

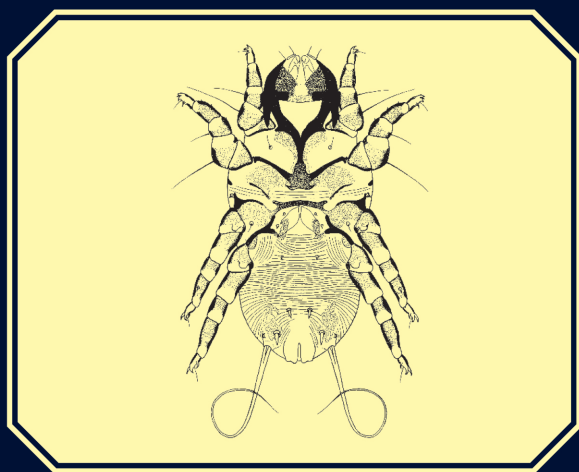
ACARORUM CATALOGUS

— X —

TROMBIDIFORMES

Prostigmata

Petar Beron



ACARORUM CATALOGUS

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ACARORUM CATALOGUS

X

Trombidiformes

Prostigmata

Superfamilia Labidostommatoidea (Labidostommatidae)

Superfamilia Eupodoidea

**(Eupodidae, Dendrochaetidae, Rhagidiidae,
Eriorhynchidae, Pentapalpidae, Penthalodidae,
Penthaleidae, Proterorhagiidae, Strandtmanniidae)**

Superfamilia Tydeoidea

Ereynetidae

Superfamily Paratydeoidea

Paratydeidae

Superfamilia Anystoidea

**(Anystidae, Erythracaridae, Teneriffiidae,
Pseudocheylidae, Stigmocheylidae)**

Superfamilia Caeculoidea (Caeculidae)

Superfamilia Adamystoidea (Adamystidae)

Superfamilia Pomerantzioidea (Pomerantziidae)

Petar Beron

Pensoft

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

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ACARORUM CATALOGUS X

Acariformes

Acaridida

Superfamilia Labidostommatoidea

Superfamilia Eupodoidea

Superfamilia Tydeoidea

Superfamily Paratydeoidea

Superfamilia Anystoidea

Superfamilia Caeculoidea

Superfamilia Adamystoidea

Superfamilia Pomerantzioidea

Petar Beron

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Introduction

This is the last volume of the series *Acarorum Catalogus*. We tried to follow the system generally accepted. After the publication of the first volume of the series (*Erytraeioidea*, *Calyptostomatoidea*) in 2008 appeared a comprehensive treatment of mites (Manuel of *Acarology* III of Krantz & Walter, Eds. 2009), in which many changes in the system of *Acari* are proposed. *Acariformes* are already a superorder, *Prostigmata* – suborder, but within the order *Trombidiformes*.

Here is treated first the infraorder *Labidostommatina* with its only superfamily *Labidostommatodea* and the only family *Labidostommatidae* with five genera and 75 species. The other infraorder, treated in the present volume (*Eupodoidea*) includes the superfamily *Eupodoidea* with nine families, including five described after 1979. Treated are also the superfamilies *Tydeioidea* (fam. *Ereynetidae*), *Paratydeioidea* (*Paratydeidae*), *Anystoidea* (five families), *Caeculoidea* (*Caeculidae*), *Adamystoidea* (*Adamystidae*), and *Pomerantzioida* (*Pomerantziidae*). In this volume are analysed 230 genera and 967 species of mites.

Labidostommatidae – 75 sp. (+4 fossils)

Eupodidae and *Cocceupodidae* – 95 sp.

Dendrochaetidae – 1 sp.

Rhagidiidae – 150 sp.

Eriorhynchidae – 5 sp.

Pentapalpidae – 1 sp.

Penthalodidae – 44 sp.

Penthaleidae – 27 sp.

Proterorhagiidae – 1 sp.

Strandtmanniidae – 1 sp.

Ereynetidae – 180 sp.

Paratydeidae – 13 sp.

Anystidae – 102 sp.

Erythracaridae – 68 sp.

Teneriffiidae – 28 sp.

Pseudocheylidae – 23 sp.

Stigmocheylidae – 5 sp.

Caeculidae – 114 sp.

Adamystidae – 28 sp.

Pomerantziidae – 6 sp.

This last volume of the series *Acarorum Catalogus* ends with an update of the former nine volumes. Added to these volumes are another genera and species.

Order Trombidiformes

The recent survey of order Trombidiformes (Zhang, Ed., 2011) defined suborder Prostigmata as containing four infraorders and 40 superfamilies. This volume concerns 20 families of prostigmatid mites, mostly soil and plant inhabitants. Some (Speleognathinae, *Riccardoella*) are parasites of vertebrates and snails.

Infraorder Labidostommata

The Mite Superfamily Labidostommatoidea

Labidostommatoidea Ewing, 1934: 64
Phalanx Stomatostigmata Oudemans, 1906

The superfamily contains only one family (Labidostommatidae) with five genera and 75 species.

The Mite Family Labidostommatidae Oudemans

Nicoletiellidae G. Canestrini, 1891
Labidostomidae Oudemans, 1904
Labidostommatidae Oudemans, 1906

Strongly hitinized free living mites (600 – 1500 µm long), usually yellow and with one large lense-formed organ behind the side eyes. About 75 species, living in moss, leaf litter and other organic materials. Feed on small insects and mites.

The names of the main genus have varied since their description and are used differently even at present by various authors: *Labidostoma*, *Labidostomma*, *Nicoletiella* (as genus or subgenus of *Labidostomma*), Nicoletiellidae, Labidostomidae, Labidostommatidae.

The first species has been described very early (*Acarus denticulatus* Schrank, 1776), but the base of the taxonomy of the family was laid with the descriptions of *Labidostomma* Kramer, 1879 and *Nicoletiella* Canestrini, 1882, than several other authors contributes with more new species and discussions: Stoll, Berlese, Lombardini, Coineau, Ewing, Feider, Greenberg, Meyer & Ryke, Oudemans, Grandjean, Robaux, Sellnick, Shiba, Štorkán, Willmann, Womersley, Iavorschi, and others. Some authors should be mentioned specially. Atyeo & Crossley (1961) described six new species from New Zealand. Revision of the family and several new descriptions are due to the Romanian authors Feider & Vasiliu, including generic/subgeneric taxa (*Grandjeanellina*, *Atyeonella*, *Sellnickiella*, *Dicastrilla*, *Cornutella*, *Mahunkiella*).

The modern treatment of the family has been started by M. Bertrand since 1980 and so far he published (partly with co-authors) 24 new species and the subgenera *Pseudocornutella* and *Pselistoma*.

Composition of fam. Labidostommatidae

Fam. **Labidostommatidae** - 4 gen., 75 recent sp.

Akrostromma Robaux, 1977 - 6 sp.

Eunicolina Berlese, 1911 - 4 sp. (plus one fossil)

Labidostomma Kramer, 1879 - 44 sp

Atyeonella Feider et Vasiliu, 1969 - 8 sp.

Labidostomma Kramer, 1879 - 16 sp.

Nicoletiella Canestrini, 1882 - 17 sp. (plus one fossil)

Cornutella Feider et Vasiliu, 1969 - 2 sp.

Pselistoma Bertrand, 1990 - 1 sp.

Pseudocornutella Sidorchuk et Bertrand, 2013 - 1 sp. (fossil)

Sellnickiella Feider et Vasiliu, 1969 - 20 sp. (plus one fossil)

Dicastricola Feider et Vasiliu, 1970 - 7 sp.

Sellnickiella Feider et Vasiliu, 1969 - 13 sp.

Catalogue of Labidostommatidae

Family **Labidostommatidae** Oudemans

Nicoletiellidae G.Canestrini, 1891: (Type genus: *Nicoletiella* Canestrini, 1882)

Labidostomidae Oudemans, 1904; Bertrand, 1990a: 31

Labidostommatidae Oudemans, 1906

Sellnickiellinae Feider & Vasiliu, 1969: 206

Nicoletiellinae Can.: Feider & Vasiliu, 1969: 204

Eunicolinae Feider & Vasiliu, 1969: 204

Type genus: *Labidostomma* Kramer, 1879

Genus ***Akrostromma*** Robaux

Akrostromma Robaux, 1977: 453

Type species: *Akrostromma grandjeani* Robaux, 1977

Akrostromma coineau Bertrand

Akrostromma coineau Bertrand, 1983: 160

Type locality: Isla de Ons (Provincia Pontevedra)

Distribution: Spain

Akrostromma coralloides Bertrand et Coineau*Akrostromma coralloides* Bertrand & Coineau, 1979: 101

Type locality: Banyuls (valley of Baillaurie, Pouade Road)

Distribution: France

Akrostromma gabriella Crossley et Simmons*Akrostromma gabriella* Crossley & Simmons: 2015: 459Type locality: California, Los Angeles County, San Gabriel Mts., Glendale Ridge Road,
San Dimas Experimental Forest

Distribution: USA (California)

Akrostromma grandjeani Robaux*Akrostromma grandjeani* Robaux, 1977: 453

Type locality: H. Cowell Redwoods State Park (Sta. Cruz Co.), California

Distribution: USA (California)

Akrostromma plumosum (Greenberg)*Labidostomma plumosum* Greenberg, 1952: 201*Labidostoma (Labidostoma) plumosum* Greenberg; Bertrand, 1990a: 36*Akrostromma plumosum* (Greenberg): Crossley & Simmons, 2015: 459

Type locality: Gale's Canyon, Winters, California

Distribution: USA (California)

Akrostromma zangherii Lombardini*Labidostomma zangherii* Lombardini, 1943: 21*Akrostromma zangherii* (Lombardini)(?): Bertrand, 1990a: 35

Type locality: Italy

Distribution: Italy

Genus ***Eunicolina*** Berlese*Eunicolina* Berlese, 1911: 430Type species: *Eunicolina tuberculata* Berlese, 1911. Redescription, Vistorin 1980: 376*Grandjeanellina* Feider & Vasiliu, 1969: 206 - Type species: *Eunicolina nova* Sellnick, 1931;
syn. by Bertrand, 1990a: 35***Eunicolina glaesi*** Bertrand, Sidorchuk et Hoffeins (fossil)*Eunicolina glaesi* Bertrand, Sidorchuk & Hoffeins, 2015: 323

Type locality: Baltic amber

Distribution: Baltic amber (Eocene)

Eunicolina nova Sellnick*Eunicolina nova* Sellnick, 1931: 772; Willmann, 1941: 51; Beron, 1995: 5

Grandjeanellina nova (Sellnick): Feider & Vasiliu, 1969: 206

Type locality: Korfu (Greece)

Distribution: Bulgaria, Croatia, Greece, Romania

***Eunicolina porifera* Greenberg**

Eunicolina porifera Greenberg, 1932: 201; Feider & Vasiliu, 1969: 206; Bertrand, 1990a: 35

Type locality: Cape Henry, Virginia

Distribution: USA

***Eunicolina travei* Coineau**

Eunicolina travei Coineau, 1964: 153; Feider & Vasiliu, 1969: 206; Bertrand, 1990a: 35

Type locality: Saint-Paul d'Eygeaux (Haute-Vienne), France

Distribution: France

***Eunicolina tuberculata* Berlese**

Eunicolina tuberculata Berlese, 1911: 430; Feider & Vasiliu, 1969: 206; Vistorin, 1978a: 279; Bertrand, 1990a: 35

Type locality: "in agro Tridentino", Tiarno (Italy)

Distribution: Croatia, Italy

Genus ***Labidostomma* Kramer**

Labidostomma Kramer, 1879: 13

Labidostoma Michael, 1880:

Labidostoma Bertrand, 1990a: 36

Panoplia von Heyden, 1826

Type species: *Acarus denticulatus* Schrank, 1776

Ceratoacarus Ewing, 1913: 128

Type species: *Ceratoacarus pacificus* Ewing, 1913

Subgenus ***Atyeonella* Feider et Vasiliu**

Atyeonella Feider & Vasiliu, 1969: 205 (genus)

Labidostoma (*Atyeonella*): Bertrand, 1990a: 36 (subgenus)

Type species: *Labidostoma fictiluteum* Atyeo et Crossley, 1961

***Labidostomma* (*Atyeonella*) *fictiluteum* Atyeo et Crossley**

Labidostoma fictiluteum Atyeo & Crossley, 1961b: 40

Atyeonella fictiluteum (Atyeo et Crossley): Feider & Vasiliu, 1969: 206

Labidostoma (*Atyeonella*) *fictiluteum* Atyeo & Crossley: Bertrand, 1990a: 36

Type locality: Ngongotaha, Rotorua, Auckland

Distribution: New Zealand

Labidostomma (Ateyonella) glandula Atyeo et Crossley*Labidostoma glandula* Atyeo & Crossley, 1961b: 44*Ateyonella fictiluteum* (Atyeo et Crossley): Feider & Vasiliu, 1969: 206*Labidostoma (Ateyonella) glandula* Atyeo et Crossley: Bertrand, 1990a: 36

Type locality: Ngongotaha, Rotorua, Auckland

Distribution: New Zealand

Labidostomma (Ateyonella) malleolus Atyeo et Crossley*Labidostoma malleolus* Atyeo & Crossley, 1961b: 37*Ateyonella malleolus* (Atyeo et Crossley): Feider & Vasiliu, 1969: 206*Labidostoma (Ateyonella) malleolus* Atyeo et Crossley: Bertrand, 1990a: 36

Type locality: Kapiti Island, Wellington

Distribution: New Zealand

Labidostomma (Ateyonella) multifarium Atyeo et Crossley*Labidostoma multifarium* Atyeo & Crossley, 1961b: 33*Ateyonella multifarium* (Atyeo et Crossley): Feider & Vasiliu, 1969: 206*Labidostoma (Ateyonella) multifarium* (Atyeo et Crossley): Bertrand, 1990a: 36

Type locality: Orepuke, Southland

Distribution: New Zealand

Labidostomma (Ateyonella) ocellatum Atyeo et Crossley*Labidostoma ocellatum* Atyeo & Crossley, 1961b: 42*Ateyonella ocellatum* (Atyeo et Crossley): Feider & Vasiliu, 1969: 206*Labidostoma (Ateyonella) ocellatum* Atyeo & Crossley: Bertrand, 1990a: 36

Type locality: Coromandel Peninsula, Auckland

Distribution: New Zealand

Labidostomma (Ateyonella) peruviana Bertrand*Labidostoma (Ateyonella) peruviana* Bertrand, 1990c: 182

Type locality: Sierra Garavito, Prov. de Cusco

Distribution: Peru

Labidostomma (Ateyonella) simplex (Shiba)*Ateyonella simplex* Shiba, 1972: 48*Labidostoma (Ateyonella) simplex* (Shiba): Bertrand, 1990a: 36

Type locality: Hokkaido, Poroshiri-sanso at the foot of Mt. Poroshiri Hadaka

Distribution: Japan (Hokkaido)

Labidostomma (Atyeonella) striatum Atyeo et Crossley

Labidostoma striatum Atyeo & Crossley, 1961b: 46

Atyeonella striatum (Atyeo et Crossley): Feider & Vasiliu, 1969: 206

Labidostoma (Atyeonella) striatum Atyeo et Crossley: Bertrand, 1990a: 36

Type locality: Takahe Valley, Te Anau, Otago

Distribution: New Zealand

Subgenus ***Labidostomma*** Kramer

Labidostomma Kramer, 1879: 13

Labidostoma Michael, 1888

Type species: *Acarus denticulatus* Schrank, 1776 (= *Labidostomma luteum* Kramer, 1879
- Redescription, Lehtinen & Niemi 1995: 217)

Labidostomma (Labidostomma) aethiopica Meyer et Ryke

Labidostoma (Labidostoma) aethiopica Meyer & Ryke, 1959: 417; Bertrand, 1990a: 36;
Bertrand & Theron, 1990: 248

Type locality: South Africa, Bathurst

Distribution: South Africa

Labidostomma (Labidostomma) amasonica Feider, Vasiliu et Calugar

Labidostomma amasonica Feider, Vasiliu & Calugar, 1974: 424

Labidostoma (Labidostoma) amasonica Feider, Vasiliu et Calugar: Bertrand, 1990a: 36

Type locality: Brazil [Amazonia]

Distribution: Brazil

Labidostomma (Labidostomma) angolensis Bertrand et Theron

Labidostoma (Labidostoma) angolensis Bertrand & Theron, 1990a: 248

Type locality: Luachine, Luangue, Tchitentga

Distribution: Angola

Labidostomma (Labidostomma) barbae Greenberg

Labidostomma barbae Greenberg, 1952: 198

Labidostoma (Labidostoma) barbae Greenberg: Bertand, 1990a: 36

Type locality: 3 mi southeast of Thomasville, Thomas County, Georgia

Distribution: USA (Georgia)

Labidostomma (Labidostomma) fissurata Bertrand et Theron

Labidostoma (Labidostoma) fissurata Bertrand & Theron, 1990a: 248

Type locality: Potchefstroom

Distribution: South Africa

Labidostomma (Labidostomma) guadalupense Bertrand et Corpuz-Raros*Labidostomma guadalupense* Bertrand & Corpuz-Raros, 1997: 363

Type locality: Leyte, Guadalupe

Distribution: Philippines

Labidostomma (Labidostomma) integrum Berlese*Labidostoma integrum* (Berlese): Berlese, 1911: 429; 1913: 138; Costa, 1961: 259*Labidostoma (Labidostoma) integrum* (Berlese): Bertrand, 1990a: 36; Bertrand et al., 2012: 235*Labidostomma integrum*: Thor, 1931: 73; Feider & Vasiliu, 1970: 371

Type locality: Umbria (Italy)

Distribution: France (incl. Corsica), Israel, Italy (incl. Sardinia), Kazakhstan, Romania, Spain

Labidostomma (Labidostomma) integrum Berlese*Labidostomma integrum*: Thor, 1931: 73; Feider & Vasiliu, 1970: 371; Bloszyk et al., 2003: 173.*Labidostomma (L.) caucasicum* Reck, 1940: 452; Feider & Vasiliu, 1969: 205 and Bloszyk et al., 2003: 173 consider this species as synonym of *L. integrum*

Type locality: D.R.Congo

Distribution: D.R.Congo

Labidostomma (Labidostomma) intermedia Bertrand, Bagheri, Akbari, Yazdanian, Irani-Nejad, Mohajer et Saboori*Labidostoma (Labidostoma) intermedia* Bertrand, Bagheri, Akbari, Yazdanian, Irani-Nejad, Mohajer et Saboori, 2012: 237; Jalaieian, Kamali & Bertrand, 2013: 16

Type locality: Golestan province, Gorgan

Distribution: Iran

Labidostomma (Labidostomma) mirax Bertrand et Theron*Labidostoma (Labidostoma) mirax* Bertrand & Theron, 1990a: 255

Type locality: Tsitsikama, Cape Province

Distribution: South Africa

Labidostomma (Labidostomma) motasi Iavorschi*Labidostomma motasi* Iavorschi, 1992: 47

Type locality: cave Peștera de la Movile, Dobroudja

Distribution: Romania

Labidostomma (Labidostomma) himalayensis Bhattacharyya*Labidostomma himalayensis* Bhattacharyya, 1966: 46

Type locality: Rohla Valley

Distribution: NW Himalaya (India)

***Labidostomma (Labidostomma) neotropica* Stoll**

Labidostoma (Labidostoma) neotropica Stoll, 1891: 9; 1993: 27; Bertrand, 1990a: 36

Type locality: Retalhuleu

Distribution: Guatemala

***Labidostomma (Labidostomma) nepalense* Feider et Vasiliu**

Labidostomma nepalense Feider & Vasiliu, 1968a: 630

Labidostoma (Labidostoma) nepalense Feider & Vasiliu: Bertrand, 1990a: 36

Type locality: Nepal, 27°19' N, 87°31'E

Distribution: Nepal

***Labidostomma (Labidostomma) percilliata* Bertrand et Theron**

Labidostoma (Labidostoma) percilliata Bertrand & Theron, 1990a: 248

Type locality: Luachine, Luangue, Tchitentga

Distribution: Angola

Subgenus ***Nicolettiella* Canestrini**

Nicolettiella Canestrini, 1882: 65

Type species: *Nicoletia cornuta* G. Canstrini et Fanzago, 1877

***Labidostomma (Nicolettiella) asiatica* (Feider et Vasiliu)**

Mahunkiella asiatica Feider & Vasiliu, 1972: 382

Labidostoma (Nicolettiella) asiatica Feider & Vasiliu: Bertrand, 1990a: 36

Type locality: Prov. South Phenan, Bong ha ri

Distribution: North Korea

***Labidostomma (Nicolettiella) caloderum* Greenberg**

Labidostomma caloderum Greenberg, 1952: 197

Labidostoma (Nicolettiella) caloderum Greenberg: Bertrand, 1990a: 36

Type locality: Univ. of Kansas Natural History Reservation, Douglas County, Kansas

Distribution: USA (Kansas)

***Labidostomma (Nicolettiella) coreana* (Feider et Vasiliu)**

Mahunkiella coreana Feider & Vasiliu, 1972: 380

Labidostoma (Nicolettiella) coreana (Feider et Vasiliu): Bertrand, 1990a: 36

Type locality: Prov. Kanwon, Kum-gang san

Distribution: N. Korea

***Labidostomma (Nicolettiella) corsicum* Bertrand**

Labidostoma (Nicolettiella) corsicum Bertrand, 1981: 36

Type locality: Corsica

Distribution: France (Corsica)

***Labidostomma (Nicoletiella) denticulatum* (Schrank)**

Acarus denticulatus Schrank, 1776: 125; 1781: 520

Labidostoma denticulatum: Oudemans, 1904: 132; 1916: 250; Kontschán, 2008: 361

Labidostoma (Nicoletiella) denticula [sic](Schrank): Bertrand, 1990a: 36

Labidostoma (Nicoletiella) denticulata (Schrank): Vistorin, 1978a: 279; Bertrand et al., 2015: 331

Nicoletiella denticulata (Schrank): Sellnick, 1940: 31; Willmann, 1951: 143; 1955: 217;

Franz, 1954: 363; Mihelčič, 1958b: 274

Nicoletiella (Cornutella) denticulata (Schrank): Bloszyk, 1980: 72

Nicoletiella lyra Willmann, 1932: 160; 1934: 50; 1939: 433; 1941: 47; 1955: 217; Dudich,

Kolosvary & Szalay, 1940: 53; Bloszyk et al., 2003: 172. Type loc.: Postoina (Slovenia).

Nicoletiella corcyraea Berlese, 1911 (Corfu)

Labidostomma (Nicoletiella) denticulatum (Schrank): Újváry & Kontschán, 2010; Pfliegler

& Bertrand, 2011: 178

Type locality: Austria

Distribution: Austria, Germany, Hungary, Island, Italy, Poland, Spain, Slovenia

***Labidostomma (Nicoletiella) fergusonii* (Robaux)**

Nicoletiella fergusonii Robaux, 1977: 443

Labidostoma (Nicoletiella) fergusonii (Robaux): Bertrand, 1990a: 36

Type locality: Mount Madona (Ridge Road)(Sta. Clara Co.), California

Distribution: USA (California)

***Labidostomma (Nicoletiella) franzi* Bertrand**

Labidostomma franzi Bertrand, 1983: 163

Labidostoma (Nicoletiella) franzi Bertrand: Bertrand, 1990a: 36

Type locality: Galicia, La Ramosa

Distribution: Spain

***Labidostomma (Nicoletiella) glymma* Grandjean**

Labidostomma glymma Grandjean, 1942: 119

Labidostoma (Nicoletiella) glymma Bertrand, 1990a: 36

Type locality: France

Distribution: France (cont. and Corsica),

***Labidostoma (Nicoletiella) luteoides* Bertrand**

Nicoletiella (Nicoletiella) luteoides Bertrand, 1990c: 181

Type locality: Osorno (40°34'S, 73°09'W)

Distribution: Chile

***Labidostomma (Nicoletiella) luteum* Kramer**

Labidostomma luteum Kramer, 1879: 13; Thor, 1931: 72; Cooreman, 1943: 2; 1959: 17; Franz, 1954: 363; Bottazzi, 1950; Schweizer & Bader, 1963: 247; Lehtinen & Niemi, 1995: 211

Labidostoma luteum Kramer: Mihelčič, 1958a: 40; 1958b: 273; Hallas, 1978: 31; Schmölzer, 1993: 58

Nicoletiella (Nicoletiella) luteum (Kramer): Vistorin, 1978: 272; Bloszyk et al., 2003: 171

Labidostoma (Nicoletiella) luteum Kramer: Bertrand, 1990a: 36

Labidostomma (Nicoletiella) luteum elongatum Grandjean, 1942: 189 (Périgueux, France).

Listed by Bertrand (1990: 37) as species.

Nicoletiella vej dovskyi Štorkán, 1938 – syn. by Lehtinen & Niemi, 1995

Type locality: Germany

Distribution: Austria, Belgium, Denmark, England, Finland, France, Germany, Holland, Ireland, Italy, Sicily, Poland, Spain, Sweden, Switzerland

***Labidostomma (Nicoletiella) multisetosa* Shiba**

Labidostoma multisetosa Shiba, 1969: 85

Labidostoma (Nicoletiella) multisetosa Shiba: Bertrand, 1990a: 36

Type locality: Shiga Heights IBP Area

Distribution: Japan

***Labidostomma (Nicoletiella) pacifica* (Ewing)**

Ceratoacarus pacificus Ewing, 1913: 127

Nicoletiella pacifica (Ewing): Thor, 1931: 76

Labidostoma (Nicoletiella) pacifica (Ewing): Bertrand, 1990a: 36

Type locality: Oregon

Distribution: USA

***Labidostomma (Nicoletiella) paleoluteum* Dunlop et Bertrand (fossil)**

Labidostoma (Nicoletiella) paleoluteum Dunlop & Bertrand, 2011: 193

Type locality: Baltic amber (loc. idet.), Palaeogene (Eocene)

Distribution: Baltic area

***Labidostomma (Nicoletiella) repetitor* Grandjean**

Labidostomma luteum repetitor Grandjean, 1942: 122

Labidostomma repetitor: Lehtinen & Niemi, 1995: 220

Labidostoma (Nicoletiella) repetitor Bertrand, 1990a: 36

Labidostoma Jacquemarti Coineau, 1964: 543 – Syn. by Lehtinen & Niemi, 1995 (Type: Banyuls-sur-Mer, France)

Labidostoma (Nicoletiella) jacquemarti Coineau: Bertrand, 1990a: 36

Type locality: France

Distribution: France

Labidostomma (Nicoletiella) romanica (Feider et Vasiliu)

Nicoletiella romanica Feider & Vasiliu, 1968: 31

Labidostoma (Nicoletiella) romanica (Feider & Vasiliu): Bertrand, 1990a: 36

Type locality: the regions of Jassy, Suceava, Ploiesti, Banat, 200 – 800 m

Distribution: Romania

Labidostomma (Nicoletiella) spelaeophila (Willmann)

Nicoletiella spelaeophila Willmann, 1940: 209; Feider & Vasiliu, 1969: 205 consider “*Nicoletiella speleofila* [sic]” and “*N. carpaticum*” to be synonymes of “*N. (C.) cornutum*”.

L. spelaeophila (Willmann, 1940) – Cooreman, 1951: 10

Type locality: «Carniolia, Höhle bei Radna»

Distribution: Romania, Slovenia

Labidostomma (Nicoletiella) vialeae Bertrand

Labidostomma vialeae Bertrand, 1981: 28

Labidostoma (Nicoletiella) vialeae Bertrand: Bertrand, 1990a: 36

Type locality: Galeria (Corsica)

Distribution: France (Corsica)

Labidostomma virescens (Targioni Tozzetti)

Caligonas virescens Targioni Tozzetti, 1886

Labidostomma virescens (Targioni Tozzetti)

Type locality: Italy

Distribution: Italy

Subgenus ***Cornutella*** Feider et Vasiliu

Nicoletiella (Cornutella) Feider & Vasiliu, 1969: 205

Type species: *Nicoletia cornutum* Canestrini et Fanzago, 1877

Mahunkiella Feider & Vasiliu, 1972: 375, synonymized by Bertrand et al., 2012: 242

Labidostomma (Cornutella) cornutum (Canestrini et Fanzago)

Nicoletia cornutum Canestrini & Fanzago, 1877: 120

Nicoletiella cornuta (Canestrini et Fanzago): R. Canestrini, 1882: 65; Vistorin, 1978a: 272

Labidostomma cornuta (Canestrini & Fanzago): Cooreman, 1954: 11; 1959: 16

Nicoletiella (Cornutella) cornuta (Canestrini et Fanzago): Feider & Vasiliu, 1970: 371

Labidostomma (Nicoletiella) cornuta (Canestrini et Fanzago): Beron, 1995: 5

Nicoletiella (Cornutella) cornutum (Canestrini et Fanzago): Pfliegler & Bertrand, 2011: 178

Type locality:

Distribution: Algeria, Austria, Bulgaria, Croatia, France, Hungary, Poland, Romania, Slovenia

Labidostomma (Cornutella) ezoensis (Shiba)

Nicoletiella (Cornutella) ezoensis Shiba, 1972: 46

Type locality: Hokkaido, Kita Cirque, Mt. Poroshiri, Hidaka

Distribution: Japan (Hokkaido)

Labidostomma (Cornutella) multisetosa Shiba

Labidostoma multisetosa Shiba, 1969: 86

Mahunkiella multisetosa (Shiba): Feider et Vasiliu, 1972: 377

Labidostomma (Cornutella) multisetosa: Bertrand et al., 2012: 234, 242

Type locality: Shiga Heights (Japan)

Distribution: Japan, North Korea

The species *Labidostoma corcyraeum* Berlese, 1911 from “Corcyra”(Corfu) and *Nicoletiella (Cornutella) absoloni* Willmann, 1932 () are listed by Feider & Vasiliu, 1969, but not in the revision of Bertrand, 1990.

Subgenus ***Pseudocornutella*** Sidorchuk et Bertrand

Pseudocornutella Sidorchuk & Bertrand, 2013: 31

Type species: *Labidostomma (Pseudocornutella) electri* Sidorchuk et Bertrand, 2013

Labidostomma (Pseudocornutella) electri Sidorchuk et Bertrand

Labidostoma (Pseudocornutella) electri Sidorchuk & Bertrand, 2013: 31 (fossil)

Type locality: Baltic Amber

Distribution: Baltic Amber

Subgenus ***Pselistoma*** Bertrand

Pselistoma Bertrand, 1990: 183

Type species: *Labidostomma (Pselistoma) legendrei* Bertrand, 1990

Labidostomma (Pselistoma) legendrei Bertrand

Labidostomma (Pselistoma) legendrei Bertrand, 1990c: 183

Type locality: Osorno region

Distribution: Chile

Genus ***Sellnickiella*** Feider et Vasiliu

Sellnickiella Feider & Vasiliu, 1969: 206

Type species: *Labidostoma brasiliense* Sellnick, 1922

Subgenus ***Dicastriella*** Feider et Vasiliu

Dicastriella Feider & Vasiliu, 1970a: 283 (genus)

Sellnickiella (*Dicastriella*): Bertrand, 1990a: 35 (subgenus)

Type species: *Dicastriella covarubiasi* Feider et Vasiliu, 1970

Sellnickiella* (*Dicastriella*) *caeca (Feider, Vasiliu et Calugar)

Dicastriella caeca Feider, Vasiliu & Calugar, 1974: 420

Sellnickiella (*Dicastriella*) *caeca* (Feider, Vasiliu et Calugar): Bertrand, 1990c: 35

Type locality: Misitumi (reg. Tarapaca)

Distribution: Chile

Sellnickiella* (*Dicastriella*) *coineau (Feider et Vasiliu)

Dicastriella coineau Feider & Vasiliu, 1970a: 303; Feider, Vasiliu & Calugar, 1974: 422

Sellnickiella (*Dicastriella*) *coineau* (Feider et Vasiliu): Bertrand, 1990c: 35

Type locality: Polpaico (Santiago)

Distribution: Chile

Sellnickiella* (*Dicastriella*) *covarubiasi (Feider et Vasiliu)

Dicastriella covarubiasi Feider & Vasiliu, 1970a: 297; Feider, Vasiliu & Calugar, 1974: 423

Sellnickiella (*Dicastriella*) *covarubiasi* (Feider et Vasiliu): Bertrand, 1990c: 35

Type locality: Limpache (Valparaiso)

Distribution: Chile

Sellnickiella* (*Dicastriella*) *fungifera (Feider et Vasiliu)

Dicastriella fungifera Feider & Vasiliu, 1970a: 306

Sellnickiella (*Dicastriella*) *fungifera* (Feider et Vasiliu): Bertrand, 1990c: 35

Type locality: Limache (Valparaiso)

Distribution: Chile

Sellnickiella* (*Dicastriella*) *fusiformis Bertrand

Labidostomma (*Dicastriella*) *fusiformis* Bertrand, 1990c: 179

Type locality: Osorno (40°34'S, 73°09'W)

Distribution: Chile

Sellnickiella* (*Dicastriella*) *mediohexagonata (Feider, Vasiliu et Calugar)

Dicastriella mediohexagonata Feider, Vasiliu & Calugar, 1974: 419

Sellnickiella (*Dicastriella*) *mediohexagonata* (Feider, Vasiliu et Calugar): Bertrand, 1990c: 35

Type locality: Farellones (Prov. Santiago)

Distribution: Chile

Subgenus ***Sellnickiella*** Feider et Vasiliu

Sellnickiella Feider & Vasiliu, 1969: 206

Type species: *Labidostoma brasiliense* Sellnick, 1922

Sellnickiella (Sellnickiella) adelaideae (Womersley)

Labidostomma adelaideae Womersley, 1935: 152; Atyeo & Crossley, 1961b: 83

Sellnickiella (Sellnickiella) adelaidae (Womersley): Bertrand, 1990a: 35

Sellnickiella adelaideae (Womersley): Halliday, 1998: 66

Type locality: Adelaide

Distribution: Australia

Sellnickiella (Sellnickiella) brasiliense (Sellnick)

Labidostoma brasiliense Sellnick, 1922: 45

Sellnickiella brasiliense (Sellnick): Feider & Vasiliu, 1969: 206; 1970: 289

Sellnickiella (Sellnickiella) brasiliensis (Sellnick): Bertrand, 1990a: 35

Type locality: Passa Quatro, Sul de Minas

Distribution: Brazil

Sellnickiella (Sellnickiella) capensis Bertrand et Theron

Sellnickiella (Sellnickiella) capensis Bertrand & Theron, 1992: 46

Type locality: Hawaquis Montains nr. Paarl, Cape Province

Distribution: South Africa

Sellnickiella (Sellnickiella) circinus (Atyeo et Crossley)

Labidostoma circinus Atyeo & Crossley, 1961b: 35

Sellnickiella (Sellnickiella) circinus (Atyeo et Crossley): Bertrand, 1990a: 36

Type locality: Ngongotaha, Rotorua, Auckland

Distribution: New Zealand

Sellnickiella (Sellnickiella) decemlabeculata Feider et Vasiliu

Sellnickiella decemlabeculata Feider & Vasiliu, 1970: 297; Feider, Vasiliu & Calugar, 1974: 418

Sellnickiella (Sellnickiella) decemlabeculata: Bertrand, 1990c: 35

Type locality: Brazil, Nova Teutonia

Distribution: Brazil, Chile

Sellnickiella (Sellnickiella) hoegi (Thor)

Labidostoma höegi Thor, 1931a: 57

Labidostomma höegi Thor, 1931b: 73; Meyer & Ryke, 1959: 419

Sellnickiella (Sellnickiella) hoegi (Thor): Bertrand, 1990a: 35

Type locality: Port Elizabeth

Distribution: South Africa

Sellnickiella (Sellnickiella) macroscopa Bertrand*Sellnickiella (Sellnickiella) macroscopa* Bertrand, 1990c: 179

Type locality: Cantin (39°22' S, 72°38'W)

Distribution: Chile

Sellnickiella (Sellnickiella) mediumreticulata Feider et Vasiliu*Sellnickiella mediumreticulata* Feider & Vasiliu, 1970a: 289; Feider, Vasiliu & Calugar, 1974: 417

Type locality: Nova Teutonia

Distribution: Brazil

Sellnickiella (Sellnickiella) natalensis Bertrand et Theron*Sellnickiella (Sellnickiella) natalensis* Bertrand & Theron, 1992: 48

Type locality: St. Lucia (Natal)

Distribution: South Africa

Sellnickiella (Sellnickiella) pulchra Bertrand*Sellnickiella (Sellnickiella) pulchra* Bertrand, 1990c: 178

Type locality: Floresta de Tijuca, reg. of Rio de Janeiro

Distribution: Brazil

Sellnickiella (Sellnickiella) schusteri Feider, Vasiliu et Calugar*Sellnickiella schusteri* Feider, Vasiliu & Calugar, 1974: 414*Sellnickiella (Sellnickiella) schusteri* Feider, Vasiliu et Calugar: Bertrand, 1990a: 35

Type locality: Serra de Cantareira (Sao Paulo)

Distribution: Brazil

Sellnickiella (Sellnickiella) womersleyi (Atyeo et Crossley)*Labidostomma womersleyi* Atyeo & Crossley, 1961a: 84

Type locality: Remarkable Creek, Wilmington, South Australia

Distribution: Australia

Sellnickiella (Subgen.?) ***balticae*** Sidorchuk et Bertrand (fossil)*Sellnickiella balticae* Sidorchuk & Bertrand, 2013: 27

Type locality: Baltic Amber

Distribution: Baltic Amber

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Distribution of Labidostommatidae

EUROPE

Austria (Schränk, 1781; Willmann, 1939, 1951; Franz, 1954; Vistorin, 1978; Schmölzer, 1993) – *Labidostomma cornuta*, *L. denticulatum*, *L. luteum*, *L. lyra*

Bulgaria (Beron, 1995) – *Eunicolina nova*, *Labidostomma* (*Cornutella*) *cornutum*

Croatia (Willmann, 1940, 1941; Vistorin, 1978a) – *Eunicolina tuberculata*, *Labidostomma* (*Cornutella*) *cornutum*

Czech Rep. (Willmann, 1939)

Denmark (Luxton, 1966, 1981; Hallas, 1978) – *Labidostomma luteum*

Finland (Lehtinen & Niemi, 1995) – *Labidostomma* (*L.*) *luteum*

France (contin.) (Cooreman, 1954, 1959; Coineau, 1964a, 1964b; Bertrand, 1980; Bertrand & Coineau, 1979) – *Akrostomma coralloides*, *Labidostomma* (*Cornutella*) *cornutum*, *Labidostomma* (*Nicoletiella*) *repetitor* (= *L. (Nicoletiella) jacquemarti*), *L. (N.) luteum*, *Labidostomma* (*L.*) *integrum*

Corsica (Bertrand, 1981; Bertrand et al., 2012) – *Labidostomma* (*Nicoletiella*) *corsicum*, *L. (N.) glymma*, *L. (N.) vialeae*, *Labidostomma* (*L.*) *integrum*

Georgia (Reck, 1940) – *Labidostomma caucasicum* (= *L. integrum*)

Germany (C.L.Koch, 1838; Oudemans, 1916; Willmann, 1955; Vistorin, 1978a) – *Labidostomma denticulatum*, *L. luteum*, *L. lyra*

Great Britain (Michael, 1880) – *Labidostomma luteum*

Corfu (Berlese, 1911; Sellnick, 1931) – “*Labidostoma corcyraeum*” (= *L. denticulatum*), *Eunicolina nova*

Hungary (Willmann, 1937; Dudich, Kolosváry & Szalay, 1940; Újváry & Kontschán, 2010; Pfliegler & Bertrand, 2011) – *Labidostomma denticulata*, *L. lyra*, *L. (Cornutella) cornutum*

Iceland (Sellnick, 1940) – *Labidostomma denticulata* (actually *L. luteum*, see Lehtinen & Niemi, 1995)

Ireland (Halbert, 1915) – *Nicoletiella cornuta* (actually *L. luteum*, see Lehtinen & Niemi, 1995)

Italy (contin.) (Berlese, 1887; 1911; Lombardini, 1943; Bottazzi, 1956; Vistorin, 1978a) – *Akrostomma zangherii* (sp. dubia), *Eunicolina tuberculata*, *Labidostomma denticulatum*, *L. integrum*, *L. luteum*

Sicily (Berlese, 1883; Bottazzi, 1956) – *Labidostomma luteum*

Sardinia (Bertrand et al., 2012) – *Labidostomma repetitor*, *L. (L.) integrum*

- Poland** (Błoszyk, 1980; Błoszyk & Czarnota, 1998; Błoszyk, Konwerski, Napierala, Goldyn & Gawronska, 2007; Błoszyk et al., 2017; Błoszyk, Adamski & Napierała, 2018) – *Labidostomma* (*Nicoletiella*) *denticulatum*, *L. (N.) luteum*, *L. (Cornutella)* *cornutum*
- Romania** (Cooreman, 1951; Feider & Vasiliu, 1968, 1970; Iavorschi, 1992; Kontschán, 2008) – *Labidostomma* *motasi*, *L. (Cornutella)* *cornutum*, *L. (L.) integrum* (= *L. caucasicum*), *L. (Nicoletiella)* *denticulata*, *L. (Nicoletiella)* *romanica*, *Eunicolina* [*Grandjeanellina*] *nova*
- Slovakia** (Błoszyk et al., 2022) – *Labidostomma* *luteum*
- Slovenia** (Willmann, 1932; Willmann, 1940, 1941; Vistorin, 1978a) – *Labidostomma* (*Nicoletiella*) *lyra*, *Labidostomma* *cornuta*, *L. spelaeophila*
- Spain (cont.)** (Mihelčič, 1958a,b; Bertrand, 1983; Bertrand et al., 2012) – *Akrostomma* *coineai*, *Labidostomma* (*Nicoletiella*) *luteum*, [*L. colomerense*], *L. franzi*, *L. (L.) integrum*
- Sweden** – *Labidostomma* (*Nicoletiella*) *luteum*
- Switzerland** (Schweizer & Bader, 1963) – *Labidostomma* (*Nicoletiella*) *luteum*
- Turkey (all)** (Urhan & Özmen, 2006) – *Labidostomma* sp.
- Baltic Area** (Dunlop & Bertrand, 2011; Sidorchuk et Bertrand, 2013) – *Labidostomma* (*Nicoletiella*) *paleoluteum* (fossil), *Labidostomma* (*Pseudocornutella*) *electri* (fossil), *Sellnickiella* *balticae* (fossil)

AFRICA

- Algeria** (Grandjean, 1942) – *Labidostomma* *integrum*, *L. (Cornutella)* *cornutum*
- Angola** (Bertrand & Theron, 1990a) – *Labidostomma* (*L.*) *angolensis*, *L. (L.) perciliata*
- DR Congo** (Cooreman, 1954) – *Labidostomma* *integrum* *schoutedeni*
- South Africa** (Thor, 1931a; Meyer & Ryke, 1959; Bertrand & Theron, 1990a, 1992) – *Labidostomma* (*L.*) *aethiopica*, *L. (L.) fissurata*, *L. (L.) mirax*, *L. (L.) perciliata*, *Sellnickiella* (*S.*) *capensis*, *S. (S.) hoegi*, *S. (S.) natalensis*

ASIA

- India** (Bhattacharyya, 1966) – *Labidostomma* *himalayensis*
- Iran** (Bertrand et al., 2012; Jalaeian, Kamali & Bertrand, 2013) – *Labidostomma* (*L.*) *intermedia*
- Israel and Palestina** – *Labidostomma* (*L.*) *intermedia*
- Japan** (Shiba, 1969, 1972, 2004) – *Labidostomma* (*Atyonella*) *simplex*, *Labidostomma* (*Cornutella*) *ezoensis*, *L. (Cornutella)* *mutisetosa*
- Kazakhstan** (Bertrand et al., 2012) – *Labidostomma* (*L.*) *integrum*
- Korea (N.)** (Feider & Vasiliu, 1972) – *Labidostomma* *asiatica*, *L. (Cornutella)* *mutisetosa*, *M. multisetosa*
- Nepal** (Feider & Vasiliu, 1968a) – *Labidostomma* *nepalense*
- Philippines** (Bertrand & Corpus Raros, 1997) – *Labidostomma* (*L.*) *guadalupense*

NORTH AMERICA

- USA** (Ewing, 1913; Greenberg, 1952; Robaux, 1977; Crossley & Simmons, 2015) – *Akrostomma* *gabriella*, *A. grandjeani*, *A. plumosum*, *Eunicolina* *porifera*, *Labidostomma* (*L.*) *barbae*, *Labidostomma* (*Nicoletiella*) *caloderum*, *L. (N.) fergusonii*, *L. (N.) pacifica*,

SOUTH and CENTRAL AMERICA

Brazil (Sellnick, 1922; Feider & Vasiliu, 1970; Feider, Vasiliu & Calugar, 1974; Bertrand, 1990) – *Labidostomma amasonica*, *Sellnickiella* (S.) *brasiliensis*, *S.* (S.) *decemlabeculata*, *S.* (S.) *mediumreticulata*, *S.* (S.) *schusteri*, *S.* (S.) *pulchra*

Chile (contin.) (Feider & Vasiliu, 1970; Feider, Vasiliu & Calugar, 1974; Bertrand, 1990c) – *Labidostomma* (*Nicoletiella*) *luteoides*, *L.* (*Pselistoma*) *legendrei*, *Sellnickiella* (S.) *decemlabeculata*, *Sellnickiella* (*Dicastricola*) *caeca*, *S.* (D.) *coineaui*, *S.* (D.) *covarubiasi*, *S.* (D.) *fungifera*, *S.* (D.) *fusiformis*, *S.* (D.) *mediohexagonata*, *Sellnickiella* (S.) *macroscopa*,

Guatemala (Stoll, 1891) – *Labidostomma* (*Labidostomma*) *neotropica*

Peru (Bertrand, 1990c) – *Labidostomma* (*Atyeonella*) *peruviana*

OCEANIA

Australia (continent) (Wommersley, 1935; Atyeo & Crossley Jr., 1961a; Bertrand, 1997; Halliday, 1998) – *Sellnickiella adelaideae*, *S. biunguiculata*, *S. womersleyi*

New Zealand (Atyeo & Crossley Jr. 1961b) – *Sellnickiella* (S.) *circinus*, *Labidostomma Atyonella* *fictiluteum*, *L.* (A.) *glandula*, *L.* (A.) *malleolus*, *L.* (A.) *multifarum*, *L.* (A.) *ocellatum*, *L.* (A.) *striatum*

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Infraorder Eupodina

The Mite Superfamily Eupodoidea

Eupodoidea Banks, 1894

According to Zhang, Ed. (2011), the superfamily consists of nine families (four of them described recently), with 85 genera and 309 species. The four “old” families (Eupodidae, Penthaleidae, Penthalodidae and Rhagidiidae) account for 277 of these species.

The Mite Family Eupodidae Koch

Eupodides C.L. Koch, 1842: 60

Eupodidae: Murray, 1877: 117

Small or middle-sized (160 – 1000 μm) mites, living in moss, leaf litter or on plants. Predators or plant parasites. Members of *Benoinyssus* Fain have been found in the nasal mucus of *Naja melanoleuca* (Serpentes: Elapidae).

Longtime after the descriptions of genus *Eupodes* Koch, 1835 and the family Eupodidae again by C.L. Koch (1842), the family was left with this genus plus *Protereunetes* Berlese, 1923, *Linopodes* C.L. Koch, 1835 and later *Cocceupodes* Sig Thor, 1934 (the last two being considered after 2010 to belong to a separate family Cocceupodidae Jesionowska, later synonymized with Eupodidae and restored). Followed the description of five further genera by Fain (1958), A. Baker (1987), Barilo (1991), Fain & Camerik (1994) and Baker & Lindquist (2002). The important revision of Thor & Willmann (1941) was followed by modern contributions by Meyer & Ryke (1960, South Africa), Strandtmann (1971, Alaska), Strandtmann & Goff (1978, Hawaii), Shiba (1978, Japan), Qin Ting-Kui (1998, Australia and New Zealand), Olivier & Theron (1997, 1998, Southern Africa), and others. Several other authors contributed considerably to the study of these mites: Thor in Norway, Strandtmann in Antarctica, Abou-Awad in Egypt, Corpuz-Raros in the Philippines. Most of the modern research is being done in countries outside Europe and the identity of the 26 “*Eupodes*” species, described by C.L. Koch from Germany and enumerated by Thor & Willmann (1941), remains unclear. Only eight of them have been discussed by modern authors.

Cocceupodidae is a small family of mites, detached from Eupodidae and consisting of three genera and 23 valid species (Jesionowska, 2010). The study of the family starts with *Acarus* [*Linopodes*] *motatorius* Linnaeus, 1758. *Linopodes* C.L. Koch, 1835 is the oldest genus, includes mites with very long front legs. They live in wet places, rotten wood and under stones, often in caves. Koch (1838) describes from Germany 12 “*Linopodes*” species, their identity is still unclear. Some *Cocceupodes* are known from the far North or from Antarctica. Khaustov (2014) synonymized Cocceupodidae under Eupodidae and *Filieupodes* under *Cocceupodes* and described from Crimea a new genus and species *Pseudeupodes porosus*. Later Khaustov (2015) added another two new genera and species *Pseudopenthaleus tauricus* and *Echinoeupodes echinus*, thus the families Eupodidae and Cocceupodidae (combined) seem to include 14 genera and 95 species. Other Polish specialists, based on molecular phylogeny, restored the validity of the family Cocceupodidae and of the genus *Filieupodes* Jesionowska. They concluded that “(1) the genera *Linopodes*, *Filieupodes* and *Cocceupodes* are a separate monophyletic lineage of familial rank and the sister group of Eupodidae s.s., and (2) the genus *Filieupodes* should be considered a separate genus being a sister group of the *Linopodes*-*Cocceupodes* clade” (Szudarek-Trepto, Kaźmierski, Dabert et al. 2020).

Composition of the families Eupodidae and Cocceupodidae

Fam. **Eupodidae** C.L. Koch, 1842 - 14 gen., 95 sp.

Aethosolenia Baker et Lindquist, 2002 – 1 sp.

Benoinyssinae Fain, 1958 – 10 sp.

Caleupodes A. Baker, 1987 – 1 sp.

Claveupodes Strandtmann et Prasse, 1977 – 1 sp.

Cocceupodes Sigh Thor, 1934 – 8 sp.

Echinoeupodes Khaustov, 2017 – 2 sp.

Eupodes C.L. Koch, 1835 – 47 sp.

Filieupodes Jesionowska, 2010 – 9 sp.

Linopodes C.L. Koch, 1835 - 10 sp.

Neoprotereunetes Fain et Camerik, 1994 – 1 sp.

Niveupodes Barilo, 1991 – 1 sp.

Pseudeupodes Khaustov, 2014 – 1 sp.

Pseudopenthaleus Khaustov, 2015 – 2 sp.

Xerophiles Jesionowska, 2003 – 1 sp.

Catalogue of Eupodidae and Cocceupodidae

Family **Eupodidae** C.L. Koch

Eupodides C.L. Koch, 1842: 60

Eupodini Canestrini, 1886: 693

Eupodidae Murray, 1877: 117

Type genus: *Eupodes* C.L. Koch, 1835

Benoinyssinae Fain, 195. Type genus: *Benoinyssus* Fain, 1958: 178.

Cocceupodidae Jesionowska, 2010: 639. Synonymized by Khaustov, 2014, but restored by Szudarek-Trepto, Kaźmierski, Dabert et al. (2020).

Type genus: *Cocceupodes* Sig Thor, 1934 (sensu Jesionowska, 2005)

Genus ***Aethosolenia*** Baker et Lindquist

Aethosolenia Baker & Lindquist, 2002: 2

Type species: *Aethosolenia laselvensis* Baker et Lindquist, 2002

Aethosolenia laselvensis Baker et Lindquist

Aethosolenia laselvensis Baker & Lindquist, 2002: 4

Type locality: Heredia Province, La Selva Biological Station, 50-150 m
Distribution: Costa Rica

Genus ***Benoinyssus*** Fain

Benoinyssus Fain, 1958: 178

Type species: *Benoinyssus najae* Fain, 1958

Benoinyssus celatus Olivier et Theron

Benoinyssus celatus Olivier & Theron, 1997a: 317

Type locality: Cafunfe river

Distribution: Angola

Benoinyssus ereynetoides (Strandtmann et Prasse)

Eupodes ereynetoides Strandtmann & Prasse, 1976: 2; Santamaría et al., 2012: 1164

Benoinyssus ereynetoides (Strandtmann et Prasse): Olivier & Theron, 1997a: 302

Type locality: Etzsdorf/ Saalkreis (East Germany)

Distribution: Germany, Spain

Benoinyssus falcatus Olivier et Theron

Benoinyssus falcatus Olivier & Theron, 1997a: 311

Type locality: Northern Province, Louis Trichardt

Distribution: South Africa

Benoinyssus momeni (Abou-Awad)

Eupodes momeni Abou-Awad, 1984: 333

Benoinyssus momeni (Abou-Awad): Olivier & Theron, 1997a: 302

Type locality: Ain Shams Univ., El-qaliubiya Region

Distribution: Egypt

Benoinyssus najae Fain

Benoinyssus najae Fain, 1958: 138; 1959: 358

Type locality: Kaninya

Distribution: Rwanda

Host: *Naja melanoleuca* (Serpentes: Elapidae), nasal mucus

Benoinyssus oconnori Bizarro Wurlitzer et Da Silva

Benoinyssus oconnori Bizarro Wurlitzer & Da Silva, 2020: 3

Type locality: municipality of Novo Mundo, Mato Grosso state

Distribution: Brazil

Host: from soil and litter

Benoinyssus ornatus Olivier et Theron*Benoinyssus ornatus* Olivier & Theron, 1997a: 317

Type locality: Northern Province, Giyani (South Africa)

Distribution: Angola, Swaziland, South Africa

Benoinyssus pusillus Olivier et Theron*Benoinyssus pusillus* Olivier & Theron, 1997a: 314

Type locality: Northern Province, Warmbaths

Distribution: South Africa

Benoinyssus serratus Olivier et Theron*Benoinyssus serratus* Olivier & Theron, 1997a: 302

Type locality: Northern Province, Turfloop (South Africa)

Distribution: Botswana, Namibia, South Africa, Swaziland

Benoinyssus sp. – Iran (Darbemamieh, Hajiqanbar & Khanjani, 2013: 454)***Benoinyssus tuberculatus*** (Baker)*Opsereynetes tuberculatus* Baker, 1945: 18*Benoinyssus tuberculatus* (Baker): Hunter, 1964: 181*Ereynetes (Opsereynetes) tuberculatus* Baker: Fain, 1964b: 106

Type locality: Desierto de los Leones

Distribution: Mexico

Genus ***Caleupodes*** A. Baker*Caleupodes* A. Baker, 1987: 103Type species: *Caleupodes reticulatus* A. Baker, 1987***Caleupodes reticulatus*** A. Baker*Caleupodes reticulatus* A. Baker, 1987: 104

Type locality: Suffolk, Hollesley Common

Distribution: England

Genus ***Claveupodes*** Strandtmann et Prasse*Claveupodes* Strandtmann & Prasse, 1977: 10Type species: *Claveupodes delicatus* Strandtmann et Prasse, 1977***Claveupodes delicatus*** Strandtmann et Prasse*Claveupodes delicatus* Strandtmann & Prasse, 1977: 11; Martin, 1983: 15

Type locality: Etzdorf/Saalkreis, East Germany

Distribution: Germany, New Zealand

Claveupodes sp. - Iran (Darbemamieh, Hajiqanbar & Khanjani, 2013: 454)

Genus ***Cocceupodes*** Sig Thor

Cocceupodes Sig Thor, 1934: 128 (sensu Jesionowska, 2005)

Type species: *Eupodes clavifrons* R. Canestrini, 1886

Cocceupodes australis Strandtmann et Tilbrook

Cocceupodes australis Strandtmann & Tilbrook, 1968: 51; Shiba, 1971: 222; Jesionowska, 2010: 643. Strandtmann & Prasse (1977: 9) synonymize it with *C. mollicellus*.

Type locality: Deception Island

Distribution: Deception Island (South Shetland Islands), Japan

Cocceupodes breweri Strandtmann

Cocceupodes breweri Strandtmann, 1971: 87; Jesionowska, 2010: 641

Type locality: Anaktuvik Pass, Alaska

Distribution: USA (Alaska), Greenland

Cocceupodes communis Shiba

Cocceupodes communis Shiba, 1969c: 68; Jesionowska, 2010: 643

Type locality: Shiga Heights IBP Area, Nagano Pref.

Distribution: Japan

Cocceupodes gracilongus Olivier et Theron

Cocceupodes gracilongus Olivier & Theron, 2003: 186; Jesionowska, 2010: 641

Type locality: S. Afr., Northern Province, Ga-Selati River, near Tzaneen

Distribution: South Africa

Cocceupodes longisolenidiatus Jesionowska

Cocceupodes longisolenidiatus Jesionowska, 2007: 352; 2010: 641

Type locality: Poland

Distribution: Poland

Cocceupodes mollicellus (C.L. Koch)

Eupodes mollicellus C.L. Koch, 1838: fa. 19, t. 23

Eupodes clavifrons R. Canestrini, 1886: 716 (type loc. Trentino); Haarløv, 1942 : 28

Cocceupodes clavifrons (R. Canestrini): Sig Thor, 1934: 128; Schweizer & Bader, 1963: 218; Strandtmann, 1971: 85

Cocceupodes mollicellus: Oudemans, 1937: 891; Thor & Willmann, 1941: 36; Mihelčič, 1957; Macfadyen, 1954: 283; Haarløv, 1957: 26; Strandtmann & Prasse, 1977: 8; Strandtmann & Goff, 1978: 133; Jesionowska, 2010: 641

Cocceupodes curticlava Thor, 1934: 178; Thor & Willmann, 1941: 36; Macfadyen, 1954: 283;

Haarløv, 1957: 27 (syn. by Strandtmann & Prasse, 1977: 8)

Type locality: Germany

Distribution: Austria, Denmark, Germany, Italy, Norway, Hawaii, Greenland, Switzerland, Yan Mayen I.

***Cocceupodes planiticus* Shiba**

Cocceupodes planiticus Shiba, 1978: 141; Jesionowska, 2010: 643

Type locality: Japan

Distribution: Japan

***Cocceupodes stellatus* Strandtmann et Prasse**

Cocceupodes stellatus Strandtmann & Prasse, 1977: 6; Jesionowska, 2010: 641

Type locality: Etzdorf/ Saalkreis (East Germany)

Distribution: Germany, Greenland (cf. *stellatus*)

Genus ***Echinoeupodes* Khaustov**

Echinoeupodes Khaustov, 2017: 29

Type species: *Echinoeupodes* Khaustov, 2017: 29

***Echinoeupodes echinus* Khaustov**

Echinoeupodes echinus Khaustov, 2017: 31

Type locality: nr. Yalta

Distribution: Crimea

***Echinoeupodes turgidus* (Shiba)**

Protereunetes turgidus Shiba, 1978: 145

Echinoeupodes turgidus (Shiba): Khaustov, 2017: 31

Type locality: Gobo, Wakayama

Distribution: Japan

Genus ***Eupodes* C.L. Koch**

Eupodes C.L. Koch, 1835: fa. 1, t. 18 - 19

Megamerus Dugès, 1834: 50 (non Mac Leay, 1827). Enumerated are: *longipes*, *inflatus*, *ovalis*, *celer*, *roseus*, *castaneus*, *fallax*

Egypteupodes B.A. Abou-Awad, 1984: 329 (syn. by Olivier & Theron, 1997: 58). Type: *E. strandtmanni* Abou-Awad, 1984

Type species: *Eupodes striola* C.L. Koch, 1835

***Eupodes acanthus* Olivier et Theron**

Eupodes acanthus Olivier & Theron, 1998: 284

Type locality: Northern Province, Debegeni Falls

Distribution: South Africa

Eupodes alaskanensis Strandtmann

Eupodes alaskanensis Strandtmann, 1971: 79

Type locality: Alaska, Cape Beaufort

Distribution: USA (Alaska)

Eupodes angardi Strandtmann et Sømme

Eupodes angardi Strandtmann & Sømme, 1977: 138

Type locality: Queen Maud Land, Brattskarvet

Distribution: Antarctica

Eupodes bakeri Abou-Awad, El-Sawaf et Abdel-Khalek

Eupodes bakeri Abou-Awad, El-Sawaf & Abdel-Khalek, 2006: 46

Type locality: Egypt

Distribution: Egypt

Eupodes berensis Shiba

Eupodes berensis Shiba, 1976: 85

Type locality: Malaysia

Distribution: Malaysia

Eupodes berlesei Thor

Eupodes berlesei Thor, 1912: 236; Schweizer & Bader, 1963: 217

Type locality: Italy

Distribution: Denmark, Italy, Switzerland

Eupodes brevipes Banks

Eupodes brevipes Banks, 1916: 14

Type locality: Laguna Beach, California

Distribution: USA (California)

Eupodes callejae Corpuz- Raros

Eupodes callejae Corpuz- Raros, 2005: 135

Type locality: Baybay, Leyte Is.

Distribution: Philippines (Leyte Is., Luzon Is.)

Eupodes cordiformis Shiba

Eupodes cordiformis Shiba, 1978: 135

Type locality: Kuwabara, Matsuyama, Ehime

Distribution: Japan

Eupodes crozetensis Strandtmann et Davies

Eupodes crozetensis Strandtmann & Davies, 1972: 50; Darbemamieh, Hajiqanbar & Khanjani, 2013: 454

Type locality: French Base Buildings, Possession Island, Crozet Islands

Distribution: Iran, Possession Island, Crozet Islands (sub-antarctic)

Eupodes exiguus Booth, Edwards et Usher

Eupodes exiguus Booth, Edwards & Usher, 1985: 392

Type locality: South-Orkney-Islands

Distribution: Antarctica (South-Orkney-Islands)

Eupodes fusifer R. Canestrini

Eupodes fusifer R. Canestrini, 1886: 714

Type locality: San Remo, Veneto

Distribution: Italy

Eupodes fusiferellus Meyer et Ryke

Eupodes fusiferellus Meyer & Ryke, 1960: 483

Type locality: Bathurst

Distribution: South Africa

Eupodes garciai Corpuz- Raros

Eupodes garciai Corpuz- Raros, 2005: 137

Type locality: Luzon (UPLB campus, College, Laguna)

Distribution: Philippines (Luzon, Leyte Isls)

Eupodes ghardagae Schuster

Eupodes ghardagae Schuster

Type locality: Egypt

Distribution: Egypt

Eupodes gilvus C.L. Koch

Eupodes gilvus C.L. Koch, 1838: fa. 20, t. 1

Type locality: Regensburg

Distribution: Germany

Eupodes haltica (Haller)

Megamerus haltica Haller, 1880: 364

Eupodes haltica (Haller): Thor & Willmann, 1941: 25

Type locality: "Moos am Thunersee"

Distribution: Switzerland

Eupodes hamatus Olivier et Theron

Eupodes hamatus Olivier & Theron, 1997: 72

Type locality: Western Cape, Lamberts Bay

Distribution: South Africa

Eupodes hawaiiensis Strandtmann et Goff

Eupodes hawaiiensis Strandtmann & Goff, 1978: 129; Goff, 1987: 31

Type locality: Hawaii Isl., Kilauea Forest Reserve, 1620 m

Distribution: Hawaii

Eupodes hiemalis C.L. Koch

Eupodes hiemalis C.L. Koch, 1838: fa. 19, t. 4; Thor & Willmann, 1941: 20; Lindroth et al., 1973: 125

Type locality: Regensburg (Germany)

Distribution: Germany, Iceland

Eupodes hjartdaliae Thor

Eupodes hjartdaliae Thor, 1934a: 213

Type locality: Hjartdal, Thelemarken

Distribution: Norway

Eupodes iconicus C.L. Koch

Eupodes iconicus C.L. Koch, 1838: fa.19, t. 7; 1842: fa. 3, p.69; Walckenaer, 1847: 537; Oudemans, 1937: 884; Thor & Willmann, 1941: 12

Type locality: Regensburg (Germany)

Distribution: Germany, Italy

Eupodes indentatus Olivier et Theron

Eupodes indentatus Olivier & Theron, 1997: 69

Type locality: Mt. Inn Hotel, Soutpansberg

Distribution: South Africa

Eupodes infirmus Shiba

Eupodes infirmus Shiba, 1978: 133

Type locality: Mt. Saragamine, Shigenobu-cho, Ehime

Distribution: Japan

Eupodes leucomelas C.L. Koch

Eupodes leucomelas C.L. Koch, 1838: fa.19, t.14

Type locality: Regensburg

Distribution: Germany

Eupodes littoralis Shiba

Eupodes littoralis Shiba, 1978: 141

Type locality: Wake, Matsuyama, Ehime

Distribution: Japan

Eupodes longipilus Thor

Eupodes longipilus Thor, 1934: 178; Meyer & Ryke, 1960: 487

Type locality: Cape Town

Distribution: South Africa

Eupodes longisetatus Strandtmann

Eupodes longisetatus Strandtmann, 1964: 148; Shiba, 1969c: 66; 1969a: 149

Type locality: Campbell Island

Distribution: Japan, New Zealand (Campbell Island)

Eupodes lumbarus Shiba

Eupodes lumbarus Shiba, 1976: 88

Type locality: Malaysia

Distribution: Malaysia

Eupodes lutatus Olivier et Theron

Eupodes lutatus Olivier & Theron, 1997: 72

Type locality: Zululand, St Lucia

Distribution: South Africa

Eupodes marinus Banks

Eupodes marinus Banks, 1896: 75; 1907: 596; Thor, 1934: 206; Thor & Willmann, 1941: 27

Type locality: Sea Cliff, New York

Distribution: USA

Eupodes milvinus C.L. Koch

Eupodes milvinus C.L. Koch, 1838: fa. 19, t.1; 1842: fa. 3, p.70; Walckenaer, 1847: 537;
Oudemans, 1937: 890; Thor & Willmann, 1941: 22

Type locality: Oberpfalz

Distribution: Germany, Italy, Holland, Sweden

Eupodes minimilis Olivier et Theron

Eupodes minimilis Olivier & Theron, 1998: 281

Type locality: Northern Province, Giyani (South Africa)

Distribution: Botswana, Cabo Verde Islands, South Africa, Zimbabwe

Eupodes minutus (Strandtmann)

Protereunetes minutus Strandtmann, 1967: 55

Eupodes minutus (Strandtmann): Strandtmann, 1970: 89; Luxton, 1990: 400

Tydeus antipodus: Womersley (1937)

Eupodes antipodus: Baker (1970)

Type locality: South Georgia, Bay of Isles

Distribution: South Georgia, Macquarie I., New Zealand (South Island)

Eupodes niloticus Abou-Awad et El-Bagouri

Eupodes niloticus Abou-Awad & El-Bagouri, 1985: 5; Abdelgayed, 2019: 32

Type locality: Egypt

Distribution: Egypt

Eupodes ocellatus Willmann

Eupodes ocellatus Willmann, 1952: 159

Type locality: Wanderooge I.

Distribution: Germany

Eupodes oedipus Oudemans, 1937: 888 (nom. nov. pro *Eupodes macropus* Koch, 1838)

Eupodes okinoshimaensis Shiba

Eupodes okinoshimaensis Shiba, 1978: 138

Type locality: Nakamura, Okinoshima, Shimane

Distribution: Japan

Eupodes onoi Shiba

Eupodes onoi Shiba, 1976: 92

Type locality: Malaysia

Distribution: Singapore, Malaysia

Eupodes parafusifer Meyer et Ryke

Eupodes parafusifer Meyer & Ryke, 1960: 483; Olivier & Theron, 1998: 276

Type locality: Mooi River, Potchefstroom (South Africa)

Distribution: Angola, South Africa

Eupodes parvus Booth, Edwards et Usher

Eupodes parvus Booth, Edwards & Usher, 1985: 394

Type locality: South-Orkney-Islands

Distribution: Antarctica (South-Orkney-Islands)

Eupodes parvus grahamensis Booth, Edwards et Usher*Eupodes parvus grahamensis* Booth, Edwards & Usher, 1985: 395

Type locality: Antarctica, Takaki Promontory, Brabant Island

Distribution: Antarctica

Eupodes pasohensis Shiba*Eupodes pasohensis* Shiba, 1976: 86

Type locality: Pasoh Forest Reserve, Negeri Sembilan, W. Malaysia

Distribution: Malaysia

Eupodes pseudoclavifrons R. Canestrini*Eupodes pseudoclavifrons* R. Canestrini, 1886: 717; Thor, 1934: 205; Schmölzer, 1993: 59*Cocceupodes pseudoclavifrons* (R. Canestrini): Schweizer & Bader, 1963: 218

Type locality: Italy (Trentino)

Distribution: Austria, Italy, Switzerland

Eupodes pseudolumbarus Shiba*Eupodes pseudolumbarus* Shiba, 1976: 90; Corpuz-Raros, 2005: 140

Type locality: Pasoh Forest Reserve, Negeri Sembilan, W. Malaysia

Distribution: W.Malaysia, Philippines (Luzon, Leyte)

Eupodes pusillus Shiba*Eupodes pusillus* Shiba, 1976: 93; Corpuz-Raros, 2005: 143c

Type locality: Pasoh Forest Reserve, Negeri Sembilan, W. Malaysia

Distribution: W.Malaysia, Philippines (Luzon, Leyte)

Eupodes riedli Schuster*Eupodes riedli* Schuster, 1965

Type locality: Possession I.

Distribution: Possession I., (Crozet Isls, Antarctica)

Eupodes sigmoidensis Strandtmann et Goff*Eupodes sigmoidensis* Strandtmann & Goff, 1978: 123; Goff, 1987: 31; Gupta et al., 2004:

44 Darbemamieh, Hajiqaanbar & Khanjani, 2013: 454

Type locality: Hawaii I., east slope of Mauna Loa

Distribution: Hawaii, India, Iran, Ivory Coast

Eupodes signatus C.L. Koch*Eupodes signatus* C.L. Koch, 1835: fasc. 1, t.19

Type locality: Pleistein

Distribution: Deutschland

***Eupodes skiaaki* Thor**

Eupodes skiaaki Thor, 1934: 213

Type locality: Linseim, Grjotli, Videsaeter in Skiaak (Gudbrandsdalen)

Distribution: Norway

***Eupodes strandtmanni* Coineau**

Eupodes strandtmanni Coineau, 1976: 56

Type locality: Banyuls-sur-Mer

Distribution: France

***Eupodes striola* C.L. Koch**

Eupodes striola C.L. Koch, 1836: fa.1, t.18

Type locality: Germany

Distribution: Germany

***Eupodes temperatus* Shiba**

Eupodes temperatus Shiba, 1978: 135; Abou-Awad, 1984: 335

Type locality: Yuyama, Matsuyama

Distribution: Egypt, Japan

***Eupodes tottanfjella* Strandtmann**

E. tottanfjella Strandtmann, 1967: 54

Type locality: Queen Maud Land

Distribution: Antarctica

***Eupodes trifasciatus* C.L. Koch**

Eupodes trifasciatus C.L. Koch, 1838: fa.19, t.15

Type locality: Regensburg

Distribution: Germany

***Eupodes unifasciatus* C.L. Koch**

Eupodes unifasciatus C.L. Koch, 1838: fa.19, t. 11; 1841: 436; 1842: fa.3, p.69; Walckenaer, 1847: 537; Oudemans, 1937: 897; Thor & Willmann, 1941: 15; Turk & Turk, 1952: 497

Type locality: Regensburg (Germany)

Distribution: England, Germany,

***Eupodes vallombrosae* Thor**

Eupodes vallombrosae Thor, 1934: 212; Mihelčič, 1958b: 269; Schweizer & Bader, 1963: 217

Type locality: "Vallombrosa, Firenze", Italy

Distribution: Italy, Switzerland, Spain

***Eupodes variegatus* C.L. Koch**

Eupodes variegatus C.L. Koch, 1838: fa.19, t.2; 1841: v.3, 435; 1842: fa.3, p. 69; Walckenaer, 1847: 537; Thor, 1912: 236; Halbert, 1915: 110; 1920: 139 (var. *halophilus*); Hull, 1918: 34; Sellnick, 1940: 32; Haarløv, 1942; Thor & Willmann, 1941: 20; Macfadyen, 1954: 283; Bottazzi, 1950: 37; Mihelčič, 1958a: 104; 1958b: 269; Sellnick, 1958: 38; Meyer & Ryke, 1960: 487; Lipkin & Safriel, 1971: 7 (var. *halophila*)

Type locality: Regensburg (Germany)

Distribution: Austria, England, Germany, Greenland, Ireland, Island, Israel, Italy, Norway, South Africa, Spain, Sweden, Yan Mayen I.

***Eupodes versicolor* C.L. Koch**

Eupodes versicolor C.L. Koch, 1838: fa.19, t.13

Type locality: Regensburg

Distribution: Germany

***Eupodes viridis* Oudemans**

Eupodes viridis Oudemans, 1906: 40

Type locality: Greenland

Distribution: Greenland

***Eupodes voxencollinus* Thor**

Eupodes voxencollinus Thor, 1934: 208; Weis-Fogh, 1948; Evans, 1952: 666; Hallas, 1978: 31; Strandtmann & Goff, 1978: 126; Abou-Awad, 1984: 333; Goff, 1987: 31; Darbemamieh, Hajiqanbar & Khanjani, 2013: 454; Hagstrum D. et al. 2013: 546

Eupodes alaskanensis Strandtmann, 1971: 79; Strandtmann & Prasse, 1977: 4

Eupodes acuminatus Willmann, 1952 – Wangerooze Is.

