué (Prov. Malleco)  
Distribution: Chile

Genus ***Trypetacarus*** Fain  
*Trypetacarus* Fain, 1971: 283  
Type species: *Calvolia trypetidarum* Cooreman, 1942

***Trypetacarus trypetidarum*** (Cooreman)  
*Calvolia trypetidarum* Cooreman, 1942: 1  
*Trypetacarus trypetidarum* (Cooreman): Fain, 1971: 283  
Type locality: Kutu. District des Bangala  
Distribution: DR Congo  
Host: *Celidodacus fenestratus* (Diptera: Trypetidae)

Subfamily **Winterschmidtinae** Oudemans  
Winterschmidtidae Oudemans, 1923: 206  
Calvoliinae Türk & Türk, 1957: 155 – Type: *Calvolia* Oudemans, 1911  
Type genus: *Winterschmidtia* Oudemans, 1923

Genus ***Allocalvolia*** Fain et Rack  
*Allocalvolia* Fain & Rack, 1987: 310  
Type species: *Allocalvolia habrocytus* Fain et Rack, 1987

***Allocalvolia bisculpturata*** (Mahunka)  
*Calvolia bisculpturata* Mahunka, 1974a: 137; Eraky 1998: 248  
*Allocalvolia bisculpturatus* (Mahunka): Fain & Rack 1987: 311  
Type locality: Amedzofe  
Distribution: Ghana

***Allocalvolia habrocytus*** Fain et Rack  
*Allocalvolia habrocytus* Fain & Rack, 1987: 311  
Type locality: Eastern Austria  
Distribution: Austria  
Host: *Habrocytus elevatus* (Hymenoptera: Pteromalidae)

Genus ***Calvolia*** Oudemans

*Calvolia* Oudemans, 1911: 187

Type species: *Calvolia hagensis* Oudemans, 1911

***Calvolia antarctica*** Hughes

*Calvolia antarctica* Hughes, 1966: 45

Type locality: South Sandwich Islands

Distribution: South Sandwich Islands

***Calvolia astoma*** Türk et Türk

*Calvolia astoma* Türk & Türk, 1957: 160; Hughes, 1962: 61

Type locality: Erlangen (Germany)

Distribution: Germany, Slovakia

Hosts: *Formica rufa*, *Lasius fuliginosus* (Hymenoptera: Formicidae)

***Calvolia bulgarica*** Štorkan

*Calvolia bulgarica* Štorkan, 1935: 22; Zachvatkin, 1941: 257; Hughes, 1962: 61

Type locality: Bulgaria, Botev Summit (= Yumrukchal)

Distribution: Bulgaria, Russia

Host: *Aphthona euphorbiae* (Coleoptera: Chrysomelidae, Alticinae)

***Calvolia calliphorae*** Vitzthum

*Calvolia calliphorae* Vitzthum, 1922: 539; Zachvatkin, 1941: 256; Hughes, 1962: 61

Type locality: Weimar

Distribution: Germany

Host: *Calliphora vomitoria* (Diptera: Calliphoridae)

***Calvolia domicola*** Oshima

*Calvolia domicola* Oshima, 1979: 240

Type locality: Minami-ku, Yokohama

Distribution: Japan

Host: house dust

***Calvolia elisabethae*** Zachvatkin

*Calvolia elisabethae* Zachvatkin, 1941: 254

Type locality: Staraya Bukhara (Uzbekistan)

Distribution: Georgia, Uzbekistan

Hosts: *Ellobius talpinus*, *Prometheomys shaposhnikov* (Mammalia: Rodentia)

***Calvolia elongata*** Volgin

*Calvolia elongata* Volgin, 1980: 167

Type locality: Alma-Atinskaya Obl., Kaskelenskiy Rayon

Distribution: Kazakhstan

Host: manure

***Calvolia fraxini*** Türk et Türk

*Calvolia fraxini* Türk & Türk, 1957:

Type locality: Munich

Distribution: Germany

Host: *Leperisinus orni* (Coleoptera: Curculionidae)

***Calvolia furnissi*** Woodring

*Calvolia furnissi* Woodring, 1966: 76

Type locality: Moskow, Idaho

Distribution USA

Host: from the galleries and frass: "from the galleries and frass therein of *Dendroctonus pseudotsugae* in Douglas fir"

***Calvolia fusiformis*** Zachvatkin

*Calvolia fusiformis* Zachvatkin, 1941: 259; Hughes, 1962: 61

Type locality: Klinskiy Rayon, Moskovskaya Obl.

Distribution: Russia

Host: *Blastophagus minor* (Coleoptera: Curculionidae, Scolytinae)

***Calvolia glabra*** Womersley

*Calvolia glabra* Womersley, 1941: 474

Type locality: Adelaide Zoo

Distribution: Australia

Host: "from a branchium of a Boa"

***Calvolia goetzae*** Türk et Türk

*Calvolia goetzae* Türk & Türk, 1957: 163; Hughes, 1962: 61

Type locality: Moskow

Distribution: Russia, Slovakia

Hosts: *Aphodius minor*, *A. prodromus* (Coleoptera: Scarabaeidae)

***Calvolia hagensis*** Oudemans

*Calvolia hagensis* Oudemans, 1911: 187; Vitzthum, 1920: 58; Zachvatkin, 1941: 359; Hughes, 1962: 61; Fain, 1972: 229