Type locality: “Voksenkollen bei Oslo” (Norway)

Distribution: Alaska, Canada, China, Denmark, Egypt, England, Germany Hawaii, Iran, Norway

***Eupodes winsnesi* Strandtmann et Sømme**

Eupodes winsnesi Strandtmann & Sømme, 1977: 140

Type locality: Queen Maud Land, Brattskarvet, Sverdrupfjella

Distribution: Antarctica

***Eupodes wisei* Womersley et Strandtmann**

Eupodes wisei Womersley & Strandtmann, 1963: 452

Type locality: Hallett Station

Distribution: Antarctica

***Eupodes zaheri* Abou-Awad, El-Sawaf et Abdel-Khalek**

Eupodes zaheri Abou-Awad, El-Sawaf & Abdel-Khalek, 2006: 44

Type locality: Egypt

Distribution: Egypt

***Eupodes* sp.** – Yemen (Ueckermann et al., 2006: 262)

Genus ***Filieupodes*** Jesionowska

Filieupodes Jesionowska, 2010: 641

Type species: *Filieupodes filiformis* Jesionowska, 2010

Filieupodes aegyptiacus (Abou-Awad et El-Bagouri)

Cocceupodes aegyptiacus Abou-Awad & El-Bagouri, 1984: 68

Filieupodes aegyptiacus (Abou-Awad et El-Bagouri): Jesionowska, 2010: 642

Type locality: Egypt (on *Vitis vinifera*)

Distribution: Egypt

Filieupodes filiformis Jesionowska

Filieupodes filiformis Jesionowska, 2010: 645

Type locality: The Bialowieza Forest. Hajnówka (Podlaskie District)

Distribution: Poland

Filieupodes filistellatus Jesionowska

Filieupodes filistellatus Jesionowska, 2010: 651

Type locality: Ciechocinek near Toruń (Kujawsko-Pomorskie Distr.)

Distribution: Poland

Filieupodes fusiformis (Olivier et Theron)

Cocceupodes fusiformis Olivier & Theron, 2003: 165

Filieupodes fusiformis (Olivier et Theron): Jesionowska, 2010: 652

Type locality: S.Afr., Northern Province, near Nylstroom

Distribution: South Africa

Filieupodes paradoxus (Weis-Fogh)

Cocceupodes paradoxus Weis-Fogh, 1948: 263; Evans, 1952: 666; Haarløv, 1957: 27

Filieupodes paradoxus (Weis-Fogh): Jesionowska, 2010: 652

Type locality: Denmark

Distribution: England, Denmark, Greenland

Filieupodes sharkiensis (Abou-Awad, El-Sawaf et Abdel-Khalek)

Cocceupodes sharkiensis Abou-Awad, El-Sawaf & Abdel-Khalek, 2006: 48

Filieupodes sharkiensis: Jesionowska, 2010: 642

Type locality: Sharki

Distribution: Egypt

Filieupodes shepardi (Strandtmann)

Cocceupodes shepardi Strandtmann, 1971: 88

Filieupodes shepardi (Strandtmann): Jesionowska, 2010: 642

Type locality: Cape Beaufort (Alaska)

Distribution: USA (Alaska)

Filieupodes strandtmanni (Abou-Awad et El-Bagouri)

Cocceupodes strandtmanni Abou-Awad & El-Bagouri, 1986: 68

Filieupodes strandtmanni (Abou-Awad et El-Bagouri): Jesionowska, 2010: 642

Type locality: Egypt

Distribution: Egypt

Filieupodes trisetatus (Strandtmann et Prasse)

Cocceupodes trisetatus Strandtmann & Prasse, 1977: 7; Strandtmann & Goff, 1978: 130;
Goff, 1987: 31

Filieupodes trisetatus (Strandtmann et Prasse): Jesionowska, 2010: 641

Type locality: Etzdorf/ Saalkreis (East Germany)

Distribution: Germany, Hawaii

Genus ***Linopodes*** C.L. Koch

Linopodes C.L. Koch, 1836: fa. 1, t. 16

Type species: *Linopodes ravus* C.L. Koch, 1836

Linopodes antennaeipes Banks

Linopodes antennaeipes Banks, 1894: 221; Miller, 1925: 93; Darbemamieh, Hajiqanbar &
Khanjani, 2013: 454

Type locality: USA

Distribution: Australia, Canada, Great Britain, Iran, Italy, USA

Linopodes barnufi Abou - Awad Badawi, El-Sawaf et Abdel-Khalek

Linopodes barnufi Abou - Awad Badawi, El-Sawaf & Abdel-Khalek, 2006: 50

Type locality: Egypt

Distribution: Egypt

Linopodes cameronensis Shiba

Linopodes cameronensis Shiba, 1976: 96; Darbemamieh, Hajiqanbar & Khanjani, 2013: 454

Type locality: Malaysia

Distribution: Iran, Malaysia

***Linopodes eupodoides* R. Canestrini**

Linopodes eupodoides R. Canestrini, 1886: 701; Schweizer & Bader, 1963: 219

Type locality: Italy, Trentino

Distribution: Italy, Switzerland

***Linopodes iwatensis* Morikawa**

Linopodes pubescens iwatensis Morikawa, 1963: 15

Linopodes iwatensis: Shiba, 1969c: 69

Type locality: Uchimagi, Yamagata-mura, Iwate Pref.

Distribution: Japan

***Linopodes kochi* Sig Thor (in Thor & Willmann, 1941: 43, nomen nov. for *Linopodes longipes* C.L. Koch, 1838: 15 non *Trombidium longipes* Hermann, 1804)**

Type locality: Germany

Distribution: Germany

***Linopodes motatorius* (Linnaeus)**

Acarus motatorius Linnaeus, 1758: 616

Gamasus motatorius: Fabricius, 1805: 360

Linopodes motatorius (Linnaeus): Canestrini, 1886: 699; Oudemans, 1897: 112; 1937: 916; Willmann, 1951a: 146; 1954: 234; Bottazzi, 1956: 38; Haarløv, 1957: 30; Cooreman, 1959: 17; Schmölder, 1962: 283; Schweizer & Bader, 1963: 219 (full synonymy until 1938 in Thor & Willmann, 1941).

Type locality: Europe

Distribution: Austria, Bulgaria, Belgium, Croatia, Czech Rep., Denmark, Germany, Great Britain, Hungary, Iceland, Italy, Norway, Spain, Switzerland

***Linopodes motatorius africanus* Meyer et Ryke**

Linopodes motatorius africanus Meyer & Ryke, 1960: 489

Type locality: Bathurst

Distribution: South Africa

***Linopodes obsoletus* C.L. Koch**

Linopodes obsoletus C.L. Koch, 1838: fasc. 18, t.18

Type locality: Regensburg

Distribution: Germany

***Linopodes pubescens* Morikawa**

Linopodes pubescens Morikawa, 1963: 13

Type locality: Shiroyama, Matsuyama City, Ehime Pref.

Distribution: Japan

Linopodes ravus* C.L. KochLinopodes ravus* C.L. Koch, 1836: fa. 1, t. 17

Type locality: Regensburg

Distribution: Germany

Genus ***Neoprottereunetes*** Fain et Camerik*Neoprottereunetes* Fain & Camerik, 1994: 153Type species: *Ereynetes lapidarius* Oudemans, 1906***Neoprottereunetes lapidarius*** (Oudemans)*Ereynetes lapidarius* Oudemans, 1906: 40*Prottereunetes lapidarius*: Bujtendijk, 1945: 319; Thor & Willmann, 1941: 58*Neoprottereunetes lapidarius* (Oudemans): Fain & Camerik, 1994: 153

Type locality: Arnhem

Distribution: Holland

Genus ***Niveupodes*** Barilo*Niveupodes* Barilo, 1991: 140Type species: *Niveupodes niveus* Barilo, 1991***Niveupodes niveus*** Barilo*Niveupodes niveus* Barilo, 1991: 140; Khaustov, 2016: 258

Type locality: Zarafshan Range, 20 km south of Samarkand

Distribution: Uzbekistan

Genus ***Pseudeupodes*** Khaustov*Pseudeupodes* Khaustov, 2014: 13Type species: *Pseudeupodes porosus* Khaustov, 2014***Pseudeupodes porosus*** Khaustov*Pseudeupodes porosus* Khaustov, 2014: 13

Type locality: Yalta mountain-forest Nature Reserve

Distribution: Crimea

Genus ***Pseudopenthaleus*** Khaustov*Pseudopenthaleus* Khaustov, 2015: 931Type species: *Pseudopenthaleus tauricus* Khaustov, 2015***Pseudopenthaleus ciliatus*** (Shiba)*Penthaleus ciliatus* Shiba, 1978: 147*Pseudopenthaleus ciliatus* (Shiba): Khaustov, 2015: 927

Type locality: Mt. Sagaramine, Shigenobu-sho, Ehime

Distribution: Japan

Pseudopenthaleus tauricus Khaustov

Pseudopenthaleus tauricus Khaustov, 2015: 931

Type locality: Crimea

Distribution: Crimea

Genus ***Xerophiles*** Jesionowska

Xerophiles Jesionowska, 2003: 12

Type species: *Xerophiles ereynetoidalis* Jesionowska, 2003

Xerophiles ereynetoidalis Jesionowska

Xerophiles ereynetoidalis Jesionowska, 2003: 12

Type locality: Szczecin (Poland)

Distribution: Poland, Slovakia

Among the species described by Müller, 1776, Schrank, 1776, Hermann, 1804, Dugès, 1834, C.L. Koch, 1838, Wankel, 1861, Karsch, 1881, Banks, 1894, 1897, Berlese, 1917, but with unclear identity, are *Eupodes cerinus* Koch, *E. celerrimus* Koch, *E. variabilis* Banks, *E. formosulus* Koch, *E. dugesi* Sig Thor (as nom. nov.), *E. dilectus* Koch, *E. cornifer* (Müller) (*Acarus* c.), *E. cinctus* Koch, *E. chloromelas* Koch, *E. celer* (Dugès) (*Megamerus* c.), *E. lineatus* Koch, *E. lineola* Koch, *E. fasciola* Koch, *E. ochlochlorus* Koch, *E. saltatorius* Schrank (*Acarus* s.), *E. macropus* Koch, *E. melanurus* Koch, *E. pallescens* Koch, *Linopodes ambustus* Koch, *L. decoloratus* Koch, *L. decoloreus* Koch, *L. longipes*, *L. macropus* Herm. (*Trombidium* m.), *L. gracilipes* Karsch, *L. flexuosus* Koch, *L. flavipes* Koch, *L. riparius* Koch, *L. subterraneus* Wankel, *L. mammothia* Banks (*Eupodes* m.), *L. maculatus* Koch, *L. melaleucus* Koch, *L. rubiginosus* Koch, *L. agitatorius* Berlese.

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Distribution of Eupodidae and Cocceupodidae

EUROPE

- Austria** (Irk, 1939; Willmann, 1951; Mihelčič, 1957, 1958; Schmölzer, 1962, 1993) – *Cocceupodes mollicellus*, *Eupodes pseudoclavifrons*, *E. variegatus*, *Linopodes motatorius*
- Belgium** (Cooreman, 1943) – *Claveupodes* sp., *Linopodes motatorius*
- Bulgaria** (Beron, 2011) – *Linopodes motatorius*
- Croatia** (Matočec, 2002) – *Linopodes motatorius*
- Czech Rep.** (Willmann, 1954) – *Eupodes* sp., *Linopodes motatorius*, [? *L. subterraneus* Wankel]
- Denmark** (Weis-Fogh, 1948; Haarløv, 1957; Hallas, 1978) – *Cocceupodes mollicellus*, *Eupodes berlesei*, *E. viridis*, *E. voxencollinus*, *Filieupodes paradoxus*
- Greenland** (Haarløv, 1942; Makarova, 2015) – *Cocceupodes breweri*, *C. mollicellus* (= *Eupodes clavifrons* R. Canestrini, 1886 = *Cocceupodes curticlava* Thor, 1934), *C. paradoxus*, *C. cf. stellatus*
- Estonia** (Thor & Willmann, 1941) – *Prottereunethes striatellus*
- France** (contin.)(Coineau, 1976) – *Eupodes strandtmanni*
- Germany** (C.L. Koch, 1835, 1838; Willmann, 1952; Strandtmann & Prasse, 1977) – *Benoinyssus ereynetoides*, *Claveupodes delicatus*, *Cocceupodes stellatus*, *Eupodes leucomelas*, *E. ocellatus*, *E. striola*, *E. signatus*, *E. trifasciatus*, *E. voxencollinus*, *Filieupodes trisetatus*, *Linopodes motatorius*, *L. ravus*, *Prottereunethes striatellus*
- Great Britain** (Hull, 1918; Evans, 1952; Turk & Turk, 1952; A. Baker, 1987) – *Caleupodes reticulatus*, *Claveupodes* sp., *Eupodes clavifrons*, *E. unifasciatus*, *E. variegatus*, *E. voxencollinus*, *Filieupodes paradoxus*, *Linopodes antennaeipes*, *L. motatorius*
- Holland** (Oudemans, 1906; Thor & Willmann, 1941) – *Eupodes milvinus*, *E. viridis*, *Prottereunethes striatellus*

- Hungary** (Dudich et al., 1940) – *Linopodes motatorius*
- Iceland** (Sellnick, 1940) – *Eupodes variegatus*, *Linopodes motatorius*
- Surtsey** (Lindroth, Andersson, Bödvarsson & Richter, 1973) – *Cocceupodes clavifrons*, *Eupodes hiemalis*, *E. variegatus*, *Linopodes motatorius*
- Ireland** (Halbert, 1915, 1920) – *Eupodes variegatus* var. *halophilus*
- Italy (contin.)**(Canestrini, 1886; Thor, 1934, Thor & Willmann, 1941; Bottazzi, 1950)
– *Cocceupodes mollicellus* (= *clavifrons*), *Eupodes fusifer*, *E. iconicus*, *E. milvinus*, *E. vallombrosae*, *E. variegatus*, *Linopodes antennaepes*, *L. eupodoides*, *L. motatorius*
- Sicily** (Berlese, 1923) – *Protereunetes agilis*
- Norway** (Thor, 1912, 1934a, 1934c; Thor & Willmann, 1941) – *Cocceupodes mollicellus* (= *curviclava*), *Eupodes pseudoclavifrons*, *E. decoloratus*, *E. hjartdaliae*, *E. skiaaki*, *E. variegatus*, *E. voxencollinus*, *Linopodes motatorius*
- Svalbard (Spitzbergen)**(Oudemans, 1926; Thor, 1934b, 1934c) – *Eupodes clavifrons*, *Protereunetes boernerii*
- Poland** (Jesionowska, 2005, 2006, 2007a, 2007b, 2008, 2010; Szudarek-Trepto, Kaźmierski, Dabert et al., 2020) – *Claveupodes* sp., *Cocceupodes longisolenidiatus*, *Filieupodes filiformis*, *F. filistellatus*, *Eupodes voxencollinus*, *Xerophiles ereynetoidalis*
- Romania** (Ivan et al., 2016) – *Eupodes* sp.
- Russia (cont.)**
- Crimea** (Khaustov, 2014, 2015, 2017) – *Echinoeupodes echinus*, *Pseudeupodes porosus*, *Pseudopenthaeus tauricus*
- Slovakia** (Jesionowska, 2003) - *Xerophiles ereynetoidalis*
- Spain (cont.)**(Mihelčič, 1958b; Santamaria et al., 2012) - *Cocceupodes* sp., *Benoinyssus ereynetoides*, *E. valombrosae*, *E. variegatus*, *Linopodes motatorius*
- Sweden** (Thor & Willmann, 1941; Sellnick, 1958) - *Eupodes milvinus*, *E. variegatus*
- Switzerland** (Haller, 1880; Schweizer, 1922; Cooreman, 1954, 1959, Schweizer & Bader, 1963) – *Eupodes berlesei*, *E. haltica*, *E. vallombrosae*, *Linopodes eupodoides*, *L. motatorius*

AFRICA

- Angola** (Meyer & Ryke, 1960; Olivier & Theron, 1997a, 1998) – *Benoinyssus celatus*, *B. ornatus*, *Eupodes parafusifer*
- Botswana** (Olivier & Theron, 1997a; 1998) - *Benoinyssus serratus*, *Eupodes minipulus*
- Cabo Verde** (Olivier & Theron, 1998) - *Eupodes minipulus*
- Egypt** (Trägårdh, 1904; Abou-Awad, 1984: 333; Abou-Awad & El-Bagouri, 1984, 1986; Abou-Awad, El-Sawaf & Abdel-Khalek, 2006) – *Benoinyssus momenii*, *Cocceupodes sharkiensis*, *Filieupodes aegyptiacus*, *F. strandtmanni*, *Eupodes bakeri*, *E. momenii*, *E. niloticus*, *E. strandtmanni*, *E. temperatus*, *E. zaheri*, *Linopodes barnufi*, *L. curtipes*
- Ivory Coast** - *Eupodes sigmoidensis*
- Namibia** (Olivier & Theron, 1997a) - *Benoinyssus serratus*
- Rwanda** (Fain, 1958, 1959) – *Benoinyssus najae*

South Africa (Thor, 1934c; Meyer & Ryke, 1960; Olivier & Theron, 1997a, 1997b, 1998, 2003) – *Benoinyssus falcatus*, *B. ornatus*, *B. pusillus*, *B. serratus*, *C. gracilongus*, *Eupodes acanthus*, *E. fusiferellus*, *E. hamatus*, *E. indentatus*, *E. lutatus*, *E. minipilus*, *E. parafusifer*, *E. variegatus*, *Filieupodes fusiformis*

Swaziland (Olivier & Theron, 1997a) – *Benoinyssus ornatus*, *B. serratus*

Zimbabwe (Olivier & Theron, 1998) – *Eupodes minipulus*

“East Africa” (Berlese, 1916) – “*Linopodes agitatorius*”

ASIA

China (Hagstrum et al., 2013) – *Eupodes voxencollinus*

India (Ghosh & Gupta, 2003; Gupta et al., 2004, Indranil et al., 2011) – *Eupodes sigmoidensis*

Indonesia (Corpuz-Raros, 2005) – *Eupodes pusillus* [Java]

Iran (Darbemamieh, Hajiqanbar & Khanjani, 2013) – *Benoinyssus* sp., *Claveupodes* sp., *Cocceupodes* sp., *Eupodes crozetensis*, *E. sigmoidensis*, *E. voxencollinus*, *Linopodes antennaepes*, *L. cameronensis*

Israel and Palestina (Lipkin & Safriel, 1971) – *Eupodes variegatus* var. *halophila*

Japan (Karsch, 1881; Morikawa, 1963; Shiba, 1969a, 1969c, 1971, 1978) – *Cocceupodes communis*, *Echinoeupodes turgidus*, *Eupodes cordiformis*, *E. infirmus*, *E. longisetatus*, *E. okinoshimaensis*, *Linopodes iwatensis*, *L. pubescens*, *Prottereunetes perforates*, *P. villosus*, *Pseudopenthaeus ciliatus*

Malaysia (Shiba, 1976) – *Eupodes berensis*, *E. lumbarus*, *E. onoi*, *E. pasohensis*, *E. pusillus*, *E. pseudolumbarus*, *Linopodes cameronensis*

Philippines (Corpuz-Raros, 2005) – *Eupodes callejae*, *E. garciai*, *E. onoi*, *E. pusillus*, *E. pseudolumbarus*

Singapore (Corpuz-Raros, 2005) – *Eupodes onoi*

United Arab Emirates (Negm, 2014) – *Eupodes* sp.

Uzbekistan (Barilo, 1991; Khaustov, 2016) – *Niveupodes nivalis*

Yemen (Ueckermann et al., 2006) – *Eupodes* sp.

NORTH AMERICA

Canada (Miller, 1925; Behan, 1978; Moseley, 2007; Beaulieu et al., 2019 – 13 sp.) – *Eupodes voxencollinus*, *Linopodes antennaepes*

Mexico (Baker, 1945) – *Benoinyssus tuberculatus*

USA (Banks, 1894; 1896; 1897, 1907; 1916; Miller, 1925; Thor, 1934) – *Eupodes brevipes*, *E. marinus*, *Linopodes antennaepes*

Alaska (Strandtmann, 1971) – *Cocceupodes breweri*, *Eupodes alaskanensis*, *E. voxencollinus*, *Filieupodes shepardii*, *Prottereunetes boernerii*

Hawaii (Strandtmann & Goff, 1978) – *Eupodes hawaiiensis*, *E. sigmoidensis*, *E. voxencollinus*

SOUTH and CENTRAL AMERICA

Argentina (Bedano, 2004) – 1 sp.

Brazil (Bizarro et al., 2020) – *Benoinyssus oconnori*

Costa Rica (Baker & Lindquist, 2002) – *Aethosolenia laselvensis*

OCEANIA

Australia (continent)(Clancy, 1981) - *Linopodes* sp.

New Zealand (Spain & Luxton, 1971; Martin, 1983; Luxton, 1990) – *Claveupodes delicatulus*, *Linopodes* spp., *Eupodes minutus*,

Campbell Island (Strandtmann, 1964) - *Eupodes longisetatus*

Macquarie Island (Womersley, 1937; Luxton, 1990) – *Eupodes minutus*

ANTARCTICA

Antarctic Continent (Strandtmann & Womersley, 1963; Strandtmann, 1967; Strandtmann & Davies, 1972; Gless, 1972; Strandtmann & Sømme, 1977; Marshall & Pugh, 1996; Llano & Gless, 2013) – *Eupodes angardi*, *E. winsnesi*, *E. wisei*

South Georgia (Strandtmann, 1970) – *Eupodes minutus*

South-Orkney-Islands (Booth, Edwards & Usher, 1985) – *Eupodes exiguus*, *E. parvus*

South Shetland Islands (Strandtmann & Tilbrook, 1968) – *Cocceupodes australis*

SUB-ANTARCTIC

Crozet Islands (Strandtmann & Davies, 1972) – *Eupodes crozetensis*, *E. riedli*, Possession I.

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The Mite Family Dendrochaetidae Olivier

Dendrochaetidae Olivier, 2008: 16

The family contains so far only one genus and species (*Dendrochaetus acarus* Olivier) from South Africa. These mites live in the soil.

Catalogue of Dendrochaetidae

Fam. **Dendrochaetidae** Olivier

Dendrochaetidae Olivier, 2008: 16

Type genus: *Dendrochaetus* Olivier, 2009 [repl. name for *Dendrodus* Olivier, 2008, praeocc.]

Genus ***Dendrochaetus*** Olivier

Dendrodus Olivier, 2008: 19 (praeocc.)

Dendrochaetus Olivier, 2009: 68

Type species: *Dendrochaetus acarus* Olivier, 2009 [for *Dendrodus acarus* Olivier, 2008]

Dendrochaetus acarus (Olivier)

Dendrodus acarus Olivier, 2008: 19

Dendrochaetus acarus (Olivier): Olivier, 2009: 68

Type locality: South Africa

Distribution: South Africa

Index of Dendrochaetidae

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acarus, Dendrodus 71

Dendrochaetidae 71

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Distribution of Dendrochaetidae

AFRICA

South Africa (Olivier, 2008, 2009) – *Dendrochaetus* [*Dendrodus*] *acarus*

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The Mite Family Rhagidiidae Oudemans

Rhagidiidae Oudemans, 1922: 83

The Rhagidiids are soft bodied, predaceous soil mites. Thorell (1872) described the genus *Rhagidia* and Cambridge (1876) described from the far away Kerguelen Island another genus – *Poecilophysis*. Described by Oudemans (1922), the family Rhagidiidae has been studied until 1980 by several researchers (C.L. Koch, Canestrini, Thorell, Berlese, Banks, Hull, Sig Thor, Trägårdh, Willmann, Elliot, Strandtmann, Ehrnstberger, Abou-Awad and El-Bagoury, Womersley, Morikawa, Shiba, Baltac, Halliday, Khaustov, and others). The first review of the family (Thor & Willmann, 1941) contained three genera, 37 certain and 8 uncertain species and five “varieties”. R.W. Strandtmann tried to distinguish some more reliable diagnostic characters, but only the world revision of the family (Zacharda, 1980) achieved the modern system of the family. From the 20 genera present in the monograph Zacharda described 16 as new and from 74 species 35 were described as new.

In the 40 years elapsed since this monograph have been described the new genera *Krantzia* Zaharda, 1983, *Neothoria* Abou-Awad et El-Bagoury, 1986 *Lindquistula* Zacharda, 1986, *Kouchibouguacia* Zacharda, 1986, *Arhagidia* Lindquist et Zacharda, 1987, *Dongnaia* Zacharda, 1994, *Janes* Jesionowska, 2002, *Paracrassoscheles* Khaustov, 2015 and several new subgenera and species. Now (September 2021) the family Rhagidiidae comprises 28 genera and 150 species of whitish mites, living in the soil and often in caves.

Composition of fam. Rhagidiidae

Family **Rhagidiidae** Oudemans, 1922 - 28 gen., 150 sp.

Arctorhagidia Zacharda, 1980 - 2 sp.

Arhagidia Lindquist et Zacharda, 1987 - 1 sp.

Brevipalpia Zacharda, 1980 - 1 sp.

Coccorhagidia Sig Thor, 1934 - 8 sp.

Crassocheles Zacharda, 1980 - 2 sp.

Elliotta Zacharda, 1980 - 1 sp.

Eskimaia Zacharda, 1980 - 1 sp.

Evadorhagidia Zacharda, 1980 - 4 sp.

Flabellorhagidia Elliott, 1976 - 1 sp.

Foveacheles Zacharda, 1980 - 33 sp.

Foveacheles Zacharda, 1980 - 11 sp.

Hirschmannetta Zacharda, 1980 - 1 sp.

Mediostella Zacharda, 1980 - 5 sp.

Propriorhagidia Zacharda, 1980 - 2 sp.

Proxistella Zacharda, 1980 - 2 sp.

Spelaeocheles Zacharda, 1988 - 1 sp.

Ternirhagidia Zacharda, 1980 - 1 sp.

Trofocheles Zacharda, 1982 - 3 sp.

Usitorhagidia Zacharda, 1980 - 7 sp.

Hammenia Zacharda, 1980 - 1 sp.

Janes Jesionowska, 2002 - 1 sp.

Kouchibouguacia Zacharda, 1986 - 2 sp.

Latoempodia Zacharda, 1980 - 2 sp.

Lindquistula Zacharda, 1986 - 1 sp.

Neothoria Abou-Awad et El-Bagoury, 1986 - 2 sp.

Paracrassocheles Khaustov, 2015 - 1 sp.

Parallelorhagidia Zacharda, 1980 - 3 sp.

Poecilophysis Cambridge, 1876 - 16 sp.

Dentocheles Zacharda, 1980 - 5 sp.

Poecilophysis Cambridge, 1876 - 3 sp.

Procerocheles Zacharda, 1980 - 5 sp.

Soprocheles Zacharda, 1980 - 2 sp.

Wankelia Zacharda, 1980 - 1 sp.

Rhagidia Thorell, 1872 - 28 sp.

Austrorhagidia Zacharda, 1980 - 3 sp.

Deharvengiella Zacharda, 1987 - 3 sp.

Zachardaia Özdikmen, 2008 (= *Krantzia* Zacharda, 1983) - 1 sp.

Dongnaia Zacharda, 1994 – 1 sp.
Noerneria Canestrini, 1886 – 14 sp.
Rhagidia Thorell, 1872 - 7 sp.
Robustocheles Zacharda, 1980 - 19 sp.
Amoveocheles Zacharda, 1980 - 3 sp.
Lewia Zacharda, 1980 - 5 sp.
Mexia Zacharda, 1997 - 3 sp.
Robustocheles Zacharda, 1980 - 8 sp.
Shibaia Zacharda, 1980 - 6 sp.
Thoria Zacharda, 1980 - 2 sp.
Traegardhia Zacharda, 1980 - 10 sp.
Troglocheles Zacharda, 1980 - 10 sp.
Tuberostoma Zacharda, 1980 – 3 sp.

Catalogue of Rhagidiidae

Family **Rhagidiidae** Oudemans

Rhagidiidae Oudemans, 1922: 83

Type genus: *Rhagidia* Thorell, 1872

Genus ***Arctorhagidia*** Zacharda

Arctorhagidia Zacharda, 1980: 719

Type species: *Rhagidia mariehammerae* Strandtmann, 1971

Arctorhagidia mariehammerae (Strandtmann)

Rhagidia mariehammerae Strandtmann, 1971: 113

Arctorhagidia mariehammerae (Strandtmann): Zacharda, 1980: 719

Type locality: Alaska, Cape Beaufort

Distribution: USA (Alaska)

Arctorhagidia sateri (Strandtmann)

Coccorhagidia sateri Strandtmann, 1971: 95

Arctorhagidia sateri (Strandtmann): Zacharda, 1980: 721

Type locality: Alaska, Barrow

Distribution: USA (Alaska)

Genus ***Arhagidia*** Lindquist et Zacharda

Arhagidia Lindquist et Zacharda, 1987: 2149

Type species: *Arhagidia monothrix* Zacharda, 1987

Arhagidia monothrix Lindquist et Zacharda*Arhagidia monothrix* Lindquist & Zacharda, 1987: 2156

Type locality: Jornada ecological research site of the Chihuahuan Desert in southern New Mexico

Distribution: USA (New Mexico)

Genus ***Brevipalpia*** Zacharda*Brevipalpia* Zacharda, 1980: 712Type species: *Brevipalpia minima* Zacharda, 1980***Brevipalpia minima*** Zacharda*Brevipalpia minima* Zacharda, 1980: 712; 2012; Zacharda & Daniel, 1988: 58; Darbemamieh, Hajiqanbar & Khanjani, 2013: 455

Type locality: Bohemia centr., Závist-Knoll near Zbraslav

Distribution: Czech Republic, Iran, Nepal

Genus ***Coccorhagidia*** Sig Thor*Coccorhagidia* Sig Thor, 1934: 318Type species: *Nörneria clavifrons* Canestrini, 1886***Coccorhagidia clavifrons*** (Canestrini)*Nörneria clavifrons* Canestrini, 1886: 710*Rhagidia clavifrons*: Berlese, 1921: 90; Bedano, 2004? *Rhagidia mordax*: Willmann, 1936: 296*Coccorhagidia clavifrons*: Sig Thor, 1934: 318; Dudich et al., 1940: 54; Thor & Willmann, 1941: 128; Willmann, 1951b: 143; Turk & Turk, 1952: 496; Macfadyen, 1954: 284; Haarløv, 1957: 27; Meyer & Ryke, 1960: 493; Shiba, 1969: 81; Strandtmann & Prasse, 1976: 13; Strandtmann & Goff, 1978: 143; Zacharda, 1980: 704; 2013; Abou-Awad, 1985: 258; Goff, 1987: 34; Qin, 1998: 300; Darbemamieh, Hajiqanbar & Khanjani, 2013: 455

Type locality: Doss (Tavon, Trento), Italy

Distribution: Argentina, Austria, Czech Republic, Denmark, Egypt, England, Germany, Hungary, Iran, Italy, Japan, Slovakia; Canada, Hawaii, South Africa, New Zealand, Yan Mayen I.

Coccorhagidia cubana Baltac*Coccorhagidia cubana* Baltac, 1977a: 197

Type locality: Cueva de México, Province de Camagüey

Distribution: Cuba

Coccorhagidia montana Bannova, Sarmanova et Zhuravleva

Coccorhagidia montana Bannova, Sarmanova & Zhuravleva, 1977: 59

Type locality: Romania

Distribution: Romania

Coccorhagidia divergens Mihelčič (sp. inquirend.)

Coccorhagidia divergens Mihelčič, 1957: 103

Type locality: Ötztaler Alpen: Hochfirst, Nivale Polsterpflanzen aus der O-Wand, ca. 3400 m.

Distribution: Austria

Coccorhagidia pittardi Strandtmann

Coccorhagidia pittardi Strandtmann, 1971: 98; Zacharda, 1980: 708; 2012: ; Zacharda & Daniel, 1988: 58; Darbemamieh, Hajiqaanbar & Khanjani, 2013: 455

Type locality: Alaska, Wainwright

Distribution: Slovakia, Tatra (2200-2367 m); Alaska, Iran, Nepal (3900 m),

Coccorhagidia semiclavifrons Shiba (sp. inquir.)

Coccorhagidia semiclavifrons Shiba, 1969: 83

Type locality: Shiga Heights, IBP Area

Distribution: Japan

Coccorhagidia subterranea (Berlese)

Rhagidia subterranea Berlese, 1905: 232

Coccorhagidia berlesei Thor & Willmann, 1941: 129 (as nom. nov. pro *Scyphius subterraneus* nom. nud. Absolon, 1899)

Coccorhagidia subterranea (Berlese): Evans, 1952: 666; Haarløv, 1957: 27

Type locality: Florence (Italy)

Distribution: Denmark, England, Italy

Genus ***Crassocheles*** Zacharda

Crassocheles Zacharda, 1980: 550

Type species: *Crassocheles muralis* Zacharda, 1980

Crassocheles muralis Zacharda

Crassocheles muralis Zacharda, 1980: 551

Type locality: Velký Berděz-Hill, Czech Republic

Distribution: Czech Republic

Crassocheles virgo Zacharda

Crassocheles virgo Zacharda, 1980: 554

Type locality: Provodin, Provodingké kameny, Czech Republic

Distribution: Czech Republic

Genus ***Elliotta*** Zacharda

Elliotta Zacharda, 1980: 597

Type species: *Flabellorhagidia howarthi* Elliott, 1976

Elliotta howarthi (Elliott)

Flabellorhagidia howarthi Elliott, 1976: 5-10

Elliotta howarthi: Zacharda, 1980: 597

Type locality: Klickitat Co., Washington, Cheese Cave, 2 km SW Trout Lake, USA

Distribution: USA (Washington, Hawaii, Idaho)

Genus ***Eskimaia*** Zacharda

Eskimaia Zacharda, 1980: 723

Type species: *Coccorhagidia capitata* Strandtmann, 1971

Eskimaia capitata (Strandtmann)

Coccorhagidia capitata Strandtmann, 1971: 98

Eskimaia capitata (Strandtmann): Zacharda, 1980: 723

Type locality: Alaska, Anaktuvik Pass, Brooks Range

Distribution: USA (Alaska)

Genus ***Evadorhagidia*** Zacharda

Evadorhagidia Zacharda, 1980: 725

Type species: *Evadorhagidia oblikensis* Zacharda, 1980

Evadorhagidia bezdezensis Zacharda

Evadorhagidia bezdezensis Zacharda, 1980: 734; Ružička, Hajer & Zacharda, 1995: 47

Type locality: Bohemia bor., Malý Bezděz-Hill

Distribution: Czech Republic

Evadorhagidia corcontica Zacharda

Evadorhagidia oblikensis corcontica Zacharda, 1993: 57

Evadorhagidia corcontica Zacharda:

Type locality: Krkonose Mts.

Distribution: Czech Republic

Evadorhagidia janetscheki (Willmann)

Rhagidia janetscheki Willmann, 1953: 218; Strandtmann, 1971: 103

Evadorhagidia janetscheki: Zacharda, 1980: 733

Type locality: Tyrol, the Zillertall Alps, Rossrücken, 3000 m
Distribution: Austria

Evadorhagidia oblikensis Zacharda

Evadorhagidia oblikensis Zacharda, 1980: 726

Type locality: Bohemia bor., Oblik-Hill near Louny

Distribution: Czech Republic

Evadorhagidia quinqueseta Zacharda

Evadorhagidia quinqueseta Zacharda, 1980: 731

Type locality: Canada, N.W. Territory, Atkinson Point

Distribution: Canada (N.W. Territory)

Evadorhagidia sp. – Sweden (Hippa et al., 1989: 61), Finland (Zacharda & Kučera, 2010: 5)

Genus ***Flabellorhagidia*** Elliott

Flabellorhagidia Elliott, 1976: 1

Type species: *Flabellorhagidia pecki* Elliott, 1976

Flabellorhagidia pecki Elliott

Flabellorhagidia pecki Elliott, 1976: 2; Zacharda, 1980: 657

Type locality: Butte Co., Idaho, Boy Scout Cave (lava)

Distribution: USA (Idaho)

Genus ***Foveacheles*** Zacharda

Foveacheles Zacharda, 1980: 661

Type species: *Rhagidia osloensis* Sig Thor, 1934

Subgenus ***Achaetorhagidia*** Zacharda

Achaetorhagidia Zacharda, 1994: 36

Type species: *Foveacheles (Achaetorhagidia) tropica* Zacharda, 1994

Foveacheles (Achaetorhagidia) namcatiensis Zacharda

Foveacheles (Achaetorhagidia) namcatiensis Zacharda, 1994: 38

Type locality: Nam Cat Tien National Park, South Vietnam

Distribution: Vietnam

Foveacheles (Achaetorhagidia) tropica Zacharda

Foveacheles (Achaetorhagidia) tropica Zacharda, 1994: 44

Type locality: Nam Cat Tien National Park, South Vietnam

Distribution: Vietnam

Subgenus ***Foveacheles*** Zacharda

Foveacheles Zacharda, 1980: 661

Type species: *Rhagidia osloensis* Sig Thor, 1934

Foveacheles (Foveacheles) auricularia Zacharda et Elliott

Foveacheles (Foveacheles) auricularia Zacharda & Elliott, 1985: 468

Type locality: California

Distribution: USA

Foveacheles (Foveacheles) brevichelae Zacharda

Foveacheles (Foveacheles) brevichelae Zacharda, 1980: 666; 2012: ; Darbemamieh, Hajiqaanbar & Khanjani, 2013: 455; Zacharda & Kučera, 2010: 5

Type locality: Bohemia centr., Karlštejn

Distribution: Austria, Canada, Czech Republic, Finland, Iran, Russia

Foveacheles (Foveacheles) cannadasi Barranco et Amate

Foveacheles (Foveacheles) cannadasi Barranco & Amate, 2000: 15

Type locality: Cueva Larga, Sierra de los Filabres, Almeria

Distribution: Spain

Foveacheles (Foveacheles) caucasica Zacharda

Foveacheles (Foveacheles) caucasica Zacharda, 1983b: 305; 1993: 60

Type locality: Kabardino-Balkaria, Poljana Azau, 2 km W of Terskol, N-slope of Ceget Mt., 2600 m

Distribution: Czech Republic, Russia (Caucasus)

Foveacheles (Foveacheles) cegetensis Zacharda

Foveacheles (Foveacheles) cegetensis Zacharda, 1983b: 307; 1993: 60; Zacharda & Kučera, 2010: 5; Darbemamieh, Hajiqaanbar & Khanjani, 2013: 455

Type locality: Kabardino-Balkaria, Poljana Azau, 2 km W of Terskol, N-slope of Ceget Mt., 2600 – 2800 m

Distribution: Czech Republic, Finland, Iran, Russia (Caucasus)

Foveacheles (Foveacheles) gigantea Zacharda

Foveacheles (Foveacheles) gigantea Zacharda, 2000: 248

Type locality: Ceske Stredohori Mts,

Distribution: Czech Rep.

Foveacheles (Foveacheles) halltalensis Zacharda

Foveacheles (Foveacheles) halltalensis Zacharda, 2000: 253

Type locality: Northern Alps,
Distribution: Austria

***Foveacheles (Foveacheles) incognita* Zacharda**

Foveacheles (Foveacheles) incognita Zacharda, 1980: 670

Type locality: Patria incognita

Distribution: Patria incognita

***Foveacheles (Foveacheles) lemoni* Abou-Awad, El-Sawaf et Abdel-Khalek**

Foveacheles (Foveacheles) lemoni Abou-Awad, El-Sawaf & Abdel-Khalek, 2009: 147

Type locality: El - Kassasin, El – Sharkiya

Distribution: Egypt

***Foveacheles (Foveacheles) osloensis* (Sig Thor)**

Rhagidia osloensis Sig Thor, 1934: 314; Thor & Willmann, 1941: 120

Foveacheles (Foveacheles) osloensis: Zacharda, 1980: 662; Hippa et al., 1989: 61;

Darbemamieh, Hajiqaanbar & Khanjani, 2013: 455

Type locality: Norway

Distribution: Austria, Czech Republic, Germany, Iran, Norway, Sweden

***Foveacheles (Foveacheles) proxima* Zacharda**

Foveacheles (Foveacheles) proxima Zacharda, 2000: 258

Type locality: Northern Alps

Distribution: Austria

***Foveacheles (Foveacheles) thaleri* Zacharda**

Foveacheles (Foveacheles) thaleri Zacharda, 2010: 58

Type locality: Cedar Valley, Troodos

Distribution: Cyprus

Subgenus ***Hirschmannetta*** Zacharda

Hirschmannetta Zacharda, 1980: 694

Type species: *Foveacheles (Hirschmannetta) magna* Zacharda, 1980

***Foveacheles (Hirschmannetta) magna* Zacharda**

Foveacheles (Hirschmannetta) magna Zacharda, 1980: 695

Type locality: Harz, Bielshöhle Cave

Distribution: Germany

Subgenus ***Mediostella*** Zacharda

Mediostella Zacharda, 1980: 672

Type species: *Foveacheles (Mediostella) rupestris* Zacharda, 1980

Foveacheles (Mediostella) canestrini (Berlese et Trouessart)

Noerneria canestrini Berlese & Trouessart, 1889: 142

Rhagidia gigas var. *canestrini*: Thor & Willmann, 1941: 112

?*Rhagidia fragosa* Schuster, 1958: 95

Foveacheles (Mediostella) canestrini: Zacharda, 1980: 679

Type locality: Plage du Croisic (Loire Tufe)

Distribution: France

Foveacheles (Mediostella) pribilovi Zacharda

Foveacheles (Mediostella) pribilovi Zacharda, 1996: 344

Type locality: Alaska, Pribilof Islands, St. Paul's Island

Distribution: USA (Alaska)

Foveacheles (Mediostella) rupestris Zacharda

Foveacheles (Mediostella) rupestris Zacharda, 1980: 672

Type locality: the High Tatras, Koprovský štít, 2376 m

Distribution: Slovakia

Foveacheles (Mediostella) vancouverensis Zacharda

Foveacheles (Mediostella) vancouverensis Zacharda, 1986: 2542

Type locality: British Columbia, Vancouver Island, SE end of Long Beach

Distribution: Canada

Foveacheles (Mediostella) willmanni Zacharda

Foveacheles (Mediostella) willmanni Zacharda, 1980: 676

Type locality: Bösensteingipfel

Distribution: Austria

Subgenus ***Propriorhagidia*** Zacharda

Propriorhagidia Zacharda, 1980: 690

Type species: *Foveacheles (Propriorhagidia) mira* Zacharda, 1980

Foveacheles (Propriorhagidia) mira Zacharda

Foveacheles (Propriorhagidia) mira Zacharda, 1980: 690

Type locality: Wien

Distribution: Austria

Foveacheles (Propriorhagidia) tuktoyaktukensis* ZachardaFoveacheles (Propriorhagidia) tuktoyaktukensis* Zacharda, 1980: 692; 1985: 78

Type locality: Canada, N.W. Territory, Tuktoyaktut, Beaufort Sea

Distribution: Canada (N.W. Territory), USA

Subgenus ***Proxistella*** Zacharda*Proxistella* Zacharda, 1980: 700Type species: *Scyphius terricola* C. L. Koch, 1835***Foveacheles (Proxistella) simulata* Zacharda***Foveacheles (Proxistella) simulata* Zacharda, 2000: 106

Type locality: Berounka River Valley

Distribution: Czech Rep.

Foveacheles (Proxistella) terricola* (C. L. Koch)Scyphius terricola* C. L. Koch, 1835: Fasc. 1, 15*Scyphius terricolus* C. L. Koch, 1836: Heft 1, Nr 15*Rhagidia terricola*: Willmann, 1936: 294; 1954: 234; Thor, 1912: 235; Halbert, 1915: 110; Vitzthum, 1925: 153; Irk, 1939: 153; Thor & Willmann, 1941: 102; 1951: 146; Macfadyen, 1854: 284; Mihelčič, 1958: 102; Cooreman, 1959: 26; Schmölzer, 1962: 282; 1993: 59; Rack, 1974: 133;*Foveacheles (Proxistella) terricola* Zacharda, 1980: 701

Type locality: Germany

Distribution: Austria, Czech Rep., France, Germany, Norway, Switzerland, Yan Mayen I.

Subgenus ***Spelaeocheles*** Zacharda*Foveacheles (Spelaeocheles)* Zacharda, 1988: 75Type species: *Foveacheles (Spelaeocheles) troglodyta* Zacharda, 1988***Foveacheles (Spelaeocheles) troglodyta* Zacharda***Foveacheles (Spelaeocheles) troglodyta* Zacharda, 1988: 76

Type locality: East Slovakia, Stratenska vysočina

Distribution: Slovakia

Subgenus ***Ternirhagidia*** Zacharda*Ternirhagidia* Zacharda, 1980: 696Type species: *Foveacheles (Ternirhagidia) alpina* Zacharda, 1980***Foveacheles (Ternirhagidia) alpina* Zacharda***Foveacheles (Ternirhagidia) alpina* Zacharda, 1980: 697

Type locality: the Zillertall Alps, Tetterjoch, 3000 m, Schnoarzensteingipfel, 3320 m
 Distribution: Austria

***Foveacheles (Ternirhagidia) emendata* Zacharda**

Foveacheles (Ternirhagidia) emendata Zacharda, 1980: 699

Type locality: Patria incognita

Distribution: Patria incognita

Subgenus ***Trofocheles*** Zacharda

Trofocheles Zacharda, 1982: 275

Type species: *Foveacheles (Trofocheles) tenorioae* Zacharda, 1982

***Foveacheles (Trofocheles) goffi* Zacharda**

Foveacheles (Trofocheles) goffi Zacharda, 1982: 277

Type locality: Hawaii I., Kau Forest Es., Manu Cave, 2100 m

Distribution: USA (Hawaii)

***Foveacheles (Trofocheles) paralleloseta* Zacharda**

Foveacheles (Trofocheles) paralleloseta Zacharda, 1985: 77

Type locality: Sam Six Cave, 4 mi. W Wytheville, Wythe Co., Virginia

Distribution: USA (Virginia)

***Foveacheles (Trofocheles) tenorioae* Zacharda**

Foveacheles (Trofocheles) tenorioae Zacharda, 1982: 278

Type locality: Hawaii I., Hawaii Volcanoes Nat. Park, Kipuka Puaulu, Cave No 3

Distribution: USA (Hawaii)

Subgenus ***Usitorhagidia*** Zacharda

Usitorhagidia Zacharda, 1980: 682

Type species: *Rhagidia arenaria* Willmann, 1952

***Foveacheles (Usitorhagidia) arenaria* (Willmann)**

Rhagidia arenaria Willmann, 1952: 155; Ehrnsberger, 1977: 67

Foveacheles (Usitorhagidia) arenaria Zacharda, 1980: 682

Type locality: Germany, Wangerooge Islands

Distribution: Germany (Wangerooge Islands)

***Foveacheles (Usitorhagidia) bentonensis* Zacharda**

Foveacheles (Usitorhagidia) bentonensis Zacharda, 1983: 1000

Type locality: Oregon

Distribution: USA (Oregon)

Foveacheles (Usitorhagidia) clavacrinita (Ehrnsberger)

Rhagidia clavacrinita Ehrnsberger, 1977a: 95; 1977b: 67

Foveacheles (Usitorhagidia) clavacrinita Zacharda, 1980: 685

Type locality: Kiel, beach forest litter

Distribution: Germany

Foveacheles (Usitorhagidia) harzensis Zacharda

Foveacheles (Usitorhagidia) harzensis Zacharda, 1980: 688

Type locality: Harz, Einhornhöhle-Cave

Distribution: Germany

Foveacheles (Usitorhagidia) mexicana Zacharda

Foveacheles (Usitorhagidia) mexicana Zacharda, 1996: 350

Type locality: Mexico, 15 mi SW El Salto, Durango

Distribution: Mexico

Foveacheles (Usitorhagidia) titanica Zacharda et Elliott

Foveacheles (Usitorhagidia) titanica Zacharda & Elliott, 1985: 471

Type locality: California,

Distribution: USA (California)

Foveacheles (Usitorhagidia) unguiculata Zacharda

Foveacheles (Usitorhagidia) unguiculata Zacharda, 1994: 86

Type locality: North Tyrol, the Ötztal Alps, Pitztal, Wildgrat 2974 m

Distribution: Austria

Genus ***Hammenia*** Zacharda

Hammenia Zacharda, 1980: 760

Type species: *Hammenia macrostella* Zacharda, 1980

Hammenia macrostella Zacharda

Hammenia macrostella Zacharda, 1980: 760

Type locality: Bohemia bor., Velký Bezděz-Hill

Distribution: Czech Republic

Genus ***Janes*** Jesionowska

Janes Jesionowska, 2002: 174

Type species: *Janes rafalskii* Jesionowska, 2002

Janes rafalskii Jesionowska

Janes rafalskii Jesionowska, 2002: 174

Type locality: Poland

Distribution: Poland

Genus ***Kouchibouguacia*** Zacharda

Kouchibouguacia Zacharda, 1986: 2532

Type species: *Kouchibouguacia cryptosolenidiata* Zacharda, 1986

Kouchibouguacia cryptosolenidiata Zacharda

Kouchibouguacia cryptosolenidiata Zacharda, 1986: 2533

Type locality: New Brunswick, Kouchibouguac Nat. Park, Kollock Creek trail

Distribution: Canada

Kouchibouguacia transcendata Zacharda

Kouchibouguacia transcendata Zacharda, 1995: 589

Type locality: Canada, Ontario, St. Lawrence Islands Nat. Park, Grenadier Island

Distribution: Canada (Alberta, Ontario, New Brunswick), USA (New Mexico)

Genus ***Latoempodia*** Zacharda

Latoempodia Zacharda, 1980: 585

Type species: *Latoempodia macroempodiata* Zacharda, 1980

Latoempodia macroempodiata Zacharda

Latoempodia macroempodiata Zacharda, 1980: 585

Type locality: Oblik-Hill near Louny

Distribution: Czech Republic

Latoempodia similis Zacharda

Latoempodia similis Zacharda, 1980: 589

Type locality: the High Tatra, Mengusovská dolina Valley, 1730 m

Distribution: Slovakia

Genus ***Lindquistula*** Zacharda

Lindquistula Zacharda, 1986: 2531

Type species: *Lindquistula multisolenidiata* Zacharda, 1980

Lindquistula multisolenidiata Zacharda

Lindquistula multisolenidiata Zacharda, 1986: 2531

Type locality: Ontario, Pt. Pelee Nat. Park

Distribution: Canada

Genus ***Neothoria*** Abou-Awad et El-Bagoury

Neothoria Abou-Awad & El-Bagoury, 1986: 59

Type species: *Neothoria niloticus* Abou-Awad et El-Bagoury, 1986

Neothoria niloticus Abou-Awad et El-Bagoury

Neothoria niloticus Abou-Awad & El-Bagoury, 1986: 59

Type locality: Lower Egypt

Distribution: Egypt

Neothoria zacharda Abu-Awad

Neothoria zacharda Abu-Awad, 2010: 141

Type locality: Egypt

Distribution: Egypt

Genus ***Paracrassoscheles*** Khaustov

Paracrassoscheles Khaustov, 2015: 619

Type species: *Paracrassoscheles clavisetosus* Khaustov, 2015

Paracrassoscheles clavisetosus Khaustov

Paracrassoscheles clavisetosus Khaustov, 2015: 619

Type locality: Crimea

Distribution: Crimea

Genus ***Parallelorhagidia*** Zacharda

Parallelorhagidia Zacharda, 1980: 590

Type species: *Coccorhagidia evansi* Strandtmann et Prasse, 1976

Parallelorhagidia evansi (Strandtmann et Prasse)

Coccorhagidia evansi Strandtmann & Prasse, 1976: 12

Parallelorhagidia evansi (Strandtmann et Prasse): Zacharda, 1980: 591

Type locality: Etzsdorf/ Saalkreis (East Germany)

Distribution: Czech Republic, Germany

Parallelorhagidia hawaiiensis Zacharda

Parallelorhagidia hawaiiensis Zacharda, 1980: 594; Goff, 1987: 35

Type locality: Hawaii, Big Island

Distribution: USA (Hawaii)

Parallelorhagidia parva Zacharda

Parallelorhagidia parva Zacharda, 1986: 2538

Type locality: New Brunswick, Kouchibouguac Nat. Park, Kouchibouguac Campground

Distribution: Canada

Genus ***Poecilophysis*** Cambridge

Poecilophysis Cambridge, 1876: 261

Type species: *Poecilophysis kerguelensis* Cambridge, 1876

Subgenus ***Dentocheles*** Zacharda

Dentocheles Zacharda, 1980: 621

Type species: *Scyphius pratensis* C. L. Koch, 1835

Poecilophysis (Dentocheles) affinis Zacharda

Poecilophysis (Dentocheles) affinis Zacharda, 1983: 996

Type locality: Oregon, Coffin Butte

Distribution: USA (Oregon)

Poecilophysis (Dentocheles) extraneostella Zacharda

Poecilophysis (Dentocheles) extraneostella Zacharda, 1985: 73

Type locality: Bowling Cave near Ben Hur, Lee Co., Virginia

Distribution: USA (Virginia)

Poecilophysis (Dentocheles) melanoseta Zacharda et Elliot

Poecilophysis (Dentocheles) melanoseta Zacharda & Elliot, 1985: 646

Type locality: California

Distribution: USA (California)

Poecilophysis (Dentocheles) pratensis (C. L. Koch)

Scyphius pratensis C. L. Koch, 1835: fasc. 1, 14

Poecilophysis pratensis: Oudemans, 1905: 202; Goff, 1987: 35; Zacharda & Kučera, 2010: 5

Rhagidia pratensis: Willmann, 1932: 5; 1936: 229; 1951b: 143; 1954: 234; Sellnick, 1940: 31; Haarløv, 1957: 31; Cooreman, 1959: 20

Rhagidia japonica Morikawa, 1963: 15; Shiba, 1969: 76

Rhagidia whartoni Strandtmann, 1971: 107

Poecilophysis (Dentocheles) pratensis Zacharda, 1980: 621; 1983b: 312; 1985: 74

Type locality: Germany

Distribution: Alaska, Austria, Azerbaidzhan, Belgium, Czech Republic, Denmark, Finland, France, Germany, Hawaii, Iceland, Iran, Japan, Russia, Slovakia, Switzerland, USA

Poecilophysis (Dentocheles) wankeli (Zacharda)

Rhagidia reflexa (part.): Wankel, 1936: 301; 1953: 218

Rhagidia wankeli Zacharda, 1978: 226

Poecilophysis (D.) wankeli Zacharda, 1980: 630

Type locality: Moravia

Distribution: Czech Rep., Slovakia, Austria

Poecilophysis (Dentocheles) weyerensis (Packard)

Bryobia ? (or *Penthaleus* ?) *weyerensis* Packard, 1888: 42

Poecilophysis (D.) weyerensis Zacharda, 1980: 627; 1985: 74; Hippa et al., 1989: 61

Rhyncholophus cavernarum Packard, 1888: 42

Type locality: Augusta County, Virginia, Weyer's Cave, USA

Distribution: Sweden, USA

Subgenus ***Poecilophysis*** Cambridge

Poecilophysis Cambridge, 1876: 261; Zacharda, 1980: 601

Type species: *Poecilophysis kerguelenensis* Cambridge, 1876

Poecilophysis (P.) kerguelenensis Cambridge

Poecilophysis kerguelenensis Cambridge, 1876: 261

Rhagidia megalochela Trägårdh, 1907: 20

Rhagidia kerguelensis: André, 1947: 78

Rhagidia kerguelensis (part.): Strandtmann & Davies, 1972: 39

Poecilophysis (P.) kerguelenensis: Zacharda, 1980: 602

Type locality: Subantarctic region

Distribution: Possession I., Crozet I., Saint-Paul I., Kerguelen Islands,

Poecilophysis (P.) macquariensis (Womersley et Strandtmann)

Rhagidia macquariensis Womersley & Strandtmann, 1963: 465

Poecilophysis macquariensis Zacharda: Qin, 1998: 300

Poecilophysis (P.) macquariensis Zacharda, 1980: 606

Type locality: Macquarie Island

Distribution: Macquarie Island, Antarctica

Subgenus ***Procerocheles*** Zacharda

Procerocheles Zacharda, 1980: 609

Type species: *Rhagidia gelida faeroensis* Trägårdh, 1931

Poecilophysis (Procerocheles) faeroensis (Trägårdh)

Rhagidia gelida faeroensis Trägårdh, 1931: 42

Rhagidia reflexa Willmann, 1936: 300; Thor & Willmann, 1941: 104 (part.); Cooreman, 1959: 22

Poecilophysis (Procerocheles) faeroensis Zacharda, 1980: 609; Hippa et al., 1989: 61

Type locality: Faroe Isl., Thorshavn (Denmark)

Distribution: Denmark (Faroe Is.), Germany, Czech Republic, Iran, Slovakia, Switzerland

Poecilophysis (Procerocheles) oregonensis* ZachardaPoecilophysis (Procerocheles) oregonensis* Zacharda, 1983: 995

Type locality: Oregon, Washington Co.

Distribution: USA (Oregon)

Poecilophysis (Procerocheles) pseudoreflexa* ZachardaPoecilophysis (Procerocheles) pseudoreflexa* Zacharda, 1980: 614; 1983: 311; Hippa et al., 1989: 61; Zacharda & Kučera, 2010: 5

Type locality: Oblik-Hill near Louny (Czech Rep.)

Distribution: Canada, Czech Republic, Finland, Kirghizstan, Russia, Slovakia, Sweden

Poecilophysis (Procerocheles) recussa* (Sig Thor)Rhagidia recussa* Sig Thor, 1909: 14; Leruth, 1939: 412*Poecilophysis (Procerocheles) recussa* (Sig Thor): Zacharda, 1993: 52

Type locality: Shara-Ullah Mts., North Siberia

Distribution: Belgium, Czech Republic, Russia

Poecilophysis (Procerocheles) spelaea* (Wankel)Scyphius spelaeus* Wankel, 1861: 258*Rhagidia recussa* Sig Thor, 1909: 14 ?*Rhagidia spelaea* (Wankel): Willmann, in Thor & Willmann, 1941: 108; Willmann, 1954: 232*Poecilophysis (Procerocheles) spelaea*: Zacharda, 1980: 617; Zacharda & Kučera, 2010: 5Type locality of *Scyphius spelaeus*: MoraviaType locality of *Rhagidia recussa*: Shara-Ullah-Mountains, North Siberia

Distribution: Czech Republic, England, Finland, France, Germany, Belgium, Poland, Romania, Switzerland; Siberia ?

Subgenus *Soprocheles* Zacharda*Soprocheles* Zacharda, 1980: 634Type species: *Rhagidia saxonica* Willmann, 1934***Poecilophysis (Soprocheles) arena* Zacharda***Scyphius elongatus*: Valle, 1955: 17, nec *Scyphius elongatus* C. L. Koch, 1838*Poecilophysis (Soprocheles) arena* Zacharda, 1980: 639

Type locality: Moravia Mer., Valtice

Distribution: Czech Republic, Iran, Italy, Hawaii

Poecilophysis (Soprocheles) saxonica* (Willmann)Rhagidia saxonica* Willmann, 1934: 306; 1936: 297? *Coccorhagidia semiclavifrons* Shiba, 1969: 83*Rhagidia shibai* Strandtmann, 1971: 111

Poecilophysis (Soprocheles) saxonica: Zacharda, 1980: 635; 1983b: 312

Poecilophysis saxonica: Zacharda & Daniel, 1988: 58; Zacharda & Kučera, 2010: 5

Type locality: Leipzig, Anwald b. Dölitz (Germany)

Distribution: Czech Republic, Finland, Germany, Nepal (3900 m), Slovakia, Kirghizstan

Subgenus ***Wankelia*** Zacharda

Wankelia Zacharda, 1980: 642

Type species: *Rhagidia reflexa wolmsdorfensis* Willmann, 1936

Poecilophysis (Wankelia) wolmsdorfensis (Willmann)

Rhagidia terricola longipes: Pax, Maschke, 1935: 13

Rhagidia wolmsdorfensis: Willmann, 1941: 53; Willmann, 1954: 232; Baltac, 1973: 167

Rhagidia reflexa wolmsdorfensis Willmann, 1936: 302

Poecilophysis (Wankelia) wolmsdorfensis: Zacharda, 1980: 642; 1985: 74

Type locality: Wolmsdorf, Germany

Distribution: Czech Republic, Germany, Poland, Romania, USA, “Yugoslavia”

Genus ***Rhagidia*** Thorell

Megamerus Dugès, 1834: 50, 53 (nec *Megamerus* W.S. Mac Leay, 1827)

Scyphius C. L. Koch, 1835: fasc. 1, 14

Rhagidia Thorell, 1872: 700; Zacharda, 1980: 558

Nörneria Canestrini, 1886: 697

Scyphioides Berlese, 1886: 16, nom. nov. for *Scyphius* C. L. Koch nec Risso

Scyphoides Banks, 1900: 31 (lapsus calami?)

Type species: *Rhagidia gelida* Thorell, 1872

Subgenus ***Austrorhagidia*** Zacharda

Austrorhagidia Zacharda, 1980: 560

Type species: *Rhagidia mildredae* Strandtmann, 1964

Rhagidia (Austrorhagidia) campbellensis Zacharda

Rhagidia mildredae (part.): Strandtmann, 1964: 157-160

Rhagidia campbellensis Zacharda: Qin, 1998: 300

Rhagidia (Austrorhagidia) campbellensis Zacharda, 1980: 563

Type locality: Auckland I.

Distribution: Auckland I.

Rhagidia (Austrorhagidia) gerlachei Trouessart

Rhagidia gigas gerlachei Trouessart, 1903: 4-5

Rhagidia gerlachei Trouessart: Womersley & Strandtmann, 1963: 460; Strandtmann, 1967: 65; 1970: 98

Rhagidia (Austrorhagidia) gerlachei Zacharda, 1980: 563

Type locality: Antarctica, Détroit de Gerlache, South Georgia

Distribution: Antarctica (South Georgia)

***Rhagidia (Austrorhagidia) mildredae* Strandtmann**

Rhagidia mildredae Strandtmann, 1964: 157-160; Qin, 1998: 300

Rhagidia (Austrorhagidia) mildredae Zacharda, 1980: 561

Type locality: New Zealand, Beeman Hill, Campbell Island

Distribution: Subantarctic region (Auckland Is., Campbell I.)

Subgenus ***Deharvengiella*** Zacharda

Deharvengiella Zacharda, 1987: 2051

Type species: *Rhagidia (Deharvengiella) troglomorphica* Zacharda, 1987

***Rhagidia (Deharvengiella) paraleloseta* Zacharda**

Rhagidia (Deharvengiella) paraleloseta Zacharda, 2011: 669

Type locality: France

Distribution: France

***Rhagidia (Deharvengiella) serpentiforma* Zacharda**

Rhagidia (Deharvengiella) serpentiforma Zacharda, 2011: 672

Type locality:

Distribution:

***Rhagidia (Deharvengiella) troglomorphica* Zacharda**

Rhagidia (Deharvengiella) troglomorphica Zacharda, 1987: 2051

Type locality: the Pyrenees, Haute-Garonne, Couledoux, Grotte de la Buhadère

Distribution: France

Subgenus ***Dongnaia*** Zacharda

Dongnaia Zacharda, 1994: 49

Type species: *Dongnaia edaphica* Zacharda, 1994

***Rhagidia (Dongnaia) edaphica* Zacharda**

Rhagidia (Dongnaia) edaphica Zacharda, 1994: 51

Type locality: Nam Cat Tien National Park, South Vietnam

Distribution: Vietnam

Subgenus ***Noerneria*** Canestrini

Nörneria Canestrini, 1886: 708; Zacharda, 1980: 565

Type species: *Nörneria gigas* Canestrini, 1886

***Rhagidia (Noerneria) arizonensis* Zacharda**

Rhagidia (Noerneria) arizonensis Zacharda, 1995: 1259

Type locality: Arizona, Madera Canyon above Roundup Camp

Distribution: USA

***Rhagidia (Noerneria) breviseta* Zacharda**

Rhagidia breviseta Zacharda, 1995: 1248; Zacharda & Kučera, 2010: 5

Type locality: Quebec

Distribution: Canada, Finland

***Rhagidia (Noerneria) compressa* Zacharda**

Rhagidia (Noerneria) compressa Zacharda, 1986: 2538

Type locality: British Columbia, Domonion Lake

Distribution: Canada

***Rhagidia (Noerneria) distisolenidiata* Zacharda**

Rhagidia (Noerneria) distisolenidiata Zacharda, 1995: 1258

Type locality: New-Brunswick

Distribution: Canada

***Rhagidia (Noerneria) gigas* (Canestrini)**

Nörneria gigas Canestrini, 1886: 708 -709

Rhagidia gigas: Trägårdh, 1904b: 3; Hull, 1918: 34; Thor & Willmann, 1941: 111-112;
Ružička, Hajer & Zacharda, 1995: 47; Zacharda & Kučera, 2010: 5

Rhagidia intermedia Willmann, 1936: 293-294; 1951: 146; Haarløv, 1957: 27; Schmölzer, 1993: 59

Rhagidia danica Ehrnberger, 1977b: 95-100

Rhagidia carpatica Baltac, 1973: 168-171

Rhagidia (Nörneria) gigas Zacharda, 1980: 566

Type locality: Italy, Trentino

Distribution: Austria, Czech Republic, Denmark, Finland, Germany, Italy, Slovakia,

***Rhagidia (Noerneria) longiseta* Zacharda**

Rhagidia (Noerneria) longiseta Zacharda, 2000: 113; Zacharda & Kučera, 2010: 5

Type locality: Austria

Distribution: Austria, Finland

***Rhagidia (Noerneria) parvilobata* Zacharda**

Rhagidia (Noerneria) parvilobata Zacharda, 1995: 1252; Zacharda & Kučera, 2010: 5

Type locality: Quebec

Distribution: Canada, Finland

***Rhagidia (Noerneria) pasadenensis* Zacharda**

Rhagidia (Noerneria) pasadenensis Zacharda, 1986: 2535

Type locality: Newfoundland, Pasadena

Distribution: Canada

***Rhagidia (Noerneria) ponderosae* Zacharda**

Rhagidia (Noerneria) ponderosae Zacharda, 1983: 1000

Type locality: Baker Co., S Fork Forest Camp, 9 mi SW Unity

Distribution: USA (Oregon)

***Rhagidia (Noerneria) punkva* Zacharda**

Rhagidia (Noerneria) punkva Zacharda, 1980: 575; 1983b: 314

Type locality: Moravia, Skalni mlýn, Czech Republic

Distribution: Czech Republic, Russia (Siberia)

***Rhagidia (Noerneria) quadrisolenidiata* Zacharda**

Rhagidia (Noerneria) quadrisolenidiata Zacharda, 1995: 1262

Type locality: 53 mi north of Oaxaca, km 77, Oaxaca Highway 175, 3200 m

Distribution: Mexico

***Rhagidia (Noerneria) rackae* Zacharda**

Rhagidia (Noerneria) rackae Zacharda, 1980: 582; Zacharda & Daniel, 1988: 58

Type locality: Velký-Bezděz-Hill, Czech Republic

Distribution: Czech Republic, Nepal (3900 m)

***Rhagidia (Noerneria) ruseki* Zacharda**

Rhagidia (Noerneria) ruseki Zacharda, 1980: 578; Hippa et al., 1989: 61

Type locality: Oblik-Hill near Louny, Czech Republic

Distribution: Czech Republic, Sweden

***Rhagidia (Noerneria) varia* Zacharda**

Rhagidia (Noerneria) varia Zacharda, 1985: 68

Type locality: Butler Cave, N of Burnsville, Both Co., Virginia

Distribution: USA

Subgenus *Rhagidia* Thorell

Rhagidia Thorell, 1872: 700; Zacharda, 1980: 558

Type species: *Rhagidia gelida* Thorell, 1872

***Rhagidia (Rhagidia) comelicensis* Lombardini**

Rhagidia comelicensis Lombardini, 1962: 191

Type locality: Comelico (Alpi orientali)

Distribution: Italy

***Rhagidia crenata* Shiba**

Rhagidia crenata Shiba, 1969a: 77; Shiba, 1971a: 158; 1971b: 226

Type locality: Shiga Heights IBP Area

Distribution: Japan

***Rhagidia (Rhagidia) diversicolor* (C. L. Koch)**

Scyphius diversicolor C. L. Koch, 1838: fasc. 17, 22

Rhagidia diversicolor: Willmann, 1936: 297-298; 1954: 234; Cooreman, 1954: 10; 1959: 17; Zacharda & Kučera, 2010: 5

Rhagidia (Nörneria) diversicolor: Zacharda, 1980: 570

Rhagidia (Noerneria) diversicolor: Zacharda, 1985: 71

Type locality: France, Germany

Distribution: Czech Republic, Finland, Germany, Poland, Switzerland, USA

***Rhagidia (Rhagidia) gelida* Thorell**

Rhagidia gelida: Thorell, 1872: 701; Trägårdh, 1904: 44; Thor, 1912: 235; Banks, 1919: 11; Oudemans, 1926: 106; Sellnick, 1940: 31; Thor & Willmann, 1941: 109-111; Macfadyen, 1954: 284; Cooreman, 1959: 27 (var.); Strandtmann, 1971: 106-107; Seniczak et al., 2020: 1

Rhagidia (R.) gelida Zacharda, 1980: 559

Type locality: Norway, Beeren Eiland, Svalbard

Distribution: Canada, Czech Rep., Greenland, Yan Mayen I., Iceland, Norway, Russia, Spitzbergen, Switzerland, USA (Alaska)

***Rhagidia (Rhagidia) orghidani* Bannova, Sarmanova et Zhuravleva**

Rhagidia orghidani Bannova, Sarmanova & Zhuravleva, 1977: 57

Type locality: Romania

Distribution: Romania

***Rhagidia (Rhagidia) qaliubiensis* Abou-Awad, El-Sawaf et Abdel-Khalek**

Rhagidia (Rhagidia) qaliubiensis Abou-Awad, El-Sawaf & Abdel-Khalek, 2009: 150

Type locality: El-Kaliubiya region

Distribution: Egypt

***Rhagidia buettneri* Willmann**

Rhagidia buettneri Willmann, 1955: 209; Zacharda, 1980 (sp. inc. sed., "The holotype fragmentary, a tritonymph")

Type locality: SW Saxony, Brummeisenmoor

Distribution: Germany

***Rhagidia meyeræ* Halliday**

Rhagidia meyeræ Halliday, 2005: 42

Type locality: South Africa

Distribution: South Africa

***Rhagidia uenoi* Shiba**

Rhagidia uenoi Morikawa, 1963: 18; Shiba, 1971: 224

Type locality: Japan

Distribution: Japan

Genus *Robustocheles* Zacharda

Robustocheles Zacharda, 1980: 527

Type species: *Robustocheles mountana* Zacharda, 1980

Subgenus *Amoveocheles* Zacharda

Amoveocheles Zacharda, 1980: 540

Type species: *Robustocheles (Amoveocheles) tricuspidata* Zacharda, 1980

***Robustocheles (Amoveocheles) californiensis* Zacharda**

Robustocheles (Amoveocheles) californiensis Zacharda, 1986: 2535

Type locality: California, Albany

Distribution: USA (California)

***Robustocheles (A.) dentata* Zacharda**

Robustocheles (A.) dentata Zacharda, 1980: 543

Type locality: Prague, Czech Republic

Distribution: Czech Republic

***Robustocheles (A.) tricuspidata* Zacharda**

Robustocheles (A.) tricuspidata: Zacharda, 1980: 540

Type locality: Závist-Knoll near Zbraslav, Czech Republic

Distribution: Czech Republic

Subgenus *Lewia* Zacharda

Lewia Zacharda, 1980: 547

Type species: *Rhagidia hilli* Strandtmann, 1971

***Robustocheles (Lewia) hilli* (Strandtmann)**

Rhagidia hilli Strandtmann, 1971: 113

Rhagidia grahami Elliott, 1976: 11-14

Robustocheles (Lewia) hilli Zacharda, 1980: 547; 1985: 79

Type locality of *Rhagidia hilli*: Alaska, Fairbanks

Type locality of *Rhagidia grahami*: Unita Co., Little Brush Creek Cave, Utah
Distribution: Canada, N-W Territorium, Bathurst I.; USA

***Robustocheles (Lewia) lacustris* Zacharda**

Robustocheles (Lewia) lacustris Zacharda, 1997: 1090

Type locality: Cypress Hills Provincial Park (Alberta – Saskatchewan)

Distribution: Canada

***Robustocheles (Lewia) obscuritata* Zacharda**

Robustocheles (Lewia) obscuritata Zacharda, 1997: 1094; Zacharda & Kučera, 2010: 5

Type locality: Gaspésie Provincial Park (Quebec)

Distribution: Canada, Finland

***Robustocheles (Lewia) spinaea* Zacharda**

Robustocheles (Lewia) spinaea Zacharda, 1997: 1094

Type locality: 20 m SE Gallup, New Mexico

Distribution: USA

Subgenus ***Mexia*** Zacharda

Mexia Zacharda, 1997: 1084

Type species: *Robustocheles (Mexia) longichelae* Zacharda, 1996

***Robustocheles (Mexia) longichelae* Zacharda**

Robustocheles (Mexia) longichelae Zacharda, 1997: 1085

Type locality: Chiapas, 7 m S El Bosque

Distribution: Mexico

***Robustocheles (Mexia) occulta* Zacharda et Pugsley**

Robustocheles (Mexia) occulta Zacharda & Pugsley, 1988: 646

Type locality: Alberta (Banff Nat. Park, Castleguard Cave); Iowa, Washington

Distribution: Canada, USA

Subgenus ***Robustocheles*** Zacharda

Robustocheles Zacharda, 1980: 528

Type species: *Robustocheles montana* Zacharda, 1980

***Robustocheles (R.) deltacus* Abou-Awad, El-Sawat et Abdel-Khalek**

Robustocheles (R.) deltacus Abou-Awad, El-Sawat & Abdel-Khalek, 2009: 145

Type locality: Ain Shams Univ., El Qalubiya

Distribution: Egypt

Robustocheles (R.) hamedanensis* ZachardaRobustocheles hamedanensis* Zacharda, 2012: 31

Type locality: Hamedan-Shokriyeh

Distribution: Iran

Robustocheles (R.) montana* ZachardaRobustocheles (R.) montana* Zacharda, 1980: 529

Type locality: Velká Fatra-Mountains, Černý Kameň, Slovakia

Distribution: Germany, Slovakia

Robustocheles (R.) mucronata* (Willmann)Rhagidia mucronata* Willmann, 1936: 297; 1951b: 143; Sellnick, 1940: 31; Evans, 1952: 666; Cooreman, 1954: 10; Haarløv, 1957: 31; Strandtmann & Prasse, 1977: 14*Robustocheles (R.) mucronata* (Willmann): Zacharda, 1980: 532; Abou-Awad, 1985: 258; Zacharda & Kučera, 2010: 5; Darbemamieh, Hajiqanbar & Khanjani, 2013: 456*Rhagidia neoshibai* Shiba, 1976: 132; syn.: Zacharda, 1984: 870*Robustocheles mucronata* (Willmann): Zacharda, 1994: 53

Type locality: Nuremberg, Germany

Distribution: Brazil, Corsica, Czech Republic, Denmark, Egypt, England, Finland, Germany, Iceland, Iran, Poland, Russia (Caucasus), Slovakia, Thailand, USA (Alaska), Vietnam

Robustocheles (R.) pascuaria* ZachardaRobustocheles (R.) pascuaria* Zacharda, 1997: 1076

Type locality: Cypress Hills Provincial Park

Distribution: Canada

Robustocheles (R.) robusta* ZachardaRhagidia mordax grandis* Willmann, 1935: 28; 1936: 296; Cooreman, 1959: 19; Leruth, 1939: 411*Robustocheles (R.) robusta* Zacharda, 1980: 537

Type locality: Czech Republic, Oblik Hill

Distribution: Belgium, Germany, Czech Republic, Switzerland

Robustocheles (R.) similis* ZachardaRobustocheles (R.) similis* Zacharda, 1997: 1080

Type locality: Nova Scotia, Cape Breton Highlands

National Park, Paquettes Lake Trail

Distribution: Canada

Genus ***Shibaia*** Zacharda

Shibaia Zacharda, 1980: 737

Type species: *Rhagidia longisensilla* Shiba, 1969

Shibaia coreaensis Zacharda

Rhagidia coreaensis Shiba, 1969: 608

Shibaia coreaensis Zacharda, 1980: 742; 1985: 598

Type locality: Samsheong-gun, Kangweon-do, Yongyeon-gul Cave near Yongyeon-gog, Changseong-eub

Distribution: South Korea

Shibaia heteropoda (Berlese)

Rhagidia heteropoda Berlese, 1910: 243

Rhagidia longisensilla Shiba, 1969a: 79; Baltac, 1974: 37

Type locality: “in muscis Etruriae”, Toiano, Piza

Distribution: Italy, Japan, Romania

Shibaia longisensilla (Shiba)

Rhagidia longisensilla Shiba, 1969: 79; 1969b: 608; Strandtmann, 1971: 104; ? Elliott & Strandtmann, 1971: 475; Baltac, 1974: 41; Strandtmann & Goff, 1978: 135; Goff, 1987: 35; Darbemamieh, Hajiqaanbar & Khanjani, 2013: 456

Shibaia longisensilla Zacharda, 1980: 738; Zacharda & Daniel, 1988: 58

Shibaia longicornis (Shiba, 1959) - Iran

Type locality: Japan

Distribution: Austria (3133 m), Czech Republic; Germany, Iran, Japan, Alaska, Hawaii, Korea, Nepal (3900 m)

Shibaia shereefi Abou-Awad

Shibaia shereefi Abou-Awad, 1985: 253

Type locality: Giza region

Distribution: Egypt

Shibaia spiraesolenidiata Zacharda

Shibaia spiraesolenidiata Zacharda, 1995: 594

Type locality: Nova Scotia, Kejim Kujuk Nat. Park

Distribution: Canada

Shibaia tatrica Zacharda

Shibaia tatrica Zacharda, 1980: 744

Type locality: High-Tatras, Mlynická dolina, 1450 m

Distribution: Slovakia

Genus ***Thoria*** Zacharda

Thoria Zacharda, 1980: 747

Type species: *Thoria brevisensilla* Zacharda, 1980

Thoria brevisensilla Zacharda

Rhagidia uniseta: Strandtmann, 1971: 105 (not *R. uniseta* Sig Thor, 1909)

Thoria brevisensilla Zacharda, 1980: 748; Goff, 1987: 35

Type locality: Bohemia bor., Oblik-Hill near Luny

Distribution: Czech Republic, Hawaii

Thoria uniseta s. l. (Sig Thor)

Rhagidia uniseta Sig Thor, 1909: 10; 1912: 236; Sellnick, 1940: 31; Thor & Willmann, 1941: 117; Mihelčič, 1958a: 103; Strandtmann, 1971: 105; Schmölzer, 1993: 59;

?*Rhagidia crassipes* Schweizer & Bader, 1963: 246

Thoria uniseta Zacharda, 1980: 752; Zacharda & Kučera, 2010: 5

Type locality: Norway

Distribution: Alaska, Austria, Czech Republic, Finland, Iceland, Norway, Switzerland

Genus ***Traegaardhia*** Zacharda

Traegaardhia Zacharda, 1980: 715

Type species: *Rhagidia dalmatina* Willmann, 1939

Traegaardhia cavernarum Zacharda

Traegaardhia cavernarum Zacharda, 2010: 26

Type locality: Buso del Marmo Cave (1202 V/BL), Quero (Belluno), Massiccio del Monte Grappa, Veneto, Italy (340 m)

Distribution: Italy

Traegaardhia cavernicola Zacharda

Traegaardhia cavernicola Zacharda, 2010: 13

Type locality: Grotte Vecchia Diga Cave, Barcis (Pordenone), Monte Cavallo mountain range, the Stubai Alps, Friuli

Distribution: Italy

Traegaardhia dalmatina (Willmann)

Rhagidia dalmatina Willmann, 1939: 244; 1951: 146; Mihelčič, 1958a: 103; 1958c: 38; Strandtmann, 1971: 103

? *Rhagidia gigas* var. *longipes* Trägårdh, 1912: 608

? *Rhagidia longipes*: Cooreman, 1959: 18

Rhagidia terricola var. *longipes* (Trägårdh): Verhoeff, 1912: 155

Traegaardhia dalmatina Zacharda, 1980: 715

Type locality: Croatia, Dalmatia, cave near Krivošije

Distribution: Austria, Croatia, ?Germany, France, Spain

***Traegaardhia distosolenidia* Zacharda**

Traegaardhia distosolenidia Zacharda, 2010: 36; Çetin et al., 2021: 232

Type locality: Arcugnano (Vicenza), the Monti Berici Mts, Veneto

Distribution: Italy, Turkey

***Traegaardhia gracilis* Zacharda**

Traegaardhia gracilis Zacharda, 2010: 31

Type locality: the Boia valley, Valdagno(Vicenza), the Lessinian Mts, Venetia

Distribution: Italy

***Traegaardhia holsingeri* (Zacharda)**

Foveacheles (Mediostella) holsingeri Zacharda, 1980: 677

Foveacheles cf. *holsingeri*: Zacharda, 1985: 78

Traegaardhia holsingeri (Zacharda): Zacharda et al., 2010: 45

Type locality: Kentucky, Mammoth Cave

Distribution: USA

***Traegaardhia nasuta* Zacharda**

Traegaardhia nasuta Zacharda, 2010: 21

Type locality: Buso dei Zambon Cave, San Pietro di Feletto (Treviso), the Hills of Conegliano, Veneto, northeastern Italy

Distribution: Italy

***Traegaardhia similis* Zacharda**

Traegaardhia similis Zacharda, 2010: 40

Type locality: Toney Bend Mine No. 2, Marion Co., Arkansas

Distribution: Italy

***Traegaardhia subterranea* Zacharda**

Traegaardhia subterranea Zacharda, 2010: 52

Type locality: Amarcord Cave (6391 V/VI), Valdagno (Vicenza), Lessinian Mts

Distribution: Italy

***Traegaardhia vicenzaensis* Zacharda**

Traegaardhia vicenzaensis Zacharda, 1994b: 93

Type locality: Veneto, M. Lessini, Torrebelvicino (Vicenza); quota 386 in a cave, Buso del Monte Naro

Distribution: Italy

Genus ***Troglocheles*** Zacharda

Troglocheles Zacharda, 1980: 646

Type species: *Rhagidia strasseri* Willmann, 1932

Troglocheles aggerata Zacharda

Troglocheles aggerata Zacharda, 2000: 472

Type locality: Tyrol, Oetztal Alps, Obergurgl

Distribution: Austria

Troglocheles archetypica Zacharda

Troglocheles archetypica Zacharda, 2000: 464

Type locality: Tyrol, Oetztal Alps, Obergurgl

Distribution: Austria

Troglocheles christiani Zacharda, Isaia et Piva

Troglocheles christiani Zacharda, Isaia & Piva, 2011: 656

Type locality: Türkenloch Cave near Kleinzell, 721 m

Distribution: Austria

Troglocheles gineti (Cooreman)

Rhagidia gineti Cooreman, 1959: 23; Strandtmann, 1971: 103; Dobat, 1976

?*Rhagidia conciana* Lombardini, 1951: 247

Troglocheles gineti: Zacharda, 1980: 655

Type locality: Ain, Grotte de la Buire

Distribution: France, Germany, Switzerland

Troglocheles lanai Zacharda, Isaia et Piva

Troglocheles lanai Zacharda, Isaia & Piva, 2011: 649

Type locality: Vallone dell'Infernotto

Distribution: Italy

Troglocheles odontochela (Turk)(species dubia)

Rhagidia odontochela Turk, 1972: 190

Troglocheles odontochela (Turk): Zacharda, 1984: 869

Type locality: England

Distribution: England

Troglocheles quinquesolenidiata Zacharda, Isaia et Piva

Troglocheles quinquesolenidiata Zacharda, Isaia & Piva, 2011: 643

Type locality: Buso Brutto Cave, 918 m

Distribution: Italy

Troglocheles strasseri (Willmann)

Rhagidia strasseri Willmann, 1932: 3; Thor & Willmann, 1941: 119; Mihelčič, 1958; Cooreman, 1954: 11; 1959: 22

Rhagidia gineti: Rack, 1974: 129, not *gineti* Cooreman

Troglocheles strasseri Zacharda, 1980: 650; 2000:

Type locality: shaft near Na Lazi, Tarnowaner Wald -Trnovski Gozd-Forest, Slovenia (lectotype)

Distribution: Austria, France, Slovenia, Switzerland

Troglocheles strasseri tirolensis Willmann

Rhagidia strasseri tirolensis Willmann (unpubl.); Zacharda, 1980: 650

Type locality: Austria, the Kaisergebirge-Mts., Estendorfer Schacht-shaft

Distribution: Austria

Troglocheles vandeli Zacharda

Troglocheles vandeli Zacharda, 1987: 2052

Type locality: The Pyrenees, Haute-Garonne, Herran, Trou Mille

Distribution: France

Troglocheles vornatscheri (Willmann)

Rhagidia vornatscheri Willmann, 1953: 218

Troglocheles vornatscheri Zacharda, 1980: 653; 2000:

Type locality: Austria, Herdengelhöhle Cave

Distribution: Austria

Genus ***Tuberostoma*** Zacharda

Tuberostoma Zacharda, 1980: 763

Type species: *Coccorhagidia gressitti* Womersley et Strandtmann, 1963

Tuberostoma gressitti (Womersley et Strandtmann)

Coccorhagidia gressitti Womersley & Strandtmann, 1963: 467; Strandtmann, 1967: 66

Tuberostoma gressitti (Womersley et Strandtmann): Zacharda, 1980: 764

Type locality: Antarctica, W.S.W. from Hallet Station

Distribution: Antarctica

Tuberostoma leechi (Strandtmann)

Rhagidia leechi Strandtmann, 1963: 463; Strandtmann, 1970: 100

Tuberostoma leechi (Strandtmann): Zacharda, 1980: 768

Type locality: Livingstone L, South Shetland Is., 62°42'S, by 60°26'W

Distribution: Antarctica, South Shetland, South Georgia

***Tuberostoma keithi* (Strandtmann)**

Coccorhagidia keithi Strandtmann, 1967: 67

Tuberostoma keithi (Strandtmann) Zacharda, 1980: 766

Type locality: Antarctica, Nunatak, 3 mi. NE, Mt. Mirray, Mowson Ge. area

Distribution: Antarctica

Genus ***Zachardaia*** Özdikmen

Krantzia Zacharda, 1983: 993 (nomen praeoccupatum)

Zachardaia Özdikmen, 2008: 220

Type species: *Krantzia quadriseta* Zacharda, 1983

***Zachardaia quadriseta* (Zacharda)**

Krantzia quadriseta Zacharda, 1983: 993

Type locality: Oregon, Jefferson Co., Camp Sherman

Distribution: USA

In the monograph of Zacharda (1980) are listed 48 species as «Species incertae sedis et inquirenda». Here is this list (shortly):

1. *Scyphius subterraneus* Absolon, 1899 - The type unknown.
2. *Rhagidia margaretae* Baltac, 1974 - Type not seen by Zacharda.
3. *Rhagidia strandtmanni* Baltac, 1976 - Type not seen by Zacharda.
4. *Rhagidia grandjeani* Baltac, 1976 - Type not seen by Zacharda.
5. *Rhagidia pallida* Banks, 1894 - The type unknown. Published also by Miller, 1925.
6. *Rhagidia cavicola* Banks, 1897 - The type unknown.
7. *Nörneria ? maxillata* Berlese, 1893 - Type not seen by Zacharda.
8. *Rhagidia subterranea* Berlese, 1905 - The type unknown.
9. *Rhagidia heteropoda* Berlese, 1910 - The type unknown.
10. *Megamerus fallax* Dugès, 1834 - The type unknown.
11. *Megamerus roseus* Dugès, 1834 - The type unknown. France.
12. *Rhagidia trisetata* Elliot et Strandtmann, 1971 - Type not seen by Zacharda.
13. *Rhagidia muscicola* Hull, 1918 - The type unknown. England.
14. *Scyphoides maxillatus* Karpeles, 1891 - The type unknown.
15. *Scyphius pyrrholeucus* Koch, 1838 - The type unknown.
16. *Scyphius cerinus* Koch, 1838 - The type unknown.
17. *Scyphius coarctatus* Koch, 1838 - The type unknown.
18. *Scyphius cylindricus* Koch, 1838 - The type unknown.
19. *Scyphius diaphanus* Koch, 1838 - The type unknown.
20. *Scyphius albellus* Koch, 1838 - The type unknown.
21. *Scyphius oblitteratus* Koch, 1838 - The type unknown.

22. *Scyphius elongatus* Koch, 1838 – The type unknown.
23. *Scyphius reflexus* Koch, 1838 – The type unknown.
24. *Scyphius hamatus* Kramer et Neuman, 1883 - The type unknown.
25. *Scyphius japonicus* Kramer et Neuman, 1883 - The type unknown.
26. *Nörneria cylindrica* Kramer, 1898 (nec *Scyphius cylindricus* Koch, 1838) - The type unknown.
27. *Gamasus halophilus* Laboulbene, 1851 - The type unknown.
28. *Rhagidia conciana* Lombardini, 1951 - The type unknown.
29. *Rhagidia comelicensus* Lombardini, 1962 - The type unknown.
30. *Rhagidia japonica* Morikawa, 1963 - Type not seen by Zacharda.
31. *Rhagidia mordax* Oudemans, 1906 - Type not seen by Zacharda.
32. *Rhagidia fragosa* Schuster, 1958 – The holotype unknown.
33. *Rhagidia raetica* Schweizer et Bader, 1963 - Type not seen by Zacharda.
34. *Rhagidia crassipes* Schweizer et Bader, 1963 - Type not seen by Zacharda.
35. *Coccorhagidia clavifrons* Shiba, 1969 - Type not seen by Zacharda.
36. *Coccorhagidia semiclavifrons* Shiba, 1969 - Type not seen by Zacharda.
37. *Rhagidia crenata* Shiba, 1969 - Type not seen by Zacharda.
38. *Scyphius maniacus* Stoll, 1890 - The type unknown.
39. *Rhagidia bidens* Sig Thor, 1909 - The type unknown.
40. *Rhagidia birulai* Sig Thor, 1909 - The type unknown. Yan Mayen I. (Macfadyen, 1954)
41. *Rhagidia megalochela* Trägårdh, 1907 - The type unknown.
42. *Rhagidia gigas* var. *longipes* Trägårdh, 1907 - The type unknown.
43. *Rhagidia mordax* var. *grandis* Willmann, 1936 - The type unknown.
44. *Rhagidia unidentata* Willmann, 1939 - The type unknown.
45. *Rhagidia dalmatina gigantea* Willmann, 1941 - The type unknown.
46. *Rhagidia paxi* Willmann, 1942 - The holotype fragmentary, probably a nymph.
47. *Rhagidia strouhali* Willmann, 1953 - The type unknown.
48. *Rhagidia pseudocrenata* Shiba, 1976 Malaysia Pasoh Forest Reserve

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Distribution of Rhagidiidae

EUROPE

Austria (Irk, 1939; Franz, 1943, 1954; Willmann, 1951a, 1951b, 1953; Janetschek, 1959, 1993; Mihelčič, 1957, 1958; Schmölzer, 1962, 1993; Zacharda, 1980, 1994, 2000d,

Zacharda, Isaia & Piva, 2011; Zacharda & Kučera, 2006) – *Coccorhagidia clavifrons*, *C. berlesei*, *C. divergens* (inquir.), *Evadorhagidia janetscheki*, *Foveacheles brevichelae*, *F. mira*, *F. osloensis*, *F. proxima*, *F. unguiculata*, *F. willmanni*, *Foveacheles* (*Proxistella*) *terricola*, *Foveacheles* (*Ternirhagidia*) *alpina*, *Poecilophysis* (*D.*) *pratensis*, *P. (D.) wankeli*, *Rhagidia gigas* (= *intermedia*), *R. longiseta*, *R. reflexa*, *Robustacheles mucronata*, *Shibaia longisensilla*, *Thoria uniseta*, *Traegaardhia dalmatina*, *Troglocheles aggerata*, *T. archetypica*, *T. christiani*, *T. strasseri*, *T. strasseri tirolensis*, *T. vornatscheri*,

Azerbaijan (Zacharda, 1983b) – *Poecilophysis* (*Dentacheles*) *pratensis*

Belgium (Leruth, 1939; Cooreman, 1943) – *Foveacheles terricola*, *Poecilophysis spelaea*, *Poecilophysis* (*Dentacheles*) *pratensis*, *Robustacheles* (*R.*) *robusta*,

Bulgaria (Turk, 1970) – *Poecilophysis spelaea*, *P. wolmsdorfensis*; *Inc. sedis*: *Rhagidia strouhali*

Croatia (Willmann, 1939; Zacharda, 1980) – *Traegaardhia dalmatina*

Czech Rep. (Wankel, 1861; Willmann, 1954; Zacharda, 1980, 1993, 2000d; Zacharda et al., 2005) – *Brevipalpia minima*, *Coccorhagidia clavifrons*, *Crassacheles muralis*, *C. virgo*, *Evadorhagidia bezdezensis*, *E. oblikensis*, *E. corcontica*, *Foveacheles osloensis*, *F. brevichelae*, *Foveacheles* (*Proxistella*) *terricola*, *F. (P.) simulate*, *Hammenia macrostella*, *Latoempodia macroempodiata*, *Poecilophysis arena*, *P. spelaea*, *P. pratensis*, *P. recussa*, *P. saxonica*, *P. wolmsdorfensis*, *P. (D.) wankeli*, *Rhagidia diversicolor*, *R. gelida*, *R. gigas*, *R. punkva*, *R. rackae*, *R. ruseki*, [*R. reflexa*], *Robustacheles mucronata*, *R. robusta*, *R. dentata*, *R. tricuspidata*, *Shibaia longisensilla*, *Thoria brevisensilla*, *Th. uniseta*, [*R. berlesei*]

Denmark (Haarløv, 1957) – *Coccorhagidia clavifrons*, *C. subterranea*, *Poecilophysis* (*Dentacheles*) *pratensis*, *Robustacheles mucronata*, *Rhagidia intermedia* (?)

Greenland (Trägårdh, 1904) – *Rhagidia gelida*

Faeroe Is. (Trägårdh, 1931) – *Poecilophysis faeroensis*

Yan Mayen I. (Macfadyen A. 1954) – *Coccorhagidia clavifrons*, *Rhagidia birulai*, *Rh. gelida*, *Rh. terricola*

Finland (Zacharda & Kučera, 2010) – *Rhagidia breviseta*, *Rh. diversicolor*, *Rh. gigas*, *Rh. longiseta*, *Rh. parvilobata*, *Poecilophysis pratensis*, *P. pseudoreflexa*, *P. spelaea*, *P. saxonica*, *Foveacheles brevichela*, *F. cegetensis*, *Robustacheles mucronata*, *R. obscuritata*, *Thoria uniseta*, *Evadorhagidia sp.*

France (contin.) (Berlese & Trouessart, 1889; Cooreman, 1954, 1959; Zacharda, 1980; 1987, Zacharda, Grafitti & Piva, 2011) – *Foveacheles canestrini*, *Foveacheles* (*Proxistella*) *terricola*, *Poecilophysis* (*Dentacheles*) *pratensis*, *P. spelaea*, *Rhagidia* (*Deharyengiella*) *troglocephala*, *Rhagidia* (*Noerneria*) *diversicolor*, *Rh. longipes*, *Traegaardhia dalmatina*, *Troglocheles gineti*, *T. strasseri*, *T. vandeli*, *Rh. halophila*

Corsica (Cooreman, 1954) – *Robustacheles mucronata*

Germany (C.L. Koch, 1835; Strandtmann & Prasse, 1977; Ehrnsberger, 1977a, 1977b; Willmann, 1934, 1955; Dobat, 1976; Zacharda, 1980) – *Coccorhagidia clavifrons*, *Foveacheles osloensis*, *F. magna*, *F. harzensis*, *F. clavacrinata*, *Poecilophysis faeroensis*, *P. (Dentacheles)* *pratensis*, *Rhagidia Buettneri*, *Rh. gigas* (= *danica*), *R. diversicolor*, *R.*

- clavicrinita*, *R. longipes*, *Robustoches montana*, *R. mucronata*, *R. robusta*, *Shibaia longisensilla*, *Parallelorhagidia evansi*, *Troglocheles gineti*
- Great Britain** (Hull, 1918; Evans, 1952; Turk & Turk, 1952; Turk, 1972) – *Coccorhagidia clavifrons*, *C. subterranea*, *Poecilophysys spelaea*, *Rhagidia gigas*, *Robustoches mucronata*, *Troglocheles odontochela*, “*Rhagidia vitzthumi*”, “*Rhagidia muscicola*”
- Hungary** (Dudich et al., 1940) – *Coccorhagidia clavifrons*
- Iceland** (Sellnick, 1940) – *Poecilophysys faeroensis* = *reflexa*, *P. mucronata*, *P. pratensis*, *P. recussa*, *Rhagidia birulai*, *Rh. gelida*, *Rh. terricola*, *Thoria uniseta*,
- Surtsey** (Lindroth, Andersson, Böldvarsson & Richter, 1973) – *Rhagidiidae*
- Ireland** (Halbert, 1915) – *Rhagidia halophila*, *Rh. terricola*
- Italy (contin.)** (Canestrini, 1886; Berlese, 1905, 1910; Bottazzi, 1950; Lombardini, 1962; Zacharda, 2010, 2011a, Zacharda, Grafitti & Piva, 2011; Zacharda, Isaia & Piva, 2011,) – *Rhagidia comelicensis*, *Rh. gigas*, *Coccorhagidia clavifrons*, *C. subterranea*, *Foveacheles terricola*, *Traegaardhia cavernarum*, *T. cavernicola*, *T. distosolenidia*, *T. gracilis*, *T. nasuta*, *T. subterranea*, *Troglocheles lanai*, *T. quinquesolenidiata*
- Sardinia** (Zacharda, Grafitti & Piva, 2011) –
- Norway** (Sig Thor, 1909, 1912, 1934; Hipa & Koponen, 1989; Hipa et al., 1989; Zacharda & Kučera, 2010) – *Foveacheles (F.) osloensis*, *Foveacheles (Proxistella) terricola*, *Poecilophysys spelaea*, *Thoria uniseta*
- Beeren Eiland** (Thorell, 1872) – *Rhagidia gelida*
- Spitzbergen (Svalbard)** (Thorell, 1971; Oudemans, 1926; Szeniczak et al., 2020) – *Rhagidia gelida*
- Poland** (Jesionowska, 2002) – *Janes rafalskii*, *Rhagidia diversicolor*, *Robustoches mucronata*
- Romania** (Cooreman, 1951; Baltac, 1973, 1974, 1976, 1977b; Bannova, Sarmanova, Zhuravleva, 1977) – *Coccorhagidia montana*, *Poecilophysys spelaea*, *P. wolmsdorfensis*, *Rhagidia longipes*, *Rh. orghidani*, *Rh. margaretae* (sp.inquir.), *Rh. strandtmanni* (sp.inquir.), *Rh. grandjeani* (sp.inquir.), *Shibaia heteropoda* (sub «*Rhagidia longisensilla*)
- Russia (all, continent.)** (Thor, 1909; Mac Lean, Behan & Fjellbeg, 1978; Zacharda, 1983b) – [*Rh. birulae* Thor] *Coccorhagidia clavifrons*, *C. pittardi*, *Evadorhagidia bezdezensis*, *Foveacheles (F.) brevichelae*, *F. (F.) caucasica*, *F. (F.) cegetensis*, *Poecilophysys (Proceroches) pseudoreflexa*, *Poecilophysys (Proceroches) recussa*, *P. (Sophrocheles) saxonica*, *P. (Dentoches) pratensis*, *Rhagidia (Noerneria) punkva*, *Thoria brevisensilla*, *Th. uniseta*
- Crimea** (Khaustov, 2015) – *Paracrassoches clavisetosus*
- Slovakia** (Zacharda, 1980; 1988; Zacharda & Kučera, 2006; Kalúz, 2017) – *Coccorhagidia clavifrons*, *C. pittardi*, *Foveacheles rupestris*, *Foveacheles (Spelaeoches) troglodyta*, *Latoempodia similis*, *Poecilophysys pratensis*, *P. saxonica*, *Poecilophysys (D.) wankeli*, *Robustoches montana*, *R. mucronata*, *Rhagidia gigas*, *Shibaia tatrica*
- Slovenia** (Willmann, 1932) – *Troglocheles strasseri*

Spain (cont.) (Mihelčič, 1958c; Barranco & Amate, 2000) - *Foveacheles cannadasi*, *F. terricola*, *Traegaardhia dalmatina*

Sweden (Hippa et al., 1989; Zacharda & Kučera, 2010) – *Evadorhagidia* sp., *Foveacheles osloensis*, *Poecilophysys faeroensis*, *P. pseudoreflexa*, *P. spelaea*, *P. weyerensis*, *Rhagidia gigas*, *Rh. ruseki*, *Robustacheles robusta*

Switzerland (Cooreman, 1954, 1959) – *Foveacheles (Proxistella) terricola*, *Poecilophysys (Procerocheles) faeroensis* (= *Rh. reflexa*), *Poecilophysys spelaea*, *Rhagidia diversicolor*, *Rh. gelida*, *Robustacheles (R.) robusta*, *Troglocheles gineti*, *T. strasseri*

Turkey (Çetin et al., 2021) – *Traegaardhia distosolenidia*

AFRICA

Egypt (Trägårdh, 1904b; Abou-Awad, 1985; Abou-Awad & El-Bagouri, 1986; Abou-Awad, El-Sawaf & Abdel-Khalek, 2009) - *Coccorhagidia clavifrons*, *Foveacheles (F.) lemoni*, *Neothoria niloticus*, *Robustacheles (R.) deltacus*, *R. (R.) mucronata*, *Shibaia shereefi*, *Thoria* sp., *Neothoria zacharda*, *Robustacheles (R.) deltacus*, *Rhagidia (R.) qualiubeinsis*

Nigeria – *Rhagidiidae* gen.sp.

South Africa (Meyer & Ryke, 1960) - *Coccorhagidia clavifrons*

ASIA

Cyprus (Zacharda, 2010) – *Foveacheles thaleri*

Iran (Zacharda et al., 2012; Darbemamieh, Hajiqanbar & Khanjani, 2013; Yazanpanah, Kazemi & Zacharda, 2014) – *Brevipalpia minima*, *Coccorhagidia clavifrons*; *C. pittardi*; *Foveacheles brevichelae*, *F. cegetensis*, *F. osloensis*, *Poecilophysys arena*, *P. faeroensis*, *P. pratensis*, *Rhagidia cf. breviseta*, *Robustacheles hamedanensis*, *R. mucronata*

Japan (Ehara, 1960; Morikawa, 1963; Shiba, 1969, 1971a, 1971b) – *Poecilophysys pratensis* (= *Rhagidia japonica* Morikawa), [*Rhagidia crenata*, *Rh. uenoi*], *Shibaia heteropoda* (= *longisensilla*)

Kirghizstan (Zacharda, 1983b) - *Poecilophysys (Procerocheles) pseudoreflexa*, *P. (Dentacheles) pratensis*, *P. (Sophrocheles) saxonica*, *Robustacheles mucronata*, *Thoria brevisensilla*

Korea (Shiba, 1969b; Zacharda, 1980) – *Shibaia coreanensis*,

Malaysia (Shiba, 1976) - *Rhagidia whartoni* = *Poecilophysys pratensis*, *Robustacheles (R.) mucronata* (sub *Rhagidia neoshibai*), *Rhagidia strandtmanni*, *Rh. pseudocrenata* (species inquirendae)

Nepal (Zacharda & Daniel, 1987) – *Brevipalpia minima*, *Coccorhagidia pittardi*, *Poecilophysys saxonica*, *Rhagidia rackae*, *Shibaia longisensilla*

Thailand (Zacharda, 1994c) – *Robustacheles mucronata*

Vietnam (Zacharda, 1994c) – *Foveacheles (Achaetorhagidia) namcatiensis*, *F. (A.) tropica*, *Rhagidia (Dongnaia) edaphica*, *Robustacheles mucronata*

NORTH AMERICA

Canada (Banks, 1919; Zacharda, 1980; 1985, 1986, 1995, 1997; Zacharda & Pugsley, 1988; Beaulieu et al., 2019) – *Coccorhagidia clavifrons*, *Evadorhagidia quinqueseta*,

Foveacheles arenaria, *F. brevichelae*, *F. tuktoaktukensis*, *Foveacheles* (*Mediostella*) *vancouverensis*, *Kouchibouguacia cryptosolenidiata*, *K. transcendata*, *Lindquistula multisolenidiata*, *Parallelorhagidia parva*, *Poecilophysis pseudoreflexa*, *Rhagidia gelida*, *Rhagidia* (*Noerneria*) *compressa*, *Rh.* (*N.*) *distisolenidiata*, *Rh.* (*N.*) *parvilobata*, *Rh.* (*N.*) *pasadenensis*, *Robustoches* (*Lewia*) *lacustris*, *R.* (*L.*) *obscuritata*, *R.* (*R.*) *similis*, *Robustoches* (*Mexia*) *occulta*, *R. pasquaria*, *Shibaia spiraesolenidiata*

Mexico (Elliott & Strandtmann, 1971; Zacharda & Elliott, 1986; Zacharda, 1995, 1997) – *Rhagidia* (*N.*) *quadrisolenidiata*, ?*Robustoches infernalis*, *R. longichelae*, ?*R. trisetatus*

USA (Banks, 1894, 1897, 1904; Call, 1897; Holsinger, 1965; Strandtmann, 1971; Elliott, 1976; Zacharda, 1980; 1983; 1985, 1986, 1995, 2010, 2011; Zacharda & Elliott, 1983; Lindquist & Zacharda, 1987; Zacharda et al., 2010) – *Arhagidia monothrix*, *Coccorhagidia clavifrons*, *Elliotta howarthi*, *Foveacheles bentonensis*, *Foveacheles* (*Trofocheles*) *paralleloseta*, *Foveacheles* (*Propriorhagidia*) *tuktoyaktukensis*, *Zachardaia quadriseta*, *Poecilophysis* (*Dentoches*) *affinis*, *P.* (*D.*) *extraneostella*, *P.* (*D.*) *pratensis*, *P.* (*D.*) *weyerensis*, *Poecilophysis* (*Proceroches*) *oregonensis*, *P. melanoseta*, *P. saxonica*, *P.* (*Wankelia*) *wolmsdorffensis*, *Rhagidia cavicola*, *Rh. diversicolor*, *Rh.* (*Noerneria*) *arizonensis*, *Rh.* (*Noerneria*) *ponderosae*, *R. varia*, *Robustoches* (*R.*) *pascuaria*, *Robustoches* (*Amoveoches*) *californiensis*, *Robustoches* (*Lewia*) *hilli*, *R. mucronata*, *Traegaardhia holsingeri*, *T. similis*

Alaska (Strandtmann, 1971; Zacharda, 1980, 1996; Zacharda & Elliott, 1985, Zacharda & Pugsley, 1988) – *Arctorhagidia mariehammerae*, *A. sateri*, *Coccorhagidia pittardi*, *Eskimaia capitata*, *Foveacheles pribilovi*, *Kouchibouguacia transcendata*, *Robustoches mucronata*, *R. hilli*, *R. occulta*, *Rhagidia gelida*, *Thoria uniseta* [*Rh. whartoni*, *Rh. shibai*]

Hawaii (Strandtmann & Goff, 1978; Zacharda, 1980; 1982; Goff, 1987) – *Coccorhagidia clavifrons*, *Elliotta howarthi*, *Foveacheles goffi*, *F. tenorioae*, *Parallelorhagidia hawaiiensis*

SOUTH and CENTRAL AMERICA

Argentina (Bedano, 2004) – *Coccorhagidia clavifrons*

Brazil – *Robustoches mucronata*

Chile (Kramer, 1898) – *Rhagidia krameri* Sig Thor, 1941 = *Nörneria cylindrica* Kramer, 1898

Cuba (Baltac, 1977a) – *Coccorhagidia cubana* (sp. inquir.)

Nicaragua (Maes et al., 1989) – *Robustoches* (*R.*) *mucronata*

OCEANIA

Australia (continent) (Wood, 1970, Qin, 1998) – *Rhagidia* sp.

New Zealand (Qin, 1998) – *Coccorhagidia clavifrons*

Macquarie Island (Womersley & Strandtmann, 1963; Luxton, 1990) – *Poecilophysis macquariensis*

Campbell Island (Strandtmann, 1964) – *Rhagidia mildredae*

ANTARCTICA

Antarctida (Trouessart, 1903; Zacharda, 1980) – *Rhagidia* (*Austrorhagidia*) *gerlachei*

Possession I. (Strandtmann & Davies, 1972) – *Poecilophysys kerguelensis*

South Georgia (Strandtmann, 1970) – *Rhagidia (Austrorhagidia) gerlachei*, *Tuberostoma leechi*

Patria incognita (Zacharda, 1980) – *Foveacheles emendata*

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The Mite Family Eriorhynchidae Qin et Halliday

Eriorhynchidae Qin & Halliday, 1997: 152

Small family of five Australian species, described by Womersley (1941) and Qin & Halliday (1997) and recently detached from the Penthalodidae.

Catalogue of fam. Eriorhynchidae

Family **Eriorhynchidae** Qin et Halliday

Eriorhynchidae Qin & Halliday, 1997: 152

Type genus: *Eriorhynchus* Qin et Halliday, 1997

Genus **Eriorhynchus** Qin et Halliday

Eriorhynchus Qin & Halliday, 1997: 153

Type species: *Eriorhynchus womersleyi* Qin et Halliday, 1997

Eriorhynchus australicus (Womersley)

Penthalodes australicus Womersley, 1941: 294

Eriorhynchus australicus (Womersley): Qin & Halliday, 1997: 103

Type locality: Victoria, Acheron Way

Distribution: Australia (Victoria)

Eriorhynchus hades Qin et Halliday

Eriorhynchus hades Qin & Halliday, 1997: 156

Type locality: Victoria, Rokewood Cemetery

Distribution: Australia (Victoria)

Eriorhynchus ramosus Qin et Halliday

Eriorhynchus ramosus Qin & Halliday, 1997: 157

Type locality: Tasmania, Big Sassy Creek

Distribution: Australia (Tasmania)

Eriorhynchus walteri Qin et Halliday

Eriorhynchus walteri Qin & Halliday, 1997: 161

Type locality: Miala Nat. Park, Brisbane

Distribution: Australia (Queensland)

Eriorhynchus womersleyi Qin et Halliday

Eriorhynchus womersleyi Qin & Halliday, 1997: 161

Type locality: New South Wales, 34.6 km south of Bombala

Distribution: Australia (N.S.Wales)

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Distribution of Eriorhynchidae

OCEANIA

Australia (continent) (Womersley, 1941; Qin Ting-Kui & Halliday, 1997) – *Eriorhynchus australicus*, *E. hades*, *E. waltheri*, *E. womersleyi*

Tasmania (Qin Ting-Kui & Halliday, 1997) – *Eriorhynchus ramosus*

Bibliography of Eriorhynchidae

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Womersley H. 1941. The red-legged earth-mite (Acarina, Penthaleidae) of Australia. – Transactions of the Royal Society of South Australia, **65**: 292 – 294.

The Mite Family Pentapalpidae Olivier et Theron

Pentapalpidae Olivier & Theron, 2000: 386

Small family of one known genus and species from South Africa.

Composition of fam. Pentapalpidae

Fam. **Pentapalpidae** Olivier et Theron, 2000 - 1 gen., 1 sp.

Pentapalpus Olivier et Theron, 2000 - 1 sp.

Catalogue of Pentapalpidae

Family **Pentapalpidae** Olivier et Theron

Pentapalpidae Olivier & Theron, 2000: 386

Type genus: *Pentapalpus* Olivier et Theron, 2000

Genus ***Pentapalpus*** Olivier et Theron

Pentapalpus Olivier & Theron, 2000: 386

Type species: *Pentapalpus unguempodius* Olivier et Theron, 2000

Pentapalpus unguempodius Olivier et Theron*Pentapalpus unguempodius* Olivier & Theron, 2000: 386

Type locality: Eastern Cape Province, soil, Summerstrand, Porth Elizabeth, 33.58S, 25.38E

Distribution: South Africa

Index of Pentapalpidae(Names in **bold** are accepted as valid)**Pentapalpidae** 124*Pentapalpus* 124*unguempodius*, ***Pentapalpus*** 125**Distribution of Pentapalpidae****AFRICA****South Africa** (Olivier & Theron, 2000) - *Pentapalpus unguempodius***Bibliography of Pentapalpidae**

Olivier P.A.S., P.D. Theron. 2000. Pentapalpidae, a new family of eupodoid mites (Prostigmata: Eupodoidea) from South Africa. – *Acarologia*, **40**(4), 1999: 385 – 392.

The Mite Family Penthhalodidae Thor

Penthhalodidae Sig Thor, 1933: 274

Small or medium-sized (330 – 1500 µm) strongly sclerotized mites living in soil or moss. Most (39) species are within the two “old” genera - *Penthhalodes* Murray, 1877 and *Stereotydeus* Berlese, 1901. Further contributions are due to Baker, Trägårdh, Khaustov, Mihelčič, Strandtmann, Goff, Qin, Thor, Jesionowska, Shiba, Womersley, Olivier, Trouesart, starting with Dugès (1834).

Composition of fam. PenthhalodidaeFamily **Penthhalodidae** Thor, 1933 - 5 gen., **44** sp.

Callipenthalodes Qin, 1998 – 1 sp.
Hawaiieupodes Strandtmann et Goff, 1978 – 1 sp.
Penthalodes Murray, 1877 - 10 sp.
Protopenthalodes Jesionowska, 1989 – 2 sp.
Stereotydeus Berlese, 1901 - 30 sp.

Catalogue of Penthalodidae

Family **Penthalodidae** Sig Thor

Penthalodidae Sig Thor, 1933: 272

Type genus: *Megamerus* Dugès, 1834 (nec McLeay, 1827), renamed *Penthalodes* Murray, 1877

Genus ***Callipenthalodes*** Qin

Callipenthalodes Qin, 1998: 221

Type species: *Callipenthalodes pennyae* Qin, 1998

Callipenthalodes pennyae Qin

Callipenthalodes pennyae Qin, 1998: 224

Type locality: New Zealand

Distribution: New Zealand

Genus ***Hawaiieupodes*** Strandtmann et Goff

Hawaiieupodes Strandtmann & Goff, 1978: 133

Type species: *Hawaiieupodes thermophilus* Strandtmann et Goff, 1978

Hawaiieupodes thermophilus Strandtmann et Goff

Hawaiieupodes thermophilus Strandtmann & Goff, 1978: 133; Jesionowska, 2010: 337

Type locality: Hawaii I., HVNP, Steaming Bluff Trail

Distribution: Hawaii

Genus ***Penthalodes*** Murray

Megamerus Dugès, 1834: 50 (nec McLeay, 1827)

Penthalodes Murray, 1877: 123

Type species: *Megamerus ovalis* Dugès, 1834

Penthalodes alaskaensis Jesionowska

Penthalodes alaskaensis Jesionowska, 2010: 31

Type locality: Alaska

Distribution: USA (Alaska)

Penthalodes boneti* BakerPenthalodes boneti* Baker, 1946: 424

Type locality: Desierto de los Leones, Vera Cruz

Distribution: Mexico

Penthalodes carinatus* ShibaPenthalodes carinatus* Shiba, 1978: 150

Type locality: Kuroki, Oozu, Ehime

Distribution: Japan

Penthalodes columbiae* (Berlese)Chromotydaeus columbiae* Berlese, 1921: 193*Penthalodes columbiae*: Thor & Willmann, 1941: 193; Strandtnann, 1979: 48

Type locality: "Columbia"

Distribution: North America

Penthalodes hawaiiensis* JesionowskaPenthalodes ovalis* sensu Strandtmann & Goff, 1978: 121*Penthalodes hawaiiensis* Jesionowska, 2010: 32

Type locality: Hawaii

Distribution: Hawaii

Penthalodes oregonensis* BakerPenthalodes oregonensis* Baker, 1946: 424

Type locality: Corvallis

Distribution: USA (Oregon)

Penthalodes ovalis* (Dugès)Megamerus ovalis* Dugès, 1834: 50; 1836: 518; Lucas, 1840: 472; 1850: 472*Trombidium ovale* Gervais, 1844: 170*Penthaleus ovatus*: C.L. Koch, fa. 18, t.14; Halbert, 1915: 111; Starkoff & Starkoff, 1950: 98*Penthalodes ovalis* (Dugès): Oudemans, 1905: 241; 1937: 861; Irk, 1939; Sellnick, 1940: 32; Thor & Willmann, 1941: 60; Willmann, 1951a: 147; 1951b: 142; 1954: 235; Macfadyen, 1954: 283; Bottazzi, 1950: 38; Haarløv, 1957: 30; Mihelčič, 1958a: 104; 1958b: 270; Strandtmann, 1971: 92; Strandtmann & Goff, 1978: 135; Schmölzer, 1962: 283; 1993: 59; Kaluz, 2000: 477*Chromotydaeus ovalis*: Berlese, 1903: 252*Chromotydaeus ovatus* (Koch): Sig Thor, 1912: 237; Halbert, 1920: 139*Penthaleus arcticus* Trägårdh, 1907: 18*Chromotydaeus arcticus* (Trägårdh): Summerhayes & Elton, 1928: 249

Type locality: Europe

Distribution: Alaska, Austria, Canada, Czech Rep., Denmark, Hawaii, Iceland, Ireland (*ovatus*), Italy, Slovakia, Spain, Svalbard, Turkey, Yan Mayen I.

Penthalodes ovasimilis Schweizer

Penthalodes ovasimilis Schweizer, 1951: 62

Type locality: Swiss Alps, many loc. at 2200 – 2850 m

Distribution: Switzerland

Penthalodes polonicus Jesionowska

Penthalodes polonicus Jesionowska, 2010: 32; Hajizadeh & Noei, 2012; Darbemamieh, Hajiqanbar & Khanjani, 2013: 455

Type locality: Zakopane, The Tatra Mountains Nat. Park (Poland)

Distribution: Iran, Poland

Penthalodes tristiculus (Koch et Berendt) - fossil

Penthaleus tristiculus Koch & Berendt, 1854: 108

Penthalodes tristiculus (Koch et Berendt): Dunlop et al., 2013

Type locality: amber

Distribution: amber

Penthalodes turneri Baker

Penthalodes turneri Baker, 1946: 425

Type locality: Stoddard County, Mo.

Distribution: USA (Missouri, South Carolina, Texas)

Genus ***Protopenthalodes*** Jesionowska

Protopenthalodes Jesionowska, 1989: 57

Type species: *Protopenthalodes* Jesionowska, 1989

Protopenthalodes coniunctus Jesionowska

Protopenthalodes coniunctus Jesionowska, 1989: 59

Type locality: Poland

Distribution: Poland

Protopenthalodes reticulatus Khaustov

Protopenthalodes reticulatus Khaustov, 2015: 139

Type locality: Yalta mountain – forest Nature Reserve

Distribution: Crimea

Genus ***Stereotydeus*** Berlese, in Berlese & Leonardi

Stereotydeus Berlese, in Berlese & Leonardi, 1901: 14

Type species: *Stereotydeus notophalloides* Leonardi, in Berlese & Leonardi 1901

Tectopenthalodes Trägårdh, 1907: 11 (syn. by Womersley, 1941)

Type species: *Penthaleus villosus* Trouessart, 1902

***Stereotydeus areolatus* Womersley**

Stereotydeus areolatus Womersley, 1935: 79; Thor & Willmann, 1941: 70; Strandtmann, 1979: 49; Qin, 1994: 1308; 1998: 299; Fredes, 2015: 33

Type locality: South Australia (Adelaide)

Distribution: Australia, Argentina

***Stereotydeus australicus* Thor**

Stereotydeus australicus Thor, 1934: 65; Thor & Willmann, 1941: 69; Strandtmann, 1979: 49; Qin, 1994: 1310; 1998: 299

Type locality: Western Australia, Crawley

Distribution: Australia

***Stereotydeus belli* (Trouessart)**

Penthaleus belli Trouessart, 1902: 225

Chromotydaeus belli: Thor & Willmann, 1941: 66

Stereotydeus belli (Trouessart): Womersley & Strandtmann, 1963: 458; Strandtmann, 1979: 49

Type locality: North Victoria Land

Distribution: Antarctica

***Stereotydeus brevipalpus* Qin**

Stereotydeus brevipalpus Qin, 1994: 1313; 1998: 299

Type locality: South Australia

Distribution: Australia

***Stereotydeus capensis* Womersley**

Stereotydeus capensis Womersley, 1935: 81

Type locality: Cape Province

Distribution: South Africa

***Stereotydeus delicatus* Strandtmann**

Stereotydeus delicatus Strandtmann, 1967: 63

Type locality: Balleny Is: Sabrina I.

Distribution: Antarctica

***Stereotydeus gamasoides* Leonardi**

Stereotydeus gamasoides Leonardi, 1901: 15

Type locality: Temuco

Distribution: Chile

Stereotydeus ineffabilis Brunetti et Siepel

Stereotydeus ineffabilis Brunetti & Siepel, 2021: 118

Type locality: Inexpressible Island

Distribution: Central Victoria Land, Continental Antarctica

Stereotydeus intermedius (Trouessart)

Penthalodes intermedius Trouessart, 1907: 35

Chromotydaeus intermedius (Trt.): Thor & Willmann, 1941: 66

Stereotydeus intermedius (Trouessart): Strandtmann, 1979: 50

Type locality: South Orkney Islands, Laurie Island

Distribution: Antarctica

Stereotydeus lattimorei Baker

Stereotydeus lattimorei Baker, 1946: 423

Type locality: Brownsville, Tx, from orchid roots from the Canal Zone

Distribution: Panama

Stereotydeus longipes Strandtmann

Stereotydeus longipes Strandtmann, 1970: 94

Type locality: South Georgia, Bird I., Wanderer Valley

Distribution: South Georgia (Subantarctic)

Stereotydeus mexicanus Baker

Stereotydeus mexicanus Baker, 1946: 422

Type locality: Patzcuaro, Michoacán, Mt. Popocatepetl (at 3000 m)

Distribution: Mexico

Stereotydeus meyeri Strandtmann

Stereotydeus meyeri Strandtmann, 1967: 63

Type locality: Enderby Land: Molodozhnaya

Distribution: Antarctica

Stereotydeus mollis Womersley et Strandtmann

Stereotydeus mollis Womersley & Strandtmann, 1963: 453; Wise, 1964: 522; Pittard, Robbers & Strandtmann, 1971: 88

Type locality: Observation Hill, Ross I.

Distribution: Antarctica, southern Victoria Land from about 74° to 79° S lat., Balleny Islands

***Stereotydeus notophalloides* Leonardi**

Stereotydeus notophalloides Leonardi, in Berlese & Leonardi, 1901: 15; Thor & Willmann, 1941: 69

Type locality: Temuco

Distribution: Chile

***Stereotydeus nudisetatus* Strandtmann**

Stereotydeus nudisetatus Strandtmann, 1964: 152; Qin, 1998: 299

Type locality: Campbell Island

Distribution: New Zealand (Campbell Island)

***Stereotydeus nunatakensis* Brunetti**

Stereotydeus nunatakensis Brunetti, 2021: 124

Type locality: Starr Nunatak

Distribution: South Victoria Land, Continental Antarctica

***Stereotydeus occidentalis* Womersley**

Stereotydeus occidentalis Womersley, 1935: 80; Strandtmann, 1964: 49; 1979: 49

Stereotydeus occidentalis Womersley: Thor & Willmann, 1941: 71; Qin, 1994: 1315; 1998: 299

Type locality: South Australia

Distribution: Australia

***Stereotydeus oregonensis* Baker**

Stereotydeus oregonensis Baker, 1946: 424

Type locality: Oregon, Corvallis

Distribution: USA

***Stereotydeus pallotus* Olivier**

Stereotydeus pallotus Olivier, 2006: 55

Type locality: Eastern Cape Province: soil, Hogsback near Alice

Distribution: South Africa

***Stereotydeus pseudopulcher* Qin**

Stereotydeus pseudopulcher Qin, 1994: 1318; 1998: 299

Type locality: Tasmania

Distribution: Australia (Tasmania)

***Stereotydeus pulcher* Strandtmann**

Stereotydeus pulcher Strandtmann, 1964: 154; Qin, 1998: 299

Type locality: Campbell Island

Distribution: New Zealand (Campbell Island)

***Stereotydeus punctatus* Strandtmann**

Stereotydeus punctatus Strandtmann, 1967: 62

Type locality: North Victoria Land: W side of Islands Point

Distribution: Antarctica

***Stereotydeus reticulatus* Strandtmann**

Stereotydeus reticulatus Strandtmann, 1970: 90

Type locality: South Georgia, Bird I., Macaroni Coulm, 200-230 m

Distribution: South Georgia

***Stereotydeus rupicolamartimus* Shiba**

Stereotydeus rupicolamartimus Shiba, 1976: 97

Type locality: Malaysia

Distribution: Malaysia

***Stereotydeus shoupi* Strandtmann**

Stereotydeus shoupi Strandtmann, 1967: 60

Type locality: Queen Maud Mts: Shackleton Glacier area: E side of Massam Glacier

Distribution: Antarctica

***Stereotydeus tasmanicus* Qin**

Stereotydeus tasmanicus Qin, 1994: 1320; 1998: 299

Type locality: Tasmania

Distribution: Australia (Tasmania)

***Stereotydeus undulatus* Strandtmann**

Stereotydeus undulatus Strandtmann, 1964: 150; Qin, 1998: 299

Type locality: Campbell Island

Distribution: New Zealand (Campbell Island)

***Stereotydeus vaginatus* Olivier**

Stereotydeus vaginatus Olivier, 2006: 55

Type locality: KwaZulu-Natal: soil, mouth of Tugela River

Distribution: South Africa

Stereotydeus villosus (Trouessart)*Penthaleus villosus* Trouessart, 1902: 227*Penthalodes villosus*, Trouessart, 1912: 86*Tectopenthalodes villosus* (Trouessart): Trägårdh, 1907: 18; Thor & Willmann, 1941: 71*Stereotydeus* (*Tectopenthalodes*) *villosus*: Berlese, 1917: 8*Stereotydeus villosus*: Womersley & Strandtmann, 1963: 457; Strandtmann, 1979: 50

Type locality: South Shetland Islands, South Orkney Islands, Antarctic Peninsula

Distribution: Antarctica

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EUROPE

Austria (Irk, 1939; Franz Beier, 1948; Franz, 1954; Willmann, 1951a; Mihelčić, 1958; Schmölzer, 1962, 1993) – *Penthalodes ovalis*

Bulgaria (Beron, 2011) – *Penthalodes ovalis*

Czech Rep. (Willmann, 1954) – *Penthalodes ovalis*

Denmark (Haarløv, 1957) – *Penthalodes ovalis*

Yan Mayen I. (Macfadyen, 1954) – *Penthalodes ovalis*

France (contin.) (Dugès, 1834; Kontschan et al., 2018) – *Penthalodes ovalis*, *Inc. sedis: Penthaleus inflatus*

Great Britain (Hull, 1918) – *Penthalodes ovalis*

Iceland (Sellnick, 1940) – *Penthalodes ovalis*

Ireland (Halbert, 1915) – *Penthalodes ovalis*

Italy (contin.) (Thor & Willmann, 1941; Bottazzi, 1950) – *Penthalodes ovalis*

Norway (Mehl, 1979) – *Penthalodes ovalis*

Svalbard (Spitzbergen) (Thor & Willmann, 1941) – *Penthalodes ovalis*

Poland (Jesionowska, 1989, 2010) – *Penthalodes polonicus*, *Protopenthalodes coniunctus*

Russia (all, continent.)

Crimea (Khaustov, 1915) – *Protopenthalodes reticulatus*

Slovakia (Kalúz, 2000) – *Penthalodes ovalis*

Spain (cont.) (Mihelčić, 1958b) – *Penthalodes ovalis*

Sweden (Strandtnann, 1979) – *Penthalodes ovalis*

Switzerland (Schweizer, 1951; Schweizer & Bader, 1963) – *Penthalodes ovalis*

Turkey (all) (Kalúz, 2000) – *Penthalodes ovalis*, *P. ovasimilis*

AFRICA

South Africa (Womersley, 1935; Olivier, 2006) – *Stereotydeus pallotus*, *S. vaginatus*

ASIA

Iran (Hajizadeh & Noei, 2012; Hajizadeh & Noei, 2012; Darbemamieh, Hajiqanbar & Khanjani, 2013) – *Penthalodes polonicus*

Japan (Shiba, 1978) – *Penthalodes carinatus*

Malaysia (Shiba, 1976) - *Stereotydeus rupicolamartimus*

NORTH AMERICA

Canada (Strandtmann, 1979; Behan, 1978; Beaulieu et al., 2019) – *Penthalodes ovalis*

Mexico (Baker, 1946) - *Penthalodes boneti*

USA (Baker, 1946) – *Penthalodes oregonensis*, *P. turneri*

Alaska (Strandtmann, 1971; Jesionowska, 2010) – *Penthalodes alascaensis*, *P. ovalis*

Hawaii (Strandtmann & Goff, 1978; Goff, 1983, 1987; Jesionowska, 2008, 2010) – *Hawai-ieupodes termophilus*, *Penthalodes hawaiiensis*, *P. ovalis*

SOUTH and CENTRAL AMERICA

Argentina (Fredes, 2015) – *Stereotydeus areolatus*

Chile (contin.) (Leonardi, 1901, 1903) – *Stereotydeus notophalloides*, *S. gamasoides*

Panama (Baker, 1946) - *Stereotydeus lattimorei*

OCEANIA

Australia (continent)(Womersley, 1935; Qin, 1994) – *Stereotydeus areolatus*, *S. australicus*, *S. brevipalpus*, *S. occidentalis*

Tasmania (Qin, 1994) – *Stereotydeus pseudopulcher*, *S. tasmanicus*

New Zealand (Qin, 1998) - *Callipenthalodes pennyae*

Campbell Island (Strandtmann, 1964) – *Stereotydeus nudisetatus*, *S. pulcher*, *S. undulatus*

ANTARCTICA

Antarctida (Trouessart, 1902; Womersley & Strandtmann, 1963; Strandtmann, 1967; Wise, 1964; Pittard, 1971; Pittard, Roberts & Strandtmann, 1971; Brunetti et al., 2021a, b) – *Stereotydeus belli*, *S. delicatus*, *S. meyeri*, *S. mollis*, *S. nunatakensis*, *S. punctatus*, *S. shoupi*, *S. villosus*

South Georgia (Strandtmann, 1970) – *Stereotydeus longipes*, *S. reticulatus*

South Shetland Islands – *Stereotydeus villosus*

South Orkney Islands (Trouessart, 1912) - *Stereotydeus villosus*

Inexpressible Island (Brunetti et al., 2021a) – *Stereotydeus ineffabilis*

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The Mite Family Penthaleidae Oudemans

Penthaleidae Oudemans, 1931: 252; Sig Thor, 1933: 2

Middle sized (800 – 1000 µm) mites, black with red legs, living on plants and sometimes pests on some agricultural crops.

Composition of fam. Penthaleidae

Family **Penthaleidae** - 7 gen., 27 sp.

Chromotydaeus Berlese, 1903 - 3 sp.

Halotydeus Berlese, 1891 - 8 sp.

Linopenthaleus Willmann, 1951 - 1 sp.

Linopenthaloidea Strandtmann, 1981 - 1 sp.

Penthaleus C.L. Koch, 1836 - 12 sp.

Propenthalodes Jesionowska, 1989 - 1 sp.

Turanopenthalodes Barilo, 1988 - 1 sp.

Catalogue of fam. Penthaleidae

Family **Penthaleidae** Oudemans

Penthaleidae Oudemans, 1931: 252

Type genus: *Penthaleus* C.L. Koch, 1836

Genus ***Chromotydaeus*** Berlese

Chromotydaeus Berlese, 1903: 252

Type species: *Penthaleus ovalis* (Dugès, 1834)

Chromotydaeus anauniensis (R. Canestrini)

Penthaleus anauniensis R. Canestrini, 1886: 720

Chromotydaeus anauniensis (R. Canestrini): Thor & Willmann, 1941: 65

Type locality: Trient, Dosso di Tavon

Distribution: Italy

Chromotydaeus egregius (Berlese)

Penthaleus egregius Berlese, 1891(1888?): 3; Starkoff & Starkoff, 1950: 98

Chromotydaeus egregius (Berlese): Berlese, 1903: 252

Type locality: Italy

Distribution: Italy

Chromotydaeus illustris (Berlese)

Penthaleus illustris Berlese, 1916: 294; Bernini et al., 1994-96: 34

Chromotydaeus illustris (Berlese): Thor & Willmann, 1941: 67

Type locality: Garden “Boboli”, Florence

Distribution: Italy

Chromotydaeus quartus Qin et Halliday

Chromotydaeus quartus Qin & Halliday, 1996: 1834

Type locality: Western Australia

Distribution: Australia

Chromotydaeus similis Mihelčič

Chromotydaeus similis Mihelčič, 1958a: 39

Type locality: Sierra Nevada

Distribution: Spain

Genus ***Halotydeus*** Berlese

NB. *Linopodes globosus* Canestrini, 1884 was listed under *Chromotydeus* by Thor & Willmann, 1941: 65, but under line was noted that it could belong also to the [still undescribed] genus *Linopenthaleus*.

Halotydeus Berlese, 1891: 9

Type species: *Notophallus hydrodromus* Berlese et Trouessart, 1889

Halotydeus anthropus Qin et Halliday

Halotydeus anthropus Qin & Halliday, 1996: 442

Type locality: South Africa

Distribution: South Africa

Halotydeus bakerae Qin et Halliday

Halotydeus egregius (Berlese, 1891) [syn. Baker 1996:373]

Halotydeus bakerae Qin & Halliday, 1996: 445

Type locality: South Australia

Distribution: Australia (South Australia)

Halotydeus castellus Qin et Halliday

Halotydeus castellus Qin & Halliday, 1996: 445

Type locality: New-South-Wales

Distribution: Australia (New-South-Wales)

Halotydeus destructor (R.W. Jack)

Penthaleus destructor R.W. Jack, 1908; Tucker, 1925: 21

Halotydeus destructor (Tucker): Womersley, 1933: 108; Thor & Willmann, 1941: 91; Macfadyen, 1954: 283; Meyer & Ryke, 1960: 489. Redescription, Qin & Halliday 1996: 447; Robinson & Hoffmann, 2001: 699; Maino, Binns & Umina, 2018: 216

Type locality: South Africa

Distribution: Australia, South Africa, Yan Mayen I. (? introduced)

Halotydeus hydrodromus (Berlese et Trouessart)

Notophallus hydrodromus Berlese & Trouessart, 1889: 141

Halotydeus hydrodromus (Berlese & Trouessart): Berlese, 1891: Fasc. 60, No10; Halbert, 1915: 111 (var. *albolineatus*), 1920: 139; Hull, 1918: 33; Thor & Willmann, 1941: 90

Type locality: France

Distribution: England, France, Ireland, Italy

Halotydeus mollis Luxton

Halotydeus mollis Luxton, 1990: 668

Type locality: Hong Kong, marine

Distribution: China (Hong Kong)

Halotydeus signiensis Strandtmann et Tilbrook

Halotydeus signiensis Strandtmann & Tilbrook, 1968: 54

Type locality: Robin Peak, Signy Island

Distribution: South Orkney Islands (Signy I.)

Halotydeus spectatus Qin et Halliday

Halotydeus spectatus Qin & Halliday, 1996: 449

Type locality: New-South-Wales

Distribution: Australia (New-South-Wales)

Genus ***Linopenthaleus*** Willmann

Genus *Linopenthaleus* Willmann, 1951a: 159

Type species: *Linopenthaleus irki* Willmann, 1951

Linopenthaleus irki Willmann

Linopenthaleus irki Willmann, 1951a: 160; Schweizer & Bader, 1963: 220

Type locality: Grossglockner area (Austria)

Distribution: Austria, Switzerland

Genus ***Linopenthaloides*** Strandtmann*Linopenthaloides* Strandtmann, 1981: 392Type species: *Linopenthaloides novazealandicus* Strandtmann, 1981***Linopenthaloides novazealandicus*** Strandtmann*Linopenthaloides novazealandicus* Strandtmann, 1981: 392

Type locality: N.Z., South I.: W coast, Charleton, ex Metro Cave, Ananui catchement

Distribution: New Zealand

Genus ***Penthaleus*** C.L. Koch*Penthaleus* C.L. Koch, 1836: fa.1, t.12 and 13Type species: *Penthaleus haematopus* C.L. Koch, 1836 = *P. maior* (Dugès)*Notophallus* Canestrini, 1886: 697***Penthaleus arcticus*** Trägårdh*Penthaleus arcticus* Trägårdh, 1901: 19

Type locality: Bären Island

Distribution: Norway

Penthaleus bipustulatus (Hermann)*Trombidium bipustulatum* Hermann, 1804: 40*Penthaleus bipustulatus* (Hermann): C.L. Koch, 1838: fa.18, t.7; Macfadyen, 1954: 283*Penthaleus bipustulatum* (Hermann): Oudemans, 1937: 852

Type locality: France

Distribution: France, Germany, Yan Mayen I.

Penthaleus crinitus Narayan*Penthaleus crinitus* Narayan, 1957: 111

Type locality: Mexico

Distribution: Mexico

Penthaleus dorsalis (Banks)*Notophallus dorsalis* Banks, 1902: 172; Considered synonym of *Penthaleus major* by Baker (1946: 421).*Penthaleus dorsalis*: Bruce, 2021

Type locality: USA

Distribution: USA

Penthaleus erythrocephalus C.L. Koch*Penthaleus erythrocephalus* C.L. Koch, 1838: fa.18, t.8; Mihelčič, 1958a: 40; 1958b: 269

Type locality: Germany

Distribution: Germany, Spain

Penthaleus falcatus Qin et Halliday

Penthaleus falcatus Qin & Halliday, 1996: 1837; Halliday, 1998: 77; Robinson & Hoffmann, 2001: 699

Type locality: New South Wales

Distribution: Australia

Penthaleus fallax (Dugès)

Megamerus fallax Dugès, 1834: 50, 53

Penthaleus fallax (Dugès): Oudemans, 1937: 854

Type locality: France

Distribution: France

Penthaleus guttatus C.L. Koch

Penthaleus guttatus C.L. Koch: fasc. 18, nr. 13; Oudemans, 1937: 855; Thor & Willmann, 1941: 83

Type locality: Regensburg

Distribution: Germany

Penthaleus longipilis (Canestrini)

Notophallus longipilis Canestrini, 1886: 706

Penthaleus longipilis (Canestrini): Shiba, 1969: 71

Type locality: Italy

Distribution: England, Italy, Japan

Penthaleus major (Dugès)

Tétranyque majeur Dugès, 1834: 53 (nom. nud.)

Rhyncholophus major: Murray, 1877: 126

Penthaleus haematopus C.L. Koch, 1836: fasc. 1, nr.12; Marchal, 1908: 13; Thor, 1912: 237; Hull, 1918: 33

Penthaleus erythropus C.L. Koch, 1838: fasc. 18, nr.6

Penthaleus insulanus Thorell, 1872: 702

Tetranychus borealis L. Koch, 1879: 129

Notophallus insulanus: Trägårdh, 1900: 16

Notophallus haematopus: R. Canestrini, 1886: 704

Notophallus bicolor Froggatt, 1921: 33

Penthaleus bicolor Womersley, 1933: 110

Penthaleus major (Dugès): Meyer & Ryke, 1960: 491; Balevski & Kontev, 1969; Rekk, 1976: 49; Zhang & Hong, 2010: 6

Penthaleus maior (Dugès): Sellnick, 1940: 32; Thor & Willmann, 1941: 80; Schmölzer, 1993: 59; Halliday, 1998: 77; Darbemamieh, Hajiqanbar & Khanjani, 2013: 455

Type locality: Europe

Distribution: Argentina, Australia, Austria, Brazil, Bulgaria, Canada, China, France, Georgia, Germany, Great Britain, Greece, Holland, Hungary (cf. *P. major*), Iran, Iceland, Italy, Mexico, New Zealand, Norway, Poland, Portugal, Russia, Slovakia, Slovenia, South Africa, Spain, USA

Penthaleus minor (Canestrini)

Notophallus minor Canestrini, 1886: 705; Berlese, 1892: fasc. 61, No5

Penthaleus minor (Canestrini): Oudemans, 1905: 241; Thor & Willmann, 1941: 85; Qin & Halliday, 1996; Halliday, 1998: 77; Zhang & Hong, 2010: 6; Darbemamieh, Hajiqanbar & Khanjani, 2013: 455

Type locality: Padua (Italy)

Distribution: Australia, China, Great Britain, Germany, Iran, Italy, Switzerland

Penthaleus saxatilis C.L. Koch

Penthaleus saxatilis C.L. Koch, 1836: fa.1, t.13; Thor & Willmann, 1941: 81

Type locality: Regensburg

Distribution: Germany

Penthaleus tectus Halloway

Penthaleus tectus Halloway, 2005b: 144

Type locality: East Australia

Distribution: Australia

Genus ***Turanopenthalodes*** Barilo

Turanopenthalodes Barilo, 1988: 619

Type species: *Turanopenthalodes polytrichus* Barilo, 1988

Turanopenthalodes polytrichus Barilo

Turanopenthalodes polytrichus Barilo, 1988: 619; Khaustov, 2016: 674

Type locality: Samarkand, settl. Agalyk

Distribution: Uzbekistan

As species with uncertain affinity are listed by Thor & Willmann, 1941 or described before or after this monograph: *Penthaleus nemoralis* (Müller) (*Acarus n.*), *P. agilis* Berlese, 1905, *P. hermanni* Sig Thor, *Notophallus viridis* Banks, 1917 (synonymized with *Penthaleus major* by Baker (1946: 421), *Penthaleus guayavicola* (Stoll)(*Trombidium g.*), *P. trilineatus* (Stoll)(*Trombidium g.*), *P. albicollis* (Stoll)(*Trombidium a.*). Here could be added also some species, described by C.L. Koch (1838): *Penthaleus amictus*, *P. militaris*, *P. virellus*, *P. rhodomelas* and the described by Ludvig Koch from Novaja Zemlja *Penthaleus borealis*, *P. crassipes*.

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Distribution of Penthaleidae

EUROPA

- Austria** (Irk, 1942; Willmann, 1951a, 1951b; Mihelčič, 1958c; Schmölzer, 1993) – *Linopenthaleus irki*, *Penthaleus bipustulatus*, *P. major*
- Bulgaria** (Balevski & Kontev, 1969; Stoeva, 2006; Atanasov, Marinova & Atanasova, 2008; Maneva & Atanasova, 2016) – *Penthaleus major*
- Denmark** (Müller O.F. 1776) – ? *Penthaleus nemoralis*
- Yan Mayen I.** (Macfadyen, 1954) – *Penthaleus bipustulatus*
- France (contin.)** (Hermann, 1804; Dugès, 1834; Qin & Halliday, 1996) – *Penthaleus bipustulatus*, *P. fallax*, *P. major*
- Georgia** (Rekk, 1976) – *Penthaleus major*
- Germany** (C.L. Koch, 1835, 1836, 1838; Qin & Halliday, 1996) – *Penthaleus bipustulatus*, *P. erythrocephalus*, *P. major*, *P. saxatilis*
- Great Britain** (Hull, 1918; Wallace & Mahon, 1971) – *Halotydeus hydrodromus*, *Penthaleus longipilis*, *P. major*
- Greece** (Hadzinicolis, 1986) – *Penthaleus major*
- Holland** (Wallace & Mahon, 1971) – *Penthaleus major*
- Hungary** (Kontschán et al., 2018) – *Penthaleus cf. major*
- Iceland** (Sellnick, 1940; Gudleifsson et al., 2002; Hallas & Gudleifsson, 2005) – *Penthaleus major*
- Ireland** (Halbert, 1915, 1920) – *Halotydeus hydrodromus*, *Penthaleus major*
- Italy (contin.)** (Canestrini, 1886, Berlese, 1916; Bernini F., M. Castagnoli, R. Nannelli. 1994-1996. Checklist delle specie de la fauna italiana. Fascicolo 24 Arachnidi Acari. – Bologna, 132 pp. Wallace & Mahon, 1971) – *Chromotydaeus anauniensis*, *Ch. illustis*, *Penthaleus longipilis*, *P. major*, *P. minor*
- Norway** (Thor, 1912; Johansen & Haug, 2002) – *Penthaleus major* (= *haematopus*)
- Poland** (Kontschán et al., 2018) – *Penthaleus major*
- Portugal (cont.)** (Wallace & Mahon, 1971; Bernini et al., 1994–96) – *Penthaleus major*
- Russia (all, continent.)** (L. Koch, 1879; Stuxberg, 1886; Kornilov & Kositsyna, 1981) – [*Penthaleus borealis*, *P. crassipes*], *Penthaleus major*
- Slovenia** (Devetak et al., 2019) – *Penthaleus major*
- Spain (cont.)** (Mihelčič, 1958a, 1958b; Wallace & Mahon, 1971) – *Chromotydaeus similis*, *Penthaleus major*
- Switzerland** (Schweizer & Bader, 1963) – *Linopenthaleus irki*, *Penthaleus longipilis*, *P. major*, *P. minor*

AFRICA

South Africa (Jack, 1908; Tucker, 1925; Meyer & Ryke, 1960; Qin & Halliday, 1996; Halliday, 2005) – *Halotydeus anthropus*, *H. destructor*, *Penthaleus major*

ASIA

China (Narayan, 1962; Zhang & Hong, 2010: 6) – *Penthaleus major*, *P. minor*

Iran (Darbemamieh, Hajiqanbar & Khanjani, 2013) – *Penthaleus major*, *P. minor*

Japan (Shiba, 1969; Kanda & Hirai, 1990) – *Penthaleus longipilis*, *P. major*

Uzbekistan (Barilo, 1988; Khaustov, 2016) – *Turanopenthalodes polytrichus*

NORTH AMERICA

Canada (Behan, 1978; Qin & Halliday, 1996; Beaulieu, 2019) – *Penthaleus major*,

Mexico (Baker, 1946; Narayan, 1957) – *Penthaleus major*, *Stereotydeus mexicanus*

USA (Banks, 1902; Ewing, 1910; Brust, 2018, 2021a, b) – *Penthaleus dorsalis*, *P. major*

SOUTH and CENTRAL AMERICA

Argentina (Qin & Halliday, 1996) – *Penthaleus major*

Brazil (Valle da Silva Pereira et al., 2017) – *Penthaleus major*

Guatemala (Stoll, 1886 - 1893) – ? *Penthaleus trilineatus*, ? *Penthaleus albicollis*

OCEANIA

Australia (continent) (Newman, 1923, 1924, 1925a, 1925b, 1936; Swan, 1934; Womersley, 1941; Wallace, 1970; Wallace & Mahon, 1971; Halliday, 1991, 1998, 2005b; Qin & Halliday, 1995, 1996a, 1996b; Weeks, Fripp & Hoffmann, 1995; Qin, 1998; Weeks & Hoffmann, 1999; James, 1987, 2000; Robinson & Hoffmann, 2001; Umina & Hoffmann, 2003, 2004; Umina, Hoffmann & Weeks, 2004) – *Chromotydaeus quartus*, *Halotydeus bakerae*, *H. castellus*, *H. destructor*, *H. spectatus*, *Penthaleus major*, *P. minor*, *P. tectus*

New Zealand (Strandtmann, 1981; Wallace & Mahon, 1971) – *Linopenthaloides novaezealandicus*, *Penthaleus major*

ANTARCTICA

South Orkney Islands (Strandtmann & Tilbrook, 1968) – *Halotydeus signiensis*

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The Mite Family Proterorhagiidae Lindquist et Palacios-Vargas

Proterorhagiidae Lindquist & Palacios-Vargas, 1991: 341

Family containing only one species from Mexico.