Type locality: Hague

Distribution: Holland

***Calvolia hebeclinii*** (Sicher)

*Glycyphagus hebeclinii* Sicher, in Canestrini, 1899: 971

*Calvolia hebeclinii* (Sicher): Zachvatkin, 1941: 253; Hughes, 1962: 61

Type locality: Sicily

Distribution: Italy (Sicily)

Host: on plants

***Calvolia heterocoma*** (Michael)

*Tyroglyphus heterocomus* Michael, 1903: 106

*Czenspinskia heterocoma*: Oudemans, 1927:

*Calvolia heterocoma* (Michael): Zachvatkin, 1941: 248; Hughes, 1962: 61

Type locality: New Forest, Hampshire

Distribution: England, Bulgaria, Slovakia

***Calvolia kamenskii*** Zachvatkin

*Calvolia kamenskii* Zachvatkin, 1941: 254; Hughes, 1962: 61

Type locality: Bashkortistan

Distribution: Russia

***Calvolia longipes*** Türk et Türk

*Calvolia longipes* Türk & Türk, 1957: 170

Type locality: Erlangen (Germany)

Distribution: Germany, Slovakia

Host: *Chelidura acanthopygia* (Dermaptera: Forficulidae)

***Calvolia longireticulatae*** Ramaraju et Mohanasundaram

*Calvolia longireticulatae* Ramaraju & Mohanasundaram, 1999: 47

Type locality: Chidambaram, Tamil Nadu

Distribution: India

Host: Coleoptera, Meloidae gen. sp.

***Calvolia marie*** Samšinák

*Calvolia marie* Samšinák, 1989: 105

Distribution: DR Congo

Host: *Gymnometopina magna* (Diptera: Sphaeroceridae)

***Calvolia minima*** Türk et Türk

*Calvolia minima* Türk & Türk, 1957: 170; Hughes, 1962: 61

Type locality: Erlangen

Distribution: Germany

Host: *Scolytus intricatus* (Coleoptera: Curculionidae, Scolytinae)

***Calvolia miniopteri*** Dusbábek

*Calvolia miniopteri* Dusbábek, 1964: 228

Type locality: Ciertova diera

Distribution: Slovakia

Host: *Miniopterus schreibersi* (Chiroptera: Miniopteridae)

***Calvolia priapus*** Volgin

*Calvolia priapus* Volgin, 1980: 161; Faradonbeh et al., 2018: 12

Type locality: Semirabad (Azerbaijan)

Distribution: Azerbaijan, Iran, Ukraine (Odessa)

Host: bird's nests

***Calvolia reticulata*** Zachvatkin

*Calvolia reticulata* Zachvatkin, 1941: 254; Hughes, 1962: 61

Type locality: Sussillon (Switzerland)

Distribution: Slovakia, Switzerland

Host: *Osmia (Anthocopa) dalmatina* (Hymenoptera:

***Calvolia romanovae*** Zachvatkin

*Calvolia romanovae* Zachvatkin, 1941: 252

*Calvolia tarsoinfracta* Türk & Türk, 1957: 167 (syn. by Hughes, 1962)

Type locality: Moscow (Russia)

Distribution: Russia, Germany, New Zealand

***Calvolia ruehmi*** Türk et Türk

*Calvolia ruehmi* Türk & Türk, 1957: 162; Hughes, 1962: 61; Woodring, 1966: 80

Type locality: Erlangen

Distribution: Germany

Host: *Dryocoetes villosus* (Coleoptera: Curculionidae, Scolytinae)

***Calvolia solimani*** Eraky

*Calvolia solimani* Eraky, 1999: 215

Type locality: Aswan, Botanical Island

Distribution: Egypt

Host: Phoretic on *Amitermes desertorum* (Insecta)

***Calvolia striata*** Vitzthum

*Calvolia striata* Vitzthum, 1914: 324; Zachvatkin, 1941: 260; Hughes, 1962: 61

Type locality: Ivory Coast

Distribution: Italy (?), Ivory Coast

Hosts: *Taphrorhynchus* sp. (?), *Pityogenes lepidus* (Coleoptera: Curculionidae, Scolytinae)

***Calvolia summersi*** Mostafa

*Calvolia summersi* Mostafa, 1971: 577

Type locality: Amazonas, Manaus

Distribution: Brazil

Host: *Zethus binodis* (Hymenoptera: Vespidae, Eumeninae)

***Calvolia thraca*** Vitzthum

*Calvolia thraca* Vitzthum, 1922: 542; Zachvatkin, 1941: 255; Hughes, 1962: 61

Type locality: Bulgaria, Sofia

Distribution: Bulgaria, Russia

Host: Diptera

***Calvolia tuberculata*** Zachvatkin

*Calvolia tuberculata* Zachvatkin, 1941: 248; Hughes, 1962: 61; Woodring, 1966: 80

Type locality: Georgia

Distribution: Georgia, Slovakia

***Calvolia wichmanni*** Türk et Türk

*Calvolia wichmanni* Türk & Türk, 1957: 164

Type locality: Erlangen

Distribution: Germany

Host: *Pyrrhidium sanguineum* (Coleoptera: Cerambycidae)

***Calvolia zachvatkini*** Volgin

*Calvolia zachvatkini* Volgin, 1980: 165

Type locality: Russia (Orichevsky Rayon, Kirovskaya Obl.)