Catalogue of Proterorhagiidae

Family **Proterorhagiidae** Lindquist et Palacios-Vargas

Proterorhagiidae Lindquist & Palacios-Vargas, 1991: 341

Type genus: *Proterorhagia* Lindquist et Palacios-Vargas, 1991

Genus ***Proterorhagia*** Lindquist et Palacios-Vargas

Proterorhagia Lindquist & Palacios-Vargas, 1991: 341

Type species: *Proterorhagia oztotloica* Lindquist et Palacios-Vargas, 1991

Proterorhagia oztotloica Lindquist et Palacios-Vargas

Proterorhagia oztotloica Lindquist & Palacios-Vargas, 1991: 344

Type locality: border area between the states of Colima and Jalisco, Pozo La Escondida near Lagunitas Village, 2200 m

Distribution: Mexico

Index of Proterorhagiidae

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

oztotloica, ***Proterorhagia*** 156

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Proterorhagia 155

Distribution of Proterorhagiidae

NORTH AMERICA

Mexico (Lindquist & Palacios-Vargas, 1991) – *Proterorhagia oztotloica*

Bibliography of Proterorhagiidae

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The Mite Family Strandtmanniidae Zacharda

Strandtmanniidae Zacharda, 1979: 77

Monotypical family known from the Czech Republic.

Catalogue of Strandtmanniidae

Family **Strandtmanniidae** Zacharda

Strandtmanniidae Zacharda, 1979: 77

Type genus: *Strandtmannia* Zacharda, 1979

Genus ***Pilorhagidia*** Strandtmann et Goff, 1978

Pilorhagidia Strandtmann & Goff, 1978: 141

Strandtmannia Zacharda, 1979: 78

Type species: *Pilorhagidia hirsuta* Strandtmann et Goff, 1978

Pilorhagidia celtarum (Zacharda)*Strandtmannia celtarum* Zacharda, 1979: 78*Pilorhagidia celtarum* (Zacharda):

Type locality: Bohemia centr., Zavist-knoll near Zbraslav

Distribution: Czech Rep.

Pilorhagidia hirsuta Strandtmann et Goff*Pilorhagidia hirsuta* Strandtmann & Goff, 1978: 141

Type locality: Hawaii I: HVNP, Mauna Loa Trail, 2040 rn

Distribution: Hawaii Islands

Index of Strandtmanniidae(Names in **bold** are accepted as valid)***celtarum***, ***Pilorhagidia*** 157*celtarum*, *Strandtmannia* 157***hirsuta***, ***Pilorhagidia*** 157***Pilorhagidia*** 157*Strandtmannia* 157**Strandtmanniidae** 156**Distribution of Strandtmanniidae****EUROPE****Czech Rep.** (Zacharda, 1979) - *Pilorhagidia celtarum***OCEANIA****Hawaii Islands** (Strandtmann & Goff, 1978) – *Pilorhagidia hirsuta***Bibliography of Strandtmanniidae**Strandtmann R.W., M.L.Goff. 1978. The Eupodoidea of Hawaii (Acarina: Prostigmata). - Pacific insects, **19**(3/4): 121-143.Zacharda M. 1979. Strandtmanniidae, a new family of Eupodoidea Acarina Prostigmata. - Vestník Československe společnosti zoologické, **43**(1): 76-81.

Mite Superfamily Tydeoidea

Tydeoidea Cunliffe, 1955

The Superfamily contains the families Ereyenetidae, Iolinidae, Triophytyeidae and Tydaeidae.

The Mite Family Ereyenetidae Oudemans

The family Ereyenetidae contains three subfamilies: Ereyenetinae (free living in the soil), Speleognathinae (parasites in the respiratory passages of molluscs, birds and mammals) and Lawrencarinae (parasites in the respiratory passages of frogs and toads). Until 1936 only the Ereyenetinae were known, described by several early acarologists, starting with Schrank (1776) and C.L. Koch (1836). In 1883 A. Berlese described the genus *Ereynetes* and in 1931 Oudemans created the family Ereyenetidae. Some other specialists who contributed to the study of Ereyenetinae are Vitzthum (1931), André & Lamy (1930, 1931), Thor (1932a, 1932b, 1936), E.W. Baker (1945), Turk & Phillips (1945), R.A. Baker (1970a, b), Cooreman (1947), Willmann (1936, 1949, 1953), Mihelčić (1958), Hunter (1964), Corpuz-Raros (1975), Shiba (1976), Zabludovskaya (1994) and again Berlese (1910, 1923). Many publications were devoted to the peculiar mites parasitizing the snails and slugs (*Riccardoella*). The modern arrangement of this interesting group is due to A. Fain and his co-authors J. L. van Goethem, A.M. Camerik and G.M. Barker.

The mighty presence of A. Fain in the study of Ereyenetidae began in 1955. Firstly he submitted part of his collection from Rwanda to J. Cooreman, who described the first African member of the family as new genus and species *Speleognathopsis galli* Cooreman, 1955. This was the end of the pre-Fain era in the study of Ereyenetidae. Only from the present day species have been known by this time from the parasitic subfamilies Speleognathinae and Lawrencarinae, and they were wrongly positioned in the system. In 1936 H. Womersley described the peculiar mite *Speleognathus australis*, for which he created the new family (now subfamily) Speleognathidae. Followed E. Boyd with "*Speleognathus*" *sturni* Boyd, 1948, the first among the many nasal parasites of birds and mammals we know now. Womersley (1953) named this mite *Boyardia sturni*. Meanwhile Lawrence (1952) described the first mite endoparasite of Anura, but named it *Riccardoella eweri*. Followed several other parasites of frogs and toads, now 12 species in the genera *Lawrencarus* Fain, 1957, *Batracarus* Fain, 1961 and *Xenopacarus* Fain, Baker & Tinsley, 1969. Fain (1962) summarized the data on the mites parasitizing Anura. Kethley (1971) described one new genus (*Hydranetes*) with two new species of Ereyenetid mites, living under elytrae of Hydrophilid beetles in Florida.

The rich collection of endoparasitic mites, brought by Fain from Rwanda and Congo, was the basis for the many descriptions of new taxa in the subfamily Speleognathinae. The mites of this subfamily in the Afrotropical Region have been reviewed by Skoracki et al. (2018).

Very few people interfered in the stream of papers by Fain and co-authors (Aitken, Bafort, Tinsley, Baker, Barker, Camerik, Goff, Herin, Puylaert, Hyland, Klompen, Lukos-

chus, Mortelmans, Nadchatram, Prasse, van Goethem, Vercammen-Grandjean, Wagner, Flechtmann, Leal). Dubinin (1957) was the author of the new genus *Ophthalmognathus*. Other specialists describing Speleognathinae were Crossley (1952), Womersley (1936, 1953), Van Eyndhoven (1955), Ford (1959, 1962), Clark (1958, 1960, 1964, 1967a, 1967b), Domrow (1965, 1969, 1991), Pence (1973), Pence & Casto (1976), OConnor (1978).

The family Ereyetidae contains now (end 2021) 180 species of 35 genera and three subfamilies. The progress since the first general paper on the family (Thor, 1933) is obvious: by this time only 15 species of 3 (actually two – *Ereynetes* and *Riccardoella*) genera have been recognized in Ereyetidae. Most species are endoparasites.

Fam. **Ereyetidae** – 35 genera, 180 sp.

Subfam. **Ereyetinae** – 78 sp.

Tribe **Austrereynetini**

Austrereynetes Fain et Barker, 2003 – 1 sp.

Tribe **Ereyetini**

Ereynetes Berlese, 1883 – 55 sp.

Anereynetes Fain, 1964 - 24

Ereynetes Berlese, 1883 - 21

Gymnereynetes Fain, 1964 - 4

Huntereynetes Fain, 1964 - 3

Opsereynetes Thor, 1932 - 3

Hanriccardoella André, Ducarme et Lebrun, 2004 - 1

Hydranetes Kethley, 1971 - 2

Protereunetes Berlese, 1923 - 9

Pseudotydeus Baker et Delfinado, 1974 - 2

Riccardoella Berlese, 1923 - 8

Prorriccardoella Fain et van Goethem, 1986 - 6

Riccardoella Berlese, 1923 – 2

Subfam. **Speleognathinae** - 90 sp.

Tribe **Boydaiaini**

Boydaia Womersley, 1953 - 41

Coboydaia Fain, 1971 - 5

Coboydaia (*Apodiboydaia*) Fain, 1985 - 1

Coboydaia (*Coboydaia*) Fain, 1971 - 4

Tribe **Trispeleognathini**

Astrida Fain, 1955 - 4

Astrida Fain, 1955 - 2

Cerylonyssus Fain et Aitken, 1970 – 1

Aureliania Fain, 1958 – 1

Meropiboydaia Fain, 1985 - 1

Metaboydaia Fain, 1962 - 1

Neastrida Fain, 1962 - 1

Neoboydaia Fain, 1958 - 3
Ophthalmognathus Dubinin, 1957 - 2
Phoenicopterella Fain, 1970 - 2
Picinyssus Fain, 1969 - 1
Psittaboydaia Fain, 1985 - 2
Pterniboydaia Fain, 1985 - 1
Trispeleognathus Fain, 1958 -
Tribe **Paraspeleognathopsini**
Paraspeleognathopsis Fain, 1958 - 4
Tribe **Speleochirini**
Hipposideroptes Fain, 1970 - 1
Neospeleognathopsis Fain, 1958 - 3
Neospeleognathopsis (*Neospeleognathopsis*) Fain, 1958 - 1
Neospeleognathopsis (*Speleomyotis*) - 1
Neospeleognathopsis (*Pteropignathus*) - 1
Ralliboydaia Fain, 1962 - 3
Speleochir Fain, 1966 - 5
Neospeleochir Fain, 19 - 1
Speleognathopsis Cooreman, 1954 - 6
Speleomys Fain, 1970 - 1
Speleorodens Fain, 1962 - 6
Tribe **Speleognathini**
Domrownetes OConnor, 1978 - 1
Speleognathus Womersley, 1936 - 4
Subfamily **Lawrencarinae** Fain, 1957 - 12 sp.
Tribe **Lawrencarini** Fain
Batracarus Fain, 1961 - 1
Lawrencarus Fain, 1957 - 8
Tribe **Xenopacarini** Fain, Baker et Tinsley, 1969
Xenopacarus Fain, Baker et Tinsley, 1969 - 3

Catalogue of Ereynetidae

Family **Ereynetidae** Oudemans
Ereynetidae Oudemans, 1931: 253
Type genus: *Ereynetes* Berlese, 1883
Speleognathidae Womersley, 1936 (syn. by Fain, 1957: 250)
Type genus: *Speleognathus* Fain, 1936: 313

Microereunetidae Bottazzi, 1950: 38; syn. by Fain, 1954a: 110

Type genus: *Microereunetes* Berlese, 1924: syn. by Fain, 1954a: 110

Subfamily **Ereynetinae** Fain

Ereynetinae Fain, 1957: 250

Type genus: *Ereynetes* Berlese, 1883

Pseudotydeinae Baker & Delfinado, 1974: 444 – syn. by André & Ducarme, 2003: 373

Type genus: *Pseudotydeus* Baker et Delfinado, 1974

Tribe **Austrereynetini** Fain et Barker

Austrereynetini Fain & Barker, 2003: 233

Type genus: *Austrereynetes* Fain et Barker, 2003

Genus ***Austrereynetes*** Fain et Barker

Austrereynetes Fain & Barker, 2003: 234

Type species: *Austrereynetes maudensis* Fain et Barker, 2003

Austrereynetes maudensis Fain et Barker

Austrereynetes maudensis Fain & Barker, 2003: 235

Type locality: Maud Island, Marlborough Sounds, New Zealand

Distribution: New Zealand

Host: *Pseudaneitea schauinslandi* (Gastropoda: Pulmonata: Athoracophoridae)

Tribe **Ereynetini** Fain

Type genus: *Ereynetes* Berlese, 1883

Genus ***Ereynetes*** Berlese

Ereynetes Berlese, 1883: 5.1

Ereunetes Berlese, 1883: fasc.V, 1, tav.22 (non *Ereunetes* Illiger, 1911: Aves)

Microereunetes Berlese, 1921: 24; 1923: 243

Type species: *Tydeus polymytus* C.L. Koch, 1836 [*Ereynetes galeatus* Berlese, 1883], see Fain, 1985b: 257

Neoereunetes Bottazzi, 1950: 44 (n.nov.), type sp. *polymytis*. Syn. by Fain, 1964a: 111

Ereynetoides Fain et Nadchatram, 1962a: 69: type sp. *Ereynetoides malayi* Fain et Nadchatram, 1962a: 72. Syn. by Fain, 1964a: 110

Subgenus ***Ereynetes*** Berlese

Ereynetes Berlese, 1883: 5.1; Fain, 1985b: 257

Type species: *Tydeus polymytus* C.L. Koch, 1836 [*Ereynetes galeatus* Berlese, 1883]

***Ereynetes (Ereynetes) agilis* (Berlese)(sp. inquirenda)**

Micrereunetes (Protereunetes) agilis Berlese, 1923: 245; Fain, 1964a: 99

Ereynetes (Ereynetes) agilis Berlese: Fain, 1964a: 106; Fain & Camerik, 1994: 150

Protereunetes agilis (Berlese): Thor & Willmann, 1941: 54; Strandtmann, 1971: 82

Type locality: Palermo

Distribution: Sicily

Host: moss

***Ereynetes (Ereynetes) amplectorus* (Hunter)**

Ereynetoides amplectorus Hunter, 1964: 86; Siahkamari et al., 2020:

Ereynetes (Ereynetes) amplectorus Hunter: Fain, 1964a: 110; Fain & Camerik, 1994: 156

Type locality: American Fork, Utah

Distribution: Mexico, USA (Utah), South Africa, Iran

Host: on celery

***Ereynetes (Ereynetes) arcuatus* (Berlese)**

Micrereunetes arcuatus Berlese, 1923: 244

Ereynetes arcuatus (Berlese): Thor, 1933: 72

Ereynetes (Ereynetes) arcuatus Berlese: Fain, 1964a: 106

Type locality: Portici

Distribution: Italy

***Ereynetes (Ereynetes) boharti* Hunter et Cross**

Ereynetes (Ereynetes) boharti Hunter & Cross, 1968: 156; Fain & Camerik, 1994: 151

Type locality: Shoshoni, Wyoming

Distribution: USA (Wyoming)

Host: from artificial nest of bee, *Nomia melanderi* (Hymenoptera, Halictidae)

***Ereynetes (Ereynetes) bolitophilus* Fain et Camerik**

Ereynetes (Ereynetes) bolitophilus Fain & Camerik, 1994: 156; Abdelgayed et al., 2019: 32

Type locality: Sandton (South Africa)

Distribution: South Africa, Egypt

Host: cow dung

***Ereynetes (Ereynetes) cavernarum* Shiba**

Ereynetes cavernarum Shiba, 1971: 226

Type locality: Kaminari-ana Pit, Kansu-yama, Fujiwara, Susono-shi, Shizuoka Pref.

Distribution: Japan

***Ereynetes (Ereynetes) centralis* (Berlese)**

Micrereunetes galeatus var. *centralis* Berlese, 1923: 243

Ereynetes centralis (Berlese): Thor, 1933: 74
Ereynetes (Ereynetes) galeatus centralis (Berlese): Fain, 1964a: 106
Neoereunetes centralis (Berlese): Bottazzi, 1950: 40
 Type locality: Italy ("in agro Florentino")
 Distribution: Italy
 Host: manure, humus, chestnut wood

Ereynetes (Ereynetes) excellens (Berlese)
Micrereunetes excellens Berlese, 1923: 243
Ereynetes excellens Berlese: Thor, 1933: 73
Ereynetes (Ereynetes) excellens Berlese: Fain, 1964a: 106
 Type locality: Japan
 Distribution: Japan

Ereynetes (Ereynetes) faini (Hunter)
Ereynetoides faini Hunter, 1964: 188
Ereynetes (Ereynetes) faini Hunter: Fain, 1985b: 257; Fain & Camerik, 1994: 151
 Type locality: Boston
 Distribution: USA (on beet root from Denmark and lily bulbs from England), Mexico

Ereynetes (Ereynetes) galeatus (Berlese)
Micrereunetes galeatus Berlese, 1923: 243
Acarus limacum, Berlese, 1883 (non Schrank, 1776)
Ereynetes polymitus, R. Canestrini, 1886 (non Koch, 1838)
Ereynetes ministralis, Oudemans, 1928: 382 (non Koch, 1838)
Micrereunetes polymitus, Berlese, 1920 (non Koch, 1838)
Ereynetes galeatus Berlese: Thor, 1933: 74
Ereynetes (Ereynetes) berlesei Oudemans, 1928: 382
Ereynetes (Ereynetes) galeatus (Berlese): Fain, 1964a: 106; Zabłudovskaya, 1994: 35
 Type locality: Palermo
 Distribution: Sicily, Crimea
 Host: in soil

Ereynetes (Ereynetes) gandensis Fain et Bafort
Ereynetes (Ereynetes) gandensis Fain & Bafort, 1973: 409; Fain, 1985b: 257; Fain & Camerik, 1994: 151; Zabłudovskaya, 1994: 35
 Type locality: Gand (Belgium)
 Distribution: Belgium, Ukraine
 Host: in humus

Ereynetes (Ereynetes) husatoi Shiba

Ereynetes (Ereynetes) husatoi Shiba, 1976: 139

Type locality: Malaya, Pasoh Forest Reserve

Distribution: Malaysia

Ereynetes (Ereynetes) luriei Fain et Camerik

Ereynetes (Ereynetes) luriei Fain & Camerik, 1994: 157

Type locality: Sandton

Distribution: South Africa

Host: cow dung

Ereynetes (Ereynetes) malayi (Fain et Nadchatram)

Ereynetoides malayi Fain & Nadchatram, 1962a: 72

Ereynetes (Ereynetes) malayi Fain & Nadchatram: Fain, 1964a: 106; 1985b: 257; Fain & Camerik, 1994: 150

Type locality: Fort Betis, Ulu Kelantan, Malaya

Distribution: Malaysia

Host: nasal cavity of *Arachnothera l. longirostra* (Passeriformes: Nectariniidae)

Ereynetes (Ereynetes) pegazzanoae Fain

Ereynetes (Ereynetes) pegazzanoae Fain, 1964a: 95; Zabludovskaya, 1994: 35

Type locality: Tiarno (Italy)

Distribution: Italy, Ukraine

Host: in dung

Ereynetes (Ereynetes) philippinensis Corpuz-Raros

Ereynetes (Ereynetes) philippinensis Corpuz-Raros, 1975: 326; Fain & Camerik, 1994: 151

Type locality: College, Laguna

Distribution: Philippines

Host: Scarabaeid beetle (Coleoptera)

Ereynetes (Ereynetes) punctatus Zabludovskaya

Ereynetes (Ereynetes) punctatus Zabludovskaya, 1994: 37

Type locality: Migya Village, Pervomayskiy Rayon, Nikolaevskaya oblast

Distribution: Ukraine

Host: in dung

Ereynetes (Ereynetes) septentrionalis (Berlese)

Micrereunetes galeatus var. *septentrionalis* Berlese, 1923: 244

Ereynetes septentrionalis (Berlese): Thor, 1933: 73; Çobanoglu et al., 2020:

Ereynetes (Ereynetes) galeatus septentrionalis (Berlese): Fain, 1964a: 106

Ereynetes (Ereynetes) septentrionalis (Berlese): Fain & Camerik, 1994: 150

Type locality: Nord Italy

Distribution: Italy, Turkey

Host: manure

***Ereynetes (Ereynetes) tadakii* Shiba**

Ereynetes (Ereynetes) tadakii Shiba, 1976: 136

Type locality: Malacca

Distribution: Malaysia

***Ereynetes (Ereynetes) tshernogoriensis* Zabludovskaya**

Ereynetes (Ereynetes) tshernogoriensis Zabludovskaya, 1994: 36

Type locality: Karpatskiy Zapovednik [Reserve], Tshernogorskiy Rayon, Transcarpathia;
paratypes from Karadagskiy Zapovednik, Crimea

Distribution: Crimea, Ukraine

***Ereynetes (Ereynetes) ueckermanni* Fain et Camerik**

Ereynetes (Ereynetes) ueckermanni Fain & Camerik, 1994: 154

Type locality: Cluny Farm, Transvaal

Distribution: South Africa

Host: cow and horse dung

***Ereynetes (Ereynetes) watsoni* Fain**

Ereynetoides watsoni Fain, 1962a: 925

Ereynetes (Ereynetes) watsoni (Fain): Fain, 1964a: 106; 1985b: 257; Fain & Camerik, 1994: 150

Type locality: Macquarie Id., Antarctica

Distribution: Macquarie I., Antarctica

Host: *Stilbocarpa* litter

Subgenus ***Anereynetes*** Fain

Anereynetes Fain, 1964a: 104; 1985b: 257

Type species: *Ereynetes hydrophilus* Cooreman, 1947

***Ereynetes (Anereynetes) beauchampi* Hunter**

Ereynetes beauchampi Hunter, 1964: 189

Ereynetes (Anereynetes) beauchampi Hunter: Fain & Camerik, 1994: 151

Type locality: on ginger root, from China at Boston

Distribution: ? China

Host: on ginger roots

***Ereynetes (Anereynetes) bipilosus* Willmann**

Ereynetes bipilosus Willmann, 1953: 482; Franz, 1954: 365

Ereynetes (Anereynetes) bipilosus Willmann: Fain, 1964a: 107; Fain & Camerik, 1994: 153
(with ?)

Type locality: Germany

Distribution: Austria, Germany

Host: soil

Ereynetes (Anereynetes) biscutatus (Berlese)

Micrereunetes biscutatus Berlese, 1923: 243

Ereynetes biscutatus (Berlese): Thor, 1933: 75; Franz, 1954: 365

Ereynetes (Anereynetes) biscutatus (Berlese): Fain, 1964a: 107; Fain & Camerik, 1994: 152 (with ?)

Type locality: “in Agro Veneto”

Distribution: Austria, Italy

Host: dung

Ereynetes (Anereynetes) botswanensis Fain et Camerik

Ereynetes (Anereynetes) botswanensis Fain & Camerik, 1994: 158

Type locality: Mahalapye

Distribution: Botswana

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

Ereynetes (Anereynetes) coenobitus Hunter et Poe

Ereynetes (Anereynetes) coenobitus Hunter & Poe, 1971: 135; Fain, 1985b: 257; Fain & Camerik, 1994: 151

Type locality: Puerto Rico

Distribution: Puerto Rico

Host: *Coenobita clypeatus* (Crustacea, Decapoda, Brachiura: Coenobitidae)

Ereynetes (Anereynetes) copridis Fain et Camerik

Ereynetes (Anereynetes) copridis Fain & Camerik, 1994: 158

Type locality: Mahalapye

Distribution: Botswana

Host: *Copris subsidens* (Coleoptera: Scarabaeidae)

Ereynetes (Anereynetes) corticalis (Vitzthum)

Micrereunetes corticalis Vitzthum, 1923: 98

Ereynetes corticalis (Vitzthum): Vitzthum, 1930: 425; Mihelčič, 1958: 274

Ereynetes (Anereynetes) copridis (Vitzthum): Fain & Camerik, 1994: 152 (with ?)

Type locality: Waidhofen an der Thaya (Austria)

Distribution: Austria, Spain

Host: “im Mittelgang von *Hylesinus* und *Myelophilus*”, under *Alisma plantago*

Ereynetes (Anereynetes) cruciatus* (Berlese)Ereynetes cruciatus* Berlese, 1910: 243*Micrereynetes cruciatus* (Berlese): Fain, 1964a: 96*Ereynetes (Anereynetes) cruciatus* (Berlese): Fain, 1964a: 107; Fain & Camerik, 1994: 151

Type locality: Java

Distribution: Indonesia (Java)

Host: *Copris molossus* (Coleoptera: Scarabaeidae)***Ereynetes (Anereynetes) davisii* Hunter***Ereynetes davisii* Hunter, 1964: 190*Ereynetes (Anereynetes) davisii* Hunter: Fain & Camerik, 1994: 151

Type locality: Gadsden, Arizona

Distribution: USA (Arizona)

Host: "Under bark, cottonwood"

Ereynetes (Anereynetes) hydrophilus* CooremanEreynetes hydrophilus* Cooreman, 1947: 6*Ereynetes (Anereynetes) hydrophilus* Cooreman: Fain, 1964a: 107, 1985b: 257; Zabłudovskaya, 1994: 36; Fain & Camerik, 1994: 151

Type locality: Kalmhoude (Belgium)

Distribution: Belgium, Ukraine

Host: in dung; described from the nest of *Larus ridubundus****Ereynetes (Anereynetes) inermis* Fain***Ereynetes (Gymnereynetes) inermis* Fain, 1964a: 96; Fain & Camerik, 1994: 151

Type locality: Florence

Distribution: Italy

Host: humus

Ereynetes (Anereynetes) insularis* WillmannEreynetes insularis* Willmann, 1952: 158*Ereynetes (Anereynetes) insularis* Willmann: Fain, 1964a: 107; Fain & Camerik, 1994: 153 (with ?)

Type locality: Wangerooge Is.

Distribution: Germany

Host: soil near the coast

Ereynetes (Anereynetes) lyratus* Fain et PrasseEreynetes (Anereynetes) lyratus* Fain & Prasse, 1973b: 233; 1985b: 257; Fain & Camerik, 1994: 151

Type locality: Etzdorf/Saalkreis

Distribution: Germany

Host: soil

Ereynetes (Anereynetes) meliponae Fletchtmann, Fain et Leal

Ereynetes (Gymnereynetes) meliponae Fletchtmann, Fain & Leal, 1985c: 95

Ereynetes (Aneynetes) meliponae: Fain & Camerik, 1994: 151

Type locality: Recife, Pernambuco

Distribution: Brazil

Host: *Melipona scutellaris* (Hymenoptera: Apidae, Meliponinae)

Ereynetes (? Anereynetes) ministralis (C. L. Koch)

Tydeus ministralis C. L. Koch, 1838: fasc. 20, No 12

Ereynetes ministralis (C. L. Koch): Oudemans, 1928: 382; Thor, 1932: 28; Schweizer & Bader, 1963: 248

Ereynetes (? Anereynetes) ministralis (C. L. Koch): Fain & Camerik, 1994: 152

Type locality: Germany

Distribution: Germany, Switzerland

Ereynetes (Anereynetes) minutus Willmann

Ereynetes minutus Willmann, 1949: 127

Ereynetes (Anereynetes) minutus Willmann: Fain, 1964a: 107; Fain & Camerik, 1994: 153 (with ?)

Type locality: Ciechocinek (Poland, not Germany!)

Distribution: Poland

Host: soil

Ereynetes (Anereynetes) ornatus Mihelčič

Ereynetes ornatus Mihelčič, 1958: 274

Ereynetes (Anereynetes) ornatus Mihelčič: Fain, 1964a: 107; Fain & Camerik, 1994: 153 (with ?)

Type locality: Spain

Distribution: Spain

Host: under *Alisma* plantation

Ereynetes (Anereynetes) papuanus Fain et Van Goethem

Ereynetes (Anereynetes) papuanus Fain & Van Goethem, 1978: 125; 1985b: 257; Fain & Camerik, 1994: 151

Type locality: Laing Island, Morobe Prov.

Distribution: Papua New Guinea

Host: *Coenobita rugosa* (Crustacea, Decapoda, Brachiura: Coenobitidae)

Ereynetes (Anereynetes) potator* VitzthumEreynetes potator* Vitzthum, 1932: 78; Thor, 1933: 75*Ereynetes (Anereynetes) potator* Vitzthum: Fain, 1964a: 107; Fain & Camerik, 1994: 152 (with ?)

Type locality: S. Sumatra (Ranau)

Distribution: Indonesia (Sumatra)

Host: in bamboo stumps

Ereynetes (Anereynetes) proximus* MihelčičEreynetes proximus* Mihelčič, 1958: 275*Ereynetes (Anereynetes) proximus* Mihelčič: Fain, 1964a: 107; Fain & Camerik, 1994: 153 (with ?)

Type locality: Spain

Distribution: Spain

Host: under *Alisma* plantation***Ereynetes (Anereynetes) sabinensis* Baker***Ereynetes sabinensis* Baker, 1945: 19*Ereynetes (Anereynetes) sabinensis* Baker: Fain, 1964a: 107; Fain & Camerik, 1994: 153 (with ?)

Type locality: Mexico

Distribution: Mexico

Host: bat guano

Ereynetes (Anereynetes) simplex* WillmannEreynetes simplex* Willmann, 1936: 196; Turk, 1970: 40*Ereynetes (Anereynetes) simplex* Willmann: Fain, 1964a: 107; Fain & Camerik, 1994: 153 (with ?)

Type locality: graphite mine nr. Mährisch-Altschadt (Stare Mesto), Glatzer Schneeberg

Distribution: Bulgaria, Czech Rep. (on the border with Poland)

Host: unknown

Ereynetes (? Anereynetes) sittardiensis* OudemansEreynetes sittardiensis* Oudemans, 1912: 247; 1914: 120; Vitzthum, 1931: 81; Thor, 1933: 73*Ereynetes (? Anereynetes) sittardiensis* Oudemans: Fain, 1964a: 107; Fain & Camerik, 1994: 152; Zabludovskaya, 1994: 36

Type locality: Sittard (Holland)

Distribution: Holland, Ukraine

Host: in the nests of rodents and insectivorans

***Ereynetes (Anereynetes) upelbensis* Corpuz-Raros**

Ereynetes (Anereynetes) upelbensis Corpuz-Raros, 1975: 329; Fain & Camerik, 1994: 151

Type locality: Mt. Makiling, Laguna

Distribution: Philippines

Subgenus ***Gymnereynetes*** Fain in,

Gymnereynetes Fain, 1964a: 104; 1985b: 257

Type species: *Ereynetes macquariensis* Fain, 1962

Ereynetes (Gymnereynetes) aurantipes Fain et Bafort

Ereynetes (Gymnereynetes) aurantipes Fain & Bafort, 1973a: 411; 1985b: 257; Zabludovskaya, 1994: 36; Fain & Camerik, 1994: 152

Type locality: De Pinte nr. Gand (Belgium)

Distribution: Belgium, Ukraine, Crimea

Host: in humus and moss

Ereynetes (Gymnereynetes) brevipes (Berlese)

Micrereunetes (Protereunetes) brevipes Berlese, 1923: 245

Protereunetes brevipes (Berlese): Macfadyen, 1954: 283

Ereynetes (Gymnereynetes) brevipes (Berlese): Fain, 1964a: 107; 1985a: 275; Fain & Camerik, 1994: 152

Type locality: Chianti (in the description: “habitat in Etruria”)

Distribution: Italy, Yan Mayen I.

Host: unknown

Ereynetes (Gymnereynetes) exilis Fain et Prasse

Ereynetes (Gymnereynetes) exilis Fain & Prasse, 1973b: 230; 1985b: 257; Zabludovskaya, 1994: 36; Fain & Camerik, 1994: 152

Type locality: Etzdorf/Saalkreis, Germany

Distribution: Germany, Ukraine, Crimea

Host: in soil

Ereynetes (Gymnereynetes) macquariensis Fain

Ereynetes macquariensis Fain, 1962a: 921; Strandtmann, 1970: ; Crooker, 1977: 489; Luxton, 1990: 397

Ereynetes (Gymnereynetes) macquariensis: Fain, 1964a: 107; 1976: 319; 1985b: 257; Strandtmann & Tilbrook, 1968: 55; Fain & Camerik, 1994: 152

Type locality: Macquarie I.

Distribution: Macquarie I., Signy I., Kerguelen I., Marion I., Antarctic Peninsula

Subgenus ***Huntereynetes*** Fain*Huntereynetes* Fain, 1964a: 110Type species: *Ereynetoides scutulis* Hunter, 1964***Ereynetes (Huntereynetes) propescutulis*** Hunter et Rosario*Ereynetes (Huntereynetes) propescutulis* Hunter et Rosario in Hunter, Rosario & Moser 1989: 16; Penttinen, Viiri & Moser, 2013: 3

Type locality: Georgia (USA)

Distribution: Finland, USA

Host: pine beetles (Coleoptera: Curculionidae, *Ips*) and their tunnels***Ereynetes (Huntereynetes) scutulis*** (Hunter)*Ereynetoides scutulis* Hunter, 1964: 181*Ereynetes (Huntereynetes) scutulis* (Hunter): Fain, 1964a: 110; 1985b: 258; Fain & Camerik, 1994: 152; Pernek et al., 2008:*Ereynetes scutulis* (Hunter): Fernandes et al., 2013: 359

Type locality: Athens, Georgia

Distribution: Croatia, USA (Georgia)

Host: "from *Ips* tunnel in pine log"; phoretic on *Pityokteines spinidens* and *P. vorontzowi* (Col., Scolytidae)***Ereynetes (Huntereynetes) sinescutulis*** Hunter, Rosario et Moser*Ereynetes (Huntereynetes) sinescutulis* Hunter, Rosario & Moser, 1989: 18; Fain & Camerik, 1994: 152 (with ?)

Type locality: Idaho

Distribution: USA

Host: on pine beetles (*Ips pini*)Subgenus ***Opsereynetes*** Thor*Opsereynetes* Thor, 1932: 27(as genus)*Ereynetes (Opsereynetes)*: Fain, 1964a: 106Type species: *Opsereynetes norvegicus* Thor, 1932***Ereynetes (Opsereynetes) norvegicus*** (Thor)*Opsereynetes norvegicus* Thor, 1932: 27 – 28; 1933: 77; Shiba, 1969b: 87*Ereynetes (Opsereynetes) norvegicus* (Thor): Fain, 1964a: 106; 1985b: 258; Fain & Camerik, 1994: 152; Donczyk, 2006: 165

Type locality: South Norway

Distribution: Japan, Norway, Poland

Ereynetes (Opsereynetes) robustus (Baker)

Opsereynetes robustus Baker, 1945: 18

Ereynetes (Opsereynetes) robustus Baker: Fain, 1964a: 106; Fain & Camerik, 1994: 152

Type locality: Desierto de los Leones

Distribution: Mexico

Ereynetes (Opsereynetes) simplex Baker

Ereynetes (Opsereynetes) simplex Baker, 1945: 17

Ereynetes (Opsereynetes) simplex Baker: Fain, 1964a: 106

Type locality: Desierto de los Leones

Distribution: Mexico

Fain & Cemerik (1994) indicate that: "Several other species have been included in the genus *Ereynetes* as species of Incertae sedis by Thor (1933): i.e. *Acarus padi* Schrank, 1803, *Acarus junci* Hermann, 1804, *Acarus mammilaris* Canestrini & Fanzago, 1876 and *Acarus armatus* Canestrini & Fanzago, 1876

Genus ***Hanriccardoella*** André, Ducarme et Lebrun

Hanriccardoella André, Ducarme & Lebrun, 2004: 81

Type species: *Hanriccardoella faini* André, Ducarme et Lebrun, 2004

Hanriccardoella faini André, Ducarme et Lebrun

Hanriccardoella faini André, Ducarme & Lebrun, 2004: 83

Type locality: Han Cave (Rochefort)

Distribution: Belgium

Host: free living

Genus ***Hydranetes*** Kethley

Hydranetes Kethley, 1971: 176

Type species: *Hydranetes tropisternus* Kethley, 1971

Hydranetes citrinensis Kethley

Hydranetes citrinensis Kethley, 1971: 181

Type locality: Citra, Marion County, Florida

Distribution: USA (Florida)

Host: *Tropisternus lateralis nimbatus* (Col.: Hydrophilidae)

Hydranetes tropisternus Kethley

Hydranetes tropisternus Kethley, 1971: 181

Type locality: Citra, Marion County, Florida

Distribution: USA (Florida)

Hosts: *Tropisternus lateralis nimbatus*, *T. quadristriatus*, *T. striolatus* (Col.: Hydrophilidae)

Genus ***Prottereunetes*** Berlese

Micrereunetes (*Prottereunetes*) Berlese, 1923: 245 (subgenus)

Prottereunetes Berlese: Oudemans, 1931: 252 (genus)

Type species: *Micrereunetes* (*Prottereunetes*) *agilis* Berlese, 1923

Prottereunetes boernerii Thor

Prottereunetes boernerii Thor, 1934: 129; Macfadyen, 1954: 283; Strandtmann, 1971: 83

Type locality: Svalbard

Distribution: Svalbard, USA (Alaska), Yan Mayen I.

Prottereunetes clavifrons (R. Canestrini)

Eupodes clavifrons R. Canestrini, 1886: 716

Prottereunetes clavifrons: Strandtmann, 1971: 85

Eupodes mollicellus C.L. Koch, 1838: fasc. 19, nr. 23

Cocceupodes mollicellus: Sig Thor, 1934: 178; Haarløv, 1957: 26

Type locality: Italy

Distribution: Denmark, Germany, Italy, Norway, Svalbard, Sweden

Prottereunetes crozeti Strandtmann

Prottereunetes crozeti Strandtmann, 1972: 48

Type locality: Crozet Island

Distribution: Crozet Island

Prottereunetes maudae Strandtmann

Prottereunetes maudae Strandtmann, 1967: 56

Type locality: Victoria Land, Antarctica

Distribution: Antarctica

Prottereunetes minutus Strandtmann

Prottereunetes minutus Strandtmann, 1967: 55

Type locality: Antarctic Peninsula

Distribution: Antarctica

Prottereunetes paulinae Llano et Gless

Prottereunetes paulinae Llano & Gless, 2013: 299

Type locality: Hallett Station

Distribution: Antarctica

Prottereunetes perforatus Shiba

Prottereunetes perforatus Shiba, 1978: 147

Type locality: Mt. Sagaramine, Shigenobu-sho, Ehime

Distribution: Japan

Prottereunetes striatellus (C.L. Koch)

Eupodes striatellus C.L. Koch, 1838: fa. 19, t.16

Prottereunetes striatellus (C.L. Koch): Oudemans, 1938: 870; Thor & Willmann, 1941: 55

Type locality: Regensburg (Germany)

Distribution: Germany, Estonia, Holland

Prottereunetes villosus Shiba

Prottereunetes villosus Shiba, 1978: 145

Type locality: Tomisato, Betshimura, Ehime

Distribution: Japan

Genus ***Pseudotydeus*** Baker et Delfinado

Pseudotydeus Baker & Delfinado, 1974: 444

Type species: *Pseudotydeus perplexus* Baker et Delfinado, 1974

Pseudotydeus lebruni André et Ducarme

Pseudotydeus lebruni André & Ducarme, 2003: 375

Type locality: Nou Moulin Cave, Wallonia

Distribution: Belgium

Pseudotydeus perplexus Baker et Delfinado

Pseudotydeus perplexus Baker & Delfinado, 1974: 447

Type locality: Columbus, Ohio

Distribution: USA (Ohio)

Genus ***Riccardoella*** Berlese

Micrereunetes (*Riccardoella*) Berlese, 1923: 244

Type species: *Acarus limacum* Schrank, 1776

Subgenus ***Proricardoella*** Fain et van Goethem

Proricardoella Fain & van Goethem, 1986: 129

Type species: *Riccardoella oudemansi* Thor, 1932

Riccardoella* (*Proricardoella*) *canadensis Fain et Van Goethem

Riccardoella (*Proricardoella*) *canadensis* Fain & Van Goethem, 1986: 134; Zabludovskaya, 1995: 90; André, Ducarme & Lebrun, 2004: 81

Type locality: Morgan Arboretum (Canada)

Distribution: Canada, Ukraine

Host: humus

Riccardoella (Proriccardoella) novaezealandiae* Fain et BarkerRiccardoella (Proriccardoella) novaezealandiae* Fain & Barker, 2004: 44

Type locality: Mt. Hikurangi, Poverty Bay

Distribution: New Zealand

Host: undescribed genus and species of Athoracophoridae (Gastropoda: Pulmonata)

Riccardoella (Proriccardoella) oudemansi* ThorRiccardoella oudemansi* Thor, 1932a: 249; Sellnick, 1940: 33; Willmann, 1941: 58; 1951: 142; Franz, 1954: 365; Varga & Kontschán, 2004: 95*Riccardoella jenynsi* Thor, 1933: 66*Riccardoella (Proriccardoella) oudemansi* Thor: Fain & Van Goethem, 1986: 129; Fain & Barker, 2004: 48

Type locality: Holland

Distribution: Austria, Bulgaria, Croatia, England, Holland, Hungary, Island, Italy, Mexico, ?Slovakia, South Africa

Hosts: *Arion ater*, *A. lusitanicus*, *A. rufus* (Gastropoda: Arionidae), *Deroceras reticulatum*, *Limax agrestis*, *L. cinereoniger*, *L. cinereus*, *L. flavus*, *L. maximus*, (Gastropoda: Limacidae), *Tandonia budapestensis* (Gastropoda: Milacidae), *Oxychilus draparnaudi*, *Meledella werneri* (Gastropoda: Zonitidae), *Cepaea nemoralis* (Gastropoda: Helicidae)***Riccardoella (Proriccardoella) reaumuri* Fain et Van Goethem***Riccardoella (Proriccardoella) reaumuri* Fain & Van Goethem, 1986: 134; Fain & Barker, 2004: 48; Waki & Shimano, 2019: 97

Type locality: Jura, nr. Ponarlier

Distribution: France, Japan

Host: *Arianta arbustorum* (Gastropoda: Helicidae)***Riccardoella (Proriccardoella) triodopsis* Fain et Klompen***Riccardoella (Proriccardoella) triodopsis* Fain & Klompen, 1990: 187

Type locality: Bankhead Nat. Forest, Lawrence Co., Alabama

Distribution: USA (Alabama), Japan

Hosts: *Xolotrema obstructa* [*Triodopsis. obstructa*] (Gastropoda: Polygyridae), *Acusta despecta sieboldtiana* (Gastropoda: Bradybaenidae)***Riccardoella (Proriccardoella) zadielensis* André, Ducarme et Lebrun***Riccardoella zadielensis* André, Ducarme & Lebrun, 2004: 85

Type locality: Zádiel Gorge, Zádiel and Silica (Slovakia), Amateur's Cave (Czech Rep.)

Distribution: Czech Rep., Slovakia

Host: free living

Subgenus ***Riccardoella*** Berlese*Riccardoella* Berlese, 1923: 244 (subgenus); Fain & van Goethem, 1986: 129Type species: *Acarus limacum* Schrank, 1776***Riccardoella (R.) limacum*** (Schrank)*Acarus limacum* Schrank, 1776: 13; 1781: 521? *Acarus helici* Schrank, 1803: 209*Ereynetes limacum* (Schrank): Berlese, 1883 (in part); Mégnin, 1889*Micrereunetes limacum*: Fain, 1964a: 100*Micrereunetes (Riccardoella) limacum*: Berlese, 1923: 244*Riccardoella limacum* (Schrank): Thor, 1929: 145; Oudemans, 1929: 254; 1931: 253; Turk & Phillips, 1945: 448 (in part); Schweizer & Bader, 1963: 249; Arutyunyan, 1972: 108; Haralabidis et al., 1983: 144*Riccardoella (R.) limacum* (Schrank): Fain & van Goethem, 1986: 130; Fain & Klompen, 1990: 190

Type locality: France

Distribution: Armenia, Belgium, Bulgaria, England, France, Greece, Italy, N. Macedonia ("S. Yugoslavia"), Poland, New Zealand, Serbia, South Africa, Switzerland, USA (recorded also from other countries, but, according to Fain & van Goethem, 1986, these data may concern *Riccardoella oudemansi*)Hosts: *Arianta arbustorum*, *Helix aspersa*, *H. lucorum*, *H. pomatia* (Gastropoda: Helicidae), *Cernuella aginnica* (Gastropoda: Hygromiidae), *Athoracophorus bitentaculatus* (Gastropoda: Athoracophoridae) and other snails***Riccardoella (R.) tokyoensis*** Waki, Hiruta et Shimano*Riccardoella tokyoensis* Waki, Hiruta & Shimano, 2018: 163

Type locality: Tokyo

Distribution: Japan

Hosts: *Tauphaedusa tau* (Gastropoda: Clausiliidae)

Species inquirenda:

Riccardoella concolor (Haldeman)*Hypopus concolor* Haldeman, 1851*Ereynetes concolor*: Banks, 1915: 22*Riccardoella concolor*: Thor, 1933

Distribution: ?North America

Subfamily ***Speleognathinae*** Womersley

Speleognathidae Womersley, 1936: 312 (see the comments of Domrow, 1969: 380)

Speleognathinae: Fain, 1957: 251 and auct.

Type genus: *Speleognathus* Womersley, 1936: 313

Tribe *Boydaiini* Fain

Boydaiini Fain, 1985a: 144

Type genus: *Boydaia* Womersley, 1953

Genus *Boydaia* Womersley

Boydaia Womersley, 1953: 82; Fain, 1962 : 7; 1963: 17

Type species: *Speleognathus sturni* Boyd, 1948

***Boydaia agelaii* Fain et Aitken**

Boydaia (*Boydaia*) *agelaii* Fain & Aitken, 1968: 82; Fain & Lukoschus, 1972a: 90

Boydaia agelaii Fain & Aitken: Bernardon et al., 2015, 2018

Type locality: La Paille Village, Trinidad

Distribution: Brazil, Suriname, Trinidad, USA

Hosts: *Agelaius icterocephalus*, *A. phoeniceus*, *A. ruficapillus*, *Chrysomus ruficapillus* (Passeriformes: Icteridae)

***Boydaia americana* Fain**

Boydaia spatulata americana Fain, 1963c: 46

Boydaia americana: Fain & Aitken, 1968: 80; 1970: 330

Boydaia (*Boydaia*) *americana* Fain: Fain, 1971a: 108

Type locality: South America, Brazil (Zoo birds)

Distribution: Brazil, South Africa, Trinidad

Hosts: *Guiraca coerulea coeruela*, *Sporophila americana*, *Cyanocompsa cyanoides rotschildii*, *Volatinia jacarina*, *Piranga rubra rubra*, *Tangara gyrola*, *Rhamphocelus carbo*, *Coereba flaveola*

***Boydaia aratingae* Fain**

Boydaia aratingae Fain, 1963: 42; Fain & Aitken, 1969: 34

Boydaia (*Boydaia*) *aringae* Fain: Fain, 1971a: 111

Type locality: Anvers (coming from Brazil)

Distribution: Brazil

Host: *Aratinga jandaya* (Psittaciformes: Psittacidae, Psittacinae)

***Boydaia bradornis* Fain**

Boydaia bradornis Fain, 1956c: 654; Zabludovskaya, 1998, 2012; Skoracki et al., 2018: 421

Boydaia (*Boydaia*) *bradornis* Fain, 1958a: 176

Type locality: Akanyaru (Rwanda)

Distribution: Rwanda, Ukraine

Hosts: *Agricola [Bradornis] pallidus griseus*, *Muscinia muscinia* (Passeriformes: Muscicapidae)

***Boydaia buphagi* Fain**

Boydaia (Boydaia) buphagi Fain: Fain, 1961: 58; 1963d: 56, 1971a: 110; Skoracki et al., 2018: 422

Type locality: Rwanda

Distribution: Rwanda

Hosts: *Buphagus africanus* (Passeriformes: Buphagidae), *Lamprocolius chloropterus* (Passeriformes: Sturnidae)

***Boydaia cecropis* Fain**

Boydaia (Boydaia) cecropis Fain, 1969c: 374; Skoracki et al., 2018: 423

Type locality: Akanyaru

Distribution: Rwanda

Host: *Cecropis abyssinica unitatis* (Passeriformes: Hirundinidae)

***Boydaia cinnyris* Fain**

Boydaia cinnyris Fain, 1969c: 373, 1971: 98; Skoracki et al., 2018: 423

Type locality: Akanyaru

Distribution: Rwanda

Hosts: *Cinnyris cupreus cupreus* (= *septrionalis*), *Chalcomitra senegalensis lamperti* (= *aequatorialis*) (Passeriformes: Nectariniidae)

***Boydaia clarki* Fain**

Boydaia clarki Fain, 1963: 41

Boydaia (Boydaia) clarki Fain: Fain, 1971a: 110

Type locality: Zoo d'Anvers (from the USA)

Distribution: USA

Host: *Callipepla squamata* (Galliformes: Odontophoridae)

***Boydaia colini* Clark**

Boydaia colini Clark, 1958: 78; Pence, 1973a: 365

Boydaia (Boydaia) colini Clark: Fain, 1971a: 110

Type locality: Maryland

Distribution: USA (Louisiana, Maryland)

Host: *Colinus virginianus* (Galliformes: Odontophoridae)

***Boydaia cyanerpes* Fain**

Boydaia cyanerpes Fain, 1963c: 45; Fain & Aitken, 1969: 42

Type locality: Recife (dead in Anvers)

Distribution: Brazil

Host: *Cyanerpes cyaneus* (Passeriformes: Thraupidae)

Boydaia faini Dusbábek et Černý

Boydaia faini Dusbábek & Černý, 1970: 276

Type locality: Havana

Distribution: Cuba

Host: *Dendroica cerulea* (Passeriformes: Parulidae)

Boydaia falconis Fain

Boydaia falconis Fain, 1956c: 657, 1963c: 60, 1972: 610; Domrow, 1969: 381; Skoracki et al., 2018: 423

Type locality: Akanyaru (Rwanda)

Distribution: Australia, Rwanda, Chad (Tibesti)

Hosts: *Falco berigora*, *F. cuvieri*, *F. t. tinnunculus* (Falconiformes: Falconidae)

Boydaia formicarii Fain et Aitken

Boydaia formicarii Fain & Aitken, 1970: 331

Type locality: Moscueiro Ferry, Benavides

Distribution: Brazil

Hosts: *Formicarius analis*, *F. colma* (Passeriformes: Formicariidae)

Boydaia hirundoae Fain

Boydaia hirundoae Fain, 1956c: 661; 1960: 114; 1963d: 179; Domrow, 1965: 43; 1969: 381; Pence, 1973a: 365; 1973: 887; 1975: 18; Fain & Aitken, 1968: 81; Fain & Hyland, 1970: 40; Skoracki et al., 2018: 423

Boydaia (Boydaia) hirundoae Fain: Fain, 1958a: 176; 1960: 114; 1963: 56, 1971: 100; Fain, Herin & Puylaert, 1977: 393

Type locality: Akanyaru (Rwanda)

Distribution: Australia, Belgium, Brazil, Mexico, Rwanda, South Africa, Trinidad & Tobago, USA

Hosts: *Hirundo abyssinica*, *H. neoxena*, *H. rustica*, *Petrochelidon [Hylochelidon] ariel*, *Progne chalybea*, *P. subis*, *Stelgidopteryx ruficollis* (Passeriformes: Hirundinidae)

Boydaia indica Fain

Boydaia indica Fain: 1969c: 373; Skoracki et al., 2018: 424

Boydaia (Boydaia) indica Fain: Fain, 1971: 101

Type locality: Anvers Zoo

Distribution: DR Congo, India, East Africa

Hosts: *Acridotheres tristis*, *Gracupita [Sturnopastor] contra*, *Sturnus malabaricus*, *S. pagodarum*, *Lamprocolius chloropterus*, *L. chalybaeus*, *Spreo superbus* (Passeriformes: Sturnidae)

Boydaia jordani Van Eyndhoven

Boydaia jordani Van Eyndhoven, 1955: 203

Boydaia (Boydaia) jordani Van Eyndhoven: Fain, 1958a: 176

Boydaia turdi Clark, 1967: 294 – Type: ex *Turdus migratorius*, Bitterroot Valley, Montana, USA

Type locality: Kampen, Holland

Distribution: Holland, USA

Hosts: *Turdus migratorius*, *T. pilaris* (Passeriformes: Turdidae)

Boydaia laticoxa Fain et Aitken

Boydaia laticoxa Fain & Aitken, 1969: 34; 1970: 328

Type locality: APEG Forest nr. Belem

Distribution: Brazil

Host: *Glyphorynchus spirurus* (Passeriformes: Dendrocolaptidae)

Boydaia laticoxa philydori Fain et Aitken

Boydaia (Boydaia) laticoxa philydori Fain & Aitken, 1970: 328

Type locality: APEG Forest (Station A), IPEAN, Belém

Distribution: Brazil

Host: *Philydor pyrrhodes* (Passeriformes: Furnariidae)

Boydaia locustellae Fain

Boydaia locustellae Fain, 1970b: 320

Type locality: Hoboken nr. Anvers

Distribution: Belgium

Host: *Locustella luscinioides* (Passeriformes: Locustellidae)

Boydaia loxiae Fain

Boydaia loxiae Fain, 1963d: 180

Type locality: Belgium

Distribution: Belgium

Host: *Loxia curvirostra* (Passeriformes: Fringillidae)

Boydaia maluri Domrow

Boydaia maluri Domrow, 1969: 386

Type locality: Cowley Beach, Kowanyama

Distribution: Australia

Hosts: *Malurus amabilis*, *M. melanocephalus* (Passeriformes: Sylviidae)

Boydaia mimi Fain et Hyland

Boydaia mimi Fain & Hyland, 1970: 40; Pence, 1973: 365

Type locality: Vera Cruz

Distribution: Mexico

Hosts: *Mimus gilvus*, *M. polyglottos* (Passeriformes: Mimidae)

Boydaia morenoi Dusbábek et Černý

Boydaia morenoi Dusbábek & Černý, 1970: 274

Type locality: El Dorado, Prov. of Las Villas

Distribution: Cuba

Host: *Mimus polyglottos orpheus* (Passeriformes: Mimidae)

Boydaia myzomelae Domrow

Boydaia myzomelae Domrow, 1969: 383

Type locality: Esk

Distribution: Australia

Host: *Myzomela sanguinolenta* (Passeriformes: Meliphagidae)

Boydaia nectarinia Fain

Boydaia (*Boydaia*) *nectarinia* Fain, 1958a: 180, 1969

Type locality: Akanyaru

Distribution: Rwanda

Hosts: *Cyanomitra verticalis viridisplendens*, *Chalcomitra senegalensis lamperti* (= *aequatorialis*), *Cinnyris cupreus cupreus* (= *septentrionalis*) (Passeriformes: Nectariniidae)

Boydaia pheuticola Pence et Casto

Boydaia pheuticola Pence & Casto, 1976: 468; Spicer, 1977b: 498

Type locality: Texas, Jeff Davis Co., Fort Davis

Distribution: Mexico, USA

Hosts: *Pheucticus melanocephalus*, *Spiza americana* (Passeriformes: Cardinalidae)

Boydaia podargi Fain et Lukoschus

Boydaia podargi Fain & Lukoschus, 1979a: 21; Koch, 1986: 61

Type locality: W. Australia

Distribution: Australia

Host: *Podargus strigoides* (Caprimulgiformes: Podargidae)

Boydaia psalidoprocnei Fain

Boydaia psalidoprocnei Fain, 1956c: 660, 1963 : 57, 1963c: 56; Pence, 1973a: 365

Boydaia (Boydaia) psalidoprocnei Fain, 1958a: 176, 1971: 100

Type locality: Akanyaru (Rwanda)

Distribution: Canada, Russia, Rwanda, USA (Louisiana)

Hosts: *Iridoprocne bicolor*, *Psalidoprocne albiceps*, *Riparia riparia*, *Tachycineta bicolor*
(Passeriformes: Hirundinidae)

Boydaia psittaci Fain et Mortelmans

Boydaia (Boydaia) psittaci Fain & Mortelmans, 1959: 16

Boydaia psittaci: Fain & Aitken, 1969: 42

Type locality: Antwerp Zoo [Peru]

Distribution: Brazil, Mexico, Peru

Hosts: *Pionites melanocephala*, *P. leucogaster*, *Bolborhynchus lineola*, *Forpus passerinus*,
Brotogetis versicolorus, *Amoropsittaca aymara* (Psittaciformes: Psittacidae)

Boydaia pycnonoti Fain

Boydaia pycnonoti Fain, 1956c: 655; Skoracki et al., 2018: 425

Boydaia (Boydaia) pycnonoti Fain: Fain, 1958a: 176, 1963c: 57; 1971: 98; Fain, Herin & Puylaert, 1977: 393

Type locality: Rwanda

Distribution: India, Kenya, Malaysia, Rwanda, South Africa, Zimbabwe

Hosts: *Pycnonotus barbatus tricolor*, *P. goiavier personatus*, *P. jocosus*, *P. leucogenys leucotis*,
P. leucotis, *P. xanthopygus* (Passeriformes: Pycnonotidae)

Boydaia quiscali Clark

Boydaia quiscali Clark, 1960: 108; Fain & Aitken, 1970: 330; Pence, 1973a: 365

Boydaia (Boydaia) quiscali Clark, 1960: Fain, 1971 : 109

Type locality: Louisiana

Distribution: Brazil, Mexico, USA

Hosts: *Quiscalus quiscula* (Passeriformes: Icteridae), *Saltator maximus*, *S. coerulescens*
(Passeriformes: Thraupidae)

Boydaia rosickyi Dusbábek et Černý

Boydaia rosickyi Dusbábek & Černý, 1970: 273

Type locality: Havana

Distribution: Cuba

Host: *Passerina cyanea* (Passeriformes: Fringillidae)

Boydaia saxicolae Fain

Boydaia saxicolae Fain, 1969: 370, 1971: 98; Skoracki et al., 2018: 425

Boydaia (Boydaia) saxicolae Fain: Fain, 1971a: 100

Type locality: Astrida (= Bucavu), Rugege Forest (Rwanda)

Distribution: Holland, Rwanda

Hosts: *Saxicola torquatus axillaris*, *Monticola angolensis*, *Myrmecocichla nigra* (Passeriformes: Muscicapidae), *Turdus pilaris* (Passeriformes: Turdidae)

Boydaia sinensis Fain et Bafort

Boydaia (*Boydaia*) *sinensis* Fain & Bafort, 1963: 80

Type locality: China

Distribution: China

Host: *Leothrix lutea* (Passeriformes: Timaliidae)

Boydaia spatulata Fain

Boydaia sturni var. *spatulata* Fain, 1955b: 695

Boydaia spatulata Fain, 1956a: 47; 1956c: 651; 1956a: 33; 1958a: 10; Domrow 1969: 381; Skoracki et al., 2018: 426

Boydaia (*Boydaia*) *spatulata* Fain, 1958a: 176; 1960 : 114, 1963c: 56; 1971: 100

Type locality: Akanyaru, Butare (= Astrida)(Rwanda)

Distribution: Australia, Botswana, Guinea, Rwanda, South Africa, USA

Hosts: *Melaniparus leucomelas insignis* (Passeriformes: Paridae), *Erythropygia* [*Cercotrichos*] *hartlaubi*, *Pogonocichla stellata ruwenzorii*, *Sheppardia polioptera*, *Cercomela tractrac* (Passeriformes: Muscicapidae), *Sialia sialis* (Passeriformes: Turdidae), *Tiaris canorus*, *Tangara* sp. (Passeriformes: Thraupidae), *Cissomela pectoralis*, *Philemon citreogularis*, *P. corniculatus* (Passeriformes: Melliphagidae), *Iduna similis* (Passeriformes: Acrocephalidae), *Schistolais leucopogon reichenowi* (Passeriformes: Cisticolidae), *Macronyx croceus* (Passeriformes: Motacillidae),

Boydaia sturni (Boyd)

Speleognathus sturni Boyd, 1948: 9; 1951: 79

Boydaia sturni: Womersley, 1953: 82; Cooreman, 1954: 426; Fain, 1956a: 42; 1956c: 651; 1961: 57; 1963c: 56; Domrow, 1969: 381; Pence, 1973a: 365

Boydaia (*Boydaia*) *sturni*: Fain, 1958a: 176

Type locality: Ithaca, N.Y.

Distribution: [Australia], Belgium, USA

Hosts: *Acridotheres tristis*, *Ampeliceps coronatus*, *Sturnus vulgaris*, (Passeriformes: Sturnidae), *Quiscalus* [*Cassidix*] *mexicanus* (Passeriformes: Icteridae)

Boydaia synallaxis Fain, Hyland et Aitken

Boydaia (*Boydaia*) *synallaxis* Fain, Hyland & Aitken, in Fain, 1969c: 376; Fain & Aitken, 1970: 332

Type locality: Musqueiro Ferry, Para, Belém (Brazil), Vera Cruz Cruz (Mexico)

Distribution: Brazil, Mexico

Hosts: *Synallaxis rutilans*, *S. gujanensis*, *S. erythrothorax* (Passeriformes: Furnariidae),
Empidonax sp. (Passeriformes: Tyrannidae)

***Boydaia tyrannis* Ford**

Boydaia tyrannis Ford, 1959: 380; Fain & Aitken, 1970: 330

Boydaia (*Boydaia*) *tyrannis* Ford: Fain, 1971a: 109

Type locality: Hickory Corners, Michigan

Distribution: Brazil, Mexico, Trinidad, USA (Michigan)

Hosts: *Tyrannus tyrannus*, *Elaenia flavogaster*, *Myiophobus fasciatus*, *Pyrocephalus rubinus*
(Passeriformes: Tyrannidae), *Manacus manacus*, *Pipra pipra*, *P. fasciicauda*, *P. iris* (Pas-
seriformes: Pipridae), *Pachyramphus* [= *Platypsaris*] *aglaiae* (Passeriformes: Tityridae)

***Boydaia willmanni* Fritsch**

Boydaia willmanni Fritsch, 1962: 237

Type locality: Erlangen

Distribution: Germany

Host: *Gallinago* [*Capella*] *gallinago* (Charadriiformes: Scolopacidae)

***Boydaia zosteropsis* Fain**

Boydaia zosteropsis Fain, 1963c: 43; 1970b: 320; Domrow, 1969: 381; Skoracki et al., 2018:
426

Boydaia (*Boydaia*) *zosteropsis* Fain: Fain, 1971a: 110

Type locality: Rugege (Rwanda)

Distribution: Australia, Rwanda

Hosts: *Zosterops lateralis*, *Z. senegalensis stuhlmanni* (= *scotti*) (Passeriformes: Zoster-
opidae)

***Boydaia zumpti* Fain**

Boydaia zumpti Fain, 1955b: 695; 1956a: 45; 1956c: 654; Skoracki et al., 2018: 427

Boydaia (*Boydaia*) *zumpti* Fain, 1958a: 176

Type locality: Astida (= Butare)

Distribution: Rwanda

Hosts: *Euryllus* [*Andropadus*] *latirostris latirostris* [= *eugenius*], *Bleda syndactyla woosnami*,
(Passeriformes: Pycnonotidae), *Schoenicola brevirostris alexinae* (Passeriformes:
Locustellidae)

Genus *Coboydaia* Fain

Boydaia (*Coboydaia*) Fain, 1971: 98 (subgenus)

Coboydaia Fain: Fain, 1985a: 146 (genus)

Type species: *Boydaia clavata* Fain, 1955

Subgenus *Apodiboydaia* Fain

Coboydaia (*Apodiboydaia*) Fain, 1985a: 146

Type species: *Boydaia trochila* Fain, 1958

***Coboydaia* (*Apodiboydaia*) *trochila* (Fain)**

Boydaia trochila Fain, 1958: 11

Boydaia (*Coboydaia*) *trochila* Fain: Fain, 1971a: 112

Boydaia (*Apodiboydaia*) *trochila* Fain: Fain, 1985a: 146

Type locality: Antwerp Zoo

Distribution: Brazil

Host: *Chlorestes notatus* (Apodiformes: Trochilidae)

Subgenus ***Coboydaia*** Fain

Boydaia (*Coboydaia*) Fain, 1971a: 98 (subgenus)

Coboydaia Fain: Fain, 1985a: 146 (genus)

Type species: *Boydaia clavata* Fain, 1955

***Coboydaia* (*Coboydaia*) *amandavae* (Fain)**

Boydaia amandavae Fain, 1962b: 363, 1963 : 58, 1970a: 319

Coboydaia amandavae: Fain, 1970b: 319; 1971: 101; Skoracki et al., 2018: 427

Type locality: Antwerp Zoo

Distribution: Central Africa, Indonesia (Java)

Hosts: *Amandava subflava*, *A. amandava*, *Erythrura prasina*, *Sporaeginthus subflavus* (Passeriformes: Estrildidae)

***Coboydaia* (*Coboydaia*) *clavata* (Fain)**

Boydaia clavata Fain, 1955b: 694; 1956c: 655, 1956a: 44, 1960b: 101, 1963 : 371, 1963c: 59; Skoracki et al., 2018: 428

Boydaia (*Apodiboydaia*) *clavata* Fain: Zabludovskaya, 2002: 93

Boydaia (*Coboydaia*) *clavata* Fain: Fain, Herin & Puylaert, 1977: 392

Type locality: Rwanda

Distribution: Burundi, Cameroon, Ghana, Guinea, Rwanda, Senegal, South Africa, Zambia, Zimbabwe

Hosts: *Euplectes hordeaceus*, *E. ardens*, *E. macroura*, *Othyphantes baglafecht stuhlmanni*, *Ploceus baglafecht stuhlmanni*, *P. [Textor] cucullatus*, *P. [Textor] cucullatus graueri*, *P. pelzelni*, *P. velatus*, *P. vitellinus*, *P. xanthops* (= *P. x. camburni*), *Quelea quelea*, *Q. quelea centralis*, *Q. quelea aethiopica*, *Q. erythrops* (Passeriformes: Ploceidae), *Saxicola rubetra* (Passeriformes: Turdidae), *Vidua chalybeata*, *V. chalybeata amauropteryx* (Passeriformes: Viduidae), *Streptopelia vinacea* (Columbiformes: Columbidae)

***Coboydaia* (*Coboydaia*) *nigra* (Fain)**

Boydaia nigra Fain, 1955b: 695; 1956a: 44; 1956c: 658; 1959: 33; 1962: 266; 1963a: 168, 1963c: 58, 1963d: 179; Fain & Aitken, 1968: 81; Pence 1973a: 365, 1973c: 888

Boydaia (Coboydaia) nigra Fain, 1955b: 695; 1971: 101; Fain & Goff, 1980: 506; Fain, Herin & Puylaert, 1977: 393

Boydaia (Coboydaia) nigra nigra: Fain & Hyland 1975: 207

Boydaia nigra icteri Fain & Hyland, 1970: 38

Ereynetes crassipes Berlese & Trouessart, 1889: 141; Fain, 1957: 253

Boydaia crassipes (Berlese et Trouessart, 1889): Domrow 1969: 386 (Australia): *Riccardoella crassipes*: Thor, 1933: 66

Boydaia sturni, sensu Porter & Strandtmann, 1952 not *Speleognathus sturni* Boyd, 1948; Fain, 1958a: 179

Coboydaia nigra (Fain): Skoracki, 2018: 430

Type locality: Rwanda

Distribution: Belgium, Botswana, Burundi, Cameroon, Guinea, Kazakhstan, Mexico, Russia, Rwanda, South Africa, Trinidad & Tobago, Turkmenistan, Ukraine, USA (Hawaii)

Hosts: *Icterus galbula*, *I. spurius* (Passeriformes: Icteridae), *Motacilla capensis*, *M. flava* (Passeriformes: Motacillidae), *Carduelis carduelis*, *Carpodacus erythrinus*, *Euphonia violacea*, *Fringilla coelebs*, *F. montifringilla*, *Haemorrhous mexicanus*, *Serinus sulphuratus shelleyi*, *S. citrinelloides frontalis*, *S. mozambicus barbatus*, *S. [Poliospiza] burtoni tanganyicae*, *Serinus [Poliospiza] gularis* (Passeriformes: Fringillidae), *Emberiza aureola*, *E. citrinella*, *E. pusilla*, *E. rustica*, *E. rutila*, *E. spodocephala*, *E. tristrami*, *Spizella passerina* (Passeriformes: Emberizidae), *Passer ammodendri*, *P. domesticus*, *P. griseus*, *P. hispaniolensis*, *P. montanus* (Passeriformes: Passeridae), *Tanagra violacea* (Passeriformes: Thraupidae), *Oenanthe isabellina* (Passeriformes: Turdidae), *Lalage tricolor* (Passeriformes: Campophagidae)

***Coboydaia (Coboydaia) nigra motacillae* (Fain)**

Boydaia nigra motacillae Fain, 1969c: 375

Coboydaia nigra motacillae Fain: Zabludovskaya, 2002: 93

Type locality: Nyakibanda, Butare (= Astrida)(Rwanda), Busumbura (Burundi)

Distribution: Belgium, Burundi, Rwanda, Russia, South Africa

Hosts: *Anthus trivialis*, *Motacilla aguimp vidua*, *M. alba*, *M. capensis*, *M. flava* (Passeriformes: Motacillidae), *Acrocephalus arundinaceus*, *A. s. scirpaceus* (Passeriformes: Acrocephalidae)

***Coboydaia (Coboydaia) sturnellae* (Clark)**

Boydaia sturnellae Clark, 1960: 104

Boydaia (Coboydaia) sturnellae: Fain, 1971a: 112

Type locality: Laurel, Maryland

Distribution: USA

Host: *Sturnella magna* (Passeriformes: Icteridae)

Tribe **Trispeleognathini** Fain

Trispeleognathini Fain, 1985a: 144

Type genus: *Trispeleognathus* Fain, 1958

Genus ***Astrida*** Fain

Astrida Fain, 1955b: 696

Type species: *Astrida caprimulgi* Fain, 1955

Subgenus ***Astrida*** Fain

Astrida Fain, 1955b: 696

Type species: *Astrida caprimulgi* Fain, 1955

Astrida (Astrida) caprimulgi Fain

Astrida caprimulgi Fain, 1955b: 696; 1956a: 33; 1956c: 646, 1962a: 9, 1963c: 62; Pence, 1973b: 879, 1973c: 886; Skoracki et al., 2018: 403

Type locality: Muheri nr. Astrida (= Butare)(Rwanda)

Distribution: Malaysia, Rwanda, USA

Hosts: *Anthrostromus carolinensis*, *Scotornis fossii welwitschi* (Caprimulgiformes: Caprimulgidae), *Bubo africanus*, *Glaucidium perlatum*, *Otus senegalensis*, *O. spilocephalus vulpes* (Strigiformes: Strigidae)

Astrida (Astrida) onychognathi Fain

Astrida onychognathi Fain, 1964c: 37

Type locality: Butare (= Astrida)

Distribution: Rwanda

Host: *Onychognathus walleri elgonensis* (Passeriformes: Sturnidae)

Subgenus ***Cerylonyssus*** Fain et Aitken

Cerylonyssus Fain & Aitken, 1970: 326

Type species: *Astrida (Cerylonyssus) chlorocerylei* Fain et Aitken, 1970

Astrida (Cerylonyssus) chlorocerylei Fain et Aitken

Astrida (Cerylonyssus) chlorocerylei Fain & Aitken, 1970: 327

Type locality: Sapucajuba, IPEAN, Belém

Distribution: Brazil

Host: *Chloroceryle aenea* (Coraciiformes: Alcedinidae, Cerylinae)

Genus ***Aureliania*** Fain

Aureliania Fain, 1958a: 177 (subgenus)

Aureliania Fain, 1970b: 321 (genus)

Type species: *Boydaia aureliani* Fain, 1955

Aureliania aureliani (Fain)

Boydaia aureliani Fain, 1955b: 694; 1956a: 36

Boydaia (Aureliania) aureliani Fain: Fain, 1958a: 177

Neoboydaia (Aureliania) aureliani (Fain): Fain, 1963: 61, 1963d: 181, 1963c: 52; Domrow, 1969: 389.

Aureliania aureliani (Fain): Fain 1962a: 9, 1985a: 146; Domrow 1975: 18, 1991: 1289; Skoracki et al., 2018: 404

Type locality: Butare (= Astrida)(Rwanda)

Distribution: Australia, Belgium, Rwanda

Hosts: *Tyto alba alba*, *T. alba affinis* (Strigiformes: Tytonidae)

***Aureliania longipilis* (Rosas Costa)**

Speleognathus longipilis Rosas Costa, 1955: 79

Boydaia (Aureliania) longipilis (Rosas Costa): Fain, 1958a: 179

Neoboydaia (Aureliania) longipilis (Rosas Costa): Fain, 1963c: 61

Aureliania longipilis (Rosas Costa):

Type locality: Peia. de Buenos-Aires

Distribution: Argentina

Host: *Guira guira* (Cuculiformes: Cuculidae)

Genus ***Meropiboydaia*** Fain

Meropiboydaia Fain, 1985a: 145

Type species: *Boydaia merops* Fain, 1955

***Meropiboydaia merops* (Fain)**

Boydaia merops Fain, 1955b: 694; 1956a: 41, 1956d: 30

Aureliania merops, Fain 1958b: 177

Neoboydaia (Aureliania) merops: Fain, 1963c: 61

Neoboydaia merops (Fain): Domrow, 1966: 210, 1969: 389

Meropiboydaia merops (Fain): Fain, 1985a: 146; Domrow, 1991: 1294

Type locality: Astrida (= Butare), Rwanda

Distribution: Australia, Rwanda

Hosts: *Merops apiaster*, *M. ornatus* (Coraciiformes: Meropidae)

Genus ***Metaboydaia*** Fain

Metaboydaia Fain, 1962: 7; 1985a: 149

Type species: *Speleognathus poffei* Fain, 1955

***Metaboydaia poffei* (Fain)**

Speleognathus poffei Fain, 1955b: 695; 1956a: 23

Speleognathus (Neospeleognathus) poffei: Fain, 1958a: 178

Neoboydaia (Metaboydaia) poffei: Fain 1962a: 7

Trispeleognathus (Neospeleognathus) poffei: Fain, 1963c: 24

Metaboydaia poffeii Fain, 1985a: 149

Type locality: Akanyaru, Astrida (= Butare)

Distribution: Rwanda

Hosts: *Scopus umbretta* (Pelecaniformes: Scopidae), *Coracias caudatus caudatus* (Coraciiformes: Coraciidae)

Genus ***Neastrida*** Fain

Neastrida Fain, 1962a: 9

Type species: *Astrida parrae* Fain, 1956

Neastrida parrae (Fain)

Astrida parrae Fain, 1956e: 113

Astrida (*Neastrida*) *parrae*: Fain, 1962a: 9, 1963c: 26

Neastrida parrae: Fain 1985a: 148.

Type locality: Butare (Rwanda)

Distribution: Rwanda, South Africa

Host: *Actophilornis africanus* (Charadriiformes: Jacanidae)

Genus ***Neoboydaia*** Fain

Boydaia (*Neoboydaia*) Fain, 1958a: 177 (subgenus)

Neoboydaia Fain, 1961b: 162, 1962a: 7, 1963c: 52

Type species: *Boydaia philomachi* Fain, 1956

Neoboydaia colymbiformi Clark

Neoboydaia colymbiformi Clark, 1964: 158; Domrow, 1969: 189; Pence, 1973a: 364, 1975: 18; Fain, 1985a: 148

Type locality: California

Distribution: USA (California, Louisiana)

Hosts: *Podiceps* [*Colymbus*] *nigricollis*, *P. ruficollis*, *Podilymbus podiceps* (Podicipediformes: Podicipedidae)

Neoboydia galachrysiae Fain

Neoboydia galachrysiae Fain, 1961b: 129; 1985a: 148; Skoracki et al., 2018: 409

Neoboydaia (*Neoboydaia*) *galachrysiae*: Fain, 1963c: 19; 1964 : 137

Type locality: Kasongo (Maniema Prov.)

Distribution: Democratic Republic of the Congo

Hosts: *Glareola* [*Galachrysia*] *cinerea*, *G. nuchalis* (Aves, Glareolidae)

Neoboydaia philomachi (Fain)

Boydaia philomachi Fain, 1956a: 41; 1956d: 27; 1962e: 300

Boydaia (*Neoboydaia*) *philomachi* Fain, 1958a: 177, 1962a: 7, 1964b: 141

Neoboydaia (*Neoboydaia*) *philomachi*: Fain, 1962a: 7, 1963c: 18, 1964b: 141; Domrow, 1965: 43

Neoboydaia philomachi eroliae Fain et Hyland, 1970: 42, 1975: 204; Zabłudovskaya, 1998: 48

Neoboydaia philomachi: Clark, 1964: 16, fig. 2; Domrow, 1965: 43, 1969: 388; Fain & Aitken 1968: 84; Pence 1973a: 364, 1973c: 884, 885, 891; Fain, 1985a: 148; 1985b: 254

Neoboydaia philomachi thalasseus Fain & Hyland 1975: 204

Type locality: Butare (= Astrida), Rwanda

Distribution: Australia, Russia, Rwanda, USA

Hosts: *Actitis macularius*, *Arenaria interpres*, *Gallinago gallinago*, *Limnodromus griseus*, *L. scolopaceus*, *Limosa lapponica*, *Calidris* [*Philomachus*] *pugnax*, *C. melanotos*, *C. minutilla*, *Tringa flavipes*, *T. melanoleuca*, *T. glareola*, *T. solitaria* (Charadriiformes: Scolopacidae), *Sterna hirundo*, *Thalasseus maximus* (Charadriiformes: Laridae, Sterninae)

Genus ***Ophthalmognathus*** Dubinin

Ophthalmognathus Dubinin, 1957: 66

Neospeleognathus Fain, 1958a: 178 (subgenus of *Speleognathus*); 1985a: 147 (syn.)

Type species of *Ophthalmognathus*: *Ophthalmognathus dogieli* Dubinin, 1957

Type species of *Neospeleognathus*: *Speleognathus schoutedeni* Fain, 1955

Ophthalmognathus schoutedeni (Fain)

Speleognathus schoutedeni Fain, 1955b: 695; 1956b: 18; 1962e: 301

Speleognathus (*Neospeleognathus*) *schoutedeni*: Fain, 1958a: 178

Ophthalmognathus dogieli Dubinin, 1957: 68 – Russia, syn. by Domrow, 1969: 392

Neoboydaia (*Neospeleognathus*) *schoutedeni*: Fain, 1962 : 7; 1963c: 62, 1963d: 23

Trispeleognathus (*Neospeleognathus*) *schoutedeni*: Fain, 1963c: 23

Ophthalmognathus schoutedeni (Fain): Domrow, 1969: 392; 1991: 1295; Fain & Goff, 1980: 506; Fain, 1985a: 147; Halliday, 1998: 50; Skoracki et al., 2018: 418

Type locality: Butare (= Astrida)

Distribution: Australia, Rwanda, Russia

Hosts: *Ardea cinerea*, *Ardeola idae*, *Nycticorax caledonicus*, *N. nycticorax* (Pelecaniformes: Ardeidae)

Ophthalmognathus tenorioae Fain et Goff

Ophthalmognathus tenorioae Fain & Goff, 1980: 506; Goff, 1983: 167; Fain, 1985a: 147

Type locality: Oahu I., Honolulu, Campbell Estate Road

Distribution: Rwanda, USA (Hawaii, Oahu I.)

Hosts: *Nycticorax nycticorax*, *N. n. hoactli* (Pelecaniformes: Ardeidae)

Genus ***Phoenicopteriella*** Fain

Phoenicopteriella Fain, 1970b: 323

Type species: *Phoenicopteriella mirabilis* Fain, 1970

***Phoenicopteriella mirabilis* Fain**

Phoenicopteriella mirabilis Fain, 1970b: 323; 1985a: 152

Type locality: North Africa

Distribution: North Africa

Host: *Phoenicopterus ruber* (Phoenicopteriformes: Phoenicopteridae)

***Phoenicopteriella womersleyi* (Fain)**

Speleognathus womersleyi Fain, 1955b: 695; 1956a: 21; Clark, 1958: 84

Trispeleognathus womersleyi: Fain 1958b: 178, 1962a: 9; Fain & Hyland 1975: 205; Kaneko, Matsudaira & Prince Masahito, 1978: 147

Trispeleognathus (Trispeleognathus) womersleyi: Fain, 1963c: 23

Ophthalmognathus womersleyi: Domrow, 1969: 390; Spicer, 1977: 498

Phoenicopteriella womersleyi (Fain): Fain, 1985a: 152, 1985b: 254; Skoracki et al., 2018: 412

Type locality: Butare (= Astrida)(Rwanda)

Distribution: Japan, Rwanda, USA

Hosts: *Authya affinis*, *Anas acuta*, *A. clypeata*, *A. discors*, *A. strepera*, *Dendrocygna viduata*, *Sarkidiornis melanotus* (Anseriformes: Anatidae)

Genus ***Picinyssus* Fain**

Picinyssus Fain, 1969c: 369

Type species: *Picinyssus buccanodon* Fain, 1969

***Picinyssus buccanodon* Fain**

Picinyssus buccanodon Fain, 1969c: 370; 1985a: 151

Type locality: Butahiro and Kamahia (Nord Kivu)

Distribution: DR Congo

Host: *Buccanodon duchaillui* (Piciformes: Lybiidae)

Genus ***Psittaboydaia* Fain**

Psittaboydaia Fain, 1985a: 145

Trichoglossiella Fain, 1985a: 145

Type species of *Psittaboydaia*: *Neoboydaia psittaculae* Fain, 1962

Type species of *Trichoglossiella*: *Aureliania trichoglossi* Fain, 1970

***Psittaboydaia amazona* (Fain)**

Trispeleognathus (Neospeleognathus) amazona Fain, 1972: 90 (in Fain & Lukoschus, 1972)

Psittaboydaia (P.) amazona (Fain): Fain, 1985a: 145

Type locality: Meerzorg

Distribution: Suriname

Host: *Amazona amazonica* (Psittaciformes: Psittacidae)

***Psittaboydaia psittaculae* (Fain)**

Neoboydaia psittaculae Fain, 1962: 7; 1962 : 318; Domrow, 1969: 388

Neoboydaia (Neoboydaia) psittaculae Fain, 1963c: 19

Psittaboydaia (Psittaboydaia) psittaculae (Fain): Fain, 1985a: 147; Skoracki et al., 2018: 415

Type locality: Central Africa

Distribution: Australia, Central Africa

Hosts: *Agapornis roseicollis*, *Trichoglossus moluccanus*, *Psitteuteles versicolor*, *Psittacula krammeri* (Psittaciformes: Psittaculidae)

***Psittaboydaia trichoglossi* (Fain)**

Aureliania trichoglossi Fain, 1970b: 321

Psittaboydaia (Trichoglossiella) trichoglossi (Fain): Fain, 1985a: 145

Type locality: Anvers Zoo

Distribution: New Guinea

Host: *Trichoglossus haematod forsteni* (Psittaciformes: Psittaculidae)

Genus *Pterniboydaia* Fain

Pterniboydaia Fain, 1985a: 146

Type species: *Boydaia pternistis* Fain, 1955

***Pterniboydaia pternistis* (Fain)**

Boydaia pternistis Fain, 1955a: 145, 1956c: 646

Aureliania pternistis (Fain): Fain, 1963 : 373

Neoboydaia pternistis (Fain): Fain, 1963c: 21; Kaneko, Kadosaka & Toshioka, 1977: 163

Neoboydaia (Aureliania) pternistis (Fain): Fain, 1963c: 61

Pterniboydaia pternistis (Fain): Fain, 1985a: 146; Skoracki et al., 2018: 416

Type locality: Astrida (= Butare) (Rwanda)

Distribution: Belgium, Japan, Rwanda, Zambia

Hosts: *Bambusicola thoracica*, *Pternistis afer*, *P. swainsoni*, *Perdix p. perdix* (Galliformes: Phasianidae)

Genus *Ralliboydaia* Fain

Neoboydaia (Ralliboydaia) Fain, 1962b: 365 (subgenus)

Ralliboydaia Fain: Fain, 1985a: 151 (genus); Fain, 1963: 52 is synonymizing *Ralliboydaia* with *Neoboydaia*.

Type species: *Neoboydaia (Ralliboydaia) latiralli* Fain, 1962

Ralliboydaia coccyzae* (Pence)Astrida coccyzae* Pence, 1973a: 366*Neoboydaia* (*Ralliboydaia*)*Ralliboydaia coccyzae* (Pence): Fain, 1985a: 151

Type locality: Mandeville, La.

Distribution: USA (Louisiana)

Host: *Coccyzus americanus* (Cuculiformes: Cuculidae)***Ralliboydaia latiralli* (Fain)***Neoboydaia* (*Ralliboydaia*) *latiralli* Fain, 1962b: 365*Neoboydaia* (*Neoboydaia*) *latiralli* Fain, 1963c: 20*Ralliboydaia latiralli* (Fain): Fain, 1985a: 151

Type locality: Brazil

Distribution: Brazil

Host: *Latirallus melanophaius oenops* (Ralliformes: Rallidae)***Ralliboydaia porphyronis* (Domrow)***Speleognathopsis porphyronis* Domrow, 1965: 44; 1969: 393*Ralliboydaia porphyronis* (Domrow): Fain, 1985a: 151

Type locality: Samford, S. E. Queensland

Distribution: Australia (Queensland)

Host: *Porphyrio melanotus* (Gruiformes: Rallidae)**Genus *Speleognathopsis* Cooreman***Speleognathopsis* Cooreman, 1954: 428Type species: *Speleognathopsis galli* Cooreman, 1954**Subgenus *Speleognathopsis* Cooreman***Speleognathopsis* Cooreman, 1954: 428Type species: *Speleognathopsis galli* Cooreman, 1954***Speleognathopsis* (*S.*) *accipitris* (Domrow)***Ophthalmognathus accipitris* Domrow, 1969: 390; Fain, 1985a: 146*Speleognathopsis accipitris* (Domrow): Domrow, 1991: 1301

Type locality: Kowanyama

Distribution: Australia

Host: *Accipiter fasciatus* (Falconiformes: Accipitridae)***Speleognathopsis* (*S.*) *benoitii* Fain [see syn. of *wai* and *charadricola* in Domrow, 1969: 393]]***Speleognathopsis benoitii* Fain, 1955b: 696; 1956a: 29; 1962 : 9; 1963c: 25; 1985a: 150; Domrow, 1966: 210; 1969: 393; 1991: 1301; McDaniel, 1967: 94

Speleognathopsis wai Fain, Vercammen-Grandjean & Wagner 1966: 115. Type locality: Bloemhof, Transvaal, South Africa (syn. by Domrow, 1969: 393)

Type locality: Butare (= Astrida), Rwanda

Distribution: Australia, Rwanda, USA (Texas)

Hosts: *Charadrius melanops*, *Erythrogonyx cinctus*, *Lobibyx miles*, *Pluvialis squatarola*, *Vanellus* [*Hemiparra*] *crassirostris*, *V. senegallus* (Charadriiformes: Charadriidae)

***Speleognathopsis (S.) charadricola* Fain**

Speleognathopsis charadricola Fain, 1964c: 35; 1985a: 150

Type locality: Zoo Anvers

Distribution: Central Africa

Host: *Charadrius (Leucopoliis) pecuarius* (Charadriiformes: Charadriidae)

***Speleognathopsis (S.) galli* Cooreman**

Speleognathopsis galli Cooreman, 1954: 426; Fain, 1963 : 53; 1963c: 62; 1985a: 149; Domrow, 1969: 392; Talbot, 1969: 582; Faccini, 1981: 135; Panda et al., 1987: 507

Type locality: Astrida (= Butare), Rwanda

Distribution: Brazil, India, Papua New Guinea, Rwanda

Hosts: *Gallus gallus domesticus* (Galliformes: Phasianidae), *Numida meleagris intermedia* (Galliformes: Numididae)

Subgenus ***Speleomyotis* Fain**

Speleomyotis Fain, 1970: 513.

Type species: *Speleognathopsis bastini* Fain, 1958

***Speleognathopsis (Speleomyotis) bastini* Fain**

Speleognathopsis bastini Fain, 1958b: 342

Speleognathopsis (Speleomyotis) bastini Fain: Fain, 1966: 108; 1970c: 513

Speleognathopsis (Speleomyotis) bastini bastini Fain: Fain & Lukoschus, 1971c: 285

Type locality: Belgium

Distribution: Belgium, Japan, Suriname

Hosts: *Eptesicus fuscus*, *E. melanopterus*, *Myotis myotis*, *M. nigricans* (Chiroptera: Vespertilionidae)

***Speleognathopsis (Speleomyotis) bastini didelphis* Fain et Aitken**

Speleognathopsis bastini didelphis Fain & Aitken, 1969: 41

Type locality: Jandiai, Caratateua, Bragança (Pará)

Distribution: Brazil

Host: *Didelphis marsupialis* (Didelphimorphia: Didelphidae)

***Speleognathopsis (Speleomyotis) molossus* Fain et Lukoschus**

Speleognathopsis (Speleomyotis) molossus Fain & Lukoschus, 1971c: 285

Type locality: Paramaribo

Distribution: Suriname

Hosts: *Cynomops planirostris*, *Molossus ater*, *M. molossus* (Chiroptera: Molossidae)

Genus ***Trispeleognathus*** Fain

Speleognathus (*Trispeleognathus*) Fain, 1958a: 178

Trispeleognathus Fain: 1962: 7

Type species: *Speleognathus striatus* Crossley, 1952

Trispeleognathus euricoi Amaral

Trispeleognathus euricoi Amaral, 1965: 31

Ophthalmognathus euricoi (Amaral): Domrow, 1969: 391

Trispeleognathus (*Trispeleognathus*) *euricoi*: Amaral, 1968: 124; Fain & Aitken, 1969: 43

Type locality: Itaporanga (Estado de São Paulo)

Distribution: Brazil

Hosts: *Leptotila verreauxi*, *Nothura m. maculosa* (Columbiformes: Columbidae)

Trispeleognathus striatus (Crossley)

Speleognathus striatus Crossley, 1952: 385; Fain, 1955b: 695, 1956b: 18,

Boydaiia striatus: Womersley, 1953: 82; Cooreman, 1954: 426; Fain, 1955 : 695; 1962 : 300

Speleognathus (*Trispeleognathus*) *striatus*: Fain 1958a: 178

Ophthalmognathus striatus: Domrow 1969: 389; Pence & Casto, 1976: 466

Trispeleognathus (*Trispeleognathus*) *striatus*: Fain, 1963c: 22; Amaral 1963: 91; Fain & Aitken, 1969: 43, 1970: 328

Trispeleognathus striatus: Fain 1962a: 9, 1985a: 149; Amaral 1963: 91; Fain & Hyland, 1970: 42; Skoracki et al., 2018: 420

Type locality: Garza Co., Lubbock Co., Texas

Distribution: Brazil, Mexico, Rwanda, Trinidad & Tobago, USA,

Hosts: *Columba livia domestica*, *Columbigallina passerina*, *Geotrygon montana*, *Leptotila verreauxi*, *Streptopelia s. semitorquata* (Columbiformes: Columbidae)

Tribe ***Speleochirini*** Fain

Speleochirini Fain, 1985a: 144

Type genus: *Speleochir* Fain, 1966

Genus ***Hipposideroptes*** Fain

Hipposideroptes Fain, 1970c: 514

Type species: *Hipposideroptes kimuenzae* Fain, 1970

Hipposideroptes kimuenzae Fain

Hipposideroptes kimuenzae Fain, 1970c: 514

Type locality: Kimuenza

Distribution: DR Congo

Host: *Hipposideros commersoni gigas* (Chiroptera: Hipposideridae)

***Hipposideroptes saccopteryx* Fain et Lukoschus**

Hipposideroptes saccopteryx Fain & Lukoschus, 1971c: 289

Type locality: Lelydorp

Distribution: Suriname

Hosts: *Saccopteryx bilineata*, *S. leptura* (Chiroptera: Emballonuridae)

Genus *Neospeleochir* Fain

Speleochir (*Neospeleochir*) Fain, 1970c: 514

Neospeleochir Fain:

Type species: *Boydaia duboisi* Fain, 1955

***Neospeleochir duboisi* (Fain)**

Boydaia Duboisi Fain, 1955b: 691

Boydaia (Aureliania) duboisi Fain: Fain, 1958a: 176

Speleochir duboisi Fain: Fain, 1966: 108

Speleochir (Neospeleochir) duboisi Fain: Fain, 1970c : 514

Neospeleochir duboisi Fain: Fain, 1970c: 520

Type locality: Astrida (= Butare)

Distribution: Rwanda

Host: *Nycteris* sp. (Chiroptera: Nycteridae)

Genus *Neospeleognathopsis* Fain

Speleognathopsis (Neospeleognathopsis): Fain, 1958a: 177

Neospeleognathopsis Fain: Fain, 1962 : 10

Type species: *Speleognathopsis chiropteri* Fain, 1955

Subgenus *Neospeleognathopsis* Fain

Neospeleognathopsis Fain, 1958a: 177

Type species: *Speleognathopsis chiropteri* Fain, 1955

***Neospeleognathopsis (N.) chiropteri* (Fain)**

Speleognathopsis chiropteri Fain, 1955b: 692; 1956a: 31

Neospeleognathopsis (N.) chiropteri (Fain): Fain, 1966: 108; 1970c: 513

Type locality: Astrida (Butare)(Rwanda)

Distribution: D.R.Congo, Egypt, Rwanda

Hosts: *Eidolon helvum*, *Epomophorus labiatus minor*, *Rousettus aegyptiacus*, *R. aegyptiacus leachi* (Chiroptera: Pteropodidae)

Subgenus ***Pteropignathus*** Fain et Lukoschus

Pteropignathus Fain & Lukoschus, 1979: 58

Type species: *Neospeleognathopsis (Pteropignathus) pteropus* Fain et Lukoschus, 1979

Neospeleognathopsis (Pteropignathus) pteropus (Fain et Lukoschus)

Neospeleognathopsis (Pteropignathus) pteropus Fain & Lukoschus, 1979: 58

Pteropignathus pteropus (Fain et Lukoschus):

Type locality: Brooking Springs

Distribution: Australia

Host: *Pteropus scapulatus* (Chiroptera: Pteropodidae)

Genus ***Speleochir*** Fain

Speleochir Fain, 1966: 103

Type species: *Speleochir aitkeni* Fain, 1966

Speleochir aitkeni Fain

Speleochir aitkeni Fain, 1966: 107

Speleochir (S.) *aitkeni* Fain: Fain, 1970c: 517

Type locality: Aripo Cave, Northern Range

Distribution: Trinidad (W.I.)

Host: *Anoura g. geoffroyi* (Chiroptera: Phyllostomatidae)

Speleochir barbulata Fain et Aitken

Speleochir (Speleochir) barbulata Fain & Aitken, 1970: 334

Type locality: APEG Forest, IPEAN, Belém

Distribution: Brazil

Host: Chiroptera indet.

Speleochir brasiliensis Fain et Aitken

Speleochir brasiliensis Fain & Aitken, 1969: 39

Type locality: Mucambo Forest, IPEAN, Brazil

Distribution: Brazil

Hosts: *Artibeus jamaicensis*, *Vampyrodes caraccioli* (Chiroptera: Phyllostomatidae)

Speleochir phyllostomi (Clark)

Neospeleognathopsis phyllostomi Clark, 1967: 241

Speleochir phyllostomi Clark: Fain & Aitken, 1969: 39

Type locality: Colombia

Distribution: Colombia

Host: *Phyllostomus hastatus* (Chiroptera: Phyllostomatidae)

Genus ***Speleochiroides*** Fain

Speleochiroides Fain, 1985a: 146

Type species: *Speleochir carollia* Fain et Liukoschus, 1971

Speleochiroides carollia (Fain et Lukoschus)

Speleochir carollia Fain & Lukoschus, 1971: 293

Speleochiroides carollia (Fain et Lukoschus): Fain, 1985a: 146

Type locality: Lelydorp

Distribution: Suriname

Host: *Carollia perspicillata* (Chiroptera: Phyllostommatidae)

Tribe **Paraspeleognathopsini** Fain

Paraspeleognathopsini Fain, 1985a: 145

Type genus: *Paraspeleognathopsis* Fain, 1958

Genus ***Paraspeleognathopsis*** Fain

Speleognathopsis (*Paraspeleognathopsis*) Fain, 1958a: 177

Paraspeleognathopsis Fain: Fain, 1970c: 510 (genus). According to Domrow (1997), *Paraspeleognathopsis* Fain, 1958 = *Speleorodens* Fain, 1962 = *Speleomys* Fain, 1971

Type species: *Speleognathopsis bakeri* Fain, 1955

Paraspeleognathopsis bakeri (Fain)

Speleognathopsis bakeri Fain, 1955b: 148; 1955a: 695; 1956a: 26; 1956d: 159

Speleognathopsis (*Paraspeleognathopsis*) *bakeri* Fain: Fain, 1958a: 177

Paraspeleognathopsis bakeri (Fain): Domrow, 1967: 775; 1991: 1296

Paraspeleognathopsis (*P.*) *bakeri* (Fain): Fain & Lukoschus, 1968: 85; Beron, 1973: 189

Type locality: Butare (= Astrida), Rwanda

Distribution: Australia, Belgium, Bulgaria, Holland, Japan, Korea, Rwanda, Spain

Hosts: *Apodemus agrarius coreae*, *A. speciosus*, *Rattus natalensis* (sub *Mastomys coucha ugandae*), *Melomys cervinipes*, *Sylvaemus flavicollis*, *S. sylvaticus*, *S. sylvaticus calipides* (Rodentia: Muridae)

Paraspeleognathopsis exaeta Domrow

Paraspeleognathopsis exaeta Domrow, 1991: 1298

Type locality: S.E. New South Wales, Bondo State Forest

Distribution: Australia

Host: *Petaurus breviceps* (Diprotodontia: Petauridae)

Paraspeleognathopsis galagoensis (Fain)

Speleognathopsis galagoensis Fain, 1956a: 32; 1956: 167

Paraspeleognathopsis (P.) galagoensis Fain, 1963c: 64

Type locality: Akanyaru

Distribution: Rwanda

Host: *Galago senegalensis moholi* (Primates: Galagonidae)

***Paraspeleognathopsis graphiuri* Fain**

Paraspeleognathopsis graphiuri Fain, 1970c: 510

Type locality: Butare (= Astrida)

Distribution: Rwanda

Host: *Graphiurus (Claviglis) microtis* (Rodentia: Gliridae)

Genus ***Speleomys*** Fain [acc. to Domrow (1975, 2007) syn. of *Paraspeleognathopsis* Fain, 1958]

Speleomys Fain, 1970c: 513

Type species: *Speleognathopsis galliardi* Fain, 1955

***Speleomys galliardi* (Fain)**

Speleognathopsis galliardi Fain, 1955b: 149; 1956a: 26; 1956: 163

Speleognathus galliardi Fain, 1956: 163

Speleomys galliardi (Fain): 1970c: 513

Type locality: Kansi and Butare (= Astrida)

Distribution: Rwanda

Hosts: *Arvicanthis abyssinicus*, *Gerbilliscus boehmi* (Rodentia: Muridae)

***Speleomys neotropicalis* (Fain et Aitken)**

Paraspeleognathopsis (Speleorodens) neotropicalis Fain & Aitken, 1969: 37

Speleomys neotropicalis (Fain et Aitken): Fain, 1970c: 515

Type locality: Jandiai, Caratateua, Bragança (Pará)

Distribution: Brazil

Host: *Zygodontomys lasiurus fuscinus* (Rodentia: Cricetidae, Sigmodontinae)

Genus ***Speleorodens*** Fain [acc. to Domrow (1975, 2007) syn. of *Paraspeleognathopsis* Fain, 1958]

Speleorodens Fain, 1962: 10

Paraspeleognathopsis (Speleorodens) Fain, 1963c: 55

Type species: *Speleognathopsis strandtmanni* Fain, 1956

***Speleorodens cricetidarum* (Clark)**

Paraspeleognathopsis cricetidarum Clark, 1967: 240

Paraspeleognathopsis (Speleorodens) cricetidarum: Fain & Aitken, 1969: 36

Type locality: Panama

Distribution: Brazil, Panama, Trinidad

Hosts: *Oryzomys talamancae*, *O. laticeps velutinus*, *Zygodontomys cherriei*, *Heteromys desmarestianus*, *Neracomys guianae* (Rodentia: Cricetidae)

Speleorodens derricki (Womersley)

Boydaia derricki Womersley, 1954: 65; Domrow & Smith, 1956: 203

Astrida derricki (Womersley): Fain, 1956: 167

Speleognathopsis derricki (Womersley): Domrow, 1961: 376

Paraspeleognathopsis (Speleorodens) derricki: Fain, 1963: 64

Speleomys derricki (Womersley):

Paraspeleognathopsis derricki (Womersley): Domrow, 1967: 775

Speleorodens derricki (Womersley): Fain, 1971c: 516

Type locality: Mt. Glorious, S.E. Queensland

Distribution: Australia

Hosts: *Hydromys chrysogaster*, *Mus musculus*, *Rattus assimilis*, *R. conatus*, *R. fuscipes* (Rodentia: Muridae)

Speleorodens michigensis (Ford)

Speleognathopsis michigensis Ford, 1962: 104

Paraspeleognathopsis (Speleorodens) clethrionomys Fain & Lukoschus, 1968: 86 – Holland,
ex *Myodes [Clethrionomys] glareolus*

Speleorodens michigensis (Ford): OConnor, 1978: 124

Type locality: Ingham County, Michigan

Distribution: Holland, USA

Hosts: *Microtus agrestis*, *M. pennsylvanicus*, *Myodes [Clethrionomys] gapperi*, *Myodes [C.] glareolus* (Rodentia: Arvicolidae)

Speleorodens neotropicalis (Fain et Aitken)

Paraspeleognathopsis (Speleorodens) neotropicalis Fain & Aitken, 1969: 37

Type locality: Jandiai, Caratateua, Bragança (Pará), Brazil

Distribution: Brazil

Host: *Zygodontomys lasiurus fuscinus* (Rodentia: Cricetidae)

Speleorodens ruandae Fain

Speleorodens ruandae Fain, 1962b: 367

Type locality: Butare (= Astrida)

Distribution: Rwanda

Host: «dans une termitière», accidental

Speleorodens strandtmanni (Fain)

Speleognathopsis strandtmanni Fain, 1955b: 696; 1956c: 645

Speleognathopsis sciuri Clark, 1960: syn. by Fain, 1961a: 160

Speleognathopsis (*Neospeleognathopsis*) *strandtmanni* (Fain): Fain, 1961a: 160

Paraspeleognathopsis (*Speleorodens*) *strandtmanni* (Fain): Fain, 1963c: 64

Speleorodens strandtmanni (Fain): Fain, 1970c: 518

Type locality: Astrida (= Butare), Rwanda

Distribution: Belgium, DR Congo, Panama, Rwanda, USA

Hosts: *Sciurus granatensis*, *S. vulgaris*, *S. carolinensis*, *Funisciurus carruthersi*, *Tamiscus emini* (Rodentia: Sciuridae)

Tribe **Speleognathini** Fain

Speleognathini Fain, 1985a: 144

Type genus: *Speleognathus* Womersley, 1936

Genus **Domrownetes** OConnor

Domrownetes OConnor, 1978: 128

Type species: *Paraspeleognathopsis exul* Domrow, 1975

Domrownetes exul (Domrow)

Paraspeleognathopsis exul Domrow, 1975: 97; 1991: 1298

Domrownetes exul (Domrow): OConnor, 1978: 97

Type locality: Mount Sabine, Otway Ranges, Victoria

Distribution: Australia (Victoria)

Host: *Antechinus stuartii* (Dasyuromorphia: Dasyuridae)

Genus **Speleognathus** Womersley

Speleognathus Womersley, 1936: 313

Type species: *Speleognathus australis* Womersley, 1936

Speleognathus australis Womersley

Speleognathus australis Womersley, 1936: 313; 1954; Domrow, 1961: 374; 1991: 1302; Fain, 1955b: 695; 1956c: 662; 1961; 1962 : 9; 1963c: 54; 1971 : 515; Drummond & Medley, 1964; Southcott, 1986: 201; Halliday, 1998: 51

Speleognathus (*Speleognathus*) *australis* Womersley: Fain, 1958a: 178

Speleognathus bovis Fain, 1955; 1956d: 156; 1956b: 18; 1956c: 662 (syn. de *S. australis*) -

Type locality: Astrida (= Butare, Rwanda), ex Artiodactyla: Bovidae

Type locality: on water surface (not “in moss”, see Fain, 1956c: 662, at Glen Osmond, Adelaide, South Australia

Distribution: Australia, USA

Hosts: *Bos taurus*, *Bison bison* (Artiodactyla: Bovidae)

Subfamilia **Lawrencarinae** Fain

Lawrencarinae Fain, 1957: 251

Type genus: *Lawrencarus* Fain, 1957

Tribe **Lawrencarini** Fain

Lawrencarini Fain

Type genus: *Lawrencarus* Fain, 1957

Genus ***Batracarus*** Fain

Batracarus Fain, 1961a: 254

Type species: *Batracarus hylaranae* Fain, 1961

Batracarus hylaranae Fain

Batracarus hylaranae Fain, 1961a: 254; 1962b: 58

Type locality: Bogor (= Buitenzorg), Java

Distribution: Indonesia (Java)

Host: *Hylarana erythraea* (Anura: Ranidae)

Genus ***Lawrencarus*** Fain

Lawrencarus Fain, 1957: 250

Type species: *Riccardoella eweri* Lawrence, 1952

Subgenus ***Cernycarus*** de la Cruz

Cernycarus de la Cruz, 1971: 2

Type species: *Lawrencarus (Cernycarus) hollandiae* de la Cruz, 1971

Lawrencarus (Cernycarus) hollandiae de la Cruz

Lawrencarus (Cernycarus) hollandiae de la Cruz, 1971: 2

Type locality: Culandrillo

Distribution: Cuba

Host: *Eleutherodactylus* sp. (Anura: Ceratophryidae)

Subgenus ***Lawrencarus*** Fain

Lawrencarus Fain, 1957: 250

Type species: *Riccardoella eweri* Lawrence, 1952

Lawrencarus (L.) angelae (Womersley)

Boydaia angelae Womersley, 1953: 83; Fain, 1955b: 694; 1956c: 647

Lawrencarus angelae (Womersley): Fain, 1961a: 246; Domrow, 1961: 379; 1991: 1293;
Fain, 1962 :

Type locality: South Australia

Distribution: Australia

Hosts: *Limnodynastes tasmaniensis*, *L. peronii* (Anura: Ceratophryidae, Cyclorhinae)

***Lawrencarus (L.) americanus* Fain**

Lawrencarus americanus Fain, 1961a: 250

Type locality: Florida

Distribution: USA (Florida)

Host: *Hyla septentrionalis* (Anura: Hylidae)

***Lawrencarus (L.) brasiliensis* Fain**

Lawrencarus brasiliensis Fain, 1961a: 252; 1962: 52

Type locality: Alto da Serra, nr. Cubatan, State of São Paulo

Distribution: Brazil

Hosts: *Cyclorhampus asper*, *Eleutherodactylus guntheri* (Anura: Ceratophryidae, Ceratophryinae)

***Lawrencarus (L.) brasiliensis desantisi* Mauri et Bischoff**

Lawrencarus brasiliensis desantisi Mauri & Bischoff, 1984: 338

Type locality: Averias, Prov. De Santiago del Estero

Distribution: Argentina

Hosts: *Bufo arenarum*, *B. paracnemis* (Anura: Bufonidae)

***Lawrencarus (L.) ceratobatrachi* Fain**

Lawrencarus ceratobatrachi Fain, 1961a: 251; 1962 : 47

Type locality: Buin

Distribution: Bougainville I. (Papua New Guinea)

Host: *Ceratobatrachus guntheri* (Anura: Ranidae)

***Lawrencarus (L.) domrowi* Fain**

Lawrencarus domrowi Fain, 1961a: 253; 1962 : 54; Domrow, 1991: 1293

Type locality: Dinner Ck, Nord Queensland

Distribution: Australia (Queensland)

Host: frog (Anura)

***Lawrencarus (L.) eweri* (Lawrence)**

Riccardoella eweri Lawrence, 1952: 747; Lufty, 1960: 183

Boydaia angelae: Fain, 1956: 647

Lawrencarus eweri: Fain, 1957: 250; 1958a: 183; 1961: 253; 1962: 20

***Lawrencarus (L.) eweri cubanus* de la Cruz**

Lawrencarus eweri cubanus de la Cruz, 1971: 3

Type locality: Soledad

Distribution: Cuba

Host: *Bufo peltacephalus* (Anura: Bufonidae)

Lawrencarus (L.) eweri dahuricus Zabludovskaya*Lawrencarus eweri dahuricus* Zabludovskaya, 1992: 66

Type locality: Chitinskaya oblast, Borzyanskiy Rayon, Borzya River, loc. Arshan

Distribution: Russia

Host: *Bufo raddei* (Anura: Bufonidae)***Lawrencarus (L.) eweri eweri*** (Lawrence)*Lawrencarus eweri eweri* (Lawrence): Fain, 1962 : 21

Type locality: Natal Museum, Pietermaritzburg, South Africa

Distribution: DR Congo, Egypt, Italy, Morocco, Rwanda, South Africa

Hosts: *Bufo regularis*, *B. mauretanicus*, *B. carens*, *B. kisoensis*, *B. superciliaris*, *Bufotes v. viridis* (Anura: Bufonidae)***Lawrencarus (L.) eweri thailandiae*** Fain*Lawrencarus eweri thailandiae* Fain, 1961a: 252; 1962: 24

Type locality: Pak Shong

Distribution: Thailand

Host: *Bufo melanostictus* (Anura: Bufonidae)***Lawrencarus (L.) hylae*** Fain*Lawrencarus hylae* Fain, 1961a: 247; Domrow, 1974: 18; 1991: 1293*Lawrencarus (L.) hylae hylae* Fain*Lawrencarus hylae hylae*: Fain, 1962: 33

Type locality: Queensland

Distribution: Australia, North America, Brazil

Hosts: *Hyla coerulea*, *H. hayi*, *H. nasuta* (Anura: Hylidae)***Lawrencarus (L.) hylae afrixali*** Fain*Lawrencarus afrixali* Fain, 1961a: 251*Lawrencarus hylae afrixali*: Fain, 1962: 37

Type locality: Virunga Nat. Park (formerly Albert N.P.)

Distribution: DR Congo

Hosts: *Afrixalus fulvovittatus leptosomus*, *Hyperolius castaneus*, *Phlyctimanus verrucosus* (Anura: Hyperoliidae)***Lawrencarus hylae intermedius*** Fain*Lawrencarus hylae intermedius* Fain, 1962: 39; Mauri & Bischoff, 1984: 338

Type locality: Alto da Serra, Cubatan, Sao Paulo Prov. (Brazil)

Distribution: Argentina, Brazil

Hosts: *Hyla c. cinerea*, *H. hayii* (Anura: Hylidae), *Pleurodema* sp. (Anura: Leptodactylidae)

***Lawrencarus hylae brevicipitis* Fain**

Lawrencarus hylae brevicipitis Fain, 1962: 41

Type locality: Amari, Usumbara (DR Congo)

Distribution: DR Congo, India

Hosts: *Probreviceps macrodactylus*, *Ramanella triangularis* (Anura: Microhylidae, Microhylinae, Brevicipitinae)

***Lawrencarus lechriodi* Fain**

Lawrencarus lechriodi Fain, 1962: 31

Type locality: New Guinea

Distribution: New Guinea

Host: *Lechriodus platyceps* (Anura: Ceratophryidae, Cyclorantinae)

Tribe *Xenopacarini* Fain, Baker et Tinsley

Xenopacarini Fain, Baker & Tinsley, 1969: 341

Type genus: *Xenopacarus* Fain, Baker et Tinsley, 1969

Genus *Xenopacarus* Fain, Baker et Tinsley

Xenopacarus Fain, Baker & Tinsley, 1969: 341

Type species: *Xenopacarus africanus* Fain, Baker et Tinsley, 1969.

***Xenopacarus africanus* Fain, Baker et Tinsley**

Xenopacarus africanus Fain, Baker & Tinsley, 1969: 341

Type locality: South Africa (imported into Leeds, England)

Distribution: South Africa

Host: *Xenopus laevis* (Amphibia: Pipidae, Xenopodinae)

***Xenopacarus kenyensis* Fain et Tinsley**

Xenopacarus kenyensis Fain & Tinsley, 1975: 854

Type locality: Kiambu, Nairobi; Marsabit

Distribution: Kenya

Host: *Xenopus borealis* (Amphibia: Pipidae, Xenopodinae)

***Xenopacarus kivuensis* Fain et Tinsley**

Xenopacarus kivuensis Fain & Tinsley, 1993: 513

Type locality: Ebisha, about 8 km from R.St. Irangi, Kivu Prov.

Distribution: D.R. Congo

Host: *Xenopus* sp. group *fraseri* (Amphibia: Pipidae, Xenopodinae)

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Distribution of Ereynetidae

EUROPE

- Armenia** (Arutyunyan, 1972, 1981) – *Boydaia sturni*, *Riccardoella limacum*,
Austria (Willmann, 1951; Franz, 1954; Sixl, 1972) – *Ereynetes papilosus*, *E. biscutatus*,
Paraspeleognathopsis bakeri, *Riccardoella oudemansi*
Belgium (Cooreman, 1947; Fain, 1958b, 1962, 1963c; Fain & Bafort, 1973; Fain & Lukoschus, 1968: 85; Fain & van Goethem, 1986; André & Ducarme, 2003; André et al., 2004) – *Ereynetes aurantipes*, *E. gandensis*, *E. hydrophilus*, *Aureliania aureliani*, *Boydaia loxiae*, *B. nigra motacillae*, *B. n. nigra*, *B. sturni*, *Hanriccardoella faini*, *Paraspeleognathopsis bakeri*, *P. strandtmanni*, *Pseudotydeus lebruni*, *Pterniboydaia pternistis*, *Riccardoella oudemansi*, *R. limacum*
Bulgaria (Turk, 1970; Beron, 1973) – *Ereynetes* (*Anereynetes*) *simplex*, *Paraspeleognathopsis bakeri*, *Riccardoella limacum*, *R. oudemansi*
Croatia (Willmann, 1941; Pernek et al., 2008) – *Ereynetes scutulius*, *Riccardoella oudemansi*
Czech Rep. (Willmann, 1936; Zacharda, 1978; André et al., 2004;) – *Ereynetes* (*Anereynetes*) *simplex*, *Riccardoella oudemansi*, *R. zadielensis*
Yan Mayen I. (Macfadyen, 1954) – *Ereynetes* [*Protereunetes*] *brevipes*
Finland (Penttinen, Viiri & Moser, 2013) – *Ereynetes propescutulius*
France (contin.) (Megnin, 1889; Fain & van Goethem, 1986; Morand & Deguzan, 1986) – *Riccardoella reaumuri*, *R. limacum*
Germany (Willmann, 1952, 1953; Fritsch, 1962; Schmidt, 1987) – *Boydaia willmanni*, *Ereynetes bipilosus*, *E. insularis*, *E. lyratus*
Great Britain (Turk & Phillips, 1945; White, 1959; Baker, 1970a, b; Fain & van Goethem, 1986; Graham et al., 1993) – *Riccardoella limacum*, *R. oudemansi*,
Greece (Haralabidis et al., 1983) – *Riccardoella limacum*
Holland (Oudemans, 1912, 1928; Thor, 1932; Van Eynhoven, 1955; Fain & Lukoschus, 1968: 85; OConnor, 1978; Mienis, 1984; Fain & van Goethem, 1986) – *Boydaia saxicolae*, *Ereynetes sittardiensis*, *Paraspeleognathopsis bakeri*, *Riccardoella oudemansi*, *Speleorodens michigensis* (= *clethrionomys*)
Hungary (András & Jenő, 2004; Varga & Kontschán, 2004) – *Riccardoella oudemansi*
Iceland (Sellnick, 1940) – *Riccardoella oudemansi*
Ireland (Fauna Europaea) – 1 sp.
Italy (contin.) (Berlese, 1923; Bottazzi, 1950; Fain, 1964b, 2004) – *Ereynetes arcuatus*, *E. biscutatus*, *E. brevipipes*, *E. centralis*, *E. inermis*, *E. ministralis*, *E. pegazzanoae*, *E. septentrionalis*, *Protereunetes brevipipes*, *Riccardoella limacum*, *R. oudemansi*
Sicily (Berlese, 1923) – *Ereynetes agilis*, *E. galeatus*
N. Macedonia (Haralabidis et al., 1983) – *Riccardoella limacum*

Norway (Thor, 1932) – *Ereynetes norvegicus*

Poland (Karbarz-Wiktorowicz, 1973; Dończyk, 2006) – *Ereynetes* (*Opsereynetes*) *norvegicus*, *Ereynetes* (*Gymnereynetes*), *Riccardoella limacum*

Russia (all, continent.) (Dubinin, 1957; Zabludovskaya, 1985, 1986, 1990a, 1990b, 1991, 1992, 1998, 2012) – *Boydaia sturni*, *B. bradornis*, *B. jordani*, *B. psalidoprocnei*, *Coboydaia nigra nigra*, *C. nigra motacillae*, *Neoboydaia phylomachi eroliae*, *Ophthalmognathus schoutedeni* (= *dogieli*), *Phoenicopteriella womersleyi*, *Lawrencarus eweri dahuricus*

Crimea (Zabludovskaya, 1994) – *Ereynetes* (*E.*) *g. galeatus*, *E. (G.) exilis*, *E. (Gymnereynetes) aurantipes*, *E. (E.) tshernogoriensis*

Serbia (Stojnić et al., 2016) – *Riccardoella limacum*, *R. oudemansi*

Slovakia (André et al., 2004; Shoaib & Cagaň, 2004) – *Riccardoella zadielensis*

Spain (cont.) (Mihelčič, 1958; Fain & Lukoschus, 1968: 85) – *Ereynetes* (*Anereynetes*) *corticalis*, *E. (A.) ornatus*, *E. (A.) proximus*, *Paraspeleognathopsis bakeri*

Sweden (Moser et al., 1989) – *Ereynetes propescutulis*

Switzerland (Schweizer, 1922, 1963) – *Ereynetes ministralis*, *Riccardoella limacum*

Turkey (all) (Çobanoğlu, Cilbircioğlu & Zabludovskaya, 2020) – *Ereynetes septentrionalis*

Ukraine (Zabludovskaya, 1994, 1995, 2002, 2005, 2012) – *Boydaia psalidoprocnei*, *Coboydaia nigra*, *Ereynetes* (*E.*) *gandensis*, *E. (E.) tshernogoriensis*, *E. (E.) pegazzanoe*, *E. (E.) punctatus*, *E. (Anereynetes) hydrophilus*, *E. (A.) sittardiensis*, *E. (Gymnereynetes) aurantipes*, *E. (G.) exilis*, *Paraspeleognathopsis bakeri*, *Riccardoella canadensis*

AFRICA

Botswana (Fain, 1959, 1960, 1969; Fain & Camerik, 1994; Skoracki et al., 2018) – *Boydaia spatulata*, *Coboydaia nigra*, *Ereynetes copridis*, *E. botswanensis*

Burundi (Fain, 1963 ; Skoracki et al., 2018) – *Coboydaia clavata*, *C. nigra*

Cameroon (Fain, Herin & Puylaert, 1977; Zabludovskaya, 2002) – *Boydaia hirundoae*, *B. pycnonoti*, *Coboydaia clavata*, *C. nigra*

Chad (Fain, 1963) – *Boydaia falconis*

Congo DR (Fain, 1961a, 1964 ; 1966: 108; 1970b; Fain & Tinsley, 1993; Skoracki et al., 2018) – *Hipposideroptes kimuenzae*, *Neoboydaia galachrysi*, *Neospeleognathopsis chiropteri*, *Xenopacarus kivuensis*

Egypt (Fain, 1963c, 1966: 108; Lufty, 1960; Abdelgayed et al., 2019) – *Ereynetes bolitophilus*, *Lawrencarus eweri eweri*, *Neospeleognathopsis chiropteri*

Ghana (Skoracki et al., 2018) – *Coboydaia clavata*

Guinea (Zabludovskaya, 2002) – *Coboydaia clavata*, *C. nigra*, *Pycnonotus barbatus*

Kenya (Fain & Tinsley, 1975; Skoracki et al., 2018) – *Boydaia pycnonoti*, *Xenopacarus kenyensis*

Rwanda (Cooreman, 1954; Fain, 1955b, 1956a, 1956b, 1956d, 1962, 1963, 1969, 1971, 1972, 1985a, 1985b; Pence & Casto, 1976, Fain & Goff, 1980; Skoracki et al., 2018) – *Astrida caprimulgi*, *Boydaia bradornis*, *B. buphagi*, *B. cecropis*, *B. cinnyris*, *B. duboisii*, *B. falconis*, *B. psalidoprocnei*, *B. saxicolae*, *B. spatulata*, *B. zosteropis*, *B. zumpti*, *Coboydaia*

clavata, *C. nigra*, *Meropiboydaia merops*, *Neastrida poffei*, *Neoboydaia philomachi*, *Ophthalmognathus tenorioae*, *Phoenicopteriella womersleyi*, *Pterniboydaia pternistis*, *Speleorodens strandtmanni*

Senegal (Fain, 1963) – *Coboydaia clavata*

South Africa (Fain, 1956, 1958, 1959, 1963c, 1971; Fain, Baker & Tinsley, 1969; Fain, Herin & Puylaert, 1977; Fain & Camerik, 1994; Ueckermann & Tiedt, 2003; Skoracki et al., 2018) – *Boydaia pycnonoti*, *Ereynetes aplectorus*, *E. bolitophilus*, *E. luriei*, *E. ueckermanni*, *Lawrencarus eweri eweri*, *Coboydaia nigra*, *Neastrida parrae*, *Neoboydaia psittaculæ*, *Riccardoella limacum*, *R. oudemansi*, *Xenopacarus africanus*

Zambia (Fain, 1960, 1963) – *Coboydaia clavata*, *Pterniboydaia pternistis*

Zimbabwe (Skoracki et al., 2018) – *Boydaia pycnonoti*, *Coboydaia clavata*

ASIA

China (Li, Xuan & Fan, 1992;) – *Ereynetes* sp.

India (Fain, 1969; Bhat, Kulkarni & Mishra, 1983; Panda, Mishra & Panda, 1987) – *Boydaia indica*, *Speleognathopsis galli*

Indonesia (Berlese, 1910; Vitzthum, 1932, Fain, 1961, 1963) – *Batracarus hylaranae*, *Coboydaia amandavae* [Java], *Ereynetes cruciatus* [Java], *E. potator* [Sumatra]

Iran (Siahkamari et al., 2020) – *Ereynetes* [*Ereynetoides*] *amplectorus*

Israel and Palestina (Mienis, 1990) – *Riccardoella* sp.

Japan (Berlese, 1923; Kaneko, 1968; Shiba, 1969a, 1971; Kaneko, Kadosaka & Toshioka, 1977; Kaneko, Matsudaira & Prince Masahito, 1978; Uchikawa & Suzuki, 1984; Kadosaka, Kaneko & Asanuma, 1983, 1987; Waki, Hiruta & Shimano, 2018; Waki et al., 2018; Waki & Shimano, 2019; Waki, Shimano & Asami, 2019; Waki, Shimano & Shiba, 2019; Waki et al., 2020) – *Ereynetes cavernarum*, *E. excellens*, *E. (Opsereynetes) norvegicus*, *Speleognathopsis (Speleomyotis) bastini*, *Paraspeleognathopsis bakeri*, *Pterniboydaia pternistis*, *Riccardoella (Prorriccardoella) triodopsis*, *R. tokyoensis*, *Trispeleognathus womersleyi*

Okinawa (Waki et al., 2018) – *Riccardoella reaumuri*

Kazakhstan (Zabludovskaya, 1998) – *Coboydaia nigra*

Kyrgyzstan (Zabludovskaya, 2002) – *Coboydaia nigra motacillae*

Korea (Fain & Lukoschus, 1968; Shiba, 1969b) – *Paraspeleognathopsis bakeri*

Malaysia (Fain, 1963c, Fain & Nadchatram, 1962; Shiba, 1976; McClure, Ratanaworadhan et al., 1973) – *Astrida caprimulgi*, *Boydaia pycnonoti*, *B. spatulata*, *Ereynetes husatoi*, *E. malayi*, *E. tadakii*

New Guinea (Fain, 1962) – *Lawrencarus lechriodi*

Philippines (Corpuz-Raros, 1975) – *Ereynetes philippinensis*, *Ereynetes (Anereynetes) upelbensis*

Turkmenistan (Zabludovskaya, 1998) – *Coboydaia nigra*

Thailand (Fain, 1961a) – *Lawrencarus eweri thailandiae*

NORTH AMERICA

Canada (Fain & van Goethem, 1986; Knee, Proctor & Galloway, 2008) – *Boydaia aratingae*, *B. faini*, *B. psalidoprocnei*, *B. sturni*, *Neoboydaia colymbiformi*, *Riccardoella canadensis*,

Mexico (Baker, 1945, Clark, 1960; Fain, 1963c; Fain & Hyland, 1970; Polaco & Mendl, 1988; Vásquez-Rojas & Estrada-Venegas, 2010) – *Boydaia mimi*, *Ereynetes* (*Opsereynetes*) *robustus*, *E. (O.) simplexus*, *E. (Opsereynetes) tuberculatus*, *E. (Anereynetes) sabinensis*, *E. (Ereynetes) amplexor*, *E. (E.) faini*, *Riccardoella oudemansi*, *Trispeleognathus striatus*

USA (Boyd, 1948, 1951; Clark, 1958, 1960, 1964, 1967a, 1967b; Hunter, 1964; McDaniel, 1967; Hunter & Cross, 1968; Kethley, 1971; Pence, 1973a, 1973b, 1973c; Baker & Delfinado, 1974; Pence & Casto, 1976; Spicer, 1977; Fain & Klompen, 1990; Hilario-Pérez & Danel, 2016; Hilario-Pérez & Dowling, 2018) – *Astrida caprimulgi*, *A. coccyzae*, *Boydaia agelaii*, *B. colini*, *B. hirundoae*, *B. mimi*, *B. pheucticola*, *B. psalidoprocnei*, *B. quiscali*, *B. spatulata*, *B. sturnellae*, *B. sturni*, *B. turdi*, *Coboydaia nigra*, *Ereynetes amplexor*, *E. boharti*, *E. davis*, *E. scutulis*; *Hydranetes citrinensis*, *H. tropisternus*; *Neoboydaia philomachi*, *Ophthalmognathus womersleyi*, *Pseudotydeus perplexus*, *Riccardoella (Proriccardoella) triodopsis*, *Riccardoella (R.) limacum*, *Trispeleognathus striatus*, *Speleognathopsis benoiti*

Hawai Is. (Fain & Goff, 1980) – *Coboydaia nigra*, *Ophthalmognathus tenorioae*,

SOUTH and CENTRAL AMERICA

Argentina (Rosas Costa, 1955; Mauri & Bischoff, 1984) – *Aureliania longipilis*, *Lawrencarus brasiliensis desantisi*, *L. hylae intermedius*

Brazil (Amaral, 1963, 1965, 1967; Fain, 1962, 1963; Fain & Aitken, 1969, 1970; Faccini et al., 1981; Flechtmann & Baggio, 1985; Mascarenhas & Brum, 2006; Bernardon et al., 2015; Bernardon, Mascarenhas et al., 2018; Mendoza – Roldan, 2019) – *Boydaia agelaii*, *B. americana*, *B. aratingae*, *B. cyanoerpes*, *B. laticoxa*, *B. psittaci*, *B. quiscali*, *B. synallaxis*, *B. tyrannis*, *Coboydaia trochila*, *Lawrencarus brasiliensis*, *Neoboydaia lateralli*, *Speleochir barbulata*, *S. brasiliensis*, *Speleomys neotropicalis*, *Neospeleognathopsis (Speleomyotis) bastini didelphis*, *Riccardoella limacum*, *Speleognathopsis galli*, *Trispeleognathus euricoi*, *T. striatus*

Cuba (Dusbábek & Černý, 1970; de la Cruz, 1971) – *Boydaia faini*, *B. morenoi*, *B. rosickyi*, *Lawrencarus (L.) eweri cubanus*, *L. (Cernycarus) hollandiae*

Panama (Clark, 1967a) – *Speleorodens strandtmanni*

Puerto Rico (Hunter & Poe, 1971) – *Ereynetes coenobitus*

Suriname (Fain & Lukoschus, 1971, 1972) – *Boydaia agelaii*, *Hipposideroptes saccopteryx*, *Neospeleognathopsis (Speleomyotis) bastini bastini*, *N. (S.) molossus*, *Speleochiroides carollia*, *Psittaboydaia amazona*

Trinidad and Tobago (Fain & Aitken, 1968) – *Boydaia agelaii*, *B. americana*, *B. hirundoae*, *B. tyrannis*, *Trispeleognathus striatus*

OCEANIA

Australia (continent) (Rainbow, 1906; Domrow, 1960, 1962, 1965, 1966, 1967, 1969, 1975, 1991; OConnor, 1978; Fain & Lukoschus, 1968, 1979; Womersley, 1936, 1953, 1954) – *Aureliania aureliani*, *Boydaia spatulata*, *Domrownetes exul*, *Meropiboydaia merops*, *Neoboydaia philomachi*, *N. psittaculae*, *Paraspeleognathopsis bakeri*, *P. exaeta*, *Speleorodens derricki*, *Pteropignathus pteropi*, *Speleognathopsis benoiti*, *Riccardoella limacum* (probably *R. oudemansi*, see Fain, 2004)

New Zealand (Barker & Ramsay, 1978; Fain & Barker, 2003, 2004) – *Austreynetes maudensis*, *Riccardoella* (*Riccardoella*) *limacum*, *Riccardoella* (*Prorriccardoella*) *novaezealandiae*

Macquarie I. (Fain, 1962d; Luxton, 1990) – *Ereynetes* (*Gymnereynetes*) *macquariensis*

Papua New Guinea (Domrow, 1969; Talbot, 1969; Fain & Van Goethem, 1978) – *Ereynetes* (*Anereynetes*) *papuanus*, *Lawrencarus ceratobatrachi*, *Speleognathopsis galli*

ANTARCTICA

Kerguelen I. (Fain, 1976) - *Ereynetes macquariensis*

Marion I. (Fain, 1976) - *Ereynetes macquariensis*

Signy I. (Strandmann & Tilbrook, 1968) - *Ereynetes macquariensis*

Antarctic Peninsula (Strandmann, 1967; Crooker, 1977; Llano & Gless, 2013) - *Ereynetes macquariensis*, *Protereunetes minutus*, *P. paulinae*

Hosts of Ereynetidae**Mollusca****Gastropoda****Pulmonata**

Fam. Arionidae

Arion ater - *Riccardoella oudemansi*

A. lusitanicus - *Riccardoella oudemansi*

A. rufus - *Riccardoella oudemansi*

Fam. Athoracophoridae

Pseudaneitea schauinslandi - *Austreynetes maudensis*

Athoracophorus bitentaculatus – *Riccardoella limacum*

Athoracophoridae gen. sp. – *Riccardoella* (*Prorriccardoella*) *novaezealandiae*

Fam. Clausiliidae

Tauphaedusa tau – *Riccardoella tokyoensis*

Fam. Bradybaenidae

Acusta despecta sieboldtiana – *Riccardoella* (*Prorriccardoella*) *triodopsis*

Fam. Helicidae

Cepaea nemoralis - *Riccardoella oudemansi*

Helix lucorum - *Riccardoella limacum*

H. pomatia - *Riccardoella limacum*

H. aspersa - *Riccardoella limacum*

Fam. Limacidae

Deroceras reticulatum - *Riccardoella oudemansi*

Limax agrestis - *Riccardoella oudemansi*

L. cinereoniger - *Riccardoella oudemansi*

L. cinereus - *Riccardoella oudemansi*

L. flavus - *Riccardoella oudemansi*

L. maximus - *Riccardoella oudemansi*

L. cinereoniger - *Riccardoella oudemansi*

Monochroma brunneum - *Riccardoella limacum*

Fam. Milacidae

Tandonia budapestensis - *Riccardoella oudemansi*

Fam. Polygiridae

Xolotrema obstructa [*Triodopsis obstructus*] - *Riccardoella* (*Proriccardoella*) *triodopsis*

Fam. Zonitidae

Meledella werneri - *Riccardoella oudemansi*

Oxychilus draparnaudi - *Riccardoella oudemansi*

Phylum **Arthropoda**

Subphylum **Crustacea**

Order **Decapoda**

Infraorder Brachiura

Fam. Coenobitidae

Coenobita clypeatus - *Ereynetes coenobitus*

Insecta

Order **Coleoptera**

Fam. Hydrophilidae

Tropisternus lateralis nimbatus - *Hydranetes citrinensis*

Tropisternus lateralis nimbatus - *Hydranetes tropisternus*

T. striolatus - *Hydranetes tropisternus*

T. quadristriatus - *Hydranetes tropisternus*

Fam. Scarabaeidae

Copris subsidens - *Ereynetes* (*Anereynetes*) *copridis*

C. molossus - *Ereynetes cruciatus*

Metacatharsius sp. - *Ereynetes* (*Anereynetes*) *botswanensis*

Scarabaeidae indet. - *Ereynetes philippinensis*

Order **Hymenoptera**

Fam. Apidae

Melipona scutellaris - *Ereynetes* (*Gymnereynetes*) *meliponae*

Subphylum **Vertebrata**

Class **Amphibia**

Order **Anura**

Fam. Bufonidae

- Bufo arenarum* - *Lawrencarus brasiliensis desantisi*
B. melanostictus - *Lawrencarus eweri thailandiae*
B. regularis - *Lawrencarus eweri eweri*
B. mauretanicus - *Lawrencarus eweri eweri*
B. carens - *Lawrencarus eweri eweri*
B. kisoensis - *Lawrencarus eweri eweri*
B. paracnemis - *Lawrencarus brasiliensis desantisi*
B. peltacephalus - *Lawrencarus eweri cubanus*
B. raddei - *Lawrencarus eweri dahuricus*
B. superciliaris - *Lawrencarus eweri eweri*
Bufotes v. viridis - *Lawrencarus eweri eweri*

Fam. Ceratophryidae

- Cyclorhamphus asper* - *Lawrencarus brasiliensis*
Eleutherodactylus guntheri - *Lawrencarus brasiliensis*
Eleutherodactylus sp. - *Lawrencarus (Cernycarus) hollandiae*
Lechriodus platyceps - *Lawrencarus lechriodi*
Limnodynastes tasmaniensis - *Lawrencarus angelae*
L. peronii - *Lawrencarus angelae*

Fam. Hyperoliidae

- Afrixalus fulvovittatus leptosomus* - *Lawrencarus hylae afrixali*
Hyperolius castaneus - *Lawrencarus hylae afrixali*
Phlyctimanus verrucosus - *Lawrencarus hylae afrixali*

Fam. Hylidae

- Hyla cinerea cinerea* - *Lawrencarus hylae intermedius*
H. coerulea - *Lawrencarus hylae hylae*
H. hayii - *Lawrencarus hylae intermedius*
H. nasuta - *Lawrencarus hylae hylae*
H. septentrionalis - *Lawrencarus americanus*

Fam. Leptodactylidae

- Pleurodema* sp. - *Lawrencarus hylae intermedius*

Fam. Microhylidae

- Probreviceps macrodactylus* - *Lawrencarus hylae brevicipitis*
Ramanella triangularis - *Lawrencarus hylae brevicipitis*

Fam. Pipidae

- Xenopus borealis* - *Xenopacarus kenyensis*
X. laevis - *Xenopacarus africanus*
Xenopus sp. group *fraseri* - *Xenopacarus kivuensis*

Fam. Ranidae

- Hylarana erythraea* - *Batracharus hylaranae*
Ceratobatrachus guntheri - *Lawrencarus ceratobatrachi*

Order Anseriformes

Fam. Anatidae

- Aythya affinis* - *Phoenicopteriella womersleyi*
- Anas acuta* - *Phoenicopteriella womersleyi*
- A. clypeata* - *Phoenicopteriella womersleyi*
- A. discors* - *Phoenicopteriella womersleyi*
- A. strepera* - *Phoenicopteriella womersleyi*
- Dendrocygna viduata* - *Phoenicopteriella womersleyi*
- Sarkidiornis melanotos* - *Phoenicopteriella womersleyi*

Order Caprimulgiformes

Fam. Caprimulgidae

- Antrostomus carolinensis* - *Astrida caprimulgi*
- Scotornis fossii welwitschi* - *Astrida caprimulgi*

Fam. Podargidae

- Podargus strigoides* - *Boydaia podargi*

Order Charadriiformes

Fam. Charadriidae

- Afribyx senegallus* - *Speleognathopsis benoiti*
- Charadrius melanops* - *Speleognathopsis benoiti*
- Ch. pecuarius* - *Speleognathopsis charadricola*
- Erythronyx cinctus* - *Speleognathopsis benoiti*
- Hemiparra crassirostris* - *Speleognathopsis benoiti*
- Lobibyx miles* - *Speleognathopsis benoiti*
- Philomachus pugnax* - *Neoboydaia philomachi*
- Pluvialis squatarola* - *Speleognathopsis benoiti*
- Tringa glareola* - *Neoboydaia philomachi*

Fam. Glareolidae

- Glareola [Galachrysis] cinerea* - *Neoboydaia galachryisiae*
- G. nuchalis* - *Neoboydaia galachryisiae*
- Rhinoptilus africanus* - *Speleognathopsis benoiti* (= wai)

Fam. Jacanidae

- Actophilornis africanus* - *Neastrida parrae*

Fam. Scolopacidae

- Actitis macularius* - *Neoboydaia philomachi*
- Arenaria interpres* - *Neoboydaia philomachi*
- Calidris melanotos* - *Neoboydaia philomachi*
- C. minutilla* - *Neoboydaia philomachi*
- Gallinago gallinago* - *Neoboydaia philomachi*, *Boydaia willmanni*
- Limnodromus griseus* - *Neoboydaia philomachi*
- L. scolopaceus* - *Neoboydaia philomachi*
- Limosa lapponica* - *Neoboydaia philomachi*
- Neoboydaia philomachi* - *Neoboydaia philomachi*

Philomachus pugnax - *Neoboydaia philomachi*

Tringa flavipes - *Neoboydaia philomachi*

T. melanoleuca - *Neoboydaia philomachi*

T. glareola - *Neoboydaia philomachi*

T. solitaria - *Neoboydaia philomachi*

Fam. Laridae

Sterna hirundo - *Neoboydaia philomachi*

Thalasseus maximus - *Neoboydaia philomachi*

Order **Columbiformes**

Fam. Columbidae

Columba livia domestica - *Trispeleognathus striatus*

Columbigallina passerina - *Trispeleognathus striatus*

Geotrygon montana - *Trispeleognathus striatus*

Leptotila verreauxi - *Trispeleognathus striatus*

Streptopelia s. semitorquata - *Trispeleognathus striatus*

S. vinacea - *Coboydaia clavata*

Order **Coraciiformes**

Fam. Coraciidae

Coracias caudatus caudatus - *Metaboydaia poffei*

Fam. Meropidae

Merops apiaster - *Meropiboydaia merops*

M. ornatus - *Meropiboydaia merops*

Order **Cuculiformes**

Fam. Cuculidae

Guira guira - *Carcinopodacarus polymorphus*

Order **Falconiformes**

Fam. Accipitridae

Accipiter fasciatus - *Speleognathopsis accipitris*

Fam. Falconidae

Falco berigora - *Boydaia falconis*

F. cuvieri - *Boydaia falconis*

F. t. tinnunculus - *Boydaia falconis*

Order **Galliformes**

Fam. Odontophoridae

Callipepla squamata - *Boydaia clarki*

Colinus virginianus - *Boydaia colini*

Fam. Phasianidae

Bambusicola thoracica - *Pterniboydaia pternistis*

Gallus gallus domesticus - *Speleognathopsis galli*

Pternistis afer - *Pterniboydaia pternistis*

P. swainsoni - *Pterniboydaia pternistis*

Perdix p. perdix - *Pterniboydaia pternistis*

Fam. Numididae

Numida meleagris intermedia - *Speleognathopsis galli*

Order **Gruiformes**

Fam. Rallidae

Laterallus melanophaius oenops - *Neoboydaia lateralli*

Order **Passeriformes**

Fam. Acrocephalidae

Acrocephalus a. arundinaceus - *Coboydaia nigra*

A. s. scirpaceus - *Coboydaia nigra*

Iduna similis - *Boydaia spatulata*

Fam. Buphagidae

Buphagus africanus - *Boydaia buphagi*

Fam. Campophagidae

Lalage tricolor - *Coboydaia nigra* (sub *Boydaia crassipes*)

Fam. Cardinalidae

Spiza americana - *Boydaia pheucticola*

Fam. Cisticolidae

Schistolais leucopogon reichenowi - *Boydaia spatulata*

Fam. Dendrocolaptidae

Glyphorynchus spirurus - *Boydaia laticoxa*

Fam. Emberizidae

Emberiza aureola - *Coboydaia nigra*

E. citrinella - *Coboydaia nigra*

E. pusilla - *Coboydaia nigra*

E. rustica - *Coboydaia nigra*

E. rutila - *Coboydaia nigra*

E. spodocephala - *Coboydaia nigra*

E. tristrami - *Coboydaia nigra*

Spizella passerina - *Coboydaia nigra*

Fam. Estrildidae

Amandava amandava - *Coboydaia amandavae*

A. subflava - *Coboydaia amandavae*

Erythrura prasina - *Coboydaia amandavae*

Sporaeginthus subflavus - *Coboydaia amandavae*

Fam. Formicariidae

Formicarius analis - *Boydaia formicarii*

F. colma - *Boydaia formicarii*

Fam. Fringillidae

Carduelis c. carduelis - *Coboydaia nigra*

Carpodacus erythrinus - *Coboydaia nigra*

Euphonia violacea - *Coboydaia nigra*

Fringilla coelebs - *Coboydaia nigra*

F. montifringilla - *Coboydaia nigra*
Haemorhous mexicanus - *Coboydaia nigra*
Loxia curvirostra – *Boydaia loxiae*
Passerina cyanea – *Boydaia rosickyi*
Serinus burtoni tanganjicae - *Coboydaia nigra*
S. frontalis - *Coboydaia nigra*
S. [Poliospiza] gularis – *Coboydaia nigra*
S. mozambicus - *Coboydaia nigra*
S. sulphuratus shelleyi - *Coboydaia nigra*

Fam. Furnariidae

Philydor pyrrhodes - *Boydaia laticoxa philydori*
Synallaxis rutilans - *Boydaia synallaxis*
S. gujanensis - *Boydaia synallaxis*
S. erythrothorax - *Boydaia synallaxis*

Fam. Hirundinidae

Cecropis abyssinica unitatis – *Boydaia cecropis*
Hirundo abyssinica – *Boydaia hirundoae*
H. neoxena - *Boydaia hirundoae*
H. rustica - *Boydaia hirundoae*
Hylochelidon ariel - *Boydaia hirundoae*
Progne chalybea - *Boydaia hirundoae*
P. subis - *Boydaia hirundoae*
Psalidoprocne albiceps - *Boydaia psalidoprocnei*
Riparia riparia - *Boydaia psalidoprocnei*
Stelgidopteryx ruficollis - *Boydaia hirundoae*
Tachycineta bicolor - *Boydaia psalidoprocnei*

Fam. Icteridae

Agelaius icterocephalus – *Boydaia agelaii*
A. phoeniceus - *Boydaia agelaii*
A. ruficapillus - *Boydaia agelaii*
Chrysomus ruficapillus - *Boydaia agelaii*
Icterus galbula - *Coboydaia nigra*
I. spurius – *Coboydaia nigra icteri*
Quiscalus quiscula - *Boydaia buphagi*, *B. quiscali*
Q. mexicanus – *Boydaia sturni*
Sturnella magna – *Boydaia buphagi*, *Coboydaia sturnellae*

Fam. Laniidae

Corvinella corvina - *Coboydaia nigra*

Fam. Locustellidae

Locustella luscinioides - *Boydaia locustellae*
Schoenicola brevirostris – *Boydaia zumpti*

Fam. Meliphagidae

Cissomela pectoralis - *Boydaia spatulata*
Myzomela sanguinolenta - *Boydaia myzomelae*
Philemon citreogularis - *Boydaia spatulata*
P. corniculatus - *Boydaia spatulata*

Fam. Mimidae

Mimus gilvus - *Boydaia mimi*
M. polyglottos - *Boydaia mimi*
M. polyglottos orpheus - *Boydaia morenoi*

Fam. Motacillidae

Anthus spinoletta - *Coboydaia nigra*
A. trivialis - *Coboydaia nigra motacillae*
Macronyx croceus - *Boydaia spatulata*
Motacilla aguimp vidua - *Coboydaia nigra motacillae*
M. alba - *Coboydaia nigra motacillae*
M. capensis - *Coboydaia nigra motacillae*
M. flava - *Coboydaia nigra motacillae*

Fam. Muscicapidae

Agricola pallidus griseus - *Boydaia bradornis*
Cercomela tractrac - *Boydaia spatulata*
Erythropygia [Cercotrichos] hartlaubi - *Boydaia spatulata*
Luscinia luscinia - *Boydaia bradornis*
Muscicapa rufigastra - *Boydaia spatulata*
Pogonocichla stellate ruwenzorii - *Boydaia spatulata*
Sheppardia polioptera - *Boydaia spatulata*

Fam. Nectariniidae

Arachnothera l. longirostris - *Ereynetes malayi*
Chalcomitra senegalensis lamperti (= *aequatorialis*) - *Boydaia cinnyris*,

B. nectarinia

Cinnyris cupreus cupreus (= *septentrionalis*) - *Boydaia cinnyris*, *B. nectarinia*
Cyanomitra verticalis viridisplendens - *Boydaia nectarinia*

Fam. Paridae

Melaniparus leucomelas insignis [as *Parus niger insignis*] - *Boydaia spatulata*

Fam. Parulidae

Dendroica cerulea - *Boydaia faini*

Fam. Passeridae

Passer ammodendri - *Coboydaia nigra*
P. domesticus - *Coboydaia nigra*
P. griseus - *Coboydaia nigra nigra*
P. hispaniolensis - *Coboydaia nigra*
P. montanus - *Coboydaia nigra*

Fam. Pipridae

Manacus manacus - *Boydaia tyrannus*

Pipra fasciicauda – *Boydaia tyrannis*

P. iris – *Boydaia tyrannis*

P. pipra – *Boydaia tyrannis*

Fam. Ploceidae

Euplectes hordeaceus – *Coboydaia clavata*

E. ardens – *Coboydaia clavata*

E. macroura – *Coboydaia clavata*

Hypochera amauropteryx – *Coboydaia clavata*

H. chalybeata – *Coboydaia clavata*

Othyphantes baglafecht stuhlmanni – *Coboydaia clavata*

Ploceus baglafecht stuhlmanni – *Coboydaia clavata*

P. [Textor] cucullatus – *Coboydaia clavata*

P. [Textor] cucullatus graueri – *Coboydaia clavata*

P. pelzelni – *Coboydaia clavata*

P. velatus – *Coboydaia clavata*

P. vitellinus – *Coboydaia clavata*

P. xanthops (= *P. x. camburni*) – *Coboydaia clavata*

Quelea quelea – *Coboydaia clavata*

Q. quelea centralis – *Coboydaia clavata*

Q. quelea aethiopica – *Coboydaia clavata*

Q. erythrops – *Coboydaia clavata*

Fam. Pycnonotidae

Bleda syndactyla woosnami – *Boydaia zumpti*

Euryllas latirostris latirostris – *Boydaia zumpti*

Pycnonotus barbatus tricolor – *Boydaia pycnonoti*

P. erythrophthalmus – *Boydaia pycnonoti*

P. jocosus – *Boydaia pycnonoti*

P. goiavier personatus – *Boydaia pycnonoti*

P. leucogenys leucotis – *Boydaia pycnonoti*

P. leucotis – *Boydaia pycnonoti*

P. simplex – *Boydaia pycnonoti*

P. xanthopygus – *Boydaia pycnonoti*

Fam. Sturnidae

Ampeliceps coronatus – *Boydaia sturni*

Acridotheres tristis – *Boydaia indica*, *B. sturni*

Lamprocolius chloropterus – *Boydaia buphagi*, *B. indica*

L. chalybaeus – *Boydaia indica*

Onychognathus walleri elgonensis – *Astrida onychognathi*

Spreo superbus – *Boydaia indica*

Sturnopastor contra – *Boydaia indica*

Sturnus malabaricus – *Boydaia indica*

S. pagodarum – *Boydaia indica*

S. vulgaris - *Boydaia indica*

Fam. Sylviidae

Malurus amabilis – *Boydaia maluri*

M. melanocephalus - *Boydaia maluri*

Fam. Thraupidae

Cyanerpes cyanea – *Boydaia cyanerpes*

Tangara sp. - *Boydaia spatulata*

Tiaris canorus - *Boydaia spatulata*

Fam. Turdidae

Oenanthe isabellina - *Coboydaia nigra*

Saxicola rubetra - *Coboydaia clavata*

Sialia sialis – *Boydaia spatulata*

Turdus migratorius – *Boydaia jordani*

T. pilaris - *Boydaia jordani* (= *turdi*), *B. saxicolae*

Fam. Tyrannidae

Empidonax sp. – *Boydaia synallaxis*

Pyrocephalus rubinua - *Boydaia tyrannis*

Tyrannus tyrannus – *Boydaia tyrannis*

Fam. Tyriridae

Pachyrhamphus [= *Platypsaris*] *aglaiae* - *Boydaia tyrannis*

Fam. Viduidae

Vidua chalybeata - *Coboydaia clavata*

V. chalybeata amauropteryx - *Coboydaia clavata*

Fam. Zosteropidae

Zosterops lateralis – *Boydaia zosteropsis*

Z. senegalensis stuhlmanni (= *scotti*) - *Boydaia zosteropsis*

Order **Pelecaniformes**

Fam. Ardeidae

Ardea cinerea - *Ophthalmognathus schoutedeni* (= *O. dogieli*)

Ardeola idae – *Ophthalmognathus schoutedeni*

Nycticorax caledonicus - *Ophthalmognathus schoutedeni*

N. nycticorax - *Ophthalmognathus schoutedeni*, *O. tenorioae*

N. n. hoactli - *Ophthalmognathus tenorioae*

Fam. Scopidae

Scopus umbretta – *Metaboydaia poffei*

Order **Piciformes**

Fam. Lybiidae

Buccanodon duchaillui - *Picinyssus buccanodon*

Order **Podicipediformes**

Fam. Podicipedidae

Podiceps nigricollis – *Neoboydaia colymbiformi*

P. ruficollis - *Neoboydaia colymbiformi*
Podilymbus podiceps - *Neoboydaia colymbiformi*

Order **Psittaciformes**

Fam. Psittacidae

Amazona amazonica - *Psittaboydaia amazona*
Aratinga jandaya - *Boydaia aratingae*

Fam. Psittaculidae

Agapornis roseicollis - *Psittaboydaia psittaculae*
Psittacula krameri - *Psittaboydaia psittaculae*
Agapornis roseicollis - *Psittaboydaia psittaculae*
Trichoglossus haematod forsteri - *Psittaboydaia trichoglossi*
Trichoglossus moluccanus - *Psittaboydaia psittaculae*

Order **Ralliformes**

Fam. Rallidae

Latirallus melanophaius oenops - *Ralliboydaia latiralli*
Porphyrio melanotus - *Ralliboydaia porphirionis*

Order **Strigiformes**

Fam. Strigidae

Bubo africanus - *Astrida caprimulgi*
Glaucidium perlatum - *Astrida caprimulgi*
Otus senegalensis - *Astrida caprimulgi*
O. spilocephalus vulpes - *Astrida caprimulgi*

Fam. Tytonidae

Tyto alba affinis - *Aureliana aureliani*
T. alba alba - *Aureliana aureliani*

Class **Mammalia**

Order **Dasiuromorphia**

Fam. Dasyuridae

Antechinus stuartii - *Domrownetes exul*

Order **Diprotodontia**

Fam. Petauridae

Petaurus breviceps - *Paraspeleognathopsis exaeta*

Order **Didelphimorphia**

Fam. Didelphidae

Didelphis marsupialis - *Speleomyotis bastini*

Order **Chiroptera**

Fam. Pteropodidae

Eidolon helvum - *Neospeleognathopsis chiropteri*
Epomophorus labiatus minor - *Neospeleognathopsis chiropteri*
Pteropus scapulatus - *Pteropignathus pteropus*
Rousettus aegyptiacus - *Neospeleognathopsis chiropteri*

R. aegyptiacus leachi - *Neospeleognathopsis chiropteri*

Fam. Hipposideridae

Hipposideros commersoni gigas - *Hipposideroptes kimuenzae*

Fam. Nycteridae

Nycteris sp. - *Neospeleochir duboisi*

Fam. Phyllostomatidae

Anoura g. geoffroy - *Speleochir aitkeni*

Artibeus jamaicensis - *Speleochir brasiliensis*

Carollia perspicillata - *Speleochiroides carollia*

Phyllostomus hastatus - *Speleochir phyllostomi*

Vampyroides carracioli - *Speleochir brasiliensis*

Fam. Rhinolophidae

Rhinolophus cornutus - *Neospeleognathopsis (Speleomyotis) bastini*

Fam. Vespertilionidae

Eptesicus fuscus - *Neospeleognathopsis (Speleomyotis) bastini*

E. melanopterus - *Neospeleognathopsis (Speleomyotis) bastini*

Myotis myotis - *Neospeleognathopsis (Speleomyotis) bastini*

M. nigricans - *Neospeleognathopsis (Speleomyotis) bastini*

Fam. Molossidae

Cynomops planirostris - *Neospeleognathopsis (Speleomyotis) molossi*

Molossus ater - *Neospeleognathopsis (Speleomyotis) molossi*

M. molossus - *Neospeleognathopsis (Speleomyotis) molossi*

Fam. Emballonuridae

Saccopteryx bilineata - *Hipposideroptes saccopteryx*

S. leptura - *Hipposideroptes saccopteryx*

Order Rodentia

Fam. Arvicolidae

Microtus agrestis - *Speleorodens michigensis* (= *clethrionomys*)

M. pennsylvanicus - *Speleorodens michigensis*

Myodes [Clethrionomys] gapperi - *Speleorodens michigensis*

M. glareolus - *Speleorodens michigensis* (= *clethrionomys*)

Fam. Cricetidae

Neacomys guianae - *Speleorodens cricetidarum*

Zygodontomys lasiurus fuscinus - *Speleorodens neotropicalis*

Fam. Gliridae

Claviglis murinus microtis - *Paraspeleognathopsis graphiuri*

Fam. Muridae

Murinae

Apodemus agrarius coreae - *Paraspeleognathopsis bakeri*

A. flavicollis - *Paraspeleognathopsis bakeri*

A. speciosus - *Paraspeleognathopsis bakeri*

Arvicanthis abysinicus – *Speleomys galliardi*
Dasymys incomtus medius – *Speleomys galliardi*
Hydromys chrysogaster – *Speleorodens derricki*
Mastomys coucha ugandae – *Paraspeleognathopsis bakeri*
Melomys cervinipes – *Paraspeleognathopsis bakeri*
Mus musculus – *Speleorodens derricki*
Pelomys fallax concolor – *Speleomys galliardi*
Rattus assimilis – *Speleorodens derricki*
R. conatus – *Speleorodens derricki*
R. rattus – *Speleorodens derricki*
Sylvaemus sylvaticus – *Paraspeleognathopsis bakeri*
S. sylvaticus callipides – *Paraspeleognathopsis bakeri*

Gerbillinae

Gerbilliscus boehmi – *Speleomys galliardi*

Fam. Sciuridae

Funisciurus carruthersi – *Speleorodens strandtmanni*
Sciurus carolinensis – *Speleorodens strandtmanni* (= *P. sciuri*)
S. granatensis – *Speleorodens strandtmanni*
S. vulgaris – *Speleorodens strandtmanni*
Tamiscus emini – *Speleorodens strandtmanni*

Order Primates

Fam. Galagonidae

Galago senegalensis moholi – *Paraspeleognathopsis galagoensis*

Order Artiodactyla

Fam. Bovidae

Bos taurus – *Speleognathus australis* (= *bovis*)
Bison bison – *Speleognathus australis*

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The Mite Superfamily Paratydeoidea

Paratydeoidea Baker, 1949

The superfamily contains only the family Paratydeidae.