Distribution: Kazakhstan, Russia

Host: hay and rodent's nests

***Calvolia zacheriana*** nom. nov. Eraky

*Calvolia zaheri* Eraky, 1998: 246; 1999: 217

Type locality: 47 km North of El-Kharga city, New Valley

Distribution: Egypt

Host: *Psammotermes hypostoma* (Isoptera: Rhinotermitidae)

***Calvolia*** sp.

Hosts: *Hybomitra affinis*, *H. epitates*, *H. lasiophthalma*, *H. nuda*, *Tabanus atratus* (Canada)

Genus **Czenspinskia** Oudemans

Genus **Czenspinskia** Oudemans, 1923 [syn. with *Calvolia* by Hughes 1962: 60; separate by OConnor]

*Donndorffia* Oudemans, 1931: 203; [syn. by Hughes 1962: 60; Type is *transversostrata*]

Type species: *Tyroglyphus heterocomus* Michael, 1903

***Czenspinskia transversostrata*** (Oudemans)

*Donndorffia transversostrata* Oudemans, 1931: 203

*Czenspinskia transversostrata* (Oudemans): Ripka et al., 2002: 278; Barbosa & de Moraes, 2021

*Czenspinskia lordi* Nesbitt, 1946: syn. by Hughes, 1962

*Calvolia transversostrata* (Oudemans): Hughes 1962: 48

Type locality: "Mares niet gevonden"

Distribution: Croatia, Holland, France, Hungary, Italy, Switzerland, Spain, Canada, USA, Brazil, Australia

Genus **Parawinterschmidtia** Khaustov

*Parawinterschmidtia* Khaustov, 2000: 57

Type species: *Calvolia kneissli* Krausse, 1919

***Parawinterschmidtia kneissli*** (Krausse)

*Calvolia kneissli* Krausse, 1919: 123; Zachvatkin, 1941: 255; Türk & Türk, 1957: 157; Samšínák, 1957; Hughes, 1962: 61; Cooreman, 1963: 24; Woodring, 1966: 80

*Parawinterschmidtia kneissli* (Krausse): Khaustov, 2000: 57; Khaustov et al., 2018: 49

Type locality: Germany

Distribution: Belgium, Germany; "Czechoslovakia", Poland, Crimea, Russia, Slovakia

Hosts: *Lithobius forficatus* (Chilopoda, Lithobiomorpha: Lithobiidae); *Raphidia* sp. (larva) (Raphidioptera: Raphidiidae); *Ips* [*Orthomicus*] *laricis*, *Brachyderes incanus* *Hylobius abietis*, *Pissodes pini*, *P. piniphilus* (Coleoptera: Curculionidae, Scolytinae), *Thanasimus formicarius* (Coleoptera: Cleridae); *Mesosa nebulosi*, *Rhagium sycophanta*, *R. inquisitor*, *Plagionotus detritus*, *Monochamus galloprovincialis*, *Spondylis buprestoides* (Col.: Cerambycidae), *Crypticus quisquilius* (Col.: Tenebrionidae), *Myzia oblongoguttata* (Col.: Coccinellidae), *Acanthocinus aedilis*, *Spondylis buprestoides*, *Sericus brunneus* (Elateridae)

*Tomicus piniperda*, *Hylastes attenuates*, *Crossocerus vagabundus*, *C. leucostoma*, *Ectemnius cavifrons*, *E. cephalotes* (Crabronidae), *Sceliphron deforme* (Sphecidae), *Astata kashmirensis* (Astatinae)

*Parawinterschmidtia* sp. – Finland (Penttinen, Viiri & Moser, 2013)

Genus **Riemia** Oudemans

*Riemia* Oudemans, 1925: 90

Type species: *Riemia hesperidum* Oudemans, 1925

***Riemia hesperidum*** Oudemans

*Riemia hesperidum* Oudemans, 1925: 90

Type locality: Arnhem

Distribution: Holland

Genus **Winterschmidtia** Oudemans

*Winterschmidtia* Oudemans, 1923: 207

*Afrocalvolia* Fain & Elsen, 1971: 281 [Type is *glossinarum*; Syn. Khaustov 2000: 50]

Type species of *Winterschmidtia* Oudemans: *Suidasia hamadryas* Vitzthum, 1923

***Winterschmidtia athiasae*** (Fain)

*Afrocalvolia athiasae* Fain, 1974: 70

Type locality: La Savane de Lamto

Distribution: Ivory Coast

***Winterschmidtia brenyi*** (Cooreman)

*Calvolia brenyi* Cooreman, 1963: 32

*Winterschmidtia brenyi* (Cooreman): Khaustov 2000: 53

Type locality: Gembloux, Prov. de Namur)

Distribution: Belgium, Crimea

Host: *Pteleobius vittatus* (Coleoptera: Curculionidae, Scolytinae)

***Winterschmidtia chaetoptelii*** Khaustov

*Winterschmidtia chaetoptelii* Khaustov, 2000: 55

Type locality: Crimea, Alushta

Distribution: Crimea

Host: Phoretic on *Chaetoptelius vestitus* (Coleoptera: Curculionidae)

***Winterschmidtia circumspectans*** (Vitzthum)

*Calvolia circumspectans* Vitzthum, 1920: 56; Zachvatkin, 1941: 258; Hughes, 1962: 61