The Mite Family Paratydeidae Baker

Paratydeidae Baker, 1949: 119

Small family of 13 known species of six genera, described by Berlese (1910), Baker (1949, 1950), Theron, Meyer & Ryke (1969), Kuznetzov (1973), Soliman (1974), Kandeel (1992), Kandeel & Hoda (1992), Flechtmann (1992), Seeman & Walter (2000).

Catalogue of Paratydeidae

Family **Paratydeidae** Baker

Paratydeidae Baker, 1949: 119

Type genus: *Paratydeus* Baker, 1949

Genus ***Hexatydeus*** Soliman

Hexatydeus Soliman, 1974: 198

Type species: *Hexatydeus aegyptiacus* Soliman, 1974

Hexatydeus aegyptiacus Soliman

Hexatydeus aegyptiacus Soliman, 1974: 198

Type locality: Dakahlia, El Manzala

Distribution: Egypt

Hexatydeus amabilis Kandeel

Hexatydeus amabilis Kandeel, 1992: 6

Type locality: Egypt

Distribution: Egypt

Genus ***Paratydeus*** Baker

Paratydeus Baker, 1949: 119

Type species: *Paratydeus alexanderi* Baker, 1949

Paratydeus alexanderi Baker

Paratydeus alexanderi Baker, 1949: 120

Type locality: intercepted at Brownsville, Texas on twig with bananas from Mexico

Distribution: Mexico

Genus ***Sacotydeus*** Theron, Meyer et Ryke

Sacotydeus Theron, Meyer & Ryke, 1969: 698

Type species: *Sacotydeus lootsi* Theron, Meyer et Ryke, 1969

Sacotydeus lootsi Theron, Meyer et Ryke

Sacotydeus lootsi Theron, Meyer & Ryke, 1969: 699

Type locality: Potchefstroom, Transvaal

Distribution: South Africa

Genus ***Scolotydaeus*** Berlese

Scolotydaeus Berlese, 1910: 214

Type species: *Scolotydaeus bacillus* Berlese, 1910

Neotydeus Baker, 1950: 289. Syn. by Delfinado & Baker, 1974: 207

Type species: *Neotydeus ardisannae* Baker, 1950

Scolotydeus ardisannae (Baker)

Neotydeus ardisannae Baker, 1950: 291

Scolotydeus ardisannae (Baker): Syn. by Delfinado & Baker, 1974: 207

Type locality: Sanburn, Johnson Co., Illinois

Distribution: USA

Scolotydaeus bacillus Berlese

Scolotydaeus bacillus Berlese, 1910: 214; Thor, 1932: 90; 1933: 44; Theron, Meyer & Ryke, 1969: 708

Type locality: Palermo ("in agri Panormitani")

Distribution: Norway, Italy (incl. Sicily)

Scolotydaeus corticicola Flechtmann

Scolotydaeus corticicola Flechtmann, 1992: 299

Type locality: Brazil

Distribution: Brazil

Scolotydaeus simplex Delfinado et Baker

Scolotydaeus simplex Delfinado & Baker, 1974: 207

Type locality: New York, Long Island, Adirondack Oark

Distribution: U.S.A. (New York)

Genus ***Tanytydeus*** Theron, Meyer et Ryke

Tanytydeus Theron, Meyer & Ryke, 1969: 703

Type species: *Tanytydeus cristatus* Theron, Meyer et Ryke

Tanytydeus cristatus Theron, Meyer et Ryke*Tanytydeus cristatus* Theron, Meyer & Ryke, 1969: 703

Type locality: Potchefstroom, Transvaal

Distribution: South Africa, Crimea

Tanytydeus kakadu Seeman et Walter*Tanytydeus kakadu* Seeman & Walter, 2000: 399

Type locality: NT, Kakadu Nat. Park, Baroalba Gorge, Gubara Walk

Distribution: Australia (Northern Territory)

Tanytydeus lamington Seeman et Walter*Tanytydeus lamington*, Seeman & Walter, 2000: 395

Type locality: Lamington Nat. Park, Mt Bithongabel

Distribution: Australia (Queensland)

Tanytydeus neocristatus Kandeel et Hoda*Tanytydeus neocristatus* Kandeel & Hoda, 1992: 311

Type locality: Egypt

Distribution: Egypt

Genus ***Walytydeus*** Kuznetzov*Walytydeus* Kuznetzov, 1973: 12Type species: *Walytydeus tauricus* Kuznetzov, 1973***Walytydeus tauricus*** Kuznetzov*Walytydeus tauricus* Kuznetzov, 1973: 13

Type locality: Crimea

Distribution: Crimea

Index of Paratydeidae

(Names in bold are accepted as valid)

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Paratydeus 243

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Distribution of Paratydeidae

EUROPE

Crimea (Kuznetsov, 1973) – *Tanytydeus cristatus*, *Walytydeus tauricus*

Italy (contin.)(Berlese, 1882)

Sicily (Berlese, 1910) - *Scolotydaeus bacillus*

Norway (Thor, 1932) - *Scolotydaeus bacillus*

AFRICA

Egypt (Kandeel, 1992; Kandeel & Hoda, 1992; Soliman, 1974) – *Hexatydeus aegypticus*, *H. amabilis*, *Tanytydeus neocristatus*

South Africa (Theron, Meyer & Ryke, 1969) – *Sacotydeus lootsi*, *Tanytydeus cristatus*

NORTH AMERICA

Mexico (Baker, 1949) - *Paratydeus alexanderi*

USA (Baker, 1950; Delfinado & Baker, 1974) - *Scolotydaeus* (= *Neotydeus*) *ardisannae*, *S. simplex*

SOUTH and CENTRAL AMERICA

Brazil (Flechtmann, 1992) - *Scolotydaeus corticicola*

OCEANIA

Australia (continent.)(Seeman & Walter, 2000) – *Tanytydeus lamington*, *T. kakadu*

Bibliography of Paratydeidae

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Supercohort Anystides

Cohort Anystina

The cohort includes (Walter et al, in Krantz & Walter, 2009) the superfamilies Anystoidea, Caeculoidea, Adamystoidea, Paratydeoidea, and Pomerantzioidea, all treated in the present volume.

The Mite Superfamily Anystoidea

Anystoidea Cunliffe, 1955: 213; Southcott, 1957: 173
Phalanx Hamatostomata Wainstein, 1965: 77

In this superfamily are included the families Anystidae, Erythracaridae, Teneriffiidae, Pseudocheylidae, and Stigmocheylidae. They are predators.

The Mite Families Anystidae Oudemans and Erythracaridae Oudemans

The Anystids (s.lat.) are fast moving predators, moderately large (500 – 1500 µm), preying upon small mites and insects. Most often they are found on the soil surface or on plants. As early as in 1927 it was shown by Hirst that they can reach the highest mountains (Tibet, Mount Everest, 4950 m).

Acarus baccharum Linnaeus, 1758 and *A. salicinus* (now *Anystis*) were the first members of Anystidae to be described. Since the description of the genus *Anystis* von Heyden, 1826 on the basis of *Trombidium cornigerum* Hermann, 1804, many people contributed with new descriptions of Anystids: Haller (1882), Berlese (1882, 1886, 1903, 1905, 1923, described the genera *Tarsotomus*, *Erythracarus*), Thor (1912) described *Tarsolarkus*, Banks (1916), Schweizer (1922), Hirst (1927, 1931 - described *Anandia*), Trägårdh (1905, 1931). Among the early students of Anystidae are also worth mentioning Dugès (1834), C.L. Koch (1836, 1847), Stoll (1886, 1887).

It was Oudemans, who revised the family in 1936, describing nine new genera (*Autenriethia*, *Barellea*, *Walzia*, *Scharfenbergia*, *Snartia*, *Tencateia*, *Chaussieria*, *Bechsteinia*, *Siblyia*) and new species and dividing the family into two subfamilies Anystinae and Erythracarinae, the only recognized ever since.

After 1936 the most important contributions were the partial revision of Meyer & Ueckermann (1987) in South Africa (with the descriptions of the new genera *Namandia* and *Paranandia* and of 7 new species) and the revision of Erythracarinae of Otto (1999b), of *Erythracarus* of Otto (1999a), of *Chaussieria* (Otto, 1999c) and of *Tarsotomus* and *Paratarsotomus* (Otto, 1999d), in Australia. Other acarologists who contributed to the system or the biology of Anystidae after 1936 were Evans & Browning, Barilo, Naudo, Willmann (described the genus *Absoloniana*), Reda, Kuznetsov (described the genus *Paratarsotomus*), Womersley and others.

Finally, Pepato & Klimov (2015) upgraded the subfamily Erythracarinae on family level.

Composition of Anystidae and Erythracaridae

Fam. **Anystidae** Oudemans, 1902 - 16 gen., 102 sp. and Fam. **Erythracaridae** Oudemans – 8 gen., 68 sp.

Subfam. **Anystinae** Oudemans, 1936 - 8 gen., 34 sp.

Anystis von Heyden, 1826 - 21 sp.

(= *Actineda* C.L. Koch, 1836)

Autenriethia Oudemans, 1936 - 1 sp.

Barellea Oudemans, 1936 - 1 sp.

Mesoanystis Zacharda, 1985 - 1 sp. (fossil)

Scharfenbergia Oudemans, 1936 - 2 sp.

Snartia Oudemans, 1936 - 1 sp.

Tencateia Oudemans, 1936 - 3 sp.

Walzia Oudemans, 1936 - 5 sp.

Fam. **Erythracaridae** Oudemans: Pepato & Klimov, 2015 - 8 gen., 68 sp.

Chaussieria Oudemans, 1937 - 10 sp.

Erythracarus Berlese, 1903 - 19 sp.

Erythrocheylus Berlese, 1903 - 2 sp.

Namadia Meyer & Ueckermann, 1987 - 1 sp.

Paratarsotomus Kuznetsov, 1983 - 5 sp.

Siblyia Oudemans, 1936 - 1 sp.

Tarsolarcus Thor, 1912 - 3 sp.

Tarsotomus Berlese, 1882 - 27 sp.

(= *Absoloniana* Willmann, 1940)

(= *Paranandia* Meyer et Ueckermann, 1987)

(= *Anandia* Hirst, 1927)

(= *Parabsoloniana* Barilo, 1984)

(= *Bechsteinia* Oudemans, 1936)

(= *Chabrieria* Oudemans, 1936)

Catalogue of the Families Anystidae and Erythracaridae

Family **Anystidae** Oudemans

Anystinae Oudemans, 1902:

Anystidae Thor, 1903; Oudemans, 1909; 1936: 364

Erythracaridae Miller, 1925: 97

Type genus: *Anystis* von Heyden, 1826

Subfamily **Anystinae** Oudemans

Anystinae: Oudemans, 1936: 383

Type genus: *Anystis* von Heyden, 1826

Genus **Anystis** von Heyden

Anystis von Heyden, 1826: 609

Type species: *Trombidium cornigerum* Hermann, 1804

Actineda C.L. Koch, 1836: 6

Type species: *Actineda hilaris* C.L. Koch, 1836

Anystis agilis (Banks)

Actineda agilis Banks, 1894: 211; 1895: 432; 1903: 275

Anystis agilis (Banks): Banks, 1907: 598; Ewing, 1909: 432; Miller, 1925: 98; Cuthbertson & Murchie, 2007: 276

Type locality: USA

Distribution: Bermuda Is., Great Britain, Italy, USA

Anystis andrei Oudemans

Anystis andrei Oudemans, 1936: 408

Type locality: Beausoleil, France, 350 m

Distribution: France

Anystis baccharum (Linnaeus)

Acarus baccharum Linnaeus, 1758: 106

Actineda baccharum: Stoll, 1886

Anystis baccharum (L.): Trägårdh, 1905: 63; 1931: 624; Thor, 1912 : 388; Hull, 1918: 29; Vitzthum, 1926: 121; André, 1927: 168; Oudemans, 1906: 85; 1936: 387; Irk, 1939: 154; Willmann, 1939: 13; 1951b: 144; 1954: 236; Irk, 1939: 154; Duduch et al., 1940: 54; Evans, 1953: 280; Franz, 1954: 367; Mihelčič, 1958a: 40; 1958b: 278; Shiba, 1969: 101; 2006: 87; Hardman et al., 1885; Smith-Meyer & Ueckermann, 1987: 2 (redescription), Gupta, 2002: 12. Detailed synonymy in Vitzthum, 1926

Anystes baccharum (L.): Irk, 1939; Schweizer, 1951: 66

Actineda coccinea Targioni-Tozzetti, 1878: 258.

Type locality: Sweden

Distribution: Algeria, Australia, Austria, Canada, Chile (Juan Fernandes Is.), China, Egypt, Faroes Is., Germany, Great Britain, Hungary, Iceland, India, Iran, Israel, Italy, Japan, Korea, Madeira, Malaysia, Mexico, New Guinea, Norway, St-Helena, South Africa, Spain, Sweden, Switzerland, Tanzania, Tunisia, Turkey, U.S.A.

Anystis berlesei Oudemans

Anystis berlesei: Oudemans, 1936: 395

Type locality: Italy

Distribution: Italy, St. Helena

Anystis borrusica Oudemans

Anystis borrusica: Oudemans, 1936: 405

Type locality: Königsberg, now Kaliningrad, Russia

Distribution: Russia (Kaliningrad District)

Anystis citreola Oudemans

Anystis flaveola Stoll, 1887 (nec *flaveola* C.L. Koch, 1836)

Anystis citreola: Oudemans, 1936: 410

Type locality: Guatemala

Distribution: Guatemala

***Anystis cornigerum* (Hermann)**

Trombidium cornigerum Hermann, 1804: 47

Actineda cornigera (Hermann): C.L. Koch, 1836: Heft 17. Considered by Vitzthum (1926) who listed some names of C.L. Koch as synonyms of *A. baccharum*: *Actineda flaveola*, *A. pini*, *A. triangularis*, *A. robuscula*, *A. rubis*, and others. In his revision of Anystidae Oudemans (1936) indicates that “Kochschen “Arten” wahrscheinlich Nymphen sind” (p.365, 368). as synonym of *Anystis baccharum*.

Erythraeus cornigerus: Dugès, 1834: 16, 44.

Anystis cornigerum (Hermann): von Heyden, 1826. Type of genus *Anystis* von Heyden, 1826.

Type locality: France

Distribution: France, Great Britain, Italy

***Anystis cornutum* (Hermann)**

Trombidium cornutum Hermann, 1804: 47

Anystis sp.: Thor & Willmann, 1947: 513

Anystis cornutum (Hermann): Otto, 1999a: 895 (with “?”)

Type locality: France

Distribution: France

***Anystis cursorium* (Gervais)**

Trombidium cursorium Gervais, 1844: 187

Anystis cursorium (Gervais):

Type locality: France

Distribution: France

***Anystis germanica* Oudemans**

Anystis germanica: Oudemans, 1936: 403

Type locality: Königsberg, now Kaliningrad, Russia

Distribution: Russia (Kaliningrad District)

***Anystis indica* Gupta**

Anystis indica Gupta, 1992: 144; 2002:

Type locality: India

Distribution: India

***Anystis jabanica* (Berlese)**

Actineda jabanica Berlese, 1905: 156

Anystis jabanica (Berlese): Holm & Wallace, 1989: 77

Type locality: Buitenzorg (Java)

Distribution: Australia, Indonesia (Java)

Anystis lahorensis* KhanAnystis lahorensis* Khan, 1967: 400

Type locality: Lahor

Distribution: Pakistan

Anystis langei* BariloAnystis langei* Barilo, 1984c: 452

Type locality: Zeravshan Range, 20 km south of Samarkand

Distribution: Uzbekistan

Anystis nagalandensis* GuptaAnystis nagalandensis* Gupta, 1991: 235; 1992:

Type locality: Botsa, Nagaland

Distribution: India

Anystis pallescens* (C.L. Koch)Actineda pallescens* C.L. Koch, 1838: 6

Type locality: Germany

Distribution: Germany, Holland, Italy, Sainte-Helene

Anystis salicinus* (Linnaeus)Acarus salicinus*: Linnaeus, 1758: 618*Anystis salicinus* (L.): Oudemans, 1936: 393; Smith – Meyer & Ueckermann, 1987: 8; Otto, 1992: 33; Shiba, 2006: 87; Zhang & Hong, 2010: 8*Anystis rosae* Oudemans, 1936: 397 - Type locality: Arnhem, Holland*Anystis kochi* Oudemans, 1936: 399 - Type locality: Prov. Gelderland, Holland

Type locality: (?) Sweden

Distribution: China, France, Germany, Great Britain, Holland, Japan, Sweden; Sainte-Helene, South Africa (introduced)

Anystis sellnicki* OudemansAnystis sellnicki*: Oudemans, 1936: 401

Type locality: Königsberg, now Kaliningrad, Russia

Distribution: Russia (Kaliningrad District)

Anystis venustula* (Koch et Berendt)(fossil)Actineda venustula* Koch & Berendt, 1854: Plate XIII, fig. 106*Anystis venustula* (Koch et Berendt): Oudemans, 1936: 411

Type locality: Baltic Amber (Paleogene)

Distribution: Baltic Amber (Paleogene)

Anystis vitis (Schrank)*Acarus vitis* Schrank, 1781: 519*Actineda vitis* (Schrank): Halbert, 1915: 114*Anystis vitis* (Schrank): Oudemans, 1936: 464; Bottazzi, 1950: 29; Starkoff & Starkoff, 1950: 95

Type locality: Austria

Distribution: Austria, Ireland, Italy

Anystis voigtsi Oudemans*Anystis voigtsi*: Oudemans, 1936: 405

Type locality: Bremen, Germany

Distribution: Germany

Anystis wallacei Otto*Anystis salicinus*: Meyer & Ueckermann, 1987: 8, in part; Holm & Wallace, 1989: 79 (nec *Acarus salicinus* Linnaeus)*Anystis wallacei* Otto, 1992: 25; Halliday, 2005: 7; Barbar, 2018

Type locality: France

Distribution: China, France, Portugal, Spain, Morocco, Syria; South Africa, Australia (introduced)

Genus ***Autenriethia*** Oudemans*Autenriethia* Oudemans, 1936: 425Type species: *Actineda velox* Berlese, 1905***Autenriethia velox*** (Berlese)*Actineda velox*: Berlese, 1905: 156*Autenriethia velox* (Berlese): Oudemans, 1936: 427

Type locality: Johore, Malaysia

Distribution: Malaysia

Genus ***Barellea*** Oudemans*Barellea* Oudemans, 1936: 427Type species: *Anystis sinensis* Berlese, 1923***Barellea sinensis*** (Berlese)*Anystis sinensis*: Berlese, 1923: 237*Barellea sinensis* (Berlese): Oudemans, 1936: 427; Zhang & Hong, 2010: 8

Type locality: Peking

Distribution: China

Genus ***Mesoanystis*** Zacharda (fossil)

Mesoanystis Zacharda, 1985: 150

Type species: *Mesoanystis taymirensis* Zacharda, 1985

Mesoanystis taymirensis Zacharda (fossil)

Mesoanystis taymirensis Zacharda, 1985: 150

Type locality: Taymir Peninsula, Jantardach (Upper Cretaceous amber)

Distribution: Russia (Taymir)

Genus ***Scharfenbergia*** Oudemans

Scharfenbergia Oudemans, 1936: 412

Type species: *Actineda hilaris* C.L.Koch, 1836

Scharfenbergia hilaris (C.L. Koch)

Actineda hilaris: C.L. Koch, 1836: 6

Scharfenberhia hilaris (C.L.Koch): Oudemans, 1936: 412

Type locality: Esslarn, Germany

Distribution: Germany, France

Scharfenbergia gauthieri Oudemans

Scharfenbergia gauthieri Oudemans, 1936: 414

Type locality: Reghaia, Algeria

Distribution: Algeria

Genus ***Snartia*** Oudemans

Snartia Oudemans, 1936: 417

Type species: *Snartia nepenthus* Oudemans, 1936

Snartia nepenthus Oudemans

Snartia nepenthus Oudemans, 1936: 417

Type locality: Haranggaol, Lake Toba, Sumatra

Distribution: Sumatra (Indonesia)

Genus ***Tencateia*** Oudemans

Tencateia Oudemans, 1936: 422

Type species: *Tencateia besselingi* Oudemans, 1936

Tencateia besselingi Oudemans

Tencateia besselingi: Oudemans, 1936: 424; Willmann, 1954: 236; Meyer & Ueckermann, 1987: 14

Type locality: Roosendaal, Noord-Brabant

Distribution: Czech Rep., Holland

Tencateia kanthiensis Gupta

Tencateia kanthiensis Gupta, 1992: 146

Type locality: W. Bengal, Distr. Medinpur, Kanthi

Distribution: India

Tencateia toxopei Oudemans

Tencateia toxopei: Oudemans, 1936: 425; Willmann, 1951a: 147; Shiba, 2006: 87

Type locality: Oisterwijk, Noord-Brabant (Holland)

Distribution: Austria, Holland, Japan

Tencateia villosa Meyer et Ueckermann

Tencateia villosa: Meyer & Ueckermann, 1987: 10

Type locality: South Africa (10 km from Postmasburg, Cape Prov., and many other places)

Distribution: South Africa

Genus ***Walzia*** Oudemans

Walzia Oudemans, 1936: 419

Type species: *Actineda antiguensis* Stoll, 1886

Walzia antiguensis (Stoll)

Actineda antiguensis: Stoll, 1886: 7

Walzia antiguensis (Stoll): Oudemans, 1936: 419

Type locality: Antigua, Guatemala

Distribution: Guatemala, Venezuela

Walzia australica Womersley

Walzia australica: Womersley, 1942: 18; Holm & Wallace, 1989; Su et al., 2006

Type locality: South Australia, Queensland

Distribution: Australia (South Australia, Queensland), China

Walzia darjeelingensis Gupta

Walzia darjeelingensis Gupta, 1992: 148; 2002:

Type locality: West Bengal, Darjeeling Botanical Garden

Distribution: India

Walzia hammeni Meyer et Ueckermann

Walzia hammeni: Meyer & Ueckermann, 1987: 16

Type locality: South Africa, Blyde River Canyon, Transvaal, and many other places

Distribution: South Africa

Walzia indiana Meyer et Ueckermann

Walzia indiana: Meyer & Ueckermann, 1987: 14; Gupta, 2002:

Type locality: Midnapur, West Bengal, India

Distribution: India

Fam. Erythracaridae Oudemans

Subfamilia Erythracarinae Oudemans

Erythracarinae Oudemans, 1936: 427

Erythracaridae: Pepato & Klimov, 2015

Type genus: *Erythracarus* Oudemans, 1936

Genus *Chaussieria* Oudemans

Schellenbergia Oudemans, 1936: 433 (praeocc.)

Chaussieria Oudemans, 1937: 662 (replacement name); Meyer & Ueckermann, 1987: 18;
Otto, 1999b: 254

Chausseria (misspelling): Willmann, 1951b: 147; Hutterer & Rack, 1977: 421

Type species: *Erythraeus domesticus* C.L. Koch, 1847

Chaussieria aprica Otto

Chaussieria aprica Otto, 1999b: 258

Type locality: 10 miles south of Larrimah, Northern Territory

Distribution: Australia

Chaussieria berlesei (Oudemans)

Erythraeus parietinus (Hermann): Berlese, 1882: (not Hermann, 1804)

Tarsotomus berlesei Oudemans, 1906: 87

Schellenbergia berlesei (Oudemans): Oudemans, 1936: 434

Chausseria berlesei (Oudemans): Willmann, 1951a: 147

Chaussieria berlesei (Oudemans): Meyer & Ueckermann, 1987: 18

Type locality: Italy

Distribution: Austria, Italy

Chaussieria capensis Meyer et Ryke

Chaussieria capensis Meyer & Ryke, 1960: 185; Ueckermann & Smith Meyer, 1988: 41
(synonymized it with *Ch. venustissima*, but Otto, 1999b: 264 restored it as full species); López-Campos & Vázquez-Rojas, 2010: 157

Type locality: South Africa, Bathurst

Distribution: South Africa

Chaussieria dissimilis Naudo

Chaussieria dissimilis: Naudo, 1977: 298; Otto, 1999b: 265

Type locality: St. Helena, Prosperous Bay Plain

Distribution: St. Helena

***Chaussieria domestica* (C.L.Koch)**

Erythraeus domesticus: C.L.Koch, 1847: 257

Tarsotomus domesticus: Oudemans, 1921: 358

Schellenbergia domesticus (C.L.Koch): Oudemans, 1936: 433

Schellenbergia berlesei (Oudemans): Oudemans, 1936: 434

Chaussieria domestica (C.L.Koch): Meyer & Ueckermann, 1987: 22; Otto, 1999b: 266; Shiba, 2006: 87

Erythraeus venustissimus: Berlese, 1882: fasc. 2(3); 1888: 3; Canestrini, 1885: 1652; 1886: 164; Schweizer, 1922: 81

Erythracarus venustissimus (Berlese): Type: Sicily. Vitzthum, 1928: 47; Schweizer, 1951: 66; Mihelčič, 1958a: 40; Schweizer & Bader, 1963: 266

Schellenbergia venustissima (Berlese): Oudemans, 1936: 436

Chaussieria venustissima (Berlese): Naudo, 1977: 300; Meyer & Ueckermann, 1987: 20 (in part, European material only); Ueckermann & Smith Meyer, 1988: 41; Otto & Olomski, 1994: 287

Chausseria venustissima (Berlese)(misspelling): Hutterer & Rack, 1976: 434

Tarsotomus berlesei Oudemans, 1905: 87 (syn. by Otto, 1999b: 266)

Chaussieria berlesei (Oudemans): Meyer & Ueckermann, 1987: 18

Chaussieria maritima: Evans & Browning, 1953: 419. Type: Babbacombe, South Devon, England. Meyer & Ueckermann, 1987: 22. Syn. by Otto, 1999b: 266

Type locality: Germany

Distribution: Austria, Germany, Great Britain, Greece (Crete), Holland, Iran, Italy (incl. Sicily), Japan, Russia, Spain, Switzerland, Uzbekistan

***Chaussieria pilifera* Otto**

Chaussieria pilifera Otto, 1999b: 270

Type locality: South Australia, 31 km NW of Renmark

Distribution: Australia (South Australia, Victoria, Western Australia)

***Chaussieria pulleni* Otto**

Chaussieria pulleni Otto, 1999b: 274

Type locality: 79 km NNW of Renmark, South Australia

Distribution: Australia

***Chaussieria pumila* Otto**

Chaussieria pumila Otto, 1999b: 275

Type locality: NSW, 43 km E of Balranald

Distribution: Australia (NSW, Northern Territory, South Australia, Victoria, Western Australia)

***Chaussieria sanctaehelenae* Naudo**

Chaussieria sanctaehelenae: Naudo, 1977: 292; Meyer & Ueckermann, 1987: 22; Otto, 1999b: 282

Chaussieria brevis Naudo, 1977: 298; Meyer & Ueckermann, 1987: 22. Syn. by Otto, 1999b: 283

Chaussieria benoiti Naudo, 1977: 297; Meyer & Ueckermann, 1987: 22.

Type locality: Prosperous Bay Plain

Distribution: St. Helena

***Chaussieria warregense* (Hirst)**

Tarsotomus warregense: Hirst, 1931: 562; Oudemans, 1936: 442

Schellenbergia warregense (Hirst): Oudemans, 1936: 442; Womersley, 1942: 20

Chaussieria warregense (Hirst): Naudo, 1977: 300; Meyer & Ueckermann, 1987: 18; Holm & Wallace, 1989; Otto, 1999b: 286

Type locality: Barrigun, near Warrego River, New South Wales

Distribution: Australia (New South Wales, ACT, Northern Territory, South Australia, Western Australia, Tasmania, Queensland)

Genus *Erythracarus* Berlese

Erythracarus Berlese, 1903: 26

Type species: *Trombidium ruricola* (not *parietinum* Hermann, 1804, fide Otto, 1999a)

Palaeoerythracarus Zacharda, 1985: 150 – syn. by Otto, 2000: 457

Type species: *Palaeoerythracarus sachalinensis* Zacharda, 1985

Bechsteinia Oudemans, 1936: 436 – syn. by Otto, 1999a: 828

Chabrieria Oudemans, 1936: 446 – syn. by Otto, 1999a: 828

Type species of *Bechsteinia* Oudemans: *Bechsteinia schneideri* Oudemans, 1936

Type species of *Chabrieria* Oudemans: *Tarsotomus terminalis* Banks, 1916

***Erythracarus amnicolus* Otto**

Erythracarus amnicolus Otto, 1999a: 860

Type locality: 67 km S of Menindee, N.S.W.

Distribution: Australia (N.S.W., Western Australia)

***Erythracarus avius* Otto**

Erythracarus avius Otto, 1999a: 864

Type locality: Tasmania, Peters Link Road

Distribution: Australia (Tasmania)

Erythracarus barbarus* OttoErythracarus barbarus* Otto, 1999a: 865

Type locality: McNary (Arizona)

Distribution: USA (Arizona)

Erythracarus ciliatus* OttoErythracarus ciliatus* Otto, 1999a: 868

Type locality: 5 km W of Cowangie, Victoria

Distribution: Australia (Victoria, Western Australia)

Erythracarus decoris* OttoErythracarus decoris* Otto, 1999a: 831

Type locality: Bethungra, N.S.W.

Distribution: Australia (N.S.W., A.C.T., Victoria, Northern Territory, Western Australia)

Erythracarus elegans* OttoErythracarus elegans* Otto, 1999a: 835

Type locality: 13 km NW of Goulbourn, N.S.W., road to Crookwell

Distribution: Australia (N.S.W., A.C.T., Victoria)

Erythracarus epigeus* (C.L. Koch)Erythraeus epigeus* C.L. Koch, 1837: 16.24; 1842: 53*Erythracarus* ? *epigeus* (C.L. Koch): Oudemans, 1936: 431*Erythracarus epigeus* (C.L. Koch): Otto, 1999a: 876

Type locality: along the river Danube near Regensburg

Distribution: Germany

Erythracarus festinus* (Meyer et Ueckermann)Becksteinia festina*: Meyer & Ueckermann, 1987: 28*Erythracarus festinus* (Meyer et Ueckermann): Otto, 1999a: 840

Type locality: Transvaal, near Golela, Pongola River

Distribution: South Africa

Erythracarus flavipes* OttoErythracarus flavipes* Otto, 1999a: 878

Type locality: A.C.T., Canberra, Mount Ainslie

Distribution: Australia

Erythracarus grahami* (Meyer et Ryke)Becksteinia grahami*: Meyer & Ryke, 1960: 184; Meyer & Ueckermann, 1987: 28*Erythracarus grahami* (Meyer et Ryke): Otto, 1999a: 883

Type locality: Bathurst, near Albany, Cape Province, South Africa

Distribution: Angola, South Africa

***Erythracarus ? hirsutus* (Menge) (fossil)**

Erythraeus hirsutus Menge, 1854: 107

Erythracarus ? hirsutus (Menge): Oudemans, 1936: 432; Otto, 1999a: 884

Type locality: amber

Distribution: amber

***Erythracarus ? lagopus* (Menge) (fossil)**

Erythraeus lagopus Menge, 1854: 107

Erythracarus ? lagopus (Menge): Oudemans, 1936: 432; Otto, 1999a: 885

Type locality: amber

Distribution: amber

***Erythracarus katherinae* Otto**

Erythracarus katherinae Otto, 1999a: 841

Type locality: Burrewarra Point, N.S.W.

Distribution: Australia, incl. Tasmania

***Erythracarus longisetae* Reda**

Bechsteinia longisetae (Reda), 1991: 728

Erythracarus longisetae (Reda): Otto, 1999a:

Type locality: Egypt

Distribution: Egypt

***Erythracarus nasutus* Otto**

Bechsteinia festina: Meyer & Ueckermann, 1987: 28 (in part, misidentification)

Erythracarus nasutus Otto, 1999a: 844; Lopez-Campos & Vazquez-Rojas, 2010: 157; de

Oliveira Bernardi et al., 2010: 119

Type locality: Transvaal, Loskop Dam

Distribution: Brazil, Mexico, South Africa

***Erythracarus nobarii* (Reda)**

Bechsteinia nobarii Reda, 1991: 729

Type locality: Egypt

Distribution: Egypt

***Erythracarus parietinus* (Hermann)**

Trombidium parietinum: Hermann, 1804: 37

Erythraeus parietinus Latr.: Haller, 1882: 314

Erythraeus parietinus (Hermann): C.L. Koch, 1837: 16.23; 1842: 53 + figure 25

Tarsotomus parietinus (Herm.): Oudemans, 1906: 85
Erythracarus parietinus (Herm.): Thor, 1912: 388; Schweizer, 1951: 66; Franz, 1954: 367; Bottazzi, 1950: 29; Mihelčič, 1958a: 40; 1958b: 278
Erythraeus parietinus Herm.: Hull, 1918: 29
Erythracarus parietinum (Hermann): Oudemans, 1936: 429
Erythraeus comes Berlese, 1886: 6; syn. by Oudemans, 1906: 87 (as *Tarsotomus comes*)
Tarsotomus comes (Berlese): André, 1927: 169
Erythracarus comes (Berlese): Berlese, 1903: 26; 1920: 8; Starkoff & Starkoff, 1950: 96
Anystis parietinum: Oudemans, 1936:
Becksteinia solarii Ueckermann, 1987: 56. Type: Hamburg, Germany, Syn. by Otto, 1999a: 886
Erythraeus spinatus Banks, 1894: 210. Type: New York State, Long Island, Sea Cliff Village. Oregon. Syn. by Otto, 1999a: 886
Type locality of *E. parietinus*: France
Distribution: Algeria, Austria, France, Germany, Great Britain, Holland, Italy, Norway, Spain, Switzerland, Ukraine, USA

***Erythracarus proavus* (Menge)(fossil)**

Erythraeus proavus Menge, 1854: 107
Type locality: amber
Distribution: amber

***Erythracarus pyrrholeucus* (Hermann)**

Trombidium pyrrholeucum Hermann, 1804: 58
Erythraeus ruricola Dugès, 1834: 40; C.L. Koch, 1837: 1.5, 1842: 53; Canestrini, 1885: 1650; Berlese, 1887: No2,3. Synonymy by Oudemans, 1936: 432
Erythracarus ruricola (Dugès): Berlese, 1903: 26; Oudemans, 1936: 432; Schweizer, 1951: 66; Mihelčič, 1958a: 40; Schweizer & Bader, 1963: 266 (in part, specimen from the locality 'Scanf' only, fide Otto, 1999a: 846)
Erythracarus pyrrholeucus: Oudemans, 1936: 432; Otto, 1999a: 850 (redescription); Barber, 2018
Tarsotomus terminalis: Banks, 1916: 13. Type: Claremont, California. Syn. by Otto, 1999a: 847
Chabrieria terminalis (Banks): Oudemans, 1936: 446
Becksteinia schneideri: Type: San Remo, Italy; Oudemans, 1936: 436; Cooreman, 1946: 4000 (Italy, Cyprus); Ueckermann, 1987: 57. Syn. by Otto, 1999a: 847
Becksteinia californica McGregor, 1956: 23; Ueckermann, 1987: 56. Type: Whittier, California. Syn. by Otto, 1999a: 847
Type locality of *Erythracarus pyrrholeucus*: France

Distribution: Algeria, Australia, Cyprus, Iran, Italy, France, Spain, Ukraine, Crimea, U.S.A. (California)

Erythracarus raripilus (Menge)(fossil)

Erythraeus raripilus Menge. 1854: 107

Erythracus [sic] *raripilus* (Menge): Oudemans, 1936: 433

Erythracarus raripilus (Menge): Otto, 1999a: 894

Type locality: amber

Distribution: amber

Erythracarus sachalinensis (Zacharda) (fossil)

Palaeoerythracarus sachalinensis Zacharda, in Zacharda & Krivoluckiy, 1985: 150

Erythracarus sachalinensis (Zacharda)

Type locality: South Sachalin I., Starodubskoe (Paleogene amber)

Distribution: Russia (Sachalin)

Erythracarus tricolor (Lucas)

Erythraeus tricolor Lucas, 1846: 311

Erythracarus tricolor (Lucas): Oudemans, 1936: 433; Otto, 1999b: 895 (with “?”)

Type locality: Algeria

Distribution: Algeria

Genus ***Erythrocheylus*** Berlese

Erythrocheylus Berlese, 1903: 27

Type species: *Pseudocheylus erythraeoides* Leonardi, 1901

Erythrocheylus erythraeoides (Leonardi)

Pseudocheylus erythraeoides Leonardi in Berlese & Leonardi, 1901: 110

Erythrocheylus erythraeoides (Leonardi, 1901): Berlese, 1903:

Type locality: Funchal

Distribution: Chile

Erythrocheylus littoralis Berlese

Erythrocheylus littoralis Berlese, 1903: 27

Type locality: Italy

Distribution: Italy

Genus ***Lacteoscythis*** Pogrebnjak

Lacteoscythis Pogrebnjak, 1995: 11

Type species: *Lacteoscythis arenaria* Pogrebnjak, 1995

Lacteoscythis arenaria Pogrebnjak

Lacteoscythis arenaria Pogrebnyak, 1995: 11

Type locality: Black Sea Natural Reserve (south part of Ukraine)

Distribution: Ukraine

Genus ***Namadia*** Meyer et Ueckermann

Namadia Meyer & Ueckermann, 1987: 32

Type species: *Namadia floreata* Meyer et Ueckermann, 1987

Namadia floreata Meyer et Ueckermann

Namadia floreata Meyer & Ueckermann, 1987: 32

Type locality: Gamoep

Distribution: South Africa

Genus ***Paratarsotomus*** Kuznetsov

Paratarsotomus Kuznetsov, 1983: 91

Type species: *Paratarsotomus scutellatus* Kuznetsov, 1983

Paratarsotomus behningii (Thor)

Tarsotomus behningii Thor, 1912a: 471 (the species is named after A. Behning); Oudemans, 1936: 441

Paratarsotomus behningii (Thor): Otto, 1999c: 797

Type locality: “in einem Nebenteich des Salzsees Baskuntschak”, Russia

Distribution: Russia

Paratarsotomus callunae (Oudemans)

Tarsotomus callunae Oudemans, 1936: 438; Meyer & Ueckermann, 1987: 26

Paratarsotomus callunae (Oudemans): Otto, 1999c: 797

Type locality: Bergen-op-Zoom, Noord - Brabant

Distribution: Holland

Paratarsotomus macropalpis (Banks)

Tarsotomus macropalpis: Banks, 1916: 13

Paratarsotomus macropalpis (Banks): Otto, 1999c: 798; Abdelgayed et al., 2019: 31

Type locality: Claremont, California

Distribution: California (USA), Egypt

Paratarsotomus sabulosus (Berlese)

Erythraeus sabulosus Berlese, 1885: No 7; 1886: fa. 29; Schweizer, 1922: 81

Tarsotomus sabulosus (Berlese): Oudemans, 1936: 411

Erythracarus sabulosus (Berl.): Berlese, 1903: 26; Mihelčič, 1958b: 278

Erythracarus sabulosus var. *oelandicus* Trägårdh, 1915: 126. Oeland Insel. Syn. by Otto, 1999c: 800

Tarsotomus rackae: Meyer & Ueckermann, 1987: 26 -Type locality: Oberweiden, Austria. Syn. by Otto, 1999c: 800

Tarsotomus oelandicus (Trägårdh): Oudemans, 1936: 442. Syn. by Otto, 1999c: 800

Paratarsotomus sabulosus (Berlese): Otto, 1999c: 800; Ueckermann et al., 2006: 255

Type locality: Italy

Distribution: Austria, Germany, Italy, Spain, Sweden, Ukraine, Yemen

***Paratarsotomus scutellatus* Kuznetsov**

Paratarsotomus scutellatus Kuznetsov, 1983: 91; Otto, 1999c: 802; Lopez-Campos & Vazquez-Rojas, 2010: 157

Type locality: Uzbekistan

Distribution: Mexico, Uzbekistan

Genus ***Pedidromus* Otto**

Pedidromus Otto, 2000: 458

Type species: *Pedidromus peliculus* Otto, 2000

***Pedidromus agitatedus* Otto**

Pedidromus agitatedus Otto, 2000: 459

Type locality: N.S. Wales, 80 km East of Hay

Distribution: Australia (NSW, Northern Territory, Western Australia)

***Pedidromus curiosus* Otto**

Pedidromus curiosus Otto, 2000: 460

Type locality: 12 km SW of Calperum, South Australia

Distribution: Australia

***Pedidromus durongensis* Otto**

Pedidromus durongensis Otto, 2000: 461

Type locality: 8 km NW of Durong, Queensland

Distribution: Australia

***Pedidromus peliculus* Otto**

Pedidromus peliculus Otto, 2000: 462

Type locality: N.S. Wales, 43 km East of Balranald

Distribution: Australia (NSW, South Australia)

***Pedidromus pilotrix* Otto**

Pedidromus pilotrix Otto, 2000: 462

Type locality: 10 km SSW of Warren, NSW

Distribution: Australia

***Pedidromus velox* Otto**

Pedidromus velox Otto, 2000: 464

Type locality: Taplan, South Australia

Distribution: Australia (South Australia, Western Australia, Queensland, Victoria)

Genus ***Siblyia*** Oudemans

Siblyia Oudemans, 1936: 445

Type species: *Erythraeus ignipes* Dugès, 1834

***Siblyia ignipes* (Dugès)**

Erythraeus ignipes: Dugès, 1834: 43

Siblyia ignipes (Dugès): Oudemans, 1936: 445

Type locality: ? Montpellier, France

Distribution: France

Genus ***Tarsolarkus*** Thor

Tarsolarkus Thor, 1912a: 466

Tarsolarcus Thor, 1912a: 465

Neotarsolarcus Kuznetsov, 1983: 87. Syn. by Otto, 2000: 470. Type: *Neotarsolarcus clypeatus* Kuznetsov, 1983, Tadjikistan and Russia.

Type species: *Tarsolarkus articulatus* Thor, 1912

***Tarsolarkus articulatus* Thor**

Tarsolarkus articulatus: Thor, 1912a: 466; Irk, 1939: 154; Sellnick, 1949: 128; Willmann, 1951b: 147; Hull, 1918: 30; Irk, 1939: 154; Oudemans, 1936: 444; Sellnick, 1949: 128; Franz, 1954: 367; Schmölzer, 1956: 548; Mehl, 1979: 36; Otto, 2000: 470

Tarsolarcus articulatus: Willmann, 1951b: 147

Erythrarcus cluozzai Schweizer & Bader, 1963: 265. Type: Switzerland, Val Cluozza, 2100 m; syn. by Otto, 1999a: 896

Tarsolarkus oudemansi Barilo, 1984a: 1006 from Uzbekistan. Syn. by Otto, 2000: 470

Type locality: Norway (many places)

Distribution: Austria, France, Great Britain, Norway, Sweden, Switzerland, Uzbekistan

***Tarsolarkus clypeatus* (Kuznetsov)**

Neotarsolarcus clypeatus Kuznetsov, 1983: 88

Tarsolarkus clypeatus (Kuznetsov): Otto, 2000: 470

Type locality: Russia

Distribution: Russia, Tajikistan

***Tarsolarkus longisetus* Barilo**

Tarsolarkus longisetus Barilo, 1984a: 1004; Otto, 2000: 472

Type locality: 8 km East of Samarkand

Distribution: Uzbekistan

***Tarsolarkus* sp. – Yemen (Ueckermann et al., 2006)**

Genus ***Tarsotomus* Berlese**

Tarsotomus Berlese, 1882: 2

Type species: *Erythraeus hercules* Berlese, 1882

Anandia Hirst, 1927: 445 – syn. by Otto, 1999c: 751

Type species: *Anandia alticola* Hirst, 1927

Absoloniana Willmann, 1940: 215 – syn. by Otto, 1999c: 751

Type species: *Absoloniana diversipes* Willmann, 1940

Paranandia Meyer & Ueckermann, 1987: 34 – syn. by Otto, 1999c: 751

Type species: *Anandia bathurstensis* Meyer et Ryke, 1960

Parabsolonia Barilo, 1984: 1736 – syn. by Otto, 1999c: 751

Type species: *Parabsolonia ignicola* Barilo, 1984

***Tarsotomus abruptus* Otto**

Tarsotomus abruptus Otto, 1999c: 756

Type locality: 10 km SSW of Warren, NSW

Distribution: Australia (NSW, ACT, Victoria)

***Tarsotomus aiolos* Otto**

Tarsotomus aiolos Otto, 1999c: 758

Type locality: 64 km SE of Cooya Pooya Homestead, Western-Australia

Distribution: Australia (WA)

***Tarsotomus aleantis* Otto**

Tarsotomus aleantis Otto, 1999c: 759

Type locality: Millstream Chichester National Park; Western-Australia

Distribution: Australia (WA)

***Tarsotomus alticolus* (Hirst)**

Anandia alticola: Hirst, 1927: 445; Oudemans, 1936: 445; Meyer & Ryke, 1960: 180; Meyer & Ueckermann, 1987: 22

Tarsotomus alticolus (Hirst): Otto, 1999c: 785

Type locality: “Upper Rombok, Mount Everest, 4950 m”, Tibet

Distribution: Tibet (China)

***Tarsotomus ambitus* Otto**

Tarsotomus ambitus Otto, 1999c: 762

Type locality: Millstream Chichester National Park; Western-Australia

Distribution: Australia (WA)

***Tarsotomus amentatus* (Barilo)**

Absoloniana amentata: Barilo, 1984a: 1009; Meyer & Ueckermann, 1987: 24

Tarsotomus amentatus (Barilo): Otto, 1999c: 786; Ueckermann et al., 2006: 255

Type locality: Dzhabbayski Region, Samarkandskaya oblast (Uzbekistan)

Distribution: Uzbekistan, Yemen

***Tarsotomus anubis* Otto**

Tarsotomus anubis Otto, 1999c: 763

Type locality: 8 km W of Underbool, road to Murrayville; Victoria

Distribution: Australia (Victoria, Northern Territory, South Australia)

***Tarsotomus argillus* Otto**

Tarsotomus argillus Otto, 1999c: 767

Type locality: 3 km east of Swan Hill; Victoria

Distribution: Australia (Victoria, NSW, South Australia)

***Tarsotomus bathurstensis* (Meyer et Ryke)**

Anandia bathurstensis: Meyer & Ryke, 1960: 182

Paranandia bathurstensis (Meyer et Ryke): Meyer & Ueckermann, 1987: 35

Tarsotomus bathurstensis (Meyer et Ryke): Otto, 1999c: 751

Type locality: Albany District, Bathurst, Cape Province

Distribution: South Africa

***Tarsotomus bestiolus* (Barilo)**

Absoloniana bestiola Barilo, 1984b: 1734; Meyer & Ueckerman, 1987: 24

Tarsotomus bestiolus (Barilo): Otto, 1999c: 786

Type locality: Uzbekistan

Distribution: Uzbekistan

***Tarsotomus colossus* Otto**

Tarsotomus colossus Otto, 1999c: 769

Type locality: Mount Newman, Balfour Downs; Western-Australia

Distribution: Australia (WA, Western Australia)

***Tarsotomus comosus* Otto**

Tarsotomus comosus Otto, 1999c: 771

Type locality: 10 km SSW of Warren, NSW

Distribution: Australia (NSW)

***Tarsotomus desertorus* Otto**

Tarsotomus desertorus Otto, 1999c: 772

Type locality: 32 km south of Murrayville, road to Nhill; Victoria

Distribution: Australia (Victoria, NSW, Northern Territory, South Australia)

***Tarsotomus dianellus* Otto**

Tarsotomus dianellus Otto, 1999c: 775

Type locality: south of Walpeup, road to Patchewollock; Victoria

Distribution: Australia (Victoria, NSW, South Australia)

***Tarsotomus dioxis* Otto**

Tarsotomus dioxis Otto, 1999c: 777

Type locality: 80 km east of Hay (NSW)

Distribution: Australia (NSW)

***Tarsotomus erraticus* Banks**

Tarsotomus erraticus: Banks, 1912: 441; Oudemans, 1936: 441; Otto, 1999c: 787

Type locality: Springer, New Mexico

Distribution: USA (New Mexico)

***Tarsotomus heliophilus* Otto**

Tarsotomus heliophilus Otto, 1999c: 778

Type locality: 14 km north of Balranald, road to Ivanhoe; New-South-Wales

Distribution: Australia (NSW, Victoria, South Australia, Western Australia)

***Tarsotomus hercules* (Berlese)**

Erythraeus hercules: Berlese, 1882: fa. 2; 1888: 3

Tarsotomus hercules (Berlese): Trägårdh, 1905: 64; Oudemans, 1936: 441; Starkoff & Starkoff, 1950: 96; Cooreman, 1955: 123; Bottazzi, 1950: 30; Mihelčič, 1958a: 40; Ueckermann et al., 2006: 255

Absoloniana diversipes: Willmann, 1940: 215; 1941: 56; Barilo, 1984a: 1007; Meyer & Ueckermann, 1987: 24 -Type locality: Cave Čančarica, Bjelashnica planina, South Bosna. Syn. by Otto, 1999c: 787

Type locality of *Erythraeus hercules*: Sicily, Acireale

Distribution: Bosnia, Egypt, France, Iran, Italy, Salamin Is. (Greece), Sicily, Spain, Sudan, Switzerland, Ukraine, Uzbekistan, Yemen

***Tarsotomus ignicola* (Barilo)**

Parabsolonina ignicola Barilo, 1984: 1738

Tarsotomus ignicolus (Barilo): Otto, 1999c: 789

Type locality: Uzbekistan

Distribution: Ukraine, Uzbekistan

***Tarsotomus nivalis* (Schweizer)**

Erythraeus hercules var. *nivalis* Schweizer, 1922: 80

Tarsotomus nivalis: Oudemans, 1936: 441; Bottazzi, 1951: 222

Type locality: Alps (2760 - 3000 m)

Distribution: Italy, Switzerland (Cima del Pezzacul, 2300 m)

***Tarsotomus pentagoneus* (Meyer et Ueckermann)**

Absoloniana pentagonea: Meyer & Ueckermann, 1987: 24

Tarsotomus pentagoneus Otto, 1999c: 789

Type locality: Malelane and Pongola, Transvaal, South Africa

Distribution: South Africa

***Tarsotomus primitivus* Otto**

Tarsotomus primitivus Otto, 1999c: 790

Type locality: 32 km south of Murrayville, road to Nhill; Victoria

Distribution: Australia (Victoria)

***Tarsotomus pusillus* Otto**

Tarsotomus pusillus Otto, 1999c: 779

Type locality: 64 km SE of Cooya Pooya Homestead, Western-Australia

Distribution: Australia (WA)

***Tarsotomus pygmaeus* Otto**

Tarsotomus pygmaeus Otto, 1999c: 781

Type locality: Kurunjini (Hamersley Range) National Park; Western Australia

Distribution: Australia (WA)

***Tarsotomus solatus* Otto**

Tarsotomus solatus Otto, 1999c: 781

Type locality: Uluru National Park, Mount Olga, Northern Territory

Distribution: Australia (NT)

***Tarsotomus undulatus* (Mahunka et Mahunka-Papp)**

Diversipes undulatus Mahunka & Mahunka-Papp, 1993: 326

Tarsotomus undulatus (Mahunka et Mahunka-Papp):

Type locality: Madagascar

Distribution: Madagascar

Tarsotomus velopes* OttoTarsotomus velopes* Otto, 1999d: 783

Type locality: north of Roebourne; Western-Australia

Distribution: Australia (WA)

***Tarsotomus* sp.** – Mexico (López-Campos & Vázquez-Rojas, 2010)

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EUROPE

- Austria** (Irk, 1939; Willmann, 1951a, 1951b; Hutterer & Rack, 1976; Meyer & Ueckermann, 1987; Otto, 1999b) – *Anystis baccharum*, *Chaussieria berlesei*, *Ch. domestica* (= *venustissima*), *Tarsolarkus articulatus*, *Paratarsotomus sabulosus* (= *Tarsotomus rackae*), *Tencateia toxopei*
- Belgium** (Cooreman, 1943) – *Anystis baccharum*
- Bosna and Herzegovina** (Willmann, 1940, 1941) – *Tarsotomus hercules* (= *Absoloniana diversipes*)
- Bulgaria** (Beron, in prep.)
- Czech Rep.** (Willmann, 1954) – *Anystis baccharum*, *Tencateia besselingi*
- Denmark** (Hallas, 1978) -
- Feroes Is.** (Trägårdh, 1931) – *Anystis baccharum*
- France** (contin.)(Hermann, 1804; Dugès, 1834; Gervais, 1844; Oudemans, 1936; Schmölzer, 1956; Otto, 1992, 1999b) – *Anystis andrei*, *A. cornigerum*, *A. cornutum*, *A. cursorium*, *A. salicinus*, *A. wallacei*, *Erythracarus parietinus*, *Scharfenbergia hilaris*, *Siblyia ignipes*, *Tarsolarkus articulatus*, *Tarsotomus hercules*
- Germany** (C.L. Koch, 1836, 1842, 1847; Haller, 1882; Oudemans, 1936; Ueckermann, 1987; Otto, 1999b) - *Anystis baccharum*, *A. salicinus*, *A. voigtsi*, *Chaussieria domestica* (= *venustissima*), *Erythracarus epigeus*, *E. parietinus* (= *Bechsteinia solarii*), *Paratarsotomus sabulosus*, *Scharfenbergia hilaris*
- Great Britain** (Thor, 1912a; Hull, 1918; Evans & Browning, 1953; Otto, 1999b; Cuthbertson, Bell & Murchie, 2003; Cuthbertson & Murchie, 2004a, b, 2007, 2010) – *Anystis baccharum*, *A. salicinus*, *A. cornigerum*, *A. cursorium*, *Chaussieria domestica* (= *maritima*), *Erythracarus parietinus*, *Tarsolarkus articulatus*
- Greece** (Sellnick, 1931) - *Anystis baccharum*
- Crete** (Hutterer, 1978) - *Chaussieria domestica* (= *venustissima*)

- Salamine** (Cooreman, 1955) – *Tarsotomus hercules*
- Holland** (Oudemans, 1906, 1936) – *Anystis salicinus*, *Chaussieria domestica*, *Erythracar*
parietinus, *Tencateia bessel*ing, *Paratarsotomus callunae*
- Hungary** (Dudich et al., 1940; Ripka et al., 2002) – *Anystis bac*carum
- Iceland** (Sellnick, 1940) – *Anystis bac*carum
- Ireland** (Halbert, 1915) – *Anystis vitis*
- Italy** (contin.) (Berlese, 1886; Oudemans, 1936; Starkoff & Starkoff, 1950; Bottazzi, 1950,
1951; Castagnoli & Nannelli, 1995; Otto, 1999b) – *Anystis agilis*, *A. bac*carum, *A.*
conigerum, *A. palle*scens, *A. vitis*, *Erythracar*us *parietinus* [= *comes*], *E. pyrrholeucus*
(= *E. [Bechsteinia] schneideri*), *Chaussieria domestica*, *Tarsotomus hercules*, *T. nivalis*
- Sicily** (Berlese, 1882; Bottazzi, 1950; Otto, 1999b) – *Chaussieria domestica*, *Erythracar*us
pyrrholeucus, *Tarsotomus hercules*
- Latvia** (Kuznetsov & Petrov, 1984; Petrova, Salmane & Čudare, 2004) – *Anystis bac*carum
- Norway** (Thor, 1912a, 1912b, 1912c) – *Anystis bac*carum, *Erythracar*us *parietinus* (= *comes*), *Tarsolarkus articulosus*
- Portugal (cont.)**(Halliday, 2005) – *Anystis wallacei*
- Madeira** (Willmann, 1939) – *Anystis bac*carum
- Romania** (Călugăr & Ivan, 2016) – *Anystidae*
- Russia** (all, continent.)(Thor, 1912; Oudemans, 1936; Lange, Drozdovskij & Bushkovs-
kaya. 1974a, b; Kuznetsov, 1983; Meyer & Ueckermann, 1987) – *Anystis bor*rusica,
A. germanica, *A. sellnicki* (from Kaliningrad District), *Chaussieria domestica* (= *venustissima*), *Paratarsotomus behningii*, *Tarsolarkus clypeatus*
- Crimea** (Otto, 1999a) – *Erythracar*us *pyrrholeucus*
- Sachalin** (Zacharda, 1985; Otto, 2000) – *Erythracar*us [*Palaeoerythracar*us] *sachalinensis*
- Serbia** (Mladenović et al., 2013) – *Anystis* sp.
- Spain** (cont.) (Mihelčič, 1958a, 1958b; Otto, 1992) – *Anystis bac*carum, *A. wallacei*,
Chaussieria domestica (= *venustissima*), *Erythracar*us *parietinus*, *E. pyrrholeucus* (= *ruricola*), *Tarsotomus hercules*
- Sweden** (Linnaeus, 1758; Trägårdh, 1915; Sellnick, 1949) – *Anystis bac*carum, *A. salicinus*,
Paratarsotomus sabulosus [Öland, as “var. oelandicus Träg.”], *Tarsolarkus articulosus*
- Switzerland** (Schweizer, 1922; Schweizer & Bader, 1963) – *Anystis bac*carum, *Chaussieria*
domestica (= *venustissima*), *Erythracar*us *parietinus*, *E. pyrrholeucus* (= *ruricola*),
Tarsolarkus articulosus (= *Erythracar*us *cluo*zzai Schweizer et Bader), *Tarsotomus*
hercules (= *T. nivalis*)
- Turkey** (Ülgentürk, Szentkirályi et al. 2013) – *Anystis bac*carum
- Ukraine** (Pogrebnyak, 1995; Otto, 1999a, 1999b) – *Erythracar*us *parietinus*, *E. pyrrholeu*-
cus, *Lacteoscythis arenaria*, *Paratarsotomus sabulosus*, *Tarsotomus hercules*, *T. ignicolus*

AFRICA

- Algeria** (Lucas, 1946; Berlese, 1886; André, 1927; Oudemans, 1936) – *Anystis bac*carum,
Scharfenbergia gauthieri, *Erythracar*us *parietinus* [*Tarsotomus comes*], *E. tricolor*
- Angola** – *Erythracar*us [*Bechsteinia*] *grahami*

Egypt (Trägårdh, 1905; Reda, 1991; Reda & Gomma, 1991; Abdelgayed, Abd El-Wahed, Ali & Eraky, 2019) – *Anystis baccharum*, *Paratarsotomus macropalpis*, *Erythracarus nobarii*, *Tarsotomus hercules*, *Erythracarus nobarii*, *Neoaegyptocus chelicifurcata*

Malawi (Meyer & Ueckermann, 1987) – *Chaussieria domestica* (= *venustissima*)

Morocco (Otto, 1992) – *Anystis wallacei*

Reunion (Quilici, Kreiter, Ueckermann & Vincenot, 1997) – 2 sp.

Sainte-Helene (Naudo, 1977; Meyer & Ueckermann, 1987; Otto, 1999b: 182) – *Anystis baccharum*, *A. berlesei*, *A. kochi*, *Chaussieria dissimilis*, *Ch. sanctaehelenae* (= *brevis*, = *benoitii*)

South Africa (Oudemans, 1936; Meyer, 1973; Meyer & Ueckermann, 1987; Ueckermann, 1987; Ueckermann & Meyer Smith, 1988; Otto, 1999a, 1999b; Halliday, 2005) – *Anystis baccharum*, *A. wallacei* (introduced), *Erythracarus* [*Bechsteinia*] *grahami*, *Erythracarus festinus* (= *Bechsteinia festina*), *Chaussieria domestica* (= *venustissima*), *Ch. capensis*, *Namadia floreata*, *Tarsotomus bathurstensis*, *Tarsotomus* [*Absoloniana*] *pentagonea*, *Tencateia villosa*, *Walzia hammeri*

Sudan (Trägårdh, 1905) – *Tarsotomus hercules*

Tanzania (Evans, 1953) – *Anystis baccharum*

Tunisia (Kreiter et al., 2002) – *Anystis baccharum*

ASIA

China (Berlese, 1923; Hirst, 1927; Su et al., 2006; Zeng et al., 2007; Zhang & Hong, 2010) – *Anystis baccharum*, *A. salicinus*, *A. wallacei*, *Tarsotomus* [*Anandia*] *alticola* (Tibet), *Barellea sinensis*, *Walzia australica*

Cyprus (Cooreman, 1946) – *Erythracarus* [*Bechsteinia*] *pyrrholeucus* (= *schneideri*)

India (Meyer & Ueckermann, 1987; Gupta, 1991, 1992, 2002) – *Anystis baccharum*, *A. indica*, *A. nagalandensis*, *Tencateia kanthiensis*, *Walzia derjeelingensis*, *W. indiana*

Indonesia (Berlese, 1905; Oudemans, 1936; Holm & Wallace, 1989;) – *Anystis* [*Actineda*] *jabanica* (Jawa), *Snartia nepenthus* (Sumatra)

Iran (Otto, 1999a, 1999b) – *Erythracarus pyrrholeucus*, *Chaussieria domestica*, *Tarsotomus hercules*

Israel and Palestina – *Anystis baccharum*

Japan (Shiba, 1969, 1976, 2006) – *Anystis baccharum*, *A. salicinus*, *Tencateia toxopei*, *Chaussieria domestica*, *Erythracarus* [*Bechsteinia*] sp.

Okinawa (Kishida, 1959) – *Erythracarus simku* (*nomen nudum*)

Korea (Lee Kim & Kim, 1995) – *Anystis baccharum*

Malaysia (Berlese, 1905; Vitzthum, 1926) – *Anystis baccharum*, *Autenriethia velox*

Syria (Barbar, 2018) – *Anystis wallacei*, *Erythracarus pyrrholeucus*

Tajikistan (Kuznetsov, 1983) – *Tarsolarkus clypeatus*

Uzbekistan (Barilo, 1984a, 1984b; Otto, 1999b) – *Paratarsotomus scutellatus*, *Chaussieria domestica*, *Tarsotomus* [*Absoloniana*] *amentata*, *T. [A.] bestiola*, *T. hercules* (= *Absoloniana diversipes*), *T. [Parabsoloniana] ignicola*, *Tarsolarkus longisetus*

Yemen (Ueckermann et al., 2006) – *Anystis baccharum*, *Erythracarus* sp. near *nasutus*, *E.* sp. near *parietinus*, *Paratarsotomus sabulosus* *Tarsolarkus* sp., *Tarsotomus amentatus*, *T. hercules*

NORTH AMERICA

Canada (Hardman et al., 1885) - *Anystis baccharum*

Mexico (Vitzthum, 1933; López- Campos & Vázquez-Rojas, 2010) – *Anystis baccharum*, *Chaussieria capensis*, *Erythracarus nasutus*, *Paratarsotomus sculellatus*, *Tarsotomus* sp., new genera 1 and 2

USA (Banks, 1894, 1895, 1907, 1912, 1916; Ewing, 1909; Miller, 1925; McGregor, 1956; Sorensen, Kinn, Doult & Cate, 1976; Otto, 1999a) – *Anystis agilis*, *A. baccharum*, *Erythracarus barbarus*, *E. parietinus*, *Erythracarus pyrrholeucus* [= *Tarsotomus* [*Bechsteinia*] *terminalis*, = *Bechsteinia californica*], *Tarsotomus erraticus*, *Paratarsotomus macropalpis*

SOUTH and CENTRAL AMERICA

Bermuda Isls (Banks, 1903) – *Anystis agilis*

Brazil (de Oliveira Bernardi et al., 2010) – *Erythracarus nasutus*

Chile (contin.)(Leonardi, in Berlese & Leonardi, 1901) - *Anystidae*

Juan Fernandez Is. (Trägårdh, 1931) – *Anystis baccharum*

Costa Rica (Banks, 1916) - *Anystidae*

Guatemala (Stoll, 1886, 1887) – *Anystis citreola*, *Walzia antiguensis*

Venezuela (Oudemans, 1936) – *Walzia antiguensis*

OCEANIA

Australia (continent)(Hirst, 1931; Womersley, 1933, 1942; Holm & Wallace, 1989; Otto & Halliday, 1991; Otto, 1992, 1999b,c; Halliday, 1998) – *Anystis baccharum*, *A. jabanica*, *A. wallacei* [intr.], *Chaussieria pilicola*, *Ch. puleni*, *Ch. pumila*, *Ch. warregense*, *Erythracarus amnicolus*, *E. ciliatus*, *E. decoris*, *E. elegans*, *E. flavipes*, *E. katherinae*, *E. pyrrholeucus*, *Pedidromus agitatedus*, *P. curiosus*, *P. durongensis*, *P. peliculus*, *P. pilotrix*, *P. velox*, *Tarsotomus anubis*, *T. argillus*, *T. colossus*, *T. comosus*, *T. desertorus*, *T. dianellus*, *T. dioxis*, *T. heliophilus*, *T. primitivus*, *T. pusillus*, *T. solatus*, *Walzia australica*

Tasmania (Otto, 1999a,b) – *Erythracarus avium*, *Chaussieria warregense*

Papua New Guinea (Canestrini, 1898) – “*Actineda vitis*”

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The Mite Family Teneriffiidae Thor

Teneriffiidae Thor, 1911: 179

Recorded first by Thor (1911) from Canary Is. and Paraguay, this small family contains now 26 species of predaceous free-living mites, living from the dunes of Namibia and Somalia and the intertidal zone of Japan to the high altitude in Alps (3207 m) and Himalaya (5050 m). Their generic taxonomy remains subject of discussions, especially after the revision of McDaniel, Morihara & Lewis (1976), in which only the two “initial” genera were recognized for the family Teneriffiidae: *Teneriffia* Thor, 1911 and *Parateneriffia* Thor, 1911. All genera, established between 1911 and 1976 by various authors: *Neoteneriffiola* Hirst, 1924, *Heteroteneriffia* Hirst, 1925, *Austroteneriffia* Womersley, 1935, *Mesoteneriffia* Irk, 1939, as well as the name *Teneriffiola* Strand, 1911 and the family name Teneriffiolidae, based on it, are considered by the McDaniel et al. (1976) as synonyms. *Mesoteneriffiola* Schmölzer, 1956 and “*Neoteneriffiola*” *tadjikistanica* Wainstein, 1969 were not considered. Other acarologists added to the taxonomy (and sometimes to the confusion) of Teneriffi-

dae: Vitzthum (1942), Irk (1939a, b), Radford (1950), Schmölzer (1952, 1956), Tibbetts (1958), Besch (1962), Eller & Strandtmann (1963), Ehara (1965), Wainstein (1969), Shiba & Furukawa (1975), and others.

New genera and species described after 1976 by Schmölzer (2002 – *Himalteneriffia* from Ladakh), Luxton (1993), Yin, Bei & Li (1995 – *Sinoteneriffia* from China), Luo et al. (1996 – *Sinoteneriffia* from China), Luo, Yin et al. (2007, *Neoteneriffiola* from China), Bernardi et al. (2012, Brazil), Ueckermann & Khanjani (2002), Khanjani, Asali Fayaz & Ueckermann (2011), Khanjani, Yazdanpanah & Asali Fayaz (2013), Khanjani, Hoseini & Asali Fayaz (2014), Ueckermann & Durucan (2020, *Teneriffia* from Turkey), Zmudzinski, Skoracki & Friedrich (2021, *Teneriffia* from Ethiopia).

Judson (1994, 1995) not only described new and redescribed the older species of Teneriffiidae, but questioned the lumping of several genera by McDaniel et al. (1976) into two original units. Based on very detailed morphological studies, he reviewed and removed from synonymy the genera *Neoteneriffiola* and *Austroteneriffia* and described new species from Namibia and Australia.

In our collection in Sofia we have many specimens of Teneriffiidae from Greece, Afghanistan, Chinese Karakorum, Somalia, Nigeria, Tanzania, Zambia, Peru, and Mexico, which represent new species and are being described.

Composition of Teneriffiidae

Fam. Teneriffiidae – 28 sp.

Austroteneriffia Womersley, 1935 - 10

Heteroteneriffia Hirst, 1925 - 2

Mesoteneriffia Irk, 1939 - 1

Mesoteneriffiola Schmölzer, 1956 - 1

Himalteneriffia Schmölzer, 2002 - 1

Neoteneriffiola Hirst, 1924 - 5

Parateneriffia Thor, 1911 - 1

Sinoteneriffia Yin, Bei et Li, 1995 – 2

Teneriffia Thor, 1911 - 5

Catalogue of Teneriffiidae

Family Teneriffiidae Thor

Teneriffiidae Thor, 1911: 179

Teneriffiolidae Hirst, 1924: 1078

Teneriffiinae Womersley, 1935: 334

Type genus: *Teneriffia* Thor, 1911

Genus ***Austroteneriffia*** Womersley

Austroteneriffia Womersley, 1935: 334

Type species: *Austroteneriffia hirsti* Womersley, 1935

Austroteneriffia hirsti Womersley

Austroteneriffia hirsti: Womersley, 1935: 335; Vitzthum, 1942: 808; Radford, 1950: 76;
Judson, 1995: 830

Parateneriffia hirsti: McDaniel, Morihara & Lewis, 1976: 532

Type locality: Menindie (S. Australia)

Distribution: Australia

Austroteneriffia hojoensis (Shiba et Furukawa)

Neoteneriffiola hojoensis: Shiba & Furukawa, 1975: 118

Austroteneriffia hojoensis: Judson, 1995: 833

Type locality: Kashima, Hojo, Ehime Pref., near the sea shore, Japan

Distribution: Japan

Austroteneriffia japonica (Ehara)

Neoteneriffiola japonica: Ehara, 1965: 226; Shiba & Furukawa, 1975: 111

Austroteneriffia japonica (Ehara): Judson, 1995: 833

Type locality: Sapporo, Japan

Distribution: Japan

Austroteneriffia kamalii Ueckermann et Khanjani

Austroteneriffia kamalii Ueckermann & Khanjani, 2002: 168

Type locality: Famenin, Hamadan prov., litter of *Medicago sativa*

Distribution: Iran

Austroteneriffia khorramabadiensis Khanjani, Hoseini et Asali Fayaz

Austroteneriffia khorramabadiensis Khanjani, Hoseini & Asali Fayaz, 2014: 70

Type locality: Kaka Reza region, Khorramabad vic., Lorestan Province

Distribution: Iran

Austroteneriffia leei Judson

Austroteneriffia leei: Judson, 1995: 835

Type locality: Coomandook, S. Australia

Distribution: South Australia (Australia)

Austroteneriffia littorina Shiba et Furukawa*Austroteneriffia littorina*: Shiba & Furukawa, 1975: 123; Judson, 1995: 837

Type locality: Wake, Matsuyama, Ehime Pref., Japan

Distribution: Japan

Austroteneriffia shiraziensis Khanjani, Yazdanpanah et Asali Fayaz*Austroteneriffia shiraziensis* Khanjani, Yazdanpanah & Asali Fayaz, 2013: 36

Type locality: Koohmare Sorkhi region, Fars province

Distribution: Iran

Austroteneriffia tadjikistanica (Wainstein)*Neoteneriffiola tadjikistanica* Wainstein, 1969: 1250; 1978: 202*Austroteneriffia tadjikistanica* (Wainstein): Judson, 1995: 838; Ueckermann, van Harten & Smith Meyer, 2006: 256

Type locality: Tadjikistan

Distribution: Tadjikistan, Yemen (incl. Socotra Island)

Austroteneriffia zamaniani Khanjani, Asali Fayaz et Ueckermann*Austroteneriffia zamaniani* Khanjani, Asali Fayaz & Ueckermann, 2011: 551

Type locality: Sorkh Abad Village, Hamedan vic., Hamedan Prov.

Distribution: Iran

“*Austroteneriffia*” *andrei* Besch (species inquirenda)*Austroteneriffia Andréi*: Besch, 1962: 236“*Austroteneriffia*” *andrei* Besch: Judson, 1995: 827 (another genus!)

Type locality: “Arroyo Lopez, Gletscherbach bei Bariloche”, Prov. Rio Negro, Distribution: Argentina

Genus ***Heteroteneriffia*** Hirst*Heteroteneriffia* Hirst, 1925: 1278; synonymized by McDaniel et al., 1976: 529, but restaured by Ueckermann & Durucan, 2020Type species: *Heteroteneriffia marina* Hirst, 1925***Heteroteneriffia marina*** Hirst*Heteroteneriffia marina*: Hirst, 1925: 1278*Heteroteneriffiolla marina*: Shiba, 1976: 134*Teneriffia marina* (Hirst): McDaniel et al., 1976: 529

Type locality: Teluk Kemang, near Port Dickson, Negri Sembilan, Malaysia

Distribution: Japan, Malaysia

Heteroteneriffia mortoni Luxton

Heteroteneriffia mortoni Luxton, 1993: 104

Teneriffia mortoni (Luxton): Judson, 1994: 115

Type locality: Hong Kong marine littoral

Distribution: China (Hong Kong)

Genus ***Himalteneriffia*** Schmölzer

Himalteneriffia Schmölzer, 2002: 133

Type species: *Himalteneriffia riccabonai* Schmölzer, 2002

Himalteneriffia riccabonai Schmölzer

Himalteneriffia riccabonai Schmölzer, 2002: 133

Type locality: “Basislager am Markha – Fluss ca. 50 km nördlich von Leh, ca. 77° öL., 34° nBr., nur wenige km vom Kongmaru-La entfernt; ca. 5050 m Höhe”

Distribution: India (Ladakh)

Genus ***Mesoteneriffia*** Irk

Mesoteneriffia Irk, 1939: 220

Type species: *Mesoteneriffia steinbocki* Irk, 1939

Mesoteneriffia steinbocki Irk

Mesoteneriffia steinbocki: Irk, 1939: 222; Strandtmann, 1965: 261

Mesoteneriffia steinboeckii: Schmölzer, 1952: 22; 2002: 124; Schweizer & Bader, 1963: 263

Type locality: “Ötztaler und Stubai Alpen”, 2719 - 3050 m, Austria

Distribution: Austria, Switzerland

Genus ***Mesoteneriffiola*** Schmölzer

Mesoteneriffiola Schmölzer, 1956: 549

Type species: *Mesoteneriffiola alpina* Schmölzer, 1956

Mesoteneriffiola alpina Schmölzer

Mesoteneriffiola alpina Schmölzer, 1956: 549; 2002: 124

Type locality: “Unterhalb d. Roche d’Alvau, 2900 m”, Dauphiné

Distribution: France

Genus ***Neoteneriffiola*** Hirst

Neoteneriffiola Hirst, 1924: 1078

Parateneriffia Thor: McDaniel et al., 1976: 532 (in part)

Type species: *Neoteneriffiola luxoriensis* Hirst, 1924

Neoteneriffiola coineau Judson

Neoteneriffiola coineau: Judson, 1994: 117

Type locality: Hamilton Range, Namibia

Distribution: Namibia

Neoteneriffiola luxoriensis Hirst

Neoteneriffiola luxoriensis: Hirst, 1924: 1078; Judson, 1994: 115

Parateneriffia luxoriensis:

Type locality: Assuan and Luxor, Egypt

Distribution: Egypt

Neoteneriffiola uta Tibbetts

Neoteneriffiola uta: Tibbetts, 1958: 44; López-Campos & Vázquez-Rojas, 2010: 157

Parateneriffia uta (Tibbetts): McDaniel et al., 1976: 532

Type locality: Utah

Distribution: Mexico, U.S.A. (Utah)

Neoteneriffiola xerophila De Oliveira Bernardi, Pellegrini et Ferreira

Neoteneriffiola xerophila De Oliveira Bernardi, Pellegrini & Ferreira, 2012: 411

Type locality: Brazil

Distribution: Brazil

Neoteneriffiola yunnanensis Luo Youzhen, Yin Suigong, Chen Bin et Zhang Yidong

Neoteneriffiola yunnanensis Luo Youzhen, Yin Suigong, Chen Bin & Zhang Yidong, 1997: 87

Type locality: Yunnan

Distribution: China (Yunnan)

Neoteneriffiola sp.

Distribution: South Africa (Meyer et al., 1973)

Genus ***Parateneriffia*** Thor

Parateneriffia Thor, 1911: 176

Type species: *Parateneriffia bipectinata* Thor, 1911

Parateneriffia bipectinata Thor

Parateneriffia bipectinata Thor, 1911: 177

Type locality: Paraguay

Distribution: Paraguay

Genus ***Sinoteneriffia*** Yin, Bei et Li

Sinoteneriffia Yin, Bei & Li, 1995: 433

Type species: *Sinoteneriffia nuda* Yin, Bei et Li, 1995

Sinoteneriffia kunmingensis Luo, Yin, Zhang et Bin

Sinoteneriffia kunmingensis Luo, Yin, Zhang & Bin, 1997: 243

Type locality: Kunming

Distribution: China

Sinoteneriffia nuda Yin, Bei et Li

Sinoteneriffia nuda Yin, Bei & Li, 1995: 434 (Engl. 437)

Type locality: Liaoning Prov., from *Sabina chinensis*

Distribution: China

Genus ***Teneriffia*** Thor

Teneriffia Thor, 1911: 172

Teneriffiola Strand, 1911: 287

Type species: *T. quadripapillata* Thor, 1911

Teneriffia aethiopica Zmudzinski, Skoracki et Friedrich

Teneriffia aethiopica Zmudzinski, Skoracki & Friedrich, 2021: 318

Type locality:

Distribution: Ethiopia

Teneriffia mexicana McDaniel, Morihara et Lewis

Teneriffia mexicana: McDaniel et al., 1976: 529

Type locality: Sonora, Mexico

Distribution: Mexico

Teneriffia quadripapillata Thor

Teneriffia quadripapillata Thor, 1911: 173; Schmölzer, 2002: 131

Teneriffiola quadripapillata (Thor): Hirst, 1924: 1080

Type locality: Orotava, Teneriffa

Distribution: Teneriffa (Canary Is., Spain)

Teneriffia sebahatae Ueckermann et Durucan

Teneriffia sebahatae Ueckermann & Durucan, 2020: 1141

Type locality: sea shore nr. Antalya (Kundu)

Distribution: Turkey

Teneriffia hajiqaanbari Paktinat-Saeij et Kazemi

Teneriffia hajiqaanbari Paktinat-Saeij & Kazemi, 2022: 263

Type locality: Queshm Island, southern Hormozgan Province

Distribution: Iran

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

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EUROPE

- Austria** (Irk, 1939; Schmölzer, 1952) - *Mesoteneriffia steinbocki*
France (Schmölzer, 1956) - *Mesoteneriffiola alpina*
Greece (Beron, in prep.) - *Teneriffiidae*
Switzerland (Schweizer & Bader, 1963) - *Mesoteneriffia steinbocki*
Turkey (Ueckermann & Durucan, 2020) - *Teneriffia sebahatae*

AFRICA

Canary Is. (Thor, 1911) - *Teneriffia quadripapillata*

Egypt (Hirst, 1924) - *Neoteneriffiola luxoriensis*

Ethiopia (Zmudzinsk, Skoracki & Friedrich, 2021) – *Teneriffia aethiopica*

Namibia (Judson, 1994) - *Neoteneriffiola coineau*

Nigeria (Beron, in prep.) - Teneriffiidae

Somalia (Beron, in prep.) - Teneriffiidae

South Africa (Meyer et al., 1973) - *Neoteneriffiola* sp.

Tanzania (Beron, in prep.) - Teneriffiidae

Zambia (Beron, in prep.) - Teneriffiidae

ASIA

Afghanistan (Beron, in prep.) - Teneriffiidae

China (Yin Suigong, Bei Naxir, Li Xuejin, 1995; Luo Youzhen, Yin Suigong, Zhang Yidong, Chen Bin, 1996; Luo Youzhen, Yin Suigong, Chen Bin, Zhang Yidong, 1997; Beron, in prep.) – *Neoteneriffiola yunnanica*, *Sinoteneriffia kunmingensis*, *S. nuda*

India (Schmölzer, 2002; Paktinat-Saeij & Kazemi, 2022 Zmudzinski et al., 2021) – *Himalteneriffia riccabonai*

Iran (Ueckermann & Khanjani, 2002; Khanjani, Asali Fayaz & Ueckermann, 2011; Khanjani, Yazdanpanah & Asali Fayaz, 2013; Khanjani, Hoseini & Asali Fayaz, 2014) – *Austroteneriffia kamalii*, *A. khorramabadiensis*, *A. shiraziensis*, *A. zamaniensis*

Japan (Ehara, 1965; Shiba, 1976; Shiba & Furukawa, 1975; Judson, 1995) – *Austroteneriffia hojoensis*, *A. japonica*, *A. littorina*, *Teneriffia marina*

Malaysia (Hirst, 1925) - *Teneriffia marina*

Tadjikistan (Wainstein, 1969) - *Austroteneriffia tadjikistanica*

Yemen (incl. Socotra) (Ueckermann, van Harten & Smith Meyer, 2006) – *Austroteneriffia tadjikistanica*, *Parateneriffia* sp.

NORTH and CENTRAL AMERICA

Mexico (McDaniel, Morihara et Lewis, 1976; López-Campos & Vázquez-Rojas, 2010; Beron, in prep.) - *Neoteneriffiola uta*, *Teneriffia mexicana*

USA (Tibbetts, 1958) - *Neoteneriffiola uta*

SOUTH AMERICA

Argentina (Besch, 1962) - “*Austroteneriffia*” *andrei*

Brazil (Bernardi et al., 2012) – *Neoteneriffiola*

Paraguay (Thor, 1911) - *Parateneriffia bipectinata*

Peru (Beron, in prep.) - Teneriffiidae

OCEANIA

Australia (Womersley, 1935; Judson, 1995) - *Austroteneriffia hirsti*, *A. leei*

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The Mite Family Pseudocheylidae Oudemans

Pseudocheylidae Oudemans, 1909

Small free - living mites, found under bark, in moss, soil or in bird's nest. Three genera with 24 known species. Widely distributed, but rarely found.

Catalogue of the Family Pseudocheylidae

Family **Pseudocheylidae** Oudemans

Pseudocheylidae Oudemans, 1909:

Type genus: *Pseudocheylus* Berlese, 1888

Genus *Anoplocheylus* Berlese*Anoplocheylus* Berlese, 1910: 210 (subgenus)*Anoplocheylus* (Berlese): Baker & Atyeo, 1964: 262 (genus)Type species: *Pseudocheylus* (*Anoplocheylus*) *europaeus* Berlese, 1910*Rhagina* Womersley, 1935: 336 (Syn. by Baker & Wharton, 1952)Type species: *Rhagina protea* Womersley, 1935***Anoplocheylus aegypticus* Baker et Atyeo***Anoplocheylus aegypticus* Baker & Atyeo, 1964: 267; Gerson, 1967: 367; van Dis & Ueckermann, 1991: 113

Type locality: Ismaelia - Port Said Road, 50 kilometers

Distributon: Egypt

Anoplocheylus bonabjadiensis* Navaei-Bonab, Bagheri, Ueckermann et ZareiAnoplocheylus bonabjadiensis* Navaei-Bonab et al., 2011: 421; Navaei-Bonab & Kazazi, 2013: 28

Type locality: Bonabjadid, Marand, East Azerbaijan Province, Iran

Distributon: Iran

Anoplocheylus brasiliensis* Khaustov et TolstikovAnoplocheylus brasiliensis* Khaustov & Tolstikov, 2015: 60

Type locality: Rio de Janeiro, Leme, Atlantic rain forest

Distribution: Brazil

Anoplocheylus brevisetosus* Ueckermann et KhanjaniAnoplocheylus brevisetosus* Ueckermann & Khanjani, 2004: 59

Type locality: Rustenburg, North West Province

Distributon: South Africa

Anoplocheylus clavatus* Baker et AtyeoAnoplocheylus clavatus* Baker & Atyeo, 1964: 265; van Dis & Ueckermann, 1991: 106

Type locality: Gnangara (16 miles north of Perth), Western Australia

Distributon: Australia

Anoplocheylus corticicola* Fungarworn et ButcherAnoplocheylus corticicola* Fungarworn & Butcher, 2015: 2

Type locality: Bangkok, Pathumwan Dist., Chulalongkorn Univ. Campus

Distribution: Thailand

Anoplocheylus europaeus* (Berlese)Pseudocheylus* (*Anoplocheylus*) *europaeus* Berlese, 1910: 210

Anoplocheylus europaeus (Berlese): Baker & Atyeo, 1964: 263; van Dis & Ueckermann, 1991: 106; Livshitz & Mitrofanov, 1973: 771; Ueckermann & Khanjani, 2004: 55

Type locality: Palermo

Distributon: Italy (Sicily)

***Anoplocheylus hapsiscutus* Flechtmann**

Anoplocheylus hapsiscutus Flechtmann, 1971: 49

Type locality: Piracicaba, São Paulo

Distributon: Brazil

***Anoplocheylus kazemii* Bagheri**

Anoplocheylus kazemii Bagheri, in Bagheri et al., 2013: 292

Type locality: Iran

Distributon: Iran

***Anoplocheylus malayeriensis* Ueckermann et Khanjani**

Anoplocheylus malayeriensis Ueckermann & Khanjani, 2004: 55; Navaei-Bonab & Kazazi, 2013: 28

Type locality: Mey, 23 km from Malāyer to Arāk

Distributon: Iran

***Anoplocheylus marivaniensis* Khanjani, Hoseini et Amini**

Anoplocheylus marivaniensis Khanjani, Hoseini & Amini, 2014: 186

Type locality: Merivan, Kurdistan Province

Distributon: Iran

***Anoplocheylus paraclavatus* van Dis et Ueckermann**

Anoplocheylus paraclavatus van Dis & Ueckermann, 1991: 106; Ueckermann & Khanjani, 2004: 55

Type locality: Edenville, Pongola

Distributon: South Africa

***Anoplocheylus protea* (Womersley)**

Rhagina protea Womersley, 1935: 336

Anoplocheylus protea (Womersley): Baker & Atyeo, 1964: 264; van Dis & Ueckermann, 1991: 111; Ueckermann & Khanjani, 2004: 57

Type locality: Glen Osmond, South Australia

Distributon: Australia

Anoplocheylus qorvehiensis Khanjani, Hoseini et Amini

Anoplocheylus qorvehiensis Khanjani, Hoseini & Amini, 2014: 189

Type locality: Qorveh, Kurdistan Province

Distributon: Iran

Anoplocheylus sinai Bagheri

Anoplocheylus sinai Bagheri, in Bagheri et al., 2013: 290; Navaei-Bonab & Kazazi, 2013: 28

Type locality: Iran

Distributon: Iran

Anoplocheylus tauricus Livshitz et Mitrofanov

Anoplocheylus tauricus Livshitz & Mitrofanov, 1973: 770; van Dis & Ueckermann, 1991: 113; Ueckermann & Khanjani, 2004: 65; Bayram & Cobanoğlu, 2006:

Type locality: cape Kazantip, Crimea

Distributon: Turkey, Crimea, Iran

Anoplocheylus tellustrus van Dis et Ueckermann

Anoplocheylus tellustrus van Dis & Ueckermann, 1991: 109

Anoplocheylus reticulatus van Dis & Ueckermann, 1991: 112. Type: Pongola, Edenville, South Africa. Syn. by Ueckermann & Khanjani, 2004: 61

Type locality: Pongola, Edenville

Distributon: South Africa

Anoplocheylus transiens Delfinado et Baker

Anoplocheylus transiens Delfinado & Baker, 1974: 209; van Dis & Ueckermann, 1991: 113; Ueckermann & Khanjani, 2004: 61

Type locality: Heckscher Park, Long Islang, New York

Distributon: USA

Genus ***Neocheylus*** Trägårdh

Neocheylus Trägårdh, 1906: 870

Type species: *Neocheylus natalensis* Trägårdh, 1906

Neocheylus collis Baker et Atyeo

Neocheylus collis Baker & Atyeo, 1964: 270

Type locality: Mount Toolbrunup (Stirling Ranges, 300 miles south from Perth), W. Australia

Distributon: Australia

Neocheylus natalensis Trägårdh

Neocheylus natalensis Trägårdh, 1906: 870

Type locality: Natal

Distributon: South Africa

Neocheylus nidicolus Lawrence

Neocheylus nidicolus Lawrence, 1954: 74

Type locality: Karamoja (Uganda)

Distributon: Uganda

Genus ***Pseudocheylus*** Berlese

Pseudocheylus Berlese, 1888: 189

Type species: *Pseudocheylus biscalatus* Berlese, 1888

Pseudocheylus americanus (Ewing)

Cheyletiella americana Ewing, 1909: 429

Pseudocheylus americanus (Ewing): Baker & Wharton, 1952: 226; Skvarla et al., 2013: 401

Type locality: Urbana, Illinois

Distributon: USA (Illinois)

Pseudocheylus biscalatus Berlese

Pseudocheylus biscalatus Berlese, 1888: 189; Flechtmann, 1971: 33

Type locality: Rio-Apa (Paraguay), Mato Grosso (Brazil)

Distribution: Brazil, Paraguay

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Distribution of Pseudocheylidae

EUROPE

Italy (contin.)

Sicily (Berlese, 1910) – *Anoplocheylus europaeus*

Russia

Crimea (Livshitz & Mitrofanov, 1973) – *Anoplocheylus tauricus*

Turkey (all)(Bayram & Cobanoğlu, 2006) - *Anoplocheylus tauricus*

AFRICA

Egypt (Baker & Atyeo, 1964) – *Anoplocheylus aegyptiacus*

South Africa (Trägårdh, 1906; van Dis & Ueckermann, 1991; Ueckermann & Khanjani, 2004) – *Anoplocheylus brevisetosus*, *A. paraclavatus*, *A. tellustrus* (= *reticulatus*), *Neocheylus natalensis*

Uganda (Lawrence, 1954) – *Neocheylus nidicolus*

ASIA

Iran (Ueckermann & Khanjani, 2004; Navaei-Bonab et al., 2011; Bagheri et al., 2013; Navaei-Bonab & Kazazi, 2013: 28; Khanjani, Hoseini & Amini, 2014) – *Anoplocheylus bonabjadidiensis*, *A. kazemii*, *A. malayeriensis*, *A. marivaniensis*, *A. qorvehiensis*, *A. sinai*, *A. tauricus*

Israel (Gerson, 1967) - *Anoplocheylus aegyptiacus*

Thailand (Fuangarworn & Butcher, 2015) – *Anoplocheylus corticicola*

NORTH AMERICA

Canada (Smith & Lindquist, 1979) – *one species*

USA (Ewing, 1909; Delfinado & Baker, 1974; Skvarla et al., 2013) – *Anoplocheylus transiens*, *Pseudocheylus americanus*

SOUTH and CENTRAL AMERICA

Brazil (Berlese, 1888; Flechtmann, 1971; Khaustov & Tolstikov, 2015) – *Anoplocheylus brasiliensis*, *A. hapsiscutus*, *Pseudocheylus biscalatus*

Paraguay (Berlese, 1888) - *Pseudocheylus biscalatus*

OCEANIA

Australia (continent) (Womersley, 1935; Baker & Atyeo, 1964) – *Anoplocheylus clavatus*,
A. protea, *Neocheylus collis*

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The Mite Family Stigmocheylidae Berlese

Stigmocheylidae Berlese, 1910: 209

Small family (five known species) of soil mites.

Catalogue of Stigmocheylidae

Family **Stigmocheylidae** Berlese

Stigmocheylidae Berlese, 1910b: 209; Kethley, 1990: 698

Type genus: *Stigmocheylus* Berlese, 1910

Genus ***Stigmocheylus*** Berlese

Stigmocheylus Berlese, 1910a: 209

Type species: *Stigmocheylus brevisetus* Berlese, 1910

Stigmocheylus americanus Bochkov

Stigmocheylus americanus Bochkov, 2008: 315

Type locality: Las Cruces, Jornada, New Mexico

Distribution: USA (New Mexico)

Stigmocheylus brevisetus Berlese

Stigmocheylus brevisetus Berlese, 1910a: 209

Type locality: Pisa

Distribution: Italy

Stigmocheylus oberon Bochkov

Stigmocheylus oberon Bochkov, 2008: 314

Type locality: New Mexico

Distribution: USA (New Mexico)

Stigmocheylus persicus Damavandian et Paktinat-Saeij

Stigmocheylus persicus Damavandian & Paktinat-Saeij, 2018: 2160

Type locality: Noor, Mazandaran province, northern Iran

Distribution: Iran

Stigmocheylus pilosus (Soliman et Zaher)

Hemitarsocheylus pilosus Soliman & Zaher, 1975: 105

Stigmocheylus pilosus (Soliman et Zaher): Bochkov, 2008: 314

Type locality: Giza

Distribution: Egypt

Index of **Stigmocheylidae**

(Names in bold are accepted as valid)

americanus, ***Stigmocheylus*** 303

brevisetus, ***Stigmocheylus*** 303

oberon, ***Stigmocheylus*** 303

persicus, ***Stigmocheylus*** 303

pilosus, *Hemitarsocheylus* 303

pilosus, ***Stigmocheylus*** 303

Stigmocheylus 303

Stigmocheylidae 302

Distribution of Stigmocheylidae

EUROPE

Italy (Berlese, 1910) - *Stigmocheylus brevisetus*

AFRICA

Egypt (Soliman & Zaher, 1975) – *Stigmocheylus pilosus*

ASIA

Iran (Naghbinejad, Ahadiyat, & Ostovan, 2009; Damavandian & Paktinat-Saeij, 2018)
– *Stigmocheylus persicus*

NORTH AMERICA

USA (Bochkov, 2008) – *Stigmocheylus americanus*, *S. oberon*

Bibliography of Stigmocheylidae

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The mite Superfamily Caeculoidea

Superfamily Caeculoidea Ewing, 1934

Phalanx Caeculata Wainstein, 1965: 77

The superfamily contains one family – Caeculidae.

The mite family Caeculidae

Family Caeculidae Berlese, 1883

Dufour (1832) started the study of these peculiar mites, called after the mythical son of Vulcan. They prefer the open rocky habitats and are known already from all continents. The second genus in the family (*Procaeculus*) was described by Jacot (1936), more than a century after the first. The low intensity of the studies of Caeculidae of many countries is shown by the multitude of species, found in the USA by several authors, mostly by Mulaik (1945), and (after 1952) in Spain, Morocco, N. Macedonia and Chad by H. Franz, who revised the family (Franz, 1952), describing the new genera *Allocaeculus* and *Microcaeculus*, and compiling a list of all known Caeculidae. Very profound research on the family was enterprised by Y. Coineau since 1963. He described several new species, mainly from Southern Africa, and the new genera *Calocaeculus*, *Andocaeculus*, and *Neocaeculus*. Three new species have been described from Australia (Taylor, Gunawardene & Kinnear, 2013, Taylor, 2014) and one from Thailand (Fuangarworn & Butcher, 2015) and Canada (Bernard et al., 2020). One new *Allocaeculus* was described from Slovakia (Mangová et al., 2014), another one from Turkey (Per et al., 2017). New checklist of the family was published by Taylor et al. (2013).

Fossil species have been described from amber from Poland, Myanmar, Mexico, and Dominican Republic (Coineau & Magowski, 1994, Coineau & Poinar, 2000, Rivas et al., 2016, Porta et al., 2019).

Now the family is considered to contain at least 114 sp. in seven genera.

Fam. Caeculidae – 114 sp.

Allocaeculus Franz, 1952 – 36 sp.

Andocaeculus Coineau, 1974 - 5

Caeculus Dufour, 1832 - 21

Calocaeculus Coineau, 1974 - 1

Microcaeculus Franz, 1952 - 25

Neocaeculus Coineau, 1967 – 12

Procaeculus Jacot, 1936 - 13

Incertae sedis - 1

Catalogue of Caeculidae

Family **Caeculidae** Berlese

Hoplopini Canestrini & Fanzago, 1877: 481

Caeculidae Berlese, 1883

Type genus: *Caeculus* Dufour, 1832

Genus ***Allocaeculus*** Franz

Allocaeculus Franz, 1952: 108

Type species: *Allocaeculus relictus* Franz, 1952

Allocaeculus andalusiacus Franz

Allocaeculus andalusiacus Franz, 1952: 113

Type locality: Sevilla, Cinca de Pino, Andalusia

Distribution: Spain

Allocaeculus catalanus Franz

Allocaeculus catalanus Franz, 1952: 2; 1954: 210; 1955: 12

Type locality: Gerona (Spain), Eastern Pyrenees (France)

Distribution: France, Kazakhstan, Russia, Spain

Allocaeculus circinatus Coineau

Allocaeculus circinatus Coineau, 1974b: 278

Type locality: Ghaub Farm in Ovidi highlands, 25 km S Tsumeb

Distribution: Namibia

Allocaeculus dubius (Kulczynski)

Caeculus dubius Kulczynski, 1901: 367

Allocaeculus dubius (Kulczynski): Franz, 1952: 122

Type locality: Algeria

Distribution: Algeria

Allocaeculus echinatus Franz

Allocaeculus echinatus Franz, 1952: 118

Type locality: Sevilla, Andalusia

Distribution: Spain

Allocaeculus erinaceus Coineau

Allocaeculus erinaceus Coineau, 1974b: 277

Type locality: Ingwavuma

Distribution: South Africa

***Allocaeculus grandjeani* Franz**

Allocaeculus grandjeani Franz, 1957: 10

Type locality: Khenifra

Distribution: Morocco

***Allocaeculus hirsutus* Coineau**

Allocaeculus hirsutus Coineau, 1974b: 277

Type locality: Glencoe

Distribution: South Africa

***Allocaeculus hoggarensis* (André)**

Caeculus hoggarensis André, 1936: 111

Allocaeculus hoggarensis (André): Franz, 1952: 122; Piffel, 1959: 54

Type locality: Hoggar, Mt Ilaman

Distribution: Algeria

***Allocaeculus hystriciformis* Franz**

Allocaeculus hystriciformis Franz, 1952: 120

Type locality: Mte Arastepa in Sierra Ronda

Distribution: Spain

***Allocaeculus hystrix* (Lawrence)**

Caeculus hystrix Lawrence, 1939: 542

Allocaeculus hystrix (Lawrence): Franz, 1952: 122

Type locality: Zululand, Hluhluve Game Reserve

Distribution: South Africa

***Allocaeculus indicus* Piffel**

Allocaeculus indicus Piffel, 1959: 52

Type locality: Saidu Sharif, Swat Area, NW Pakistan

Distribution: Pakistan

***Allocaeculus kalahariensis* Coineau**

Allocaeculus kalahariensis Coineau, 1974b: 277

Type locality: Kalahari Gemsbok National Park

Distribution: South Africa

***Allocaeculus kenya* Franz**

Allocaeculus kenya Franz, 1964: 82

Type locality: 8 km N Nairobi

Distribution: Kenya

Allocaeculus kocheri Franz

Allocaeculus kocheri Franz, 1964: 84

Type locality: Oukaimeden, 2300 m

Distribution: Morocco

Allocaeculus logonensis Franz

Allocaeculus logonensis Franz, 1957: 6

Type locality: Logon, Deressia nr. Lai

Distribution: Chad

Allocaeculus meseticola Franz

Allocaeculus meseticola Franz, 1952: 114; 1955: 14

Type locality: Alcala de Henares

Distribution: Spain

Allocaeculus mosambicensis (André)

Caeculus mosambicensis André, 1936: 115

Allocaeculus mosambicensis (André): Franz, 1952: 122; 1957: 12; Piffel, 1959: 54

Type locality: Vila Pery

Distribution: Mozambique

Allocaeculus multispinosus Franz

Allocaeculus multispinosus Franz, 1955: 11; 1960: 86

Type locality: Puerto de Perales, Sierra de Gata

Distribution: Spain, Turkey

Allocaeculus nigeriensis Coineau

Allocaeculus nigeriensis Coineau, 1974b: 278

Type locality: Ibadan

Distribution: Nigeria

Allocaeculus ouadaiensis Franz

Allocaeculus ouadaiensis Franz, 1957: 7

Type locality: Mont Kelinguen nr. Abecher

Distribution: Chad

Allocaeculus pilosus Lawrence

Caeculus pilosus Lawrence, 1938: 211

Allocaeculus pilosus (Lawrence): Franz, 1952: 122; 1957: 12; Piffel, 1959: 54

Type locality: N. Damaraland

Distribution: Namibia

***Allocaeculus relictus* Franz**

Allocaeculus relictus Franz, 1952: 111; 1954b: 369; 1955: 15; Winkler, 1953: 55

Type locality: “Kalvarienberg b. Gumpoldskirchen”, Austria

Distribution: Austria, Czech Rep.

***Allocaeculus sandbergensis* Mangová, Krumpál et Luptáčík**

Allocaeculus sandbergensis Mangová, Krumpál & Luptáčík, 2014: 214

Type locality: National nature reserve Devínska Kobyla near Sandberg

Distribution: Slovakia

***Allocaeculus sarhroi* Franz**

Allocaeculus sarhroi Franz, 1964: 86

Type locality: Tizi-n-Tazazerte, Jbel Sarhro, 2100 m

Distribution: Morocco

***Allocaeculus schusteri* Franz**

Allocaeculus schusteri Franz, 1960: 83

Type locality: Ohrid

Distribution: N. Macedonia

***Allocaeculus sclerodermatus* André**

Caeculus sclerodermatus André, 1936: 106

Allocaeculus sclerodermatus (André): Franz, 1952: 122; 1957: 12; Piffel, 1959: 54

Type locality: South Tunisia, Nefta

Distribution: Tunisia

***Allocaeculus sculptus* (Karpelles)**

Hoplopus sculptus Karpelles, 1893: 39

Caeculus sculptus Karpelles, 1893: 39

Allocaeculus sculptus (Karpelles): Franz, 1952: 122; Piffel, 1959: 54

Type locality: Hungary

Distribution: Hungary

***Allocaeculus senegalensis* (André)**

Caeculus senegalensis André, 1938: 264

Allocaeculus senegalensis (André): Taylor et al., 2013: 448

Type locality: Dakar

Distribution: Senegal

Allocaeculus sirwani Paktinat-Saeij, Ghobari et Samani*Allocaeculus sirwani* Paktinat-Saeij, Ghobari & Samani, 2020: 834

Type locality: Marivan city, Kurdistan Province

Distribution: Iran

Allocaeculus spatulifer (Michael)*Caeculus spatulifer* Michael, 1890: 432; Vitzthum, 1933: 87*Allocaeculus spatulifer* (Michael): Franz, 1952: 122

Type locality: Algeria

Distribution: Algeria, Croatia, Spain

Allocaeculus spinosissimus Franz*Allocaeculus spinosissimus* Franz, 1952: 116*Allocaeculus spinosissimus rondae* Franz, 1952: 118. Type locality: Mte Arastepa in Sierra Ronda

Type locality: Sierra Guadarrama above Escorial

Distribution: Spain

Allocaeculus sudanensis (Trägårdh)*Caeculus sudanensis* Trägårdh, 1904: 70*Allocaeculus sudanensis*: Franz, 1952: 122

Type locality: "Gebelein am weissen Nil"

Distribution: Sudan

Allocaeculus tenerifae Franz*Allocaeculus tenerifae* Franz, 1965: 67

Type locality: Las Madrigueras (S. Tenerife)

Distribution: Spain (Canary Is.)

Allocaeculus tschadensis Franz*Allocaeculus tschadensis* Franz, 1957: 8; 1964: 86

Type locality: Mont Kelinguen nr. Abecher (Chad)

Distribution: Chad, Morocco, Senegal

Allocaeculus tschadensis rifensis Franz*Allocaeculus tschadensis rifensis* Franz, 1960: 84

Type locality: Zoco el Arba, road Tetuan - Xauen

Distribution: Morocco

Allocaeculus turcicus Per, Doğan, Zeytun et Ayyıldız*Allocaeculus turcicus* Per, Doğan, Zeytun & Ayyıldız, 2017: 371

Type locality: Karamlıkdere Valley, Yozgat, 844 m

Distribution: Turkey

Genus ***Andocaeculus*** Coineau

Andocaeculus Coineau, 1974b: 279

Type species: *Microcaeculus brundini* Franz, 1962

Andocaeculus beatrizrosso Porta, Pizarro-Araya et Ramírez

Andocaeculus beatrizrosso Porta, Pizarro-Araya & Ramírez, 2021: 42

Type locality: Argentina

Distribution: Argentina

Andocaeculus brundini (Franz)

Microcaeculus Brundini Franz, 1962: 99

Andocaeculus brundini (Franz): Coineau, 1974b: 279

Type locality: Arroyo Lopez, W from Bariloche (Prov. Rio Negro)

Distribution: Argentina

Andocaeculus burmeisteri Porta, Pizarro-Araya et Ramírez

Andocaeculus burmeisteri Porta, Pizarro-Araya & Ramírez, 2021: 28

Type locality: Argentina

Distribution: Argentina

Andocaeculus caioi Ott et Ott

Andocaeculus caioi Ott & Ott, 2014: 356

Type locality: Fazenda Rincão dos Moraes, Área de Proteção Ambiental do Rio Ibirapuitã,
Sant'Ana do Livramento, Rio Grande do Sul

Distribution: Brazil

Andocaeculus weinrauchi (Franz)

Microcaeculus weinrauchi Franz, 1964: 89

Andocaeculus weinrauchi:

Type locality: Puna "El Infernillo", 3000 m

Distribution: Argentina

Genus ***Caeculus*** Dufour

Caeculus Dufour, 1832: 289

Hoplopus Canestrini & Fanzago, 1877: 480 (replacement name)

Type species: *Caeculus echinipes* Dufour, 1832

Pseudocaeculus Coineau, 1974 (unavailable name)

Pseudocaeculus americanus (Banks): Taylor et al., 2013: 448.

***Caeculus americanus* Banks**

Caeculus americanus Banks, 1899: 221; McDaniel & Boe, 1990: 722

Type locality: Palm Springs, California

Distribution: USA (California)

***Caeculus archeri* Mulaik**

Caeculus archeri Mulaik, 1945: 13; Franz, 1952: 121; McDaniel & Boe, 1990: 723

Type locality: Monte Sano, Madison Co., Alabama

Distribution: USA (Alabama, Tennessee)

***Caeculus calechius* Mulaik**

Caeculus calechius Mulaik, 1945: 5; Franz, 1952: 121; McDaniel & Boe, 1990: 723

Type locality: Edinburg, Hidalgo Co., Texas

Distribution: USA (Montana, Texas, Utah)

***Caeculus cassiopeiae* Bernard et Lumley**

Caeculus cassiopeiae Bernard & Lumley, in: Bernard, Lumley, Buck & Cobb. 2020: 2

Type locality: Alberta, Medicine Hat, near Gas City Campground; 50°2.23'N, 110°43.56'W

Distribution: Canada

***Caeculus clavatus* Banks**

Caeculus clavatus Banks, 1906: 135; Franz, 1952: 121; McDaniel & Boe, 1990: 722

Type locality: USA (California)

Distribution: USA (California)

***Caeculus cremnicolus* Enns**

Caeculus cremnicolus Enns, 1958: 107; Skvarla, Fisher & Dowling, 2013: 401; Bernard et al., 2020:

Type locality: Baskett Wildlife Research and Education Area, Devil's Backbone; Easley; Wilton, Missouri

Distribution: Canada, USA (Arkansas, Missouri)

***Caeculus crossleyi* Coineau**

Caeculus crossleyi Coineau, 1974b: 276

Type locality: DeKalb & Rockdale Counties

Distribution: USA (Georgia)

***Caeculus dorotheae* Mulaik**

Caeculus dorotheae Mulaik, 1945: 9; Franz, 1952: 121; McDaniel & Boe, 1990: 722
(*dorotheae*)

Type locality: Lockes, Nye Co., Nevada

Distribution: USA (Arizona, Nevada)

***Caeculus echinipes* Dufour**

Caeculus echinipes Dufour, 1832: 289; André, 1927: 168; 1932: 485; Irk, 1939: 154; Willmann, 1951: 148; Franz, 1952: 98; 1954a: 212; 1954b: 369; Kratochvil, 1962: 174; Schmölzer, 1962: 286; Coineau & Haupt, 1976

Hoplopous echinipes: Canestrini & Fanzago, 1877: 477

Type locality: Moxente (Valencia)

Distribution: Algeria, Austria, Bulgaria, France, Germany, Greece, Italy, Spain, Switzerland

***Caeculus echinipes crosbyi* Jacot**

Caeculus echinipes crosbyi Jacot, 1936: 18; Franz, 1952: 121

Caeculus echinipes: Franz, 1955: 14

Type locality: Pic du Midi de Bigorre, Pyrenees

Distribution: France

***Caeculus gertschi* Mulaik**

Caeculus gertschi Mulaik, 1945: 8; Franz, 1952: 121

Type locality: Rio Grande City, Starr Co., Texas

Distribution: USA (Texas)

***Caeculus hardyi* Mulaik et Allred**

Caeculus hardyi Mulaik & Allred, 1954: 36; McDaniel & Boe, 1990: 723

Type locality: Laredo, Harlingen (New Mexico, Texas), San Pedro (Mexico)

Distribution: Mexico, USA

***Caeculus hypopachus* Mulaik**

Caeculus hypopachus Mulaik, 1945: 10; Franz, 1952: 122; McDaniel & Boe, 1990: 723

Type locality: Edinburg, Hidalgo Co., Texas, in stomach of toad (*Hypopachus cuneus*)

Distribution: USA (Texas)

***Caeculus janetae* Higgins et Mulaik**

Caeculus janetae Higgins & Mulaik, 1957b: 267

Type locality: SW USA

Distribution: USA

***Caeculus kerrulius* Mulaik**

Caeculus kerrulius Mulaik, 1945: 8; Franz, 1952: 122; McDaniel & Boe, 1990: 722

Type locality: Kerrville, KerrCo., Texas

Distribution: USA (Texas)

Caeculus krantzi Coineau

Caeculus krantzi Coineau, 1974b: 276

Type locality: Manzanita, 32 mi E of Sweet Home, Oregon

Distribution: USA (Oregon)

Caeculus lewisi McDaniel et Boe

Caeculus lewisi McDaniel & Boe, 1990: 716

Type locality: South Dakota

Distribution: USA (South Dakota)

Caeculus mariae Higgins et Mulaik

Caeculus mariae Higgins & Mulaik, 1957a: 27

Type locality: Oregon

Distribution: USA (Oregon)

Caeculus pettiti Nevin

Caeculus pettiti Nevin, 1943: 389; 1945: 195; Franz, 1952: 122; McDaniel & Boe, 1990: 723

Type locality: Virginia

Distribution: USA

Caeculus tipus Mulaik

Caeculus tipus Mulaik, 1945: 6; Mulaik & Allred, 1954: 38; Franz, 1952: 122; McDaniel & Boe, 1990: 723

Type locality: Edinburg, Hidalgo Co., Texas

Distribution: USA (Utah, Texas)

Caeculus valverdius Mulaik

Caeculus valverdius Mulaik, 1945: 6; Franz, 1952: 122; McDaniel & Boe, 1990: 72

Type locality: Edinburg, Hidalgo Co., Texas

Distribution: USA (Arizona, Texas)

Caeculus veracruzensis Porta et Vázquez Rojas

Caeculus veracruzensis Porta & Vázquez Rojas, 2020: 473

Type locality: La Mancha, Veracruz

Distribution: Mexico

Genus ***Calocaeculus*** Coineau

Calocaeculus Coineau, 1974b: 279

Type species: *Calocaeculus lawrencei* Coineau, 1974

Calocaeculus lawrencei Coineau

Calocaeculus lawrencei Coineau, 1974b: 279

Type locality: Pearston in Somerset East

Distribution: South Africa

Genus ***Microcaeculus*** Franz

Microcaeculus Franz, 1952: 101

Type species: *Microcaeculus austriacus* Franz, 1952

Scleroaeculus Coineau, 1974

Type species: *Scleroaeculus namibensis* (Piffel, 1965)

Microcaeculus andrei (Lawrence)

Caeculus Andrei Lawrence, 1939: 540

Microcaeculus andrei (Lawrence): Franz, 1952: 122; Halliday, 2005: 28

Type locality: South Africa

Distribution: South Africa

Microcaeculus austriacus Franz

Microcaeculus austriacus Franz, 1952: 103; 1954b: 369; Pieper, 1970: 106; Thaler et al., 1993: 311

Type locality: “Kalvarienberg b. Gumpoldskirchen a. O-Hang des Anningers südl. v. Wien” (Austria)

Distribution: Austria, Czech Rep., Germany

Microcaeculus canariensis Franz

Microcaeculus canariensis Franz, 1965: 68

Type locality: Ortes Los Cristianos (Tenerife)

Distribution: Spain (Canary Is.)

Microcaeculus castrii Franz

Microcaeculus castrii Franz, 1964: 87

Type locality: Cordillera de la Costa, Prov. De Coquimbo, Alcones (and several other localities)

Distribution: Chile

Microcaeculus deserticolus (Lawrence)

Caeculus deserticolus Lawrence, 1939: 537

Microcaeculus deserticolus (Lawrence): Franz, 1952: 122

Scleroaeculus deserticolus (Lawrence) – Coineau, 1974: 59

Type locality: Kakamas, Namaqualand

Distribution: South Africa

Microcaeculus franzi Coineau*Microcaeculus franzi* Coineau, 1968: 143

Type locality: Ghisonaccia, Corsica

Distribution: Corsica

Microcaeculus graecus Franz*Microcaeculus graecus* Franz, 1964: 91

Type locality: Arachova, 2000 m

Distribution: Greece

Microcaeculus hispanicus Franz*Microcaeculus hispanicus* Franz, 1952: 105; Coineau, 1966: 23

Type locality: Alcalá de Henares (Spain)

Distribution: France, Spain

Microcaeculus insolitus (André)*Caeculus insolitus* André, 1935: 113*Microcaeculus insolitus* (André): Franz, 1952: 122

Type locality: Grande Salvage

Distribution: Salvages Islands (Portugal)

Microcaeculus insularis Franz*Microcaeculus insularis* Franz, 1964: 90

Type locality: The Big Island against Essaouira (Mogador)

Distribution: Morocco

Microcaeculus laoshanensis (Jacot)*Caeculus laoshanensis* Jacot, 1936: 20*Microcaeculus laoshanensis* (Jacot): Franz, 1952: 122

Type locality: Laoshan

Distribution: China

Microcaeculus liguricus (Vitzthum)*Caeculus liguricus* Vitzthum, 1933: 87; Willmann, 1954: 237*Microcaeculus liguricus* (Vitzthum): Franz, 1952: 122

Type locality: Coast of Liguria

Distribution: Czech Rep., Italy, Morocco

Microcaeculus monticolus (Lawrence)*Caeculus monticolus* Lawrence, 1939: 539*Microcaeculus monticolus* (Lawrence): Franz, 1952: 122; Halliday, 2005: 28

Type locality: South Africa

Distribution: South Africa

Microcaeculus muscorum (Lucas)

Caeculus muscorum Lucas, 1849: 307

Microcaeculus muscorum (Lucas): Franz, 1952: 122

Type locality: Algeria

Distribution: Algeria

Microcaeculus namibensis Piffel

Microcaeculus namibensis Piffel, 1965: 1

Scleroaeculus namibensis (Piffel): Taylor et al., 2013: 449

Type locality: Namibia

Distribution: Namibia

Microcaeculus nicoleae Coineau

Microcaeculus nicoleae Coineau, 1974b: 276

Type locality: Bloeddrif

Distribution: South Africa

Microcaeculus nudus Franz

Microcaeculus nudus Franz, 1964: 88

Type locality: Serro El Roble, Cordillera de la Costa, Provincias de Valparaiso y .Santiago,
Gipfel del Cerro

Distribution: Chile

Microcaeculus pica Otto

Microcaeculus pica Otto, 2009: 6

Type locality: New South Wales, Guerilla Bay

Distribution: Australia (NSW)

Microcaeculus pisanus (André)

Caeculus pisanus André, 1936: 123; Franz, 1952: 122 (Inc. sed.)

Microcaeculus pisanus (André): Taylor et al., 2013: 449

Type locality: Italy

Distribution: Italy

Microcaeculus sabulicola Franz

Microcaeculus sabulicola Franz, 1952: 107; Coineau, 1969b: 207

Type locality: "Andalusien, am Sandstrand westl. Algeciras" (Spain)

Distribution: France, Morocco, Portugal, Spain

Microcaeculus sinensis (Jacot)

Caeculus sinensis Jacot, 1936: 22

Microcaeculus sinensis (Jacot): Franz, 1952: 122

Type locality: China

Distribution: China

Microcaeculus sinensis taishanicus (Jacot)

Caeculus sinensis taishanicus Jacot, 1936: 22

Microcaeculus sinensis taishanicus (Jacot): Franz, 1952: 122

Type locality: Taishan

Distribution: China

Microcaeculus steineri Franz

Microcaeculus hispanicus steineri Franz, 1955: 9

Microcaeculus steineri Franz:

Type locality: Sierra Nevada, 2700 m

Distribution: Spain

Microcaeculus steineri delamarei Coineau

Microcaeculus steineri delamarei Coineau, 1974b: 276

Type locality: Font Estramer, 12 km N from Perpignan

Distribution: France

Microcaeculus stephani Coineau et Haupt

Microcaeculus stephani Coineau & Haupt, 1978: 622

Type locality: Formentera, Playa Mitjora

Distribution: Spain (Formentera, Pityusas)

Microcaeculus tibbettsi (Higgins et Mulaik)

Caeculus tibbettsi Higgins & Mulaik, 1958: 17

Microcaeculus tibbettsi (Higgins et Mulaik): Franz, 1962: 100

Type locality: Seoul

Distribution: Korea

Microcaeculus uchidai (Asanuma)

Caeculus uchidai Asanuma, 1940: 271

Microcaeculus uchidai (Asanuma): Taylor et al., 2013: 449

Type locality: Japan

Distribution: Japan

Genus ***Neocaeculus*** Coineau

Neocaeculus Coineau, 1967: 58

Type species: *Neocaeculus luxtoni* Coineau, 1967

Neocaeculus bornemisszai Coineau et Enns*Neocaeculus bornemisszai* Coineau & Enns, 1969: 690

Type locality: Kimberley, 100 km S Wyndham

Distribution: Australia

Neocaeculus bruchi (Berlese)*Caeculus bruchi* Berlese, 1916: 289; Franz, 1952: 122 (Inc. sed., *Microcaeculus* ?)*Neocaeculus bruchi*: Coineau, 1974: Taylor et al., 2013: 449

Type locality: "La Plata"

Distribution: "La Plata"(Argentina)

Neocaeculus imperfectus Taylor, Gunawardene et Kinnear*Neocaeculus imperfectus* Taylor, Gunawardene & Kinnear, 2013: 440

Type locality: Barrow Island, Western Australia

Distribution: Australia

Neocaeculus johnstoni Coineau*Neocaeculus johnstoni* Coineau, 1974: 68

Type locality: Lord Howe Island

Distribution: Lord Howe Island

Neocaeculus kinnearae Taylor*Neocaeculus kinnearae* Taylor, 2014: 348

Type locality: Barrow Island, Western Australia

Distribution: Australia

Neocaeculus knoepffleri Coineau et Enns*Neocaeculus knoepffleri* Coineau & Enns, 1969: 679

Type locality: Kimberley, 100 km S Wyndham

Distribution: Australia

Neocaeculus lamorali Coineau*Neocaeculus lamorali* Coineau, 1974b: 278

Type locality: De Waal farm, 10 km N of Leonardville

Distribution: Namibia

Neocaeculus luxtoni Coineau*Neocaeculus luxtoni* Coineau, 1967a: 58

Type locality: Alexandra (Otago)

Distribution: New Zealand

Neocaeculus nudonates Taylor

Neocaeculus nudonates Taylor, 2014: 343

Type locality: Barrow Island, Western Australia

Distribution: Australia

Neocaeculus orientalis Fuangarworn et Butcher

Neocaeculus orientalis Fuangarworn & Butcher, 2015: 251

Type locality: Thailand

Distribution: Thailand

Neocaeculus setecidades Ott et Ott

Neocaeculus setecidades Ott & Ott, 2018: 2

Type locality: Parque Nacional Sete Cidades (04°06'44.2"S - 41°41'47.7"W), sample site PNC7C 0323, Piracuruca, Piauí

Distribution: Brazil

Neocaeculus womersleyi Coineau

Neocaeculus womersleyi Coineau, 1974: 68

Type locality: Risdon

Distribution: Tasmania

Genus ***Procaeculus*** Jacot

Procaeculus Jacot, 1936: 25

Type species: *Procaeculus bryani* Jacot, 1936

Procaeculus aitkeni Coineau

Procaeculus aitkeni Coineau, 1967b: 719

Type locality: Trinidad

Distribution: Trinidad

Procaeculus brevis (Mulaik)

Caeculus brevis Mulaik, 1945: 11; Franz, 1952: 121; McDaniel & Boe, 1990: 723

Procaeculus brevis (Mulaik): Taylor et al., 2013: 449.

Type locality: Houston, Harris Co., Texas

Distribution: USA (Texas)

Procaeculus bryani Jacot

Procaeculus bryani Jacot, 1936: 25; Franz, 1952: 121; Coineau, 1967b: 713

Type locality: Peale Island, Wake Island, Western end of the Hawaiian Island group

Distribution: Hawaiian Islands

Procaeculus coineau Porta et al. (fossil)

Procaeculus coineau Porta et al., 2016: 38

Type locality: Myanmar

Distribution: Myanmar (Burma)

Procaeculus dominicensis Coineau et Poinar (fossil)

Procaeculus dominicensis Coineau & Poinar, 2000: 143

Type locality: Mine in Northern Cordillera, El Mamey Formation (Upper Eocene)

Distribution: Dominican Republic

Procaeculus eridanosae Coineau et Magowski (fossil)

Procaeculus eridanosae Coineau & Magowski, 1994: 243

Type locality: Baltic amber (Eocene)

Distribution: Poland

Procaeculus magnus Coineau

Procaeculus magnus Coineau, 1974b: 279

Type locality: Mazatlan, Sin.

Distribution: Mexico

Procaeculus mexicanus (Mulaik et Allred)

Caeculus mexicanus Mulaik & Allred, 1954: 34; McDaniel & Boe, 1990: 723

Procaeculus mexicanus (Mulaik et Allred): Coineau, 1967b: 718

Type locality: San Luis Potosi (also intercepted in Texas)

Distribution: Mexico

Procaeculus orchidicolis (Mulaik et Allred)

Caeculus orchidicolis Mulaik & Allred, 1954: 30

Procaeculus orchidicolis (Mulaik et Allred): Coineau, 1967b: 718

Type locality: Chilpancingo (also intercepted in Texas)

Distribution: Mexico

Procaeculus oregonus (Mulaik et Allred)

Caeculus oregonus Mulaik & Allred, 1954: 28; McDaniel & Boe, 1990: 723

Procaeculus oregonus (Mulaik et Allred): Coineau, 1967b: 718

Type locality: Oak Ridge, Oregon

Distribution: USA (Oregon)

Procaeculus potosi (Mulaik et Allred)

Caeculus potosi Mulaik & Allred, 1954: 32

Procaeculus potosi (Mulaik et Allred): Coineau, 1967: 718

Type locality: Tamazunchale (also intercepted in Texas)

Distribution: Mexico

Procaeculus puertoricus Mulaik*Caeculus puertoricus* Mulaik, 1945: 12; Franz, 1952: 122*Procaeculus puertoricus* (Mulaik): Taylor et al., 2013: 450

Type locality: Como Springs

Distribution: Puerto Rico

Procaeculus willmanni (Vitzthum)*Caeculus willmannii* Vitzthum, 1933: 86*Procaeculus willmanni* (Vitzthum): Franz, 1952: 121*Procaeculus aitkeni* Coineau, 1967a: 719; syn. by Taylor et al., 2013: 450Type of *P. aitkeni*: Bush-Bush Forest, Trinidad

Type locality: Guatemala

Distribution: Guatemala

Incertae sedes

Caeculus hirtipes Berlese*Caeculus hirtipes* Berlese, 1910: 369; Franz, 1952: 122 (Inc. sed.)

Type locality: “Mechieria”

Distribution: Algeria

Caeculus hirtipes graecus Berlese*Caeculus hirtipes* var. *graecus* Berlese, 1910: 369; Franz, 1952: 122 (Inc. sed.)

Type locality: Naxos

Distribution: Greece

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EUROPE

- Austria** (Irk, 1939; Willmann, 1951; Franz, 1952, 1955; Thaler, 1979; Thaler, Knoflach & Meyer, 1993) – *Allocaeculus relictus*, *Caeculus echinipes*, *Microcaeculus austriacus*
- Bulgaria** (Kratochvil, 1962) – *Caeculus echinipes*
- Croatia** (Vitzthum, 1933) – *Allocaeculus spatulifer*
- Czech Rep.** (Franz, 1952; Winkler, 1953; Willmann, 1954) – *Allocaeculus relictus*, *Microcaeculus austriacus*, *M. liguricus*
- France** (Moniez, 1893; André, 1932; Jacot, 1936; Franz, 1954; Coineau, 1966, 1969b, 1974) – *Allocaeculus catalanus*, *Caeculus echinipes*, *C. echinipes crosbyi*, *Microcaeculus hispanicus*, *M. sabulicola*, *M. steineri delamarei*
- Corsica** (Coineau, 1968) – *Microcaeculus franzi*
- Germany** (Pieper, 1970; Coineau & Haupt, 1976) – *Caeculus echinipes*, *Microcaeculus austriacus*
- Greece** (Berlese, 1910; Sellnick, 1931; Franz, 1964) – *Caeculus echinipes*, *Microcaeculus graecus*; *inc. sed.: Caeculus hirtipes var. graecus*
- Italy** (Vitzthum, 1933; Franz, 1954) – *Allocaeculus sculptus*, *Caeculus echinipes*, *Microcaeculus liguricus*, *M. pisanus*
- Sicily** (Berlese, 1883) – *Caeculus echinipes*
- Hungary** (Karpelles, 1893) – *Caeculus*
- N. Macedonia** (Franz, 1960) – *Allocaeculus schusteri*
- Poland** (Coineau & Magowski, 1994) – *Procaeculus eridanosae* (fossil)
- Portugal** (Coineau, 1969b) – *Microcaeculus sabulicola*
- Salvages Islands** (André, 1935) – *Microcaeculus insolitus*
- Slovakia** (Mangová, Krumpál & Luptáčík, 2014) – *Allocaeculus sandbergensis*
- Spain** (Dufour, 1832; Vitzthum, 1933; Franz, 1952, 1954, 1955, 1960; Mihelčič, 1958) – *Allocaeculus andalusiacus*, *A. catalanus*, *A. echinatus*, *A. hystriciformis*, *A. meseticola*, *A. multispinosus*, *A. spatulifer*, *A. spinosissimus* (incl. *A. spinosissimus rondae*), *Caeculus echinipes*, *Microcaeculus hispanicus*, *M. sabulicola*, *M. steineri*
- Canary Is.** (Franz, 1965) – *Allocaeculus tenerifae*, *Microcaeculus canariensis*
- Balear and Pityusas Islands** (Coineau & Haupt, 1977) – *Microcaeculus stephani* [Formentera]
- Switzerland** (Schweizer, 1951; Schweizer & Bader, 1963; Pieper, 1970) – *Caeculus echinipes*
- Turkey** (Karaca et al., 2012; Per, Doğan, Zeytun & Ayyıldız, 2017; Per, Doğan & Ayyıldız, 2019) – *Allocaeculus multispinosus*, *A. turcicus*

AFRICA

- Algeria** (Lucas, 1849; Michael, 1890; Kulczynski, 1901; André, 1927; 1935) – *Allocaeculus dubius*, *A. hoggarensis*, *A. muscorum*, *A. spatulifer*, *Caeculus echinipes*
- Chad** (Franz, 1957, 1964) – *Allocaeculus logonensis*, *A. ouadaiensis*, *A. tschadensis*

Kenya (Franz, 1964) - *Allocaeculus kenya*

Morocco (Coineau, 1969b; Franz, 1960, 1964) – *Allocaeculus grandjeani*, *A. kocheri*, *A. sarhroi*, *A. tschadensis* *rifensis*, *Microcaeculus insularis*, *M. liguricus*, *M. sabulicola*

Mozambique (André, 1936) - *Allocaeculus mosambicensis*

Namibia (Lawrence, 1938; Piffel, 1965; Coineau, 1974b) – *Allocaeculus circinatus*, *A. pilosus*, *Microcaeculus namibensis*, *Neocaeculus lamorali*

Nigeria (Coineau, 1974b) – *Allocaeculus nigeriensis*

Senegal (André, 1938; Franz, 1964) – *Allocaeculus* sp. cf. *andalusiacus*, *A. tschadensis*, *A. senegalensis*

Somalia (Berlese, 1916) – “*Caeculus* pr. *spathuliger* Michael”

South Africa (Lawrence, 1939; Coineau, 1974b; Halliday, 2005) – *Allocaeculus erinaceus*, *A. hirsutus*, *A. hystrix*, *A. kalahariensis*, *Calocaeculus lawrencei*, *Microcaeculus andrei*, *M. deserticolus*, *M. monticolus*, *M. nicoleae*

Sudan (Trägårdh, 1904) - *Allocaeculus sudanensis*

Tunisia (André, 1936) – *Allocaeculus sclerodermatus*

ASIA

China (Jacot, 1936) - *Microcaeculus laoshanensis*, *M. sinensis*

Iran (Paktinat-Saeij, Ghobari & Samani, 2020) – *Allocaeculus sirwani*

Japan (Asanuma, 1940) – *Microcaeculus uchidai*

Kazakhstan – *Allocaeculus catalanus*

Korea (Higgins & Mulaik, 1958) – *Caeculus tibbettsi*

Myanmar (Burma)(Porta et al., 2019) – *Procaeculus coineau*

Pakistan (Piffel, 1959) – *Allocaeculus indicus*

Thailand (Fuangarworn & Butcher, 2015) – *Neocaeculus orientalis*

NORTH AMERICA

Canada (Bernard, Lumley, Buck & Cobb, 2020) - *Caeculus cremnicolus*, *C. cassiopeiae*

Mexico (Mulaik & Allred, 1954; Coineau, 1974b; Rivas et al., 2016; Porta & Vázquez Rojas, 2020) – *Caeculus veracruzanus*, *Procaeculus magnus*, *P. mexicanus*, *P. orchidicolis*, *P. potosi*

United States (Banks, 1899, 1906; Nevin, 1943, 1945; Mulaik, 1945; Mulaik & Allred, 1954; Higgins & Mulaik, 1957a, 1957b; Enns, 1958; Coineau, 1974b; Hagan, 1985; McDaniel & Boe, 1990; Skvarla, Fisher & Dowling, 2013) – *Caeculus americanus*, *C. archeri*, *C. calechius*, *C. clavatus*, *C. cremnicolus*, *C. dorotheae*, *C. janetae*, *C. gertschi*, *C. krantzi*, *C. lewisi*, *C. mariae*, *Procaeculus brevis*, *P. oregonus*

Hawaii (Jacot, 1936) – *Procaeculus bryani*

CENTRAL and SOUTH AMERICA

Argentina (Berlese, 1916; Franz, 1962, 1964; Porta, Pizarro-Araya & Ramírez, 2021) – *Andocaeculus beatrizrosso*, *A. brundini*, *A. burmeisteri*, *A. weinrauchi*, *Neocaeculus bruchi*

Brazil (Ott & Ott, 2014, 2018) – *Andocaeculus caioi*, *Neocaeculus setecidades*
Chile (Franz, 1964) – *Microcaeculus castrii*, *M. nudus*
Dominican Republic (Coineau & Poinar, 2000) – *Procaeculus dominicensis* (fossil)
Guatemala (Vitzthum, 1933) – *Procaeculus willmanni*
Puerto Rico (Mulaik, 1945) – *Procaeculus puertoricus*
Trinidad (Coineau, 1967b) – *Procaeculus aitkeni*

OCEANIA

Australia (Coineau & Enns, 1970; Otto, 1993; Taylor, Gunawardene & Kinnear, 2013; Taylor, 2014) – *Microcaeculus pica*, *Neocaeculus bornemisszai*, *N. imperfectus*, *N. kinnearae*, *N. knoeppfleri*, *N. nudonates*
Tasmania (Coineau, 1974) – *Neocaeculus womersleyi*
New Zealand (Coineau, 1967a) – *Neocaeculus luxtoni*
Lord Howe Island (Coineau, 1974) – *Neocaeculus johnstoni*

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The mite Superfamily Adamystoidea

Saxidromoidea Coineau, 1974a: 1059

Adamystoidea Cunliffe, 1957

The mite Superfamily Adamystoidea contains only one family – Adamystidae.

The mite family Adamystidae

Rare or little studied free-living mites, first annouced by Cunliffe (1957) and Coineau (1974a, 1974b, 1976). They are known so far only from 14 countries, but are certainly much more widespread. Ueckermann (1989) revised the family and described six new species, five of them sympatric in the area of Edenville, Orange Free State, South Africa. Another two new genera have been described fom South Africa by Coineau, Theron & Fernandez (2006). Rafalski (1982) described one very high living species in Hindu Kush (*Adamystis coineauui*, 5100 m). Other researchers described species from Middle Asia (Uzbekistan, Tajikistan, Barilo, 1986), USA (McDaniel & Bolen, 1983), Ukraine (Pogrebnyak, 2007), Cuba (Palacios-Vargas & Prieto, 1995), Mexico (López-Campos, 1996), Iran (Beyzavi, Ueckermann & Ostovan 2012; Fuangarworn & Beyzavi, 2012; Khanjani, Alvandy, Asali-fayaz & Ueckermann, 2012), and Thailand (Fuangarworn & Lekprayoon, 2010). So far only 28 species are known in this family, from the genera *Adamystis* Cunliffe, 1957 (21 sp.), *Nannodromus* (1 sp.), *Saxidromus* Coineau, 1974 (4 sp.), *Bovidromus* Coineau, Theron et Fernandez, 2006 (1 sp.) and *Rhinodromus* Coineau, Theron et Fernandez, 2006 (1 sp.)

Catalogue of Adamystidae

Family **Adamystidae** Cunliffe

Adamystinae Cunliffe, 1957: 172

Saxidromidae Coineau, 1974a: 1059

Adamystidae: Coineau, 1974b: 431

Type genus: *Adamystis* Cunliffe, 1957

Subfamily **Adamystinae** Cunliffe

Adamystinae Cunliffe, 1957: 172

Type genus: *Adamystis donnae* Cunliffe, 1957

Genus *Adamystis* Cunliffe*Adamystis* Cunliffe, 1957: 172Type species: *Adamystis donnae* Cunliffe, 1957***Adamystis alvandicus* Khanjani, Alvandy, Asali Fayaz et Ueckermann***Adamystis alvandicus* Khanjani, Alvandy, Asali Fayaz & Ueckermann, 2010: 32Type locality: Spiny Hawthorn trees, *Crataegus aronia* (L.) (Rosaceae), highland of Alvand Mountain, Hamedan, Hamedan province (34°39.8'27"N, 48°23'0.35"E).

Distribution: Iran

Adamystis beckyanneae* McDaniel et BolenAdamystis beckyanneae* McDaniel & Bolen, 1983: 177; Ueckermann, 1989: 236

Type locality: Olton Town, Lamb County, Texas

Distribution: USA (Texas)

Adamystis buchelis* UeckermannAdamystis buchelis* Ueckermann, 1989: 229

Type locality: Edenville, Orange Free State

Distribution: South Africa

Adamystis coineau* RafalskiAdamystis coineau* Rafalski, 1982: 135; Ueckermann, 1989: 236

Type locality: Valley of Mandaras, Valley of Darum, High Hindu Kush, 5100 m

Distribution: Pakistan

Adamystis donnae* CunliffeAdamystis donnae* Cunliffe, 1957: 172; Ueckermann, 1989: 236

Type locality: Tahoe City, California

Distribution: USA (California)

Adamystis doumengei* CoineauAdamystis doumengei* Coineau, 1974: 1061; Ueckermann, 1989: 239

Type locality: Ermelo Road, Transvaal

Distribution: South Africa

Adamystis ekaterinae* Ghasemi-Moghadam et SabooriAdamystis ekaterinae* Ghasemi-Moghadam & Saboori, 2019: 14

Type locality: Chitgar Forest Park

Distribution: Iran

Adamystis fonsi* CoineauAdamystis fonsi* Coineau, 1974: 1061; Ueckermann, 1989: 239; Pogrebnyak, 2007: 13

Type locality: Banyuls-sur-mer, Eastern Pyrenees

Distribution: France, Ukraine

Adamystis iranoturanianensis Beyzavi, Ueckermann et Ostovan

Adamystis iranoturanianensis Beyzavi, Ueckermann & Ostovan, 2012: 28

Type locality: from soil and humus under oak trees (*Quercus* sp., Fagaceae), Kamfiruze, Fars province (30°7.15'55"N, 52°15'56.17"E).

Distribution: Iran

Adamystis monomaculata Ueckermann

Adamystis monomaculata Ueckermann, 1989: 232

Type locality: Edenville, Orange Free State; Potchefstroom, Transvaal

Distribution: South Africa

Adamystis nudis Ueckermann

Adamystis nudis Ueckermann, 1989: 231

Type locality: Edenville, Orange Free State

Distribution: South Africa

Adamystis oculeusis Ueckermann

Adamystis oculeusis Ueckermann, 1989: 226

Type locality: Edenville, Orange Free State

Distribution: South Africa

Adamystis persiangulfensis Paktinat-Saeij et Kazemi

Adamystis persiangulfensis Paktinat-Saeij & Kazemi, 2021: 260

Type locality: Qeshm Island

Distribution: Iran

Adamystis saboorii Paktinat-Saeij et Ahaniazad

Adamystis saboorii Paktinat-Saeij & Ahaniazad, 2019: 133

Type locality: Yarshahr village, Maragheh city, East Azerbaijan Province

Distribution: Iran

Adamystis sarae Hunter et Crossley

Adamystis sarae Hunter & Crossley, 1968: 181; Ueckermann, 1989: 229

Type locality: Savannah River Plant Reservation near Aiken, South Carolina

Distribution: USA

Adamystis sartorum Barilo

Adamystis sartorum Barilo, 1986: 1414

Type locality: Samarkand, Buhara (Uzbekistan)

Distribution: Tadjikistan, Uzbekistan

Adamystis thailandensis Fuangarworn et Lekprayoon

Adamystis thailandensis Fuangarworn & Lekprayoon, 2010: 61

Type locality: Pang-Nga Province, Thaimuang District, Hard-Thaimuang Khao-Champee National Park, 8°29'38"N, 98°13'39"E

Distribution: Thailand

Adamystis theroni Fuangarworn et Beyzavi

Adamystis theroni Fuangarworn & Beyzavi, 2012: 449

Type locality: Zagros mountain, south of Kamfiruz region, Fars province (30°8'N, 52°17'E).

Distribution: Iran

Adamystis trimaculata Ueckermann

Adamystis trimaculata Ueckermann, 1989: 239

Type locality: Edenville, Orange Free State

Distribution: South Africa

Adamystis ueckermanni Fuangarworn et Beyzavi

Adamystis ueckermanni Fuangarworn & Beyzavi, 2012: 452

Type locality: Zagros mountain, south of Kamfiruz region, Fars province (30°8'N, 52°17'E).