*Afrocalvolia circumspectans* (Vitzthum): Fain, 1974: 70

Type locality: Himalaya, Nilam-Dshong, NW Abhang .des Gaurisankar

Distribution: Tibet

Host: *Ips stebbingi* (Coleoptera: Curculionidae, Scolytinae)

***Winterschmidtia crassisetosa*** Willmann

*Winterschmidtia crassisetosa* Willmann, 1941: 65



Type locality: Italy

Distribution: Italy

Host: *Phloeotribus scarabaeoides* (Coleoptera: Curculionidae, Scolytinae)

***Winterschmidtia elongata*** Türk et Türk

*Winterschmidtia elongata* Türk & Türk, 1957: 154

Type locality: Erlangen

Distribution: Germany

***Winterschmidtia glossinarum*** (Fain et Elsen)

*Afrocalvolia glossinarum* Fain & Elsen, in Fain 1971: 281; Fain & Elsen, 1972: 74

*Winterschmidtia glossinarum* (Fain et Elsen): [Khaustov, 2000]

Type locality: Benzali nr. Kinshasa

Distribution: DR Congo

Hosts: *Glossina fuscipes quanzensis*, *G. palpalis palpalis* (Diptera: Glossinidae)

***Winterschmidtia hamadryas*** (Vitzthum)

*Suidasia hamadryas* Vitzthum, 1923: 156

*Winterschmidtia hamadryas* (Vitzthum): Oudemans, 1923: 206; 1927: 246; Zachvatkin, 1941: 240; Khaustov, 2000: 51; Ahadyiat & Ostovan, 2005

Type locality: Germany

Distribution: Germany, Crimea, Iran

Host: burrows of *Scolytus rugulosus*; on *Scolytus amygdali* (Coleoptera: Curculionidae, Scolytinae)

***Winterschmidtia lamtoensis*** (Fain)

*Afrocalvolia lamtoensis* Fain, 1974: 72

Type locality: La Savane de Lamto

Distribution: Ivory Coast

***Winterschmidtia nataliae*** (Zachvatkin)

*Calvolia nataliae* Zachvatkin, 1941: 262; Cooreman, 1963: 28

*Calvolia elliptica* Zachvatkin, 1941: 262; Hughes, 1962: 61 – Type: Sviblovo near Moskow, Russia, on *Ips acuminatus* (Coleoptera: Curculionidae, Scolytinae) *Calvolia fraxini* Türk & Türk, 1957: 1957: 166; Hughes, 1962: 61 (syn. by Cooreman, 1963)

*Winterschmidtia nataliae* (Zachvatkin): Khaustov, 2000: 52

Type locality: Alekseevskoe Village near Moskow

Distribution: Belgium, Germany, Poland, Russia, Crimea

Hosts: *Leperesinus* [*Hylesinus*] *fraxini*, *L. omi* (Coleoptera: Curculionidae, Scolytinae)

***Winterschmidtia tsetse*** (Fain et Elsen)

*Afrocalvolia tsetse* Fain & Elsen, 1972: 75

Type locality: Kaniama, Lomami

Distribution: DR Congo

Hosts: *Glossina fuscipes quanzensis* (Diptera: Glossinidae)

***Winterschmidia villifronsi*** Khaustov

*Winterschmidia villifronsi* Khaustov, 2000: 56

Type locality: Crimea, Yaltinskiy Gornolesnoy reserve

Distribution: Crimea

Host: Phoretic on *Taphrorychus villifrons* (Coleoptera)

***Winterschmidia zachvatkini*** Khaustov

*Winterschmidia zachvatkini* Khaustov, 2000: 57

Type locality: Yalta

Distribution: Crimea

Host: Phoretic on *Pityogenes calcaratus* (Coleoptera: Curculionidae, Scolytinae)

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## Distribution of Winterschmidtiidae

### EUROPE

- Armenia** (Klompen & OConnor, 1995) - *Ensliniella parasitica*  
**Austria** (Fain, 1973; Fain & Rack, 1987; Klompen & OConnor, 1995; Moser et al., 2005)  
 - *Allocalvolia habrocytus*, *Crabrovidia ectemnii*, *Ensliniella kostylevi*  
**Azerbaijan** (Volgin, 1980) - *Calvolia priapus*  
**Belarus** (Vitzthum, 1925) - *Ensliniella kostylevi*  
**Belgium** (Cooreman, 1948, 1963; Fain, 1972, 1973; Fain, Hurst et al. 1997; Klompen & OConnor, 1995) - *Congovidia coccinellidarum*, *Crabrovidia concellaria*, *C. ectemnii*, *Ensliniella floricola*, *E. kostylevi*, *Winterschmidtia brenyi*, *W. nataliae*  
**Bulgaria** (Vitzthum, 1922; Štorkan, 1935; Angelkova, 1988; Klompen & OConnor, 1995)  
 - *Calvolia bulgarica*, *C. heterocoma*, *C. thraca*, *C. tuberculata*, *Ensliniella kostylevi*, *Procalvolia zacheri* (= *Calvolia romanovae*)  
**Croatia** (Fain, 1972, 1973; Klompen & OConnor, 1995; Ripka et al., 2002; ) - *Crabrovidia ectemnii*, *C. popovi*, *Czenspinksia transversostriata*, *Ensliniella floricola*  
**Finland** (Penttinen, Viiri & Moser, 2013; Linnakoski et al., 2016) - *Probonomoia pini*  
**France** (Fain, 1972, 1973; Klompen & OConnor, 1995) - *Crabrovidia concellaria*, *C. ectemnii*, *Ensliniella floricola*, *E. kostylevi*  
**Corsica** (Fain, 1973) - *Crabrovidia corsicana*  
**Georgia** (Zachvatkin, 1941) - *Calvolia elisabethae*, *C. tuberculata*  
**Germany** (Vitzthum, 1922, 1923, 1925; Türk & Türk, 1957) - *Calvolia calliforae*, *C. fraxini*, *C. minima*, *C. romanovae* (= *tarsoinfracta*), *Ensliniella parasitica*, *Procalvolia zacheri*, *Winterschmidtia hamadryas*, *W. nataliae*  
**Great Britain** (Fain & Johnston, 1974; Fain, Hurst et al., 1997; Fain & Greenwood, 1991)  
 - *Calvolia waldorfae*, *Congovidia coccinellidarum*, *Probonomoia pini*  
**Greece** (Klompen & OConnor, 1995) - *Ensliniella floricola*, *E. kostylevi*

- Crete** (Fain, 1973) - *Crabrovidia ectemnii*
- Corfu** (Fain, 1971) - *Crabrovidia oudemansi*, *Vidia lineata*
- Holland** (Oudemans, 1909, 1911, 1917, 1925, 1931; Klompen & OConnor, 1995) - *Acalvolia squamata*, *Calvolia hagensis*, *Czenspinksia transversostriata*, *Ensliniella kostylevi*, *E. parasitica*, *Myianoetus dionychus*, *M. simplex*, *Riemia hesperidum*, *Vidia lineata*
- Hungary** (Mahunka, 1970; Ripka et al, 2002) - *Sphexicozela connivens*, *Czenspinksia transversostriata*
- Italy** (Oudemans, 1905; Fain, 1973; Baker & Cunliffe, 1960) - *Calvolia hebeclinii*, *C. striata*, *Crabrovidia popovi*, *Czenspinksia transvertostriata*, *Ensliniella parasitica*, *Saproglyphus neglectus*, *Vidia lineata*, *V. undulata*
- Sicily** (Sicher, in Canestrini, 1899) - *Calvolia hebeclinii*
- Sardinia** - *Calvolia hebeclinii*
- Poland** (Fain, Hurst et al., 1997; Kiełczewski, Moser & Wiśniewski, 1983; Kiełczewski & Wiśniewski, 1971, 1980; Haitlinger, 1904; Michalski & Ratajczak, 1989) - *Divilia exigua*, *Probonomoia pini*
- Russia** (Zachvatkin, 1941; Türk & Türk, 1957; Krivoluckiy, 1975; Bugrov, 1997; Klimov, 1998; Ermilov & Mokrousov, 2008, 2010; Khaustov et al., 2018) - *Calvolia elisabethae*, *C. goetzae*, *C. kamenskii*, *C. romanovae*, *C. thraca*, *Crabrovidia gussakovskii*, *Parawinterschidtia kneissli*, *Probonomoia pini*, *P. sibirica*, *Winterschmidtia nataliae*
- Crimea** (Zachvatkin, 1941; Khaustov, 2000) - *Crabrovidia gussakovskii*, *Parawinterschidtia kneissli*, *Winterschmidtia brenyi*, *W. chaetoptelii*, *W. villifronsi*, *W. zachvatkini*
- Kuril Islands** (Klimov, 1998) - *Crabrovidia gussakovskii* (*Iturup*)
- Slovakia** (Dusbabek, 1964; Kaluz & Žuffa, 1986; Sidor, 1986; Zamec, 2013, 2014) - *Calvolia astoma*, *C. fraxini*, *C. goetzae*, *C. heterocoma*, *C. kneissli*, *C. longipes*, *C. miniopteri*, *C. reticulata*, *C. tarsoinfracta*, *Ensliniella parasitica*
- Spain** (Fain, 1973, Klompen & OConnor, 1995) - *Crabrovidia ectemnii*, *C. popovi*, *Ensliniella parasitica*
- Switzerland** (Fain, 1973) - *Crabrovidia ectemnii*
- Turkey** (Fain, 1973; Klompen & OConnor, 1995) - *Crabrovidia popovi*, *Ensliniella dignotus*, *E. floricola*, *E. kostylevi*
- Ukraine** (Zachvatkin, 1941; Khaustov, 2000; Rusina & Orlova, 2011) - *Crabrovidia popovi*, *Ensliniella kostylevi*, *Sphexicozela connivens*, *Winterschmidtia hamadryas*, *W. natalyae*,

## AFRICA

- Algeria** (Klompen & OConnor, 1995) - *Ensliniella kostylevi*
- DR Congo** (Cooreman, 1942; Fain, 1971; Fain & Elsen, 1972, 1973; Fain & Beaucournu, 1976; Samšinák, 1989) - *Calvolia marie*, *Congovidia glossinae*, *Congovidiella hieroglypha*, *Psylloglyphus uilenbergi kivuensis*, *Winterschmidtia* (= *Afrocalvolia*) *glossinarum*, *Trypetacarus trypetidarum*
- Egypt** (Baker & Cunliffe, 1960; Sevastianov & Gad-Hamada-Hassa, 1989; Hassan & Sevastianov, 1989; Eraky, 1998; El-Kawas & Negm, 2018) - *Calvolia solimani*, *C. zaheri*, *Ensliniella aegyptiaca*, *Procalvolia hamadi*



- Gambia** (Mahunka, 1975) - *Gambacarus huettleri*  
**Ghana** (Mahunka, 1974) - *Allocalvolia bisculpturata*  
**Ivory Coast** (Fain, 1974) - *Winterschmidtia* (= *Afrocalvolia*) *athiasae*, *W. lamtoensis*  
**Madagascar** (Fain, 1966; Fain & Beaucournu, 1976) - *Psylloglyphus uilenbergi*  
**Kenya** (Fain & Schwan, 1976) - *Psylloglyphus uilenbergi kivuensis*  
**Morocco** (Fain, 1972, 1973; Baker & Cunliffe, 1960) - *Crabrovidia ectemnii*, *Ensliniella koenigi*  
**Mozambique** (Meyer & Rodrigues, 1965) - *Oulenzia bakeri* (syn. *Oulenzia gossypii*)  
**Rwanda** (Fain & Beaucournu, 1976) - *Psylloglyphus (Hemimerus) hemimerus*  
**South Africa** (Fain, 1973) - *Crabrovidia dasyproctus*

## ASIA

- China** (Chang et al., 2017, 2020) - Winterschmidtidae  
**Taiwan** (Fain, 1973) - *Crabrovidia dasyproctus*  
**Cyprus** (Fain, 1973) - *Crabrovidia ectemnii*, *C. leclercqi*  
**India** (Hughes, 1962; Fain, 1973) - *Crabrovidia dasyproctus*, *Calvolia bakeri*  
**Indonesia** (Oudemans, 1928; Hughes, 1962) - *Oulenzia arboricola*, *Calvolia bakeri*  
**Iran** (Ahadiyat & Ostovan, 2006; Faradonbeh et al., 2018; Nazari, Monfared, Nemati & Azhari, 2019) - *Calvolia priapus*, *Crabrovidia oudemansi*, *Vidia lineata*, *Winterschmidtia hamadryas*  
**Japan** (Fain, 1973; Okabe & OConnor, 2002; Abe & Okabe, 2006) - *Crabrovidia ectemnii* [*Okinawa*], *Ensliniella asiatica*, *Kurosaia jiju*  
**Kazakhstan** (Volgin, 1974) - *Neottiglyphus alatavicus*  
**Malaysia** (Fan et al., 2012) - *Oulenzia sp.*  
**Philippines** (Fain, 1973) - *Crabrovidia dasyproctus*  
**Singapour** (Fain, 1973) - *Crabrovidia dasyproctus*  
**Tadjikistan** (Klompfen & OConnor, 1995) - *Ensliniella parasitica*  
**Uzbekistan** (Zachvatkin, 1941) - *Crabrovidia popovi*, *Ensliniella parasitica*  
**Vietnam** (Fain & Beaucournu, 1972) - *Psylloglyphus vietnamensis*

## NORTH AMERICA

- Bermudas** (Fain & Schuster, 1983) - *Neocalvolia inermis*  
**Canada** (Nesbitt, 1946; Baker & Cunliffe, 1960; OConnor & Eickwort, 1988; Mullen, Leprince & OConnor, 1989) - *Crabrovidia latimanus*, *Vespacarus vagus*, *Vidia sp. A and B*, *Calvolia sp.*  
**Mexico** (Baker & Cunliffe, 1960; Mostafa, 1970b, 1971; Fain, 1972, 1973) - *Crabrovidia ectemnii*, *Monobiacarus funebris*, *M. insularis*, *Zethacarus boharti*, *Z. ellipsus*, *Z. miscogaster*, *Zethovidia floridae*  
**USA** (Baker & Cunliffe, 1960; Baker, 1964; Woodring, 1966; Mostafa, 1967; Delfinado & Baker, 1976; Fain & Philips, 1978; OConnor & Eickwort, 1988; Fan, George & Kumarasinghe, 2010) - *Acalvolia americana*, *Calvolia furnissi*, *Crabrovidia rubi*, *C.*



*texana*, *C. thomasi*, *C. utahensis*, *Monobiacarus quadridens*, *Sapracarus tuberculatus*,  
*Vesparacus anacardivorus*, *V. histrio*, *V. minimoferus*, *V. pedestris*, *V. tigris*, *V. toltecus*

## SOUTH AND CENTRAL AMERICA

**Argentina** (Mostafa, 1971; Fain, 1972, 1973) - *Crabrovidia ectemnii*, *Zethacarus andinus*,  
*Z. argentinae*, *Z. haywardi*, *Zethovidia parvula*

**Bolivia** (Fain, 1972, 1973) - *Crabrovidia ectemnii*

**Brazil** (Mostafa, 1970b; 1971; Fain, 1972, 1973; Fain & Camerik, 1978; Barbosa & de  
 Moraes, 2021) - *Acalvolia squamata*, *Calvolia summersi*, *Crabrovidia brasiliensis*,  
*C. crossocerus*, *C. ectemnii*, *Czenspinskiia transversostriata*, *Dichotomiopus biiaggioi*,  
*Macroharpa amazonica*, *M. arota*, *M. pachymapoda*, *M. palpognatha*, *Oulenzia ar-*  
*boricola*, *Oulenziella bakeri*, *O. longiseta*, *Zethacarus paranicus*, *Z. smithii*, *Zethovidia*  
*oculabsena*, *Z. brasiliensis*, *Z. diminuta*, *Z. promina*

**Chile** (Fain & Beaucournu, 1986, 1989) - *Psylloglyphus (Tetrapsyllopus) chiliensis*, *P. (T.)*  
*micronychus*

**Colombia** (Fain, 1972, 1973) - *Crabrovidia ectemnii*

**Costa Rica** (Fain, 1972, 1973) - *Crabrovidia ectemnii*

**Cuba** (Fain, 1973) - *Crabrovidia cubensis*

**El Salvador** (Mostafa, 1970a) - *Zethovidia salvadorensis*

**French Guiana** (Mostafa, 1970b) - *Zethovidia acaris*

**Guiana** (Fain, 1972, 1973) - *Crabrovidia ectemnii*

**Honduras** (Fain, 1972, 1973) - *Crabrovidia ectemnii*

**Jamaica** (Fain, 1973) - *Crabrovidia ectemnii*

**Panama** (Mostafa, 1970b) - *Zethovidia fusca*

**Paraguay** (Mostafa, 1970a) - *Zethovidia diminuta*, *Z. paraguayensis*

**Puerto Rico** (Fain, 1973) - *Crabrovidia ectemnii*

**Suriname** (Mostafa, 1970b) - *Zethovidia brevapodemis*

**Venezuela** (Mostafa, 1970b) - *Zethovidia reticulata*

## OCEANIA

**Australia** (Womersley, 1941; Fain, 1989; Fain, Bartholomaeus, Cooke & Beaucornu,  
 1990) - *Calvolia glabra*, *Czenspinskiia transversostriata*, *Psylloglyphus australiensis*,  
*P. foveolatus* [Tasmania, Victoria], *Saproglyphus cocciphagus*

**New Zealand** (Fain & Galloway, 1973a, 1973b) - *Psylloglyphus (Psylloglyphus) parapsyllus*

## ANTARCTICA

**South Georgia** (Hughes, 1970) - *Neocalvolia claggi*

**South Shetlands** (Rosas & Casanueva, 1993) - *Neocalvolia coperminensis*

**South Sandwich Islands** (Hughes, 1966) - *Calvolia antarctica*

## Hosts of Winterschmidtidae

### Insecta

#### Coleoptera

##### Fam. Scarabaeidae

*Aphodius minor* – *Calvolia goetzae*

*prodromus* - *Calvolia goetzae*

*Cetonia aurata* – *Vidia* sp.

##### Fam. Curculionidae

Subfam. Scolytinae

*Hylesinus fraxini* – *Winterschmidtia nataliae*

*Ips stebbingi* – *Winterschmidtia circumspectans*

*Leperisinus omi* – *Winterschmidtia nataliae*, *Calvolia fraxini*

*Orthomicus laricis* – *Parawinterschmidtia kneissli*

*Pityogenes calcaratus* - *Winterschmidtia zachvatkini*

*Pteleobius vittatus* – *Winterschmidtia brenyi*

*Scolytus amygdali* – *Winterschmidtia hamadryas*

*S. intricatus* – *Calvolia minima*

##### Fam. Coccinellidae

*Adalia bipunctata* - *Congovidia benelux*

*Calvia duodecimguttata* – *Divilia exigua*

*Chilocorus renipustulatus* – *Divilia occidentalis*

*Halyzia sedecimguttata* - *Congovidia coccinellidarum*

##### Fam. Cerambycidae

*Mesosa nebulosa* - *Parawinterschmidtia kneissli*

### Dermaptera

##### Fam. Labiduridae

*Chelidura acanthopygia* – *Calvolia longipes*

*Labidura riparia* - *Procalvolia hamadi*

### Hymenoptera

##### Fam. Megachilidae

*Megachile pilicrus* - *Vidia lineata*

*Megachile (Litomegachile) texana* – *Crabrovidia texana*

*Megachile (Sayapis) fidelis* - *Crabrovidia hirsuta*

*Megachile (Xeromegachile) rubi* – *Crabrovidia rubi*

##### Fam. Crabronidae

*Crabro solenius* - *Crabrovidia gussakovskii*

*Cerceris arenaria* – *Crabrovidia concellaria*

*C. rubida* – *Crabrovidia leclercqi*

*Cerceris* sp. - *Crabrovidia oudemansi*

- Crossocerus elongatus* – *Crabrovidia corsicana*  
*C. porexus* – *Crabrovidia crossocerus*  
*Dasyproctus agilis orientalis* – *Crabrovidia dasyproctus*  
*D. bipunctatus lugubris* – *Crabrovidia dasyproctus*  
*D. buddha* – *Crabrovidia dasyproctus*  
*D. cevirus* – *Crabrovidia dasyproctus*  
*D. westermanni* – *Crabrovidia dasyproctus*  
*Ectemnius carinatus* – *Crabrovidia ectemnii*  
*E. cavifrons* – *Crabrovidia ectemnii*  
*E. centralis* – *Crabrovidia ectemnii*  
*E. continuus* [= *Crabro vagus* auct.] – *Crabrovidia ectemnii*, *C. gussakovskii*  
*E. craesus* – *Crabrovidia ectemnii*  
*E. cubiceps* – *Crabrovidia brasiliensis*  
*E. [Crabro] fossorius* – *Crabrovidia gussakovskii*  
*E. guttatus* – *Crabrovidia ectemnii*  
*E. hypsae* – *Crabrovidia ectemnii*  
*E. impressus* – *Crabrovidia ectemnii*, *C. gussakovskii*, *C. popovi*  
*E. laevigatus* – *Crabrovidia ectemnii*  
*E. lapidaries* – *Crabrovidia ectemnii*  
*E. schettereri* – *Crabrovidia ectemnii*  
*E. semipunctatus* – *Crabrovidia ectemnii*  
*E. singularis* – *Crabrovidia ectemnii*  
*E. sonorensis* – *Crabrovidia ectemnii*  
*E. sexcinctus* – *Crabrovidia ectemnii*  
*Lestica alata* – *Crabrovidia popovi*  
*L. clypeata* – *Crabrovidia popovi*  
*L. cubensis* – *Crabrovidia cubensis*  
*L. wollmanni* – *Crabrovidia popovi*  
*Sphex hemorrhoidalis* – *Crabrovidia africana*

**Fam. Pteromalidae**

- Habrocytus elevatus* – *Allocalvolia habrocytus*

**Fam. Colletidae**

- Hylaea (Prosopis) conformis* – *Vidia undulata*

**Fam. Vespidae**

Subfam. **Eumeninae**

- Allodynerus floricola* – *Ensliniella floricola*  
*A. delphinalis* – *Ensliniella parasitica*  
*A. mandschuricus* – *Ensliniella asiatica*

Subfam. **Zethinae**

- Zethus andinus* – *Zethacarus andinus*  
*Z. carbonarius* – *Zethovidia acaris*

*Z. coeruleopennis* – *Z. brazilensis*  
*Z. d. diminutus* – *Z. diminuta*  
*Z. diminutus santaremae* – *Z. diminuta*  
*Z. haywardi* – *Zethacarus argentinae*  
*Z. guerreroi arizonensis* – *Zethovidia arizonensis*  
*Z. guerreroi mayorum* – *Zethacarus boharti*  
*Z. orizabae* – *Z. ellipticus*  
*Z. miscogaster* – *Z. miscogaster*  
*Z. smithii* – *Z. paranicus*  
*Z. arotus* – *Macroharpa arota*  
*Z. biglumis ferrugineus* – *Macroharpa amazonica*  
*Z. lobulatus* – *Macroharpa pachymapoda*  
*Z. orizabae* – *Zethacarus ellipsus*  
*Z. roridus* – *Macroharpa palpognatha*

**Subfam. Polystinae**

*Polystes dominula* - *Sphexicozela connivens*  
*P. gallica* - *Sphexicozela connivens*  
*P. nimpha* - *Sphexicozela connivens*

**Fam. Eulophidae**

*Melittobia acasta* – *Ensliniella parasitica*

**Diptera**

**Fam. Trypetidae**

*Celidodacus fenestratus* - *Trypetacarus trypetidarum*

**Fam. Glossinidae**

*Glossina fuscipes quanzensis* - *Winterschmidtia glossinarum*, *W. tsetse*, *Congo-vidia glossinae*

*Glossina palpalis palpalis* - *Winterschmidtia glossinarum*

**Fam. Sphaeroceridae**

*Gymnometopina magna* - *Calvolia marie*

**Fam. Tabanidae**

*Hybomitra epistates* – *Vidia* sp. A, *Calvolia* sp.

*H. affinis* – *Calvolia* sp.

*H. lasiophthalmus* - *Calvolia* sp.

*H. microcephala* - *Vidia* sp. A

*H. nuda* - *Calvolia* sp.

*Tabanus atratus* - *Calvolia* sp.

*T. quinquevittatus* - *Vidia* sp. B

**Siphonaptera** (phoretic acari on parasites)

*Notiopsylla kerguelenensis* – *Notiopsyllopus segermanae*, *Psylloglyphus crenulatus*

*Synopsyllus fonquerniei* – *Psylloglyphus u. uilenbergi*

*Paractenopsyllus petiti* - *Psylloglyphus u. uilenbergi*  
*Medwayella robinsoni* - *Psylloglyphus maculatus*  
*Stivalius aporus rectodigitus* - *Psylloglyphus vietnamensis*  
*Pygiopsylla hoplia* - *Psylloglyphus foveolatus*

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## Acknowledgements

This volume required the support of many distinguished specialists, to mention only a few: A.Fain, J.Cooreman, R.Haitlinger, S.Mahunka, N.J.Fashing, K.Samšíňák, A.A.Khaustov, U. Gerson, B.M.OConnor, P.B.Klimov, J.de la Cruz, and others. To all of them the author is immensely grateful.



# ACARORUM CATALOGUS

## IX

The ninth volume of this series "Acarorum Catalogus" is devoted to the Superfamilia Shizoglyphoidea (Schizoglyphidae). Histiostomatoidea (Histiostomatidae, Guanolichidae). Canestrinioidea (Canestriniidae, Chetochelacaridae, Lophonotacaridae, Heteroptidae). Hemisarcoptoidea (Chaetodactylidae, Hyadesiidae, Algophagidae, Hemisarcoptidae, Carpoglyphidae, Winterschmidtidae). About 1268 species of 225 genera are listed therein, with synonymies and citations in various papers. The book also contains a list of by-country distributions, type localities, hosts of the parasitic species and lists of authors who published on any known species of these families. The last Xth volume of the same series is under way.