Distribution: Iran

Adamystis yvesi Ueckermann

Adamystis yvesi Ueckermann, 1989: 236

Type locality: Pongola, Transvaal

Distribution: South Africa

Subfamily **Saxidrominae** Coineau

Saxidrominae Coineau, 1974a: 1059

Saxidromidae: Coineau, 1974a: 1059; 1974b: 431

Type genus: *Saxidromus* Coineau, 1974

Genus **Bovidromus** Coineau, Theron et Fernandez

Bovidromus Coineau, Theron & Fernandez, 2006: 67

Type species: *Bovidromus roussouwi* Coineau, Theron et Fernandez, 2006

Bovidromus roussouwi Coineau, Theron et Fernandez

Bovidromus roussouwi Coineau, Theron et Fernandez, 2006: 67

Type locality: South Africa

Distribution: South Africa

Genus **Nannodromus** Fernandez, Coineau, Theron et Tiedt

Nannodromus Fernandez, Coineau, Theron & Tiedt, 2014: 19

Type species: *Nannodromus reveillei* Fernandez, Coineau, Theron et Tiedt, 2014

Nannodromus reveillei Fernandez, Coineau, Theron et Tiedt

Nannodromus reveillei Fernandez, Coineau, Theron & Tiedt, 2014: 19

Type locality: Kruger National Park, N'Wanetsi: S24°27'30.56", E31°58'35.30"

Distribution: South Africa

Genus **Rhinodromus** Coineau, Theron et Fernandez

Rhinodromus Coineau, Theron & Fernandez, 2006: 73

Type species: *Rhinodromus lootsi* Coineau, Theron et Fernandez, 2006

Rhinodromus lootsi Coineau, Theron et Fernandez

Rhinodromus lootsi Coineau, Theron & Fernandez, 2006: 73

Type locality: South Africa

Distribution: South Africa

Genus **Saxidromus** Coineau

Saxidromus Coineau, 1974: 1060

Type species: *Saxidromus delamarei* Coineau, 1974

Saxidromus annahoffmannae Lopes-Campos

Saxidromus annahoffmannae Lopes-Campos, 1996: 215

Type locality: Veracruz

Distribution: Mexico

Saxidromus caribeus Palacios-Vargas et Prieto

Saxidromus caribeus Palacios-Vargas & Prieto, 1995: 213

Type locality: Santiago de las Vegas, Habana region

Distribution: Cuba

Saxidromus delamarei Coineau

Saxidromus delamarei Coineau, 1974: 1060; Coineau & Naudou, 1986: 303; Ueckermann, 1989: 227

Type locality: Banyuls-sur-Mer, Eastern Pyrenees

Distribution: France

Saxidromus knoeppfleri Coineau*Saxidromus knoeppfleri* Coineau, 1974: 1061; Ueckermann, 1989: 227

Type locality: Ermelo Road, Melspruit, Transvaal

Distribution: South Africa

Index of Adamystidae

(Names in **bold** are accepted as valid)**Adamystidae** 333**Adamystinae** 333**Adamystis** 334**Adamystoidea** 333*alvandicus*, **Adamystis** 334*annahoffmannae*, **Saxidromus** 337*beckyanneae*, **Adamystis** 334**Bovidromus** 336*buchelis*, **Adamystis** 334*caribeus*, **Saxidromus** 337*coineaui*, **Adamystis** 334*delamarei*, **Saxidromus** 337*donnae*, **Adamystis** 334*doumengei*, **Adamystis** 334*ekaterinae*, **Adamystis** 334*fonsi*, **Adamystis** 334*iranoturanianensis*, **Adamystis** 335*knoepfleri*, **Saxidromus** 338*lootsi*, **Rhinodromus** 337*monomaculata*, **Adamystis** 335**Nannodromus** 337*nudis*, **Adamystis** 335*oculeusis*, **Adamystis** 335*pesrsiangulfensis*, **Adamystis** 335*reveilleti*, **Nannodromus** 337**Rhinodromus** 337*roussouwi*, **Bovidromus** 336*saboorii*, **Adamystis** 335*sarae*, **Adamystis** 335*sartorum*, **Adamystis** 335**Saxidromidae** 336**Saxidrominae** 336**Saxidromoidea** 333**Saxidromus** 337*thailandensis*, **Adamystis** 336*theroni*, **Adamystis** 336*trimaculata*, **Adamystis** 336*ueckermanni*, **Adamystis** 336*yvesi*, **Adamystis** 336

Distribution of Adamystidae

EUROPE**France** (Coinneau, 1974) – *Adamystis fonsi*, *Saxidromus delamarei***Ukraine** (Pogrebnjak, 2007) – *Adamystis fonsi***AFRICA****South Africa** (Coinneau, 1974; Ueckermann, 1989; Coinneau, Theron & Fernandez, 2006; Fernandez, Coinneau, Theron & Tiedt, 2014) – *Adamystis buchelis*, *A. doumengei*, *A.*

monomaculata, *A. nudis*, *A. oculensis*, *A. trimaculata*, *A. yvesi*, *Bovidromus roussouwi*, *Nannodromus reveilleti*, *Rhinodromus lootsi*, *Saxidromus knoeppfleri*

ASIA

Iran (Beyzavi, Ueckermann & Ostovan 2012; Fuangarworn, Beyzavi & Ostovan, 2012; Khanjani, Alvandy, Asalifayaz & Ueckermann, 2012; Paktinat-Saeij et al., 2019; Paktinat-Saeij & Kazemi, 2021) – *Adamystis alvandicus*, *A. ekaterinae*, *A. iranoturaniensis*, *A. persiangulfensis*, *A. saboorii*, *A. theroni*, *A. ueckermanni*

Japan (Shiba, 1999) – *Adamystidae* gen. sp.

Pakistan (Rafalski, 1982) – *Adamystis coineau*

Tadjikistan (Barilo, 1986) – *Adamystis sartorum*

Thailand (Fuangarworn & Lekprayoon, 2010) – *Adamystis thailandensis*

Uzbekistan (Barilo, 1986) – *Adamystis sartorum*

NORTH AMERICA

Mexico (López-Campos, 1996) – *Saxidromus annahoffmannae*

United States (Cunliffe, 1957; Hunter & Crossley, 1968; McDaniel & Bolen, 1983) – *Adamystis beckyanneae*, *A. donnae*, *A. sarae*

Hawaii (Swift, 2000) – *Adamystidae* gen. sp.

CENTRAL and SOUTH AMERICA

Cuba (Palacios-Vargas & Prieto, 1995) – *Saxidromus caribeus*

French Antilles (Saint-Martin)(Coineau, 1979) – *Adamystidae* gen. sp.

OCEANIA

Australia (Walter & O'Dowd, 1995) – *Adamystidae* gen. sp.

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The mite Superfamily Pomerantzioidea

The subfamily contains only one family – Pomerantziidae.

The mite Family Pomerantziidae

Small family (six known species), established by Baker (1949) for one species, found In Georgia (USA). Price (1971, 1974, 1975) added new species from the USA. Quing-Hai Fan & Yan Chen (2005) revised the family and separated two of the species of Price in a new genus *Apomerantzia*. One new species (*Pomerantzia subterranea*) was found in deep humus in Fuzhou, China, another one (*Pomerantzia philippina* Bochkov et Walter, 2007) – in the Philippines.

Catalogue of Pomerantziidae

Family Pomerantziidae

Pomerantziidae Baker, 1949: 269

Type genus: *Pomerantzia* Baker, 1949

Genus *Apomerantzia* Quing-Hai Fan et Yan Chen

Apomerantzia Quing-Hai Fan & Yan Chen, 2005: 8

Type species: *Pomerantzia prolata* Price, 1971

***Apomerantzia kethleyi* (Price)**

Pomerantzia kethleyi Price, 1975: 487; Kethley, 1989: 101

Apomerantzia kethleyi (Price): Quing-Hai Fan & Yan Chen, 2005: 7

Type locality: Indiana, Lake Co., St. John

Distribution: USA (Indiana, Illinois, Minnesota)

***Apomerantzia prolata* (Price)**

Pomerantzia prolata Price, 1971: 395

Apomerantzia prolata (Price): Quing-Hai Fan & Yan Chen, 2005: 5

Type locality: California, Nevada Co.

Distribution: USA (California)

Genus *Pomerantzia* Baker

Pomerantzia Baker, 1949: 269

Type species: *Pomerantzia charlesi* Baker, 1949

***Pomerantzia benhami* Price**

Pomerantzia benhami Price, 1974: 425

Type locality: California, Fresno Co.

Distribution: USA (California)

***Pomerantzia charlesi* Baker**

Pomerantzia charlesi Baker, 1949: 269; Price, 1974: 420

Type locality: Upson County, Georgia

Distribution: USA (Georgia)

***Pomerantzia philippina* Bochkov et Walter**

Pomerantzia philippina Bochkov & Walter, 2007: 159

Type locality: Romblon Prov., Sibuyan Isl, Magdiwang, beach near of Puto Point, 12°26'N, 122°41'E, soil

Distribution: the Philippines

***Pomerantzia subterranea* Quing-Hai Fan et Yan Chen**

Pomerantzia subterranea Quing-Hai Fan & Yan Chen, 2005: 8

Type locality: Fuzhian

Distribution: China

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

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benhami, *Pomerantzia* 342
charlesi, *Pomerantzia* 342
kethleyi, *Apomerantzia* 342
kethleyi, *Pomerantzia* 342
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Distribution of Pomerantziidae

ASIA

China (Quing-Hai Fan & Yan Chen, 2005) – *Pomerantzia subterranea*

Philippines (Bochkov & Walter, 2007) – *Pomerantzia philippina*

NORTH AMERICA

United States (Baker, 1949; Price, 1971, 1974, 1975; Price & Benham, 1976) – *Apomerantzia kethleyi*, *A. prolata*, *Pomerantzia benhami*, *P. charlesi*

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The series Acarorum Catalogus – supplementa and corrigenda in the former volumes

In the period of 14 years (2008 - 2021) of publication of my 9 volumes of the series Acarorum Catalogus, the fast development of the Acarology brought to light many new taxa of Acari and many other mites have been re-arranged or synonymized. This task requires a supplement to the published volumes (one, concerning Vol.I, has been already published). These supplements will be certainly followed by many other changes, but it would be proper to fix by 2021 the situation within the 97 families of mites considered in the series.

First update of Volume I:

- Beron P. 2017.** Acarorum Catalogus I Acariformes: Calyptostomatoidea (Calyptostomatiidae), Erythraeoidea (Smarididae, Erythraeidae). Pensoft & Nat. Mus. Natur. Hist. Sofia: supplement 1. - Historia naturalis bulgarica, 24: 131 – 154.

Second update (2017 – 2021)

Beron P. 2008. *Acarorum Catalogus I Acariformes: Calyptostomatoidea (Calyptostomatidae), Erythraeoidea (Smarididae, Erythraeidae)*. Pensoft & Nat. Mus. Natur. Hist. Sofia: 271 pp.

Introduction

Many specialists from Poland, Montenegro, Iran, Turkey, China, Brazil, and other countries added new information to the knowledge on these groups. As a result of the recent contributions, the number of genera and species in Calyptostomatoidea and Erythraeoidea (some of them of uncertain status) is updated as follows:

Calyptostomatoidea

Calyptostomatidae – one genus, ten species

Erythraeoidea

Smarididae – 10 genera, 59 species

Erythraeidae – 57 genera, ca. 890 species

New contributions to the Catalogue:

Fam. **Calyptostomatidae**

Calyptostoma seemani Masoumi et Saboori

Calyptostoma seemani Masoumi & Saboori, 2020: 1823

Type locality: Kandovan region, Alborz province

Distribution: Iran

Erythraeoidea

Fam. **Smarididae**

Unlike most terrestrial parasitengone mites (chiggers, erythraeids), known mostly from parasitic and easy-to-collect larvae, smaridid systematics are mainly based on the post larval instar (Dos Santos, Welbourn, Klimov & Pepato, 2021).

Clavismaris maquine Ott et Ott

Clavismaris maquine Ott & Ott, 2018: 2

Type locality: Atlantic forest area at FEPAGRO Maquiné, Rio Grande do Sul

Distribution: Brazil

Hirstiosoma baenai (Mayoral & Barranco, 2017) in place of *Sphaerotarsus baenai* Mayoral & Barranco, 2017 (Dos Santos et al., 2021)

Hirstiosoma quercus (Yazdanpanah, Saboori & Hakimitabar, 2016) in place of *Sphaerotarsus quercus* Yazdanpanah, Saboori & Hakimitabar, 2016 (Dos Santos et al., 2021)

Sphaerotarsus sadafae Amin, Khanjani et Nadri

Sphaerotarsus sadafae Amin, Khanjani & Nadri, 2020: 1965

Type locality:

Distribution: Iran

Genus ***Southcottiana*** Dos Santos, Welbourn, Klimov et Pepato

Southcottiana Dos Santos, Welbourn, Klimov & Pepato, 2021: 104

Type species: *Sphaerotarsus monticolus* Southcott, 1997

Southcottiana monticola (Southcott)

Sphaerotarsus monticolus Southcott, 1997: 6

Southcottiana monticola (Southcott, 1997): Dos Santos, Welbourn, Klimov & Pepato, 2021: 104

Type locality: Mt. Lofty, S. Australia

Distribution: Australia (S. Australia)

Trichosmaris calcarensis Dos Santos, Welbourn, Klimov et Pepato

Trichosmaris calcarensis Dos Santos, Welbourn, Klimov & Pepato, 2021: 108

Type locality: cave, 5 km E Pain Municipality, Minas Gerais

Distribution: Brazil

Trichosmaris paulensis Dos Santos, Welbourn, Klimov et Pepato

Trichosmaris paulensis Dos Santos, Welbourn, Klimov & Pepato, 2021: 112

Type locality: Americana Municipality, São Paulo State

Distribution: Brazil

According to Dos Santos, Welbourn, Klimov & Pepato (2021), ***Surasmaris*** Southcott, 1995 is a junior synonym of ***Trichosmaris*** Southcott, 1963 and *Surasmaris longirostris* Southcott, 1995 becomes ***Trichotarsus longirostris***.

Fam. **Erythraeidae**

Erythraeinae

Collemboerythraeus izadpanahi Noei, Sabbori, Sedghi et Hakimitabar

Collemboerythraeus izadpanahi Noei, Sabbori, Sedghi & Hakimitabar, 2017: 2

Type locality: Simkan region, Jahrom city, Fars province

Distribution: Iran

Host: Collembola: Sminthuridae

Curteria duzgunesae (Saboori, Çobanoğlu et Bayram, 2007) – recorded on *Uroleucon* sp. (Homoptera: Aphidae) by Oner et al. (2021).

Erythraeus (E.) ankaraicus Saboori, Çobanoğlu et Bayram, 2007 - recorded also on *Uroleucon aeneum*, *U. sonchi*, *Aphis craccivora*, *A. nerii*, *Aulacorthum solani*, *Brachycaudus* sp., *Hyperomyzus lactucae*, *Macrosiphoniella sanborni* (Homoptera: Aphidae) by Oner et al. (2021).

Erythraeus (E.) cinereus (Dugès) – Montenegro (Haitlinger & Šundić, 2018a)

Erythraeus (E.) hubeiensis Xu, Yi, Guo et Jin

Erythraeus (E.) hubeiensis Xu, Yi, Guo & Jin, 2019: 55

Type locality: Qizimeishan National Natural Reserve, Hubei Province

Distribution: China

Host: Typhlocybini (Cicadellidae: Typhlocybinae)

Erythraeus (E.) moeritzensis Haitlinger, 2007 – Albania (Haitlinger & Šundić, 2018a)

Erythraeus (E.) southcotti Goldarazena et Zhang, 1998 - Albania (Haitlinger & Šundić, 2018a)

Erythraeus (E.) regalis (C. L. Koch, 1837) – Montenegro, Greece (Lesbos) (Haitlinger & Šundić, 2018a)

Erythraeus (E.) phalangoides (De Geer, 1778) - new for Turkey, recorded on *Myzus* sp., *Sitobion* sp. and *Urocyon sonchi* (Homoptera: Aphidae) by Oner et al. (2021)

E. (E.) uhadi Kamran et Alatawi, 2014 – new for Turkey, recorded on *Uroleucon sonchi* (Homoptera: Aphidae) by Oner et al. (2021).

Erythraeus (Parerythraeus) thomasi Roland et Gabryś

Erythraeus (Parerythraeus) thomasi Roland & Gabryś, 2020: 326

Type locality: Biogeographic province: Varsinais-Suomi, loc.:670:25 V, Kaarina Kuusiston Kartano, Kuiva keto

Distribution: Finland

Note: the subgenus *Parerythraeus* is reinstalled as subgenus, out of synonymy with *Erythraeus*, by Roland & Gabryś (2020).

Erythraeus (Zaracarus) coleopterus Mortazavi, Hajikanbar et Saboori, 2012 - new for Turkey, recorded on *Uroleucon sonchi* (Homoptera: Aphidae) by Oner et al. (2021).

E. (Z.) iranicus Saboori et Akrami, 2001 - new for Turkey, recorded on *Uroleucon sonchi* and *Aphis nerii* (Homoptera: Aphidae) by Oner et al., (2021).

E. (Z.) kurdistanensis Khanjani et Ueckermann, 2005 - new for Turkey, recorded on *Brachycaudus tragopogonis*, *Hyperomyzus lactucae* and *Uroleucon sonchi* (Oner et al., 2021)

E. (Zaracarus) hainanensis Xu, Yi, Guo et Jin

E. (Zaracarus) hainanensis Xu, Yi, Guo & Jin, 2019: 64

Type locality: Bawangling National Natural Reserve, Hainan Province

Distribution: China (Hainan)

Host: planthoppers (Hemiptera: Delphacidae)

Erythraeus (Zaracarus) lancifer Southcott, 1995 – Albania (Haitlinger & Šundić, 2018a: 1199)

Erythraeus (Zaracarus) ueckermanni is considered a valid species and not a synonyme of *E. budapestensis* by Saboori & Shirvani (2021)

Lasioerythraeus jessicae Dos Santos Costa

Lasioerythraeus jessicae Dos Santos Costa 2019: 184

Type locality: 19°05'46.0"S, 43°21'25.0"W, in an iron ore terrain cave, Conceição do Mato Dentro municipality, Minas Gerais State

Distribution: Brazil

Leptinae

Leptus (Leptus) andongensis Hakimitabar, Joharchi et Jung

Leptus (L.) andongensis Hakimitabar, Joharchi & Jung, 2020: 1

Type locality: Andong

Distribution: S. Korea

Host: *Meimuna* sp. (Insecta: Homoptera: Cicadidae)

Leptus (Leptus) brasilius Haitlinger, Šundić et Pompermaier

Leptus (Leptus) brasilius Haitlinger, Šundić & Pompermaier. 2017: 874

Type locality: 30 km northeast of Brasilia

Distribution: Brazil

Leptus (Leptus) cameroonicus Haitlinger, Šundić et Nkwala*Leptus (L.) cameroonicus* Haitlinger, Šundić & Nkwala, 2020: 608

Type locality: forest reserve of the town Mbalmayo (3°28'34.218" N; 11°29'37.416E)

Distribution: Cameroon

Host: *Eyprepocinemis plorans ibandana* (Orthoptera: Acrididae)***Leptus (Leptus) candangus*** Šundić, Haitlinger et Pompermaier*Leptus candangus* Šundić, Haitlinger & Pompermaier, 2017: 90

Type locality: Serrado-Pianaltinade (pitfall traps)

Distribution: Brazil

Leptus (Leptus) chingombensis Bernard, Felska et Makol*Leptus (Leptus) chingombensis* Bernard, Felska & Makol, 2019: 794

Type locality: Mikwa stream, Michinga Escarpment, 1160 m

Distribution: Zambia

Hosts: *Heliaeschna fuliginosa* (Odonata: Aeschnidae), *Orthetrum julia* (Libellulidae),
Paragomphus cognatus (Gomphidae), *Pseudagrion spernatum* (Coenagrionidae)***Leptus (Leptus) darvishi*** Saboori, Hakimitabar et Khademi*Leptus (Leptus) darvishi* Saboori, Hakimitabar & Khademi, 2018: 95

Type locality: Komaijan and Mahallat cities, Markazi Province

Distribution: Iran

Host: undetermined grasshoppers (Orthoptera: Acrididae) and undetermined beetles
(Coleoptera: Buprestidae and Tenebrionidae)***Leptus (Leptus) flechtmanni*** Bassini-Silva, Jacinavicius et Barros-Battesti*Leptus (L.) flechtmanni* Bassini-Silva, Jacinavicius & Barros-Battesti, 2020: 2

Type locality: Serra dos Carajás, Parauapebas, Pará, Brazil, (6° 6'29"S, 50° 18'16"W)

Distribution: Brazil

Host: Unidentified opilion (Opiliones: Cosmetidae)

Leptus (Leptus) grancanaricus Haitlinger et Šundić*Leptus (Leptus) grancanaricus* Haitlinger & Šundić, 2020: 836

Type locality: Gran Canaria, Tejada: Mirador de Timagada, altitude 1,258 m

Distribution: Canary Islands

Host: *Herpisticus guanarteme* (Coleoptera: Curculionidae)***Leptus (L.) guarani*** Haitlinger, Šundić, Ázara et Bernardi*Leptus (L.) guarani* Haitlinger, Šundić, Ázara & Bernardi, 2020: 1923

Type locality: State Parana, Morretes

Distribution: Brazil

Hosts: *Acanthogonyleptes editus* (Opiliones: Gonyleptidae)

Leptus (L.) haitlingeri Jacinavicius, Bassini-Silva et Barros-Battesti

Leptus (L.) haitlingeri Jacinavicius, Bassini-Silva & Barros-Battesti, 2018: 975; Bassini-Silva et al., 2020: 8

Type locality: Serra da Cantareira, São Paulo municipality, State of São Paulo

Distribution: Brazil

Hosts: *Fidena (Fidena)* sp. (Diptera: Tabanidae); *Panstrongylus megistus* (Hemiptera: Reduviidae), *Dysdercus* sp. (Hemiptera: Pyrrhocoridae), *Obiricodesmus rosascens* (Diplopoda, Polydesmida: Chelodesmidae)

Leptus (Leptus) machadoi Haitlinger et Šundić

Leptus (Leptus) machadoi Haitlinger & Šundić, 2020: 839

Type locality: Fuerteventura, Jandia, Pico de la Zarza, 807 m

Distribution: Canary Islands

Host: *Laparocerus maxorata* (Coleoptera: Curculionidae)

Leptus (Leptus) mariae – *Drosophila subobscura* (Diptera: Drosophilidae)
(Haitlinger & Šundić, 2018a: 1199)

Leptus (Leptus) molochinus – new for Slovakia (Haitlinger & Šundić, 2021)

Leptus (Leptus) planaltensis Haitlinger, Šundić et Pompermaier

Leptus planaltensis Haitlinger, Šundić & Pompermaier, 2017: 879

Type locality: Brazil

Distribution: Brazil

Leptus (Leptus) pouryayevalii Hakimitabar, Saboori et Fadaei

Leptus pouryayevalii Hakimitabar, Saboori & Fadaei, 2021: 138

Type locality: Koushk Bala Village, Alborz Prov., Chalous road, Karaj, 1824 m

Distribution: Iran

Host: shaking the leaves of weeds

Leptus (L.) sidorchukae dos Santos Costa

Leptus (L.) sidorchukae dos Santos Costa, 2019: 159

Type locality: 19°34'36.0"S, 44°01'13.0"W, in an unnamed limestone cave, Pedro Leopoldo municipality, Minas Gerais State

Distribution: Brazil

Leptus sp. on *Chrysops brunneus* and *Hybomitra lasiophthalma* (Diptera: Tabanidae, Canada)(Mullen et al., 1989)

Abrolophinae

Abrolophus bochkovi Hakimitabar, Saboori et Fadaei*Abrolophus bochkovi* Hakimitabar, Saboori & Fadaei, 2020: 108

Type locality: Qazvin province

Distribution: Iran

Abrolophus diaoluoensis Xu et Jin*Abrolophus diaoluoensis* Xu & Jin, 2021: 24

Type locality: Hainan, Diaoluoshan National Natural Reserve

Distribution: China (Hainan)

Abrolophus hajikanbar Noei*Abrolophus hajikanbar* Noei, 2022: 226

Type locality: Chahardeh and Chahkand villages, Birjand, South Khorasan province

Distribution: Iran

Abrolophus karamani Haitlinger et Šundić (syn.)*Abrolophus karamani* Haitlinger & Šundić, 2019: 108; the species is considered as a junior synonym of *A. aitapensis* (Southcott 1948) (Hakimitabar, Saboori & Fadaei, 2020b).

Type locality: Port Louis

Distribution: Guadeloupe

Abrolophus marianopolicus Haitlinger et Šundić*Abrolophus marianopolicus* Haitlinger & Šundić, 2018b: 354.

Type locality: 5 km north of Marianopoli (prov. Caltanissetta)

Distribution: Sicily

Abrolophus poljankensis Haitlinger et Šundić*Abrolophus poljankensis* Haitlinger & Šundić, 2021: 39

Type locality: Nižna Poljanka n. Bardejov (Slovakia)

Distribution: Poland, Slovakia

Abrolophus quisquiliarus (Hermann, 1804) – Albania (Haitlinger & Šundić, 2018a: 1202); Canary Islands (La Gomera) (Haitlinger, 2019, first finding in Canaries and Africa)***Abrolophus wratislaviensis*** (Haitlinger, 1986) – Calabria, Sicily (Haitlinger & Šundić, 2018a)***Abrolophus zelandicus*** Luxton*Abrolophus zelandicus* Luxton, 1989: 416; 1990: 398

Type locality: Auckland, Nelson (on a sea shore)

Distribution: New Zealand

Marantelophus iranicus (Haitlinger et Saboori, 1996) – Albania ((Haitlinger & Šundić, 2018a: 1199)

Charletonia elbasani Šundić, Haitlinger et Milosević

Charletonia elbasani Šundić, Haitlinger & Milosević, 2017: 564

Type locality: Elbasan

Distribution: Albania

Host: on grasses

Charletonia kalithensis Haitlinger, 2006 – Albania, Montenegro (Haitlinger & Šundić, 2018a: 1199)

Charletonia braunsi (Oudemans, 1910) – Cameroon (Haitlinger, Šundić & Nkwala, 2020)

Callidosomatinae

Caeculisoma allopenlineatus Xu et Jin

Caeculisoma allopenlineata Xu & Jin, 2020: 286

Type locality: Diaoluoshan National Natural Reserve, Hainan Province

Distribution: China

Hosts: Hemiptera: Cicadellidae, Delphacidae

Caeculisoma penlineatus Xu et Jin

Caeculisoma penlineatus Xu & Jin, 2019c: 511; Xu et al., 2020: 295

Type locality: Chongqing Municipality

Distribution: China (Chongqing Municipality, Guizhou Prov., Hainan Prov.)

Hosts: *Mileewa margheritae* (Hemiptera: Cicadellidae), Gen. sp. (Hem.: Delphacidae)

Caeculisoma semispinus Xu et Jin

Caeculisoma semispinus Xu & Jin, 2019d: 561

Type locality: Qizimeishan National Reserve, Hubei Province

Distribution: China

Host: *Shaddai* sp. (Hemiptera: Cicadellidae)

Dambullaeus adonis Makol et Moniuszko

Dambullaeus adonis Makol & Moniuszko, 2014: 5

Type locality: Western Madagascar

Distribution: Madagascar

Host: *Latois nigrolineata* (Hemiptera: Fulgoromorpha: Flatidae)

Dambullaeus hainanensis Xu et Jin

Dambullaeus hainanensis Xu & Jin, 2019: 456

Type locality: Hainan

Distribution: China

Dambullaeus jianfengensis Xu et Jin

Dambullaeus jianfengensis Xu & Jin, 2020: 297

Type locality: Jianfengling National Natural Reserve, Hainan Province

Distribution: China (Hainan)

Iguatonia seemani Xu et Jin

Iguatonia seemani Xu & Jin, 2020: 306

Type locality: Jianfengling National Natural Reserve, Hainan Province

Distribution: China (Hainan)

Iguatonia xinfengi Xu et Jin

Iguatonia xinfengi Xu & Jin, 2020: 315

Type locality: Jianfengling National Reserve, Hainan Province

Distribution: China (Hainan)

Balaustiinae

Balaustium akramii Noei

Balaustium akramii Noei, 2017: 2218; Oner et al., 2021: 2

Type locality: Sari city, Mazandaran province, Iran

Distribution: Iran, Turkey

Host: *Uroleucon sanchi* (Homoptera: Aphidae)

Balaustium izmirensis Noei et Ersin

Balaustium izmirensis Noei & Ersin, 2019: 31

Type locality: Bornova, Izmir

Distribution: Turkey

Balaustium medicagoense Meyer et Ryke, 1959 – new for New Zealand (Xu & Zhang, 2019)

Balaustium ryszardi Šundić et Noei

Balaustium ryszardi Šundić & Noei, 2021: 2609

Type locality: Peloponese

Distribution: Greece

Distribution of Calyptostomatoidea and Erythraeoidea (suppl.)

EUROPE

- Albania** (Šundić, Haitlinger & Milošević, 2017; Haitlinger & Šundić, 2018a) - *Abrolophus quisquiliarius*, *Charletonia elbasani*, *Erythraeus* (*Zaracarus*) *lancifer*, *E. (E.) moeritzensis*, *E. (E.) southcotti*, *Marantelophus iranica*, *Charletonia kalithensis*
- Finland** (Roland & Gabryś, 2020) – *Erythraeus* (*Parerythraeus*) *thomasi*
- Greece** (Haitlinger & Šundić, 2018a; Šundić & Noei, 2021) – *Balaustium ryszardi*, *Abrolophus anzelmi*, *A. petanovicae*, *A. wratislaviensis*, *Erythraeus* (*E.*) *regalis*
- Hungary** (Haitlinger & Šundić, 2018) - *Charletonia cardinalis*, *Moldoustium baltiensis*
- Italy** (Haitlinger & Šundić, 2018a) - *Abrolophus wratislaviensis*, *A. anzelmi*, *A. dagmarae*
- Sicily** (Haitlinger & Šundić, 2018b) - *Abrolophus marianopolicus*, *A. wratislaviensis*
- Montenegro** (Haitlinger & Šundić, 2018a) - *Erythraeus* (*E.*) *cinereus*, *E. (E.) regalis*, *Charletonia kalithensis*
- Poland** (Haitlinger & Šundić, 2021) – *Abrolophus poljankus*
- Slovakia** (Haitlinger & Šundić, 2021) - *Abrolophus poljankus*, *Leptus molochinus*
- Turkey** (Gencsoylu, 2007; Noei et al., 2017; Noei, Ersin & Çakmak, 2019; Oner et al., 2021) – *Balaustium akrami*, *B. izmirensis*, *E. (E.) phalangoides*, *E. (E.) uhadi*, *E. (Zaracarus) coleopter*, *E. (Z.) iranica*, *E. (Z.) kurdistanensis*, *Charletonia krendowskyi*

AFRICA

- Canary Islands** (Haitlinger, 2019, Haitlinger & Šundić, 2020) - *Leptus* (*Leptus*) *grancanarius*, *L. (L.) machadoi*, *Abrolophus quisquiliarius*
- Cameroon** (Haitlinger, Šundić & Nkwala, 2020) – *Leptus cameronicus*
- Madagascar** (Makol et al., 2014) – *Dambullaeus adonis*
- Zambia** (Bernard, Felska & Makol, 2019) – *Leptus* (*L.*) *chingombensis*

ASIA

- China** (Xu, Yi, Guo & Jin, 2019a, b, c, d, 2020, 2021) – *Abrolophus diaoluensis*, *Caeculisoma allopenlineatus*, *C. penlineatus*, *C. semispinus*, *Dambullaeus jianfengensis*, *Erythraeus* (*E.*) *hubeiensis*
- Hainan** (Xu, Yi, Guo & Jin, 2020) - *Caeculisoma penlineatus*, *Erythraeus* (*Z.*) *hainanensis*, *Dambullaeus hainanensis*, *Iguatonia seemani*, *I. xinfengi*
- India** (Gupta et al., 2004; Gupta A. et al., 2006) - Erythraeidae
- Iran** (Noei et al., 2017; Noei, Maroufpoor, Faizi & Ostovan, 2017; Noei & Asadollahzadeh et al., 2017; Saboori et al., 2018; Hakimitabar, Saboori & Saaveh, 2018; Noei, Saboori, Sedghi & Hakimitabar, 2018; Noei & Rabieh, 2019; Noei & Honarmand, 2020; Hakimitabar, Saboori & Fadaei, 2020, 2021; Masoumi, Saboori & Seiedy, 2020; Amin, Khanjani & Nadri, 2020; Saboori & Shirvani, 2021, Noei, 2022) – *Calyptostoma*

seemani; Smarididae: *Sphaerotarsus sadafae*; Erythraeidae: *Abrolophus bochkovi*, *Balaustium akrami*, *Collemboerythraeus izadpanahi*, *Leptus darwishi*, *L. pouryayevalii*

South Korea (Hakimitabar, Johardii & Jong, 2020) – *Leptus andongensis*

NORTH AMERICA

Canada (Mullen et al. 1989) – *Leptus* sp.

Mexico (Montiel-Parra & Pérez-Ortiz, 2007; Chaires-Grijalva et al., 2021) – *Leptus indianensis*, *L. lomani*, *L. onnae*, *L. ruginus*

SOUTH and CENTRAL AMERICA

Argentina (Cédola, Nolasco & Minardi, 2018) – *Balaustium* sp.

Bolivia (Torrico-Bazoberry et al., 2020) – *Leptus hringuri*

Brazil (Pinto et al., 2014; Šundić et al., 2017; Ott & Ott, 2018; Jacinavicius, 2019; Haitlinger, Šundić & Pompermaier, 2017; Šundić, Haitlinger & Pompermaier, 2017; Guimarraes et al., 2019; Bassini-Silva et al., 2019, 2020; Haitlinger et al., 2020; Dos Santos et al., 2021) – Smarididae: *Clavismaris maquine*, *Trichosmaris calcarensis*, *T. paulensis*; Erythraeidae: *Leptus brasiliensis*, *L. candangus*, *L. guarani*, *L. flechtmanni*, *L. haitlingeri*, *L. planaltensis*, *L. simonetiae*,

Costa Rica (Dos Santos et al., 2021) – *Trichosmaris longirostris*

OCEANIA

Australia (Dos Santos et al., 2021) – *Southcottiana monticola*

New Zealand (Luxton, 1989, 1990; Xu & Zhang, 2020) – *Abrolophus zelandicus*, *Balaustium medicagoense*

Hosts

Arachnida

Opiliones

Fam. Cosmetidae

Acromares vittatum – *Leptus* ca. *indianensis*

Cynorta sp. – *Leptus ruginus*

Holovonones compressus – *Leptus ruginus*

Heterovonones incrassatus – *Leptus indianensis*

Vonones pelaezi – *Leptus ruginus*

Unidentified opilion – *Leptus flechtmanni*

Fam. Gonyleptidae

Acanthogonyleptes editus – *Leptus* (*Leptus*) *guarani*

Caldassius nigripes – *Leptus* sp.

Gonyleptes gonyleptoides – *Leptus* sp.

Moreiranula mamillata - *Leptus* sp.

Fam. Stygnopsidae

Paramitraceras granulatus - *Leptus ruginus*

Fam. Sclerosomatidae

Metopilio sp. - *Leptus ruginus*

Leiobunum nycticorpum - *Leptus ruginus*

Paranelima sp. - *Leptus ruginus*

Prionostemma sp. - *Leptus ruginus*, *L. nr. indianensis*

Krusa sp. - *Leptus ruginus*

Scorpiones

Fam. Buthidae

Centruroides limpidus limpidus - *Leptus ruginus*

Fam. Caraboctonidae

Hadrurus gerstchi - *Leptus ruginus*

Fam. Vejovidae

Vejovis mexicanus - *Leptus* sp.

Vejovis spinigerus - *Leptus* sp.

Vejovis variegatus - *Leptus ruginus*

Amblypygi

Fam. Phryniidae

Phrynus garridoi - *Leptus onnae*

Paraphrynus pococki - *Leptus onnae*

Araneae

Fam. Filistatidae

Kukulcania sp. - *Leptus ca. indianensis*

Ixodida

Fam. Argasidae

Ornithodoros sp. - *Leptus (Leptus) simonettae*

Myriapoda

Diplopoda - Polydesmida

Fam. Chelodesmidae

Obiricodesmus rosascens - *Leptus haitlingeri*

Insecta s.l.

Collembola

Fam. Sminthuridae - *Collemborythraeus izadpanahi*

Odonata

Fam. Aeschnidae

Heliaeschna fuliginosa - *Leptus (Leptus) chingombensis*

Fam. Gomphidae

Paragomphus cognatus - *Leptus (Leptus) chingombensis*

Fam. Libellulidae*Orthetrum julia* - *Leptus (Leptus) chingombensis***Fam. Coenagrionidae***Pseudagrion spernatum* - *Leptus (Leptus) chingombensis***Orthoptera****Fam. Acrididae***Eyrepocinemis plorans ibandana* – *Charletonia braunsi*, *C. cameroonensis*,
C. justinae, *Leptus cameroonicus**Zonocerus variegatus* – *Charletonia cameroonensis***Hemiptera Heteroptera****Fam. Reduviidae***Panstrongylus megistus* – *Leptus haitlingeri***Fam. Pyrrhocoridae***Dysdercus* sp. - *Leptus haitlingeri***Hemiptera****Fam. Cicadellidae***Mileewa margheritae* – *Caeculisoma penlineatus**Shaddai* sp. – *Caeculisoma semispinus***Fam. Delphacidae**Gen. sp. - *Caeculisoma penlineatus***Fam. Cicadidae***Meimuna* sp. - *Leptus (L.) andongensis***Fam. Membracidae***Alchisme grossa* - *Leptus hringuri***Fam. Flatidae***Latois nigrolineata* - *Dambullaeus adonis***Homoptera****Fam. Aphididae***Uroleucon (U.) sonchi* - *Balaustium akrami*, *Erythraeus ankaraicus*, *E. uhadi*,
E. (Z.) coleopterus, *E.(Z.) iranicus*, *E.(Z.) kurdistaniensis**Uroleucon (U.) aeneum* - *Erythraeus ankaraicus**Uroleucon* sp. – *Curteria duzgunesae**Aphis craccivora* - *Erythraeus ankaraicus**A. nerii* - *Erythraeus ankaraicus*, *E.(Z.) iranicus**Aulacorthum solani* - *Erythraeus ankaraicus**Brachycaudus tragopogonis* – *Erythraeus (Z.) kurdistaniensis**Brachycaudus* sp. - *Erythraeus ankaraicus**Hyperomyzus lactucae* - *Erythraeus ankaraicus*, *Erythraeus (Z.) kurdistaniensis**Hyalopterus pruni* - *Erythraeus ankaraicus**Macrosiphoniella sanborni* – *Erythraeus ankaraicus**Myzus* sp. – *Erythraeus phalangoides*

Sitobion sp. - *Erythraeus phalangoides*

Coleoptera

Fam. Curculionidae

Herpisticus guanarteme – *Leptus grancanaricus*

Laparocerus maxorata - *Leptus machadoi*

Fam. Elateridae

Monocrepidius flavangulus - *Leptus* sp.

Glyphonyx flohri – *Leptus* sp.

Diptera

Fam. Tabanidae

Fidena (Fidena) sp. - *Leptus haitlingeri*

Chrysops brunneus – *Leptus* sp.

Hybomitra lasiophthalma – *Leptus* sp.

Fam. Drosophilidae

Drosophila subobscura – *Leptus mariae*

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- Xu Si-Yuan, Yi Tian-Ci, Guo Jian-Jun & Jin Dao-Chao. 2019c. A new species of larval *Caeculisoma* (Acari: Erythraeidae: Callidosomatinae) ectoparasitic on insects from China and a revised generic diagnosis. – Zootaxa, **4604**(3): 511 – 524, DOI: <https://doi.org/10.11646/zootaxa.4604.3.7>
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Update 2011 - 2021 to Vol. II

Beron P. 2011. Acarorum Catalogus. II. Acariformes Acaridida Listrophoroidea (Listrophoridae, Dromiciocoptidae, Myocoptidae, Chirodiscidae, Atopomelidae). Pensoft & Nat. Mus. Natur. Hist. Sofia: 263 pp.

Introduction

As a result of the recent contributions (mostly by A. Bochkov and co-authors), the number of genera and species in Listrophoroidea (some of them uncertain status) is updated as follows:

Listrophoridae – 24 genera, 177 species

Dromiciocoptidae – 1 genus, 3 species

Myocoptidae – 5 genera, 86 species

Chirodiscidae – 26 genera, 241 species

Atopomelidae – 44 genera, 413 species

Total 100 genera, 925 sp.

New contributions to the Catalogue:

Fam. Listrophoridae

Afrolistrophorus (Afrolistrophorus) laonastes Bochkov, Abramov et Hugot

Afrolistrophorus (Afrolistrophorus) laonastes Bochkov, Abramov & Hugot, 2011: 11

Type locality: Kammouane Province, 18 km north of Thakhek, near Ban Doy village,
17°33'26"N, 104°49'28"E, 140 m a. s. l.

Distribution: Laos

Host: *Laonastes aenigmamus* (Rodentia: Diatomyidae)

Afrolistrophorus (Afrolistrophorus) hapalomys Bochkov et Abramov

Afrolistrophorus (Afrolistrophorus) hapalomys Bochkov & Abramov, 2014: 139

Type locality: Binh Phuoc Province, Bu Gia Map National Park, 13
km NE Bu Gia Map Village, 540 m a.l.s., 12°11'37"N, 107°12'21"E

Distribution: Vietnam

Host: *Hapalomys delacouri* Thomas (Rodentia, Muridae)

Afrolistrophorus (Afrolistrophorus) saxatilomys Bochkov, Abramov et Hugot

Afrolistrophorus (Afrolistrophorus) saxatilomys Bochkov, Abramov & Hugot, 2011: 14

Type locality: Kammouane Province

Distribution: Laos

Host: *Saxatilomys paulinae* (Rodentia: Muridae)

Amlistrophorus geoxus Sikora et Bochkov

Amlistrophorus geoxus Sikora & Bochkov, 2012: 390

Type locality: Los Lagos, Lago de Todoslos Santos, 41°06'S 72°12'W

Distribution: Chile

Host: *Geoxus valdivianus* (Rodentia: Cricetidae, Sigmodontinae)

Dubininetta abramovi Bochkov

Dubininetta abramovi Bochkov, 2017: 440

Type locality: 5 km east of Na Hang, Tuyen Quang Province, Vietnam; 22°20'59"N, 105°25'36"E

Distribution: Vietnam

Host: *Euroscaptor subanura* (Soricomorpha: Talpidae)

Dubininetta euroscaptor Bochkov

Dubininetta euroscaptor Bochkov, 2017: 438

Type locality: 14 km north of Kon Plong Town, Kon Plong District, Kon Tum Province, Vietnam; 14°43'20"N, 108°18'58"E

Distribution: Vietnam

Host: *Euroscaptor parvidens* (Soricomorpha: Talpidae)

Dubininetta taiwanensis (Fain & Lukoschus, 1978) – is recorded on *Mogera robusta* from the Far East of Russia by Bochkov (2017)

Leporacarus sylvilagi Fain, Whitaker et Lukoschus, 1981 on *Sylvilagus brasiliensis* (Linnaeus, 1758) (Lagomorpha: Leporidae) - on Minas Gerais and Rio Grande do Sul (Brazil)(Bochkov & Valim, 2016)

Lynxacarus (Lynxacarus) serrafreirei Bochkov et Valim

Lynxacarus (Lynxacarus) serrafreirei Bochkov & Valim, 2016: 30

Type locality: Rio de Janeiro

Distribution: Brazil

Host: *Galictis cuja* (Carnivora: Mustelidae)

Prolistrophorus akodon Fain and Lukoschus, 1982 from *Akodon montensis* from Argentina (Sikora & Bochkov, 2012).

Prolistrophorus amazonicus amazonicus Fain, 1971 – on *Calomys callosus* from Argentina and Bolivia, *C. laucha* and *C. musculinus* from Argentina (Sikora & Bochkov, 2012).

Prolistrophorus argentinus (Hirst, 1921) – on *Holochilus brasiliensis* and *H. chacarius* from Argentina (Sikora & Bochkov, 2012).

Prolistrophorus (Amlistrophorus) musculinus Fain, 1973 (formerly a subspecies of *P. amazonicus*) from *Mus musculus* (Rodentia: Muridae) from Suriname is raised to species status. The full generic status for the subgenus *Amlistrophorus* of the genus *Prolistrophorus* proposed by Fain et al., 1996 is not supported (Sikora & Bochkov, 2012).

P. nectomys Fain, 1971 – on *Nectomys palmipes* from Peru and *Melanomys caliginosus* from Panama (Sikora & Bochkov, 2012).

P. bidentatus Fain et Lukoschus, 1984 from *Akodon cursor* (Rodentia: Cricetidae) (new host-from Minas Gerais and Rio Grande do Sul, for the first time in Brazil) (Bochkov & Valim, 2016).

Prolistrophorus (Aprolistrophorus) parabidentatus Bochkov, Lareschi et Barreto
Prolistrophorus (Aprolistrophorus) parabidentatus Bochkov, Lareschi & Barreto, 2014: 590
 Type locality: Argentina
 Distribution: Argentina
 Host: *Akodon azarae* (Rodentia: Cricetidae, Sigmodontinae)

Prolistrophorus (Aprolistrophorus) tylomys Bochkov, Lareschi et Barreto
Prolistrophorus (Aprolistrophorus) tylomys Bochkov, Lareschi & Barreto, 2014: 592
 Type locality: Guatemala
 Distribution: Guatemala
 Host: *Tylomys nudicaudus* (Rodentia: Cricetidae)

Prolistrophorus (Beprolistrophorus) hirstianus Fain, 1973 from *Scapteromys aquaticus* from Argentina (Bochkov, Lareschi & Barreto, 2014)

Prolistrophorus (P.) argentinus (Hirst, 1921) – on *Holochilus brasiliensis* and *H. chacarius* from Argentina (Sikora & Bochkov, 2012); on *Melanomys caliginosus*, *Akodon affinis* from Colombia and *Scapteromys aquaticus* from Argentina (Bochkov, Lareschi & Barreto, 2014)

Prolistrophorus ctenomys Fain, 1970 on *Ctenomys torquatus* (Rodentia: Ctenomyidae) from Brazil (Bochkov & Valim, 2016)

Prolistrophorus (P.) grassii (Radford, 1954) on *Zygodontomys brevicauda* from Colombia (Bochkov, Lareschi & Barreto, 2014)

Prolistrophorus (Prolistrophorus) frontalis (Hirst, 1921) on *Oligoryzomys* sp. from Argentina (Bochkov, Lareschi & Barreto, 2014)

Prolistrophorus hylaeamys Bochkov et Valim

Prolistrophorus hylaeamys Bochkov & Valim, 2016: 27

Type locality: Minas Gerais

Distribution: Brazil

Host: *Hylaeamys laticeps* (Rodentia: Cricetidae, Sigmodontinae)

Prolistrophorus musculus Fain, 1973 (formerly a subspecies of *P. amazonicus*) from *Mus musculus* (Rodentia: Muridae) from Suriname is raised to species status (Sikora & Bochkov, 2012)

Pteromychirus menetes Bochkov, Abramov et Hugot

Pteromychirus menetes Bochkov, Abramov & Hugot, 2011: 17

Type locality: Kammouane Province, 18 km north of Thakhek, near Ban Doy village, 17°33'26"N, 104°49'28"E, 140 m a. s. l.

Distribution: Laos

Host: *Menetes berdmorei* (Rodentia: Sciuridae)

Sclerolistrophorus oxymycteris Fain, 1976 – on *Oryzomys laticeps* from Brazil (Sikora & Bochkov, 2012)

Fam. **Myocoptidae**

Genus ***Apocalyptoides*** Bochkov

Apocalypsis Bochkov, 2010: 148 (praeoccupied name, not Butler, 1876, Lepidoptera).

Apocalyptoides Bochkov, 2016b: (replacement name)

Type species *Criniscansor* [not *Gliricoptes* !] *allactaga* Fain et Lukoschus, 1979

Apocalyptoides allactaga (Fain et Lukoschus)

Criniscansor [not *Gliricoptes*] *allactaga* Fain et Lukoschus, 1979: 236

Apocalypsis allactaga (Fain et Lukoschus): Bochkov, 2010: 148

Apocalyptoides allactaga (Fain et Lukoschus): Bochkov, 2016b:

Type locality: Char-nur

Distribution: Mongolia

Host: *Allactaga sibirica* (Rodentia: Dipodidae)

Criniscansor congolensis Fain, 1970 – on *Grammomys macmillani* from Tanzania (Bochkov, OConnor & Skoracki, 2016)

Gliricoptes graphiuri Fain, 1970 is synonymised with ***G. vulcanorum*** Fain, 1970 by Bochkov, OConnor & Skoracki, 2016

Gliricoptes vulcanorum Fain, 1970 in Tanzania (Bochkov, OConnor & Skoracki, 2016)

Myocoptes (M.) grammomys Fain, 1970 – on *Grammomys dryas* from Burundi and Uganda (Bochkov, OConnor & Skoracki, 2016)

Myocoptes (M.) lophuromys Bochkov, OConnor et Skoracki
Myocoptes (M.) lophuromys Bochkov, OConnor & Skoracki, 2016: 588
 Type locality: Uganda
 Distribution: Uganda
 Host: *Lophuromys voosnami* (Rodentia: Muridae)

Myocoptes meriones Bochkov
Myocoptes (M.) meriones Bochkov, 2016b: 477
 Type locality: Kirghizia
 Distribution: Kirghizia, Tajikistan
 Hosts: *Meriones tamariscinus*, *M. libycus* (Rodentia: Muridae)

Myocoptes (M.) spinulatus Fain, 1970 – on *Dendromus mysticalis* from Tanzania (Bochkov, OConnor & Skoracki, 2016)

Myocoptes (Comyoptes) nesokia Bochkov et OConnor
Myocoptes (Comyoptes) nesokia Bochkov & OConnor, 2017: 47
 Type locality: Pakistan
 Distribution: Pakistan
 Host: *Nesokia indica* (Rodentia: Muridae)

Trichoecius angolensis Fain, 1972 is described for the first time by Bochkov, OConnor & Skoracki, 2016. Found in South Africa.

Trichoecius dubininae Bochkov
Trichoecius dubininae Bochkov, 2016b: 462
 Type locality: Chelyabinsk Province, Russia

Distribution: Kazakhstan, Kirghizia, Russia

Host: *Lasiopodomys gregalis* (Rodentia: Arvicolidae)

Trichoecius faini Bochkov, OConnor et Skoracki

Trichoecius faini Bochkov, OConnor & Skoracki, 2016: 595

Type locality: Tanzania

Distribution: Tanzania

Host: *Hylomyscus arcimontanus* (Rodentia: Muridae)

Trichoecius hylomyscus Bochkov, OConnor et Skoracki

Trichoecius hylomyscus Bochkov, OConnor & Skoracki, 2016: 593

Type locality: Tanzania

Distribution: Gabon, Tanzania

Hosts: *Hylomyscus anselli*, *H. stella* (Rodentia: Muridae)

Trichoecius lemmus Bochkov

Trichoecius lemmus Bochkov, 2016b: 466

Type locality: Taymyr peninsula

Distribution: Russia

Host: *Lemmus sibiricus* (Rodentia: Arvicolidae)

Trichoecius lootensis Fain, 1970 in Tanzania (Bochkov, OConnor & Skoracki, 2016)

Trichoecius meriones Bochkov

Trichoecius meriones Bochkov, 2016b: 468

Type locality: Turkmenia

Distribution: Turkmenia

Host: *Meriones meridianus* (Rodentia: Muridae)

Trichoecius otomys Fain, 1970 – on *Otomys typus* from Uganda (Bochkov, OConnor & Skoracki, 2016)

Fam. Chirodiscidae

Lutrilichus javanicus Fain, 1970 – on *Melogale moschata* from Vietnam (Bochkov, 2018)

Schizocarpus azasicus Bochkov et Saveljev

Schizocarpus azasicus Bochkov & Saveljev, 2012: 12

Type locality: Tuva, Todzhinskii District

Distribution: Russia (Tuva)

Host: *Castor fiber tuvinicus* (Rodentia: Castoridae)

Schizocarpus brachyurus (Dubinina, 1964) (= *Sch. intercalatus* Fain et Lukoschus, 1985 = *Sch. parabrachyurus* Fain et Lukoschus, 1985) - on *Castor fiber tuvinicus* from Russia (Tuva) (Bochkov & Saveljev, 2012)

Schizocarpus faini Bochkov, Labrzycka, Skoracki et Saveljev

Schizocarpus faini Bochkov, Labrzycka, Skoracki & Saveljev, 2012: 46

Type locality: Suwalki

Distribution: Poland

Host: *Castor fiber belorussicus* (Rodentia: Castoridae)

Schizocarpus fedjushini (Dubinina, 1964) – on *Castor fiber tuvinicus* from Russia (Tuva) (Bochkov & Saveljev, 2012); on *Castor fiber belorussicus* from Poland (Bochkov et al., 2012)

Schizocarpus gozdziwskii Bochkov, Labrzycka, Skoracki et Saveljev

Schizocarpus gozdziwskii Bochkov, Labrzycka, Skoracki & Saveljev, 2012: 51; Bochkov & Saveljev, 2012: 16

Type locality: Suwalki

Distribution: Poland, Russia (Tuva)

Hosts: *Castor fiber belorussicus*, *C.f. orientoeuropaeus*, *C.f. tuvinicus* (Rodentia: Castoridae)

Schizocarpus heatherae Bochkov, Labrzycka, Skoracki et Saveljev

Schizocarpus heatherae Bochkov, Labrzycka, Skoracki & Saveljev, 2012: 49

Type locality: Suwalki

Distribution: Poland

Host: *Castor fiber belorussicus* (Rodentia: Castoridae)

Schizocarpus heideckeii Bochkov et Saveljev

Schizocarpus heideckeii Bochkov & Saveljev, 2012: 9

Type locality: Tuva, Todzhinskii District

Distribution: Russia (Tuva)

Host: *Castor fiber tuvinicus* (Rodentia: Castoridae)

Schizocarpus insignis Fain et Lukoschus, 1985 – on *Castor fiber tuvinicus* from Russia (Tuva) (Bochkov & Saveljev, 2012); on *Castor fiber belorussicus* from Poland (Bochkov et al., 2012)

Schizocarpus klompeni Bochkov, Labrzycka, Skoracki et Saveljev

Schizocarpus klompeni Bochkov, Labrzycka, Skoracki & Saveljev, 2012: 50

Type locality: Suwalki

Distribution: Poland

Host: *Castor fiber belorusicus* (Rodentia: Castoridae)

Schizocarpus lavrovi Bochkov et Saveljev

Schizocarpus lavrovi Bochkov & Saveljev, 2012: 7

Type locality: Tuva, Todzhinskii District

Distribution: Russia (Tuva)

Host: *Castor fiber tuvinicus* (Rodentia: Castoridae)

Schizocarpus modestus Fain et Lukoschus, 1985 – on *Castor fiber tuvinicus* from Russia (Tuva)(Bochkov & Saveljev, 2012)

Schizocarpus parahumilis Bochkov, Labrzycka, Skoracki et Saveljev

Schizocarpus parahumilis Bochkov, Labrzycka, Skoracki & Saveljev, 2012: 53

Type locality: Suwalki

Distribution: Poland

Host: *Castor fiber belorusicus* (Rodentia: Castoridae)

Schizocarpus pseudonumerosus Bochkov, Labrzycka, Skoracki et Saveljev

Schizocarpus pseudonumerosus Bochkov, Labrzycka, Skoracki & Saveljev, 2012: 47

Type locality: Suwalki

Distribution: Poland

Host: *Castor fiber belorusicus* (Rodentia: Castoridae)

Schizocarpus pusillus Fain et Lukoschus, 1985 – on *Castor fiber tuvinicus* from Russia (Tuva)(Bochkov & Saveljev, 2012)

Schizocarpus radiatus Fain et Lukoschus, 1985 – on *Castor fiber tuvinicus* from Russia (Tuva)(Bochkov & Saveljev, 2012); on *Castor fiber belorusicus* from Poland (Bochkov et al., 2012)

Schizocarpus saveljevi Bochkov

Schizocarpus saveljevi Bochkov, 2012: 168

Type locality: Leningrad Province

Distribution: Russia

Host: *Castor fiber* (Rodentia: Castoridae)

Schizocarpus subornatus Fain et Lukoschus, 1985 – on *Castor fiber tuvinicus* from Russia (Tuva)(Bochkov & Saveljev, 2012)

Schizocarpus testiculatus Bochkov, Labrzycka, Skoracki et Saveljev*Schizocarpus testiculatus* Bochkov, Labrzycka, Skoracki & Saveljev, 2012: 44

Type locality: Suwalki

Distribution: Poland

Host: *Castor fiber belorussicus* (Rodentia: Castoridae)***Schizocarpus tuvonicus*** Bochkov et Saveljev*Schizocarpus tuvonicus* Bochkov & Saveljev, 2012: 10

Type locality: Tuva, Todzhinskii District

Distribution: Russia

Host: *Castor fiber tuvonicus* (Rodentia: Castoridae)***Schizocarpus unzhakovi*** Bochkov et Saveljev*Schizocarpus unzhakovi* Bochkov et Saveljev, 2012: 8

Type locality: Tuva, Todzhinskii District

Distribution: Russia (Tuva)

Host: *Castor fiber tuvonicus* (Rodentia: Castoridae)***Schizocarpus zurowskii*** Bochkov, Labrzycka, Skoracki et Saveljev*Schizocarpus zurowskii* Bochkov, Labrzycka, Skoracki & Saveljev, 2012: 52; Bochkov & Saveljev, 2012: 16

Type locality: Suwalki

Distribution: Poland, Russia

Host: *Castor fiber belorussicus* (Rodentia: Castoridae)***Schizocoptes daberti*** Bochkov*Schizocoptes daberti* Bochkov, 2016: 005

Type locality: South Kivu, Plantation Lemera

Distribution: DR Congo

Host: *Chrysochloris stuhlmanni* (Afrosoricida: Chrysochloridae)***Soricilichus sylvisorex*** Bochkov, Mbaltini et Verheyen*Soricilichus sylvisorex* Bochkov, Mbaltini & Verheyen, 2016: 249

Type locality: DR Congo

Distribution: DR Congo

Hosts: *Sylvisorex granti*, *S. lunaris*, *S. vulcanorum* (Soricomorpha: Soricidae)

Fam. Atopomelidae***Atopomelus megalotis*** Bochkov, Abramov et Hugot*Atopomelus megalotis* Bochkov, Abramov & Hugot, 2011: 6Type locality: Kammouane Province, 18 km north of Thakhek, near Ban Doy village,
17°33'26"N, 104°49'28"E, 140 m a. s. l.

Distribution: Laos

Host: *Hylomys megalotis* (Erinaceomorpha: Erinaceidae)***Didelphoecius micoureus*** Bochkov et Valim*Didelphoecius micoureus* Bochkov & Valim, 2016: 32

Type locality: Minas Gerais

Distribution: Brazil

Host: *Micoureus paraguayanus* (Didelphimorphia: Didelphidae)***Listrophoroides oconnori*** Bochkov, Abramov et Hugot*Listrophoroides oconnori* Bochkov, Abramov & Hugot, 2011: 3Type locality: Kammouane Province, 18 km north of Thakhek, near Ban Doy village,
17°33'26"N, 104°49'28"E, 140 m a. s. l.

Distribution: Laos

Host: *Saxatilomys paulinae* (Rodentia: Muridae)

Distribution of Listrophoroidea (suppl.)

EUROPE**Poland** (Bochkov, Labrzycka, Skoracki & Saveljev, 2012) – *Schizocarpus brachyurus*, *Sch. faini*, *Sch. fedjushini*, *Sch. gozdziowskii*, *Sch. heatherae*, *Sch. insignis*, *Sch. klompeni*, *Sch. parahumilis*, *Sch. pseudonumerosus*, *Sch. radiatus*, *Sch. testiculatus*, *Sch. zurowskii***Russia** (entire)(Bochkov & Saveljev, 2012; Bochkov, 2012, 2016b) – *Schizocarpus brachyurus* (= *Sch. intercalatus*, = *Sch. parabrachyurus*), *Sch. gozdziowskii*, *Sch. saveljevi*, *Sch. azasicus*, *Sch. daberti*, *Sch. heidekei*, *Sch. insignis*, *Sch. lavrovi*, *Sch. modestus*, *Sch. pusillus*, *Sch. radiatus*, *Sch. subornatus*, *Sch. tuvinicus*, *Sch. unzhakovi*, *Trichoecius dubininae*, *T. lemmus***AFRICA****Burundi** (Bochkov, OConnor & Skoracki, 2016) - *Myocoptes grammomys***DR Congo** (Bochkov, Mbaltini & Verheyen, 2016; Bochkov, 2016) - *Soricilichus sylvisorex*,
*Schizocoptes daberti***Gabon** (Bochkov, OConnor & Skoracki, 2016) - *Trichoecius hylomyscus***South Africa** (Bochkov, OConnor & Skoracki, 2016) – *Trichoecius angolensis*

Tanzania (Bochkov, OConnor & Skoracki, 2016) – *Criniscansor congolensis*, *Gliricoptes vulcanorum*, *Myocoptes spinulatus*, *Trichoecius faini*, *T. hylomyscus*, *T. lootensis*

Uganda (Bochkov, OConnor & Skoracki, 2016) – *Lophuromys voosnami*, *Myocoptes grammomys*, *Trichoecius otomys*

ASIA

Kazakhstan (Bochkov, 2016) – *Trichoecius dubininae*

Kirghizia (Bochkov, 2016) – *Trichoecius dubininae*

Laos (Bochkov, Abramov & Hugot, 2011) – *Afrolistophorus laonastes*, *A. saxatilmys*, *Pteromychirus menetes*, *Atopomelus megalotis*, *Listrophoroides oconnori*

Vietnam (Bochkov, 2017, 2018) – *Dubininetta abramovi*, *D. euroscaptor*, *Lutrilichus javanicus*

SOUTH and CENTRAL AMERICA

Argentina (Sikora & Bochkov, 2012) – *Prolistophorus (Aprolistophorus) parabidentatus*, *Prolistophorus akodon*, *P. amazonicus*, *P. argentines*, *P. (P.) frontalis*, *P. (Beprolistophorus) hirstianus*

Bolivia (Sikora & Bochkov, 2012) – *Prolistophorus amazonicus*

Brazil (Sikora & Bochkov, 2012, Bochkov & Valim, 2016; Gorza et al., 2018) – *Didelphoecius micoureus*, *Leporacarus gibbus*, *L. sylvilagi*, *Lynxacarus serrafrereirei*, *Parakosa tadarida*, *Prolistophorus bidentatus*, *P. ctenomys*, *P. hylaeamys*, *Sclerolistophorus oxymycteris*

Chile (Sikora & Bochkov, 2012) – *Amlistophorus geoxus*

Colombia (Bochkov, Lareschi & Barreto, 2014) – *Prolistophorus (Prolistophorus) grassii*, *P. (P.) argentinus*

Far East of Russia (Bochkov, 2017) – *Dubininetta taiwanensis*

Grenada (Springer et al., 2018) – *Afrolistophorus* sp., *Atopomelidae*

Guatemala (Bochkov, Lareschi & Barreto, 2014) – *Prolistophorus (Aprolistophorus) tylomys*

Panama (Sikora & Bochkov, 2012) – *Prolistophorus nectomys*

Peru (Sikora & Bochkov, 2012) – *Prolistophorus nectomys*

Suriname (Sikora & Bochkov, 2012) – *Prolistophorus musculus*

Hosts

Didelphimorphia

Fam. Didelphidae

Metachirus nudicaudatus – *Didelphoecius validus*

Micoureus paraguayanus – *Didelphoecius micoureus*

Erinaceomorpha

Fam. Erinaceidae

Hylomys megalotis - *Atopomelus megalotis*

Afrosoricida**Fam. Chrysochloridae**

Chrysochloris stuhlmanni – *Schizocoptes daberti*

Soricomorpha**Fam. Soricidae**

Sylvisorex granti - *Soricilichus sylvisorex*

S. lunaris - *Soricilichus sylvisorex*

S. vulcanorum - *Soricilichus sylvisorex*

Fam. Talpidae

Euroscaptor parvidens – *Dubininetta euroscaptor*

E. subanura – *Dubininetta abramovi*

Mogera robusta - *Dubininetta taiwanensis*

Chiroptera**Fam. Molossidae**

Molossus molossus – *Parakosa tadarida*

Rodentia**Fam. Arvicolidae**

Lasiopodomys gregalis – *Trichoecius dubininae*

Lemmus sibiricus - *Trichoecius lemmus*

Fam. Cricetidae

Akodon affinis - *Prolistrophorus* (*Prolistrophorus*) *argentinus*

A. azarae - *Prolistrophorus* (*Aprolistrophorus*) *parabidentatus*

A. cursor – *Prolistrophorus bidentatus*

A. montensis – *Prolistrophorus akodon*

Calomys callosus - *Prolistrophorus amazonicus*

C. laucha - *Prolistrophorus amazonicus*

C. musculus - *Prolistrophorus amazonicus*

Geoxus valdivianus – *Amlistrophorus geoxus*

Hylaeamys laticeps - *Prolistrophorus hylaeamys*

Melanomys caliginosus - *Prolistrophorus argentinus*, *P. nectomys*

Nectomys palmipes – *Prolistrophorus nectomys*

Oligoryzomys sp. – *Prolistrophorus* (*P.*) *frontalis*

Oryzomys laticeps - *Sclerolistrophorus oxymycteris*

Scapteromys aquaticus - *Prolistrophorus argentinus*, *P. (Beprolistrophorus) hirstianus*

Tylomys nudicaudus - *Prolistrophorus* (*Aprolistrophorus*) *tylomys*

Zygodontomys brevicauda - *Prolistrophorus* (*Prolistrophorus*) *grassii*

Fam. Ctenomyidae

Ctenomys torquatus – *Prolistrophorus ctenomys*

Fam. Muridae

Dendromus mysticalis – *Myocoptes spinulatus*
Grammomys dryas – *Myocoptes grammomys*
G. macmillani – *Criniscansor congolensis*
Hapalomys delacouri – *Afrolistophorus hapalomys*
Hylomyscus anelli – *Trichoecius hylomyscus*
H. arcimontanus – *Trichoecius faini*
H. stella – *Trichoecius hylomyscus*
Meriones tamariscinus – *Myocoptes meriones*
M. libycus – *Myocoptes meriones*
M. meridianus – *Trichoecius meriones*
Otomys typus – *Trichoecius otomys*
Saxatilomys paulinae – *Afrolistophorus saxatilomys*, *Listrophoroides oconnori*

Lagomorpha

Fam. Leporidae

Sylvilagus brasiliensis – *Leporacarus sylvilagi*

Fam. Castoridae

Castor fiber – *Schizocarpus saveljevi*

Castor fiber belorusicus – *Schizocarpus brachyurus*, *Sch. heatherae*, *Sch. faini*,

Sch. fedjushini, *Sch. gozdziwskii*, *Sch. insignis*, *Sch. klompeni*, *Sch. parahumilis*,

Sch. pseudonumerosus, *Sch. radiatus*, *Sch. testiculatus*, *Sch. zurowskii*

Castor fiber tuvinicus – *Schizocarpus azasicus*, *Sch. daberti*, *Sch. gozdziwskii*, *Sch. grandis*, *Sch. heidekei*, *Sch. insignis*, *Sch. lavrovi*, *Sch. modestus*, *Sch. pusillus*, *Sch. radiatus*, *Sch. subornatus*, *Sch. tuvinicus*, *Sch. unzihakovi*, *Sch. zurowskii*

Carnivora

Fam. Mustelidae

Melogale moschata – *Lutrilichus javanicus*

Galictis cuja – *Lynxacarus (Lynxacarus) serrafreirei*

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(suppl. 2011 - 2021)

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Introduction

As a result of the recent contributions, the number of genera and species in Beron, 2014 (some of them of uncertain status) is updated as follows:

Opilioacarida – 13 genera, 55 recent and 3 fossil species

Holothyrida – 15 genera, 30 species

Macronyssidae – 34 genera, 236 species

Dermanyssidae – 3 genera, 39 species

Halarachnidae – 6 genera, 40 species

Raillietiidae – 1 genus, 7 species

Entonyssidae - 8 genera, 24 species

Manitherionyssidae – 1 genus, 1 species

Hystrihionyssidae - 1 genus, 1 species

Dasyponyssidae - 2 genera, 2 species

Spelaeorhynchidae - 1 genus, 7 species

New contributions to the Catalogue:

Opilioacarida

Fam. Opilioacaridae

Genus *Amazonacarus* Vázquez, de Araújo et Feres

Amazonacarus Vázquez, de Araújo & Feres, 2014: 152

Type species: *Amazonacarus setosus* Vázquez, de Araújo et Feres, 2014

Amazonacarus paraensis Vázquez, de Araújo et Feres

Amazonacarus paraensis Vázquez, de Araújo & Feres, 2014: 162

Type locality: Para

Distribution: Brazil

Amazonacarus setosus Vázquez, de Araújo et Feres*Amazonacarus setosus* Vázquez, de Araújo & Feres, 2014: 155

Type locality: Pará, Alter do Chão

Distribution: Brazil

Genus ***Brasilacarus*** Vázquez, de Araújo et Feres*Brasilacarus* Vázquez, de Araújo & Feres, 2015: 377Type species: *Brasilacarus cocaris* Vázquez, de Araújo et Feres, 2015***Brasilacarus cocaris*** Vázquez, de Araújo et Feres*Brasilacarus cocaris* Vázquez, de Araújo & Feres, 2015: 375

Type locality: Manaus, near Rio Negro and Taruma-Mirim stream

Distribution: Brazil

Caribeacarus ojasti (Lehtinen, 1980) – moved from *Neocarus o.* by Araújo et al. (2020)***Neocarus belizensis*** Vázquez, May, Alamilla et Klompen*Neocarus belizensis* Vázquez, May, Alamilla & Klompen, 2018: 132

Type locality: Maya Mountains

Distribution: Belize

Neocarus caipora Bernardi, Klompen et Ferreira*Neocarus caipora* Bernardi, Klompen & Ferreira, 2014: 47

Type locality: Canãa dos Carajas, Gruta Cav11-S11 (06°24'38.3"S 50°19'38.7"W)

Distribution: Brazil

Neocarus chactemalensis Vázquez et Klompen*Neocarus chactemalensis* Vázquez & Klompen, 2015: 537

Type locality: Quintana Roo, Chetumal, campus Quintana Roo State University, 8 m

Distribution: Mexico

Neocarus comalensis Vázquez et Klompen*Neocarus comalensis* Vázquez & Klompen, 2015: 538

Type locality: Guerrero, El Comal, elevation 1749 m

Distribution: Mexico

Neocarus coronatus Araújo, Bichuette, Bauchan, Ochoa et Feres*Neocarus coronatus*: Araújo, Bichuette, Bauchan, Ochoa & Feres, 2018: 303

Type locality: São Desidério county, Bahia state

Distribution: Brazil

Neocarus entrerios Vázquez, Bernardi et Klompen*Neocarus entrerios* Vázquez, Bernardi & Klompen, 2020: 512

Type locality: Misiones, P.N. Iguazu, Area de la Garganta del Diablo, 185 m

Distribution: Argentina

Neocarus misiones Vázquez, Bernardi et Klompen*Neocarus misiones* Vázquez, Bernardi & Klompen, 2020: 508

Type locality: Misiones, Iguazu, Puerto Libertad, 173 m, 25.9189°S 54.5818°W

Distribution: Argentina

Neocarus simmonsii Bernardi, Zampaulo et Oliveira*Neocarus simmonsii* Bernardi, Zampaulo & Oliveira, 2020: 14Type locality: Minas Gerais State, São Gonçalo do Rio Abaixo city, Simmons' cave,
19°53'55"S, 43°28'22"W

Distribution: Brazil

Neocarus spelaion Vázquez, Bernardi et Klompen*Neocarus spelaion* Vázquez, Bernardi & Klompen, 2020: 3

Type locality: Minas Gerais State, Matozinhos, Cave 013, 19°31'57.21"S, 44°5'30.30"W

Distribution: Brazil

Opilioacarus baeticus Moraza Zorrilla, Prieto et Balanzateguic*Opilioacarus baeticus* Moraza Zorrilla, Prieto & Balanzateguic, 2021: 130

Type locality: Isleta del Moro: Barranco del Paraíso (Níjar, Almería)

Distribution: Spain

Opilioacarus brignolii Araújo et Di Palma*Opilioacarus brignolii* Araújo & Di Palma, 2018: 138

Type locality: Apulia, Bari, Monopoli

Distribution: Italy, incl. Sardinia

Opilioacarus groehni Dunlop et Bernardi (fossil)*Opilioacarus groehni* Dunlop & Bernardi, 2014: 760

Type locality: from the Cretaceous Burmese amber

Distribution: Burma

Opilioacarus thaleri Vázquez, Ávila et Jus*Opilioacarus thaleri* Vázquez, Ávila & Jus, 2021: 552

Type locality: Creta, Georgiopolis

Distribution: Greece (Creta)

Holothyrida

Fam. Neothyridae

Diplothyrys lehtineni Vázquez, Araújo et Feres

Diplothyrys lehtineni Vázquez, Araújo & Feres, 2016: 271

Type locality: Pará, São Geraldo do Araguaia, Serra das Andorinhas

Distribution: Brazil

Mesostigmata

Fam. Macronyssidae

Cryptonyssus flexus from *Pipistrellus nathusii* (Northern Caucasus, Orlova, Smirnov et al., 2020)

Macronyssus diversipilis from *Myotis tschuliensis* (Northern Caucasus, Orlova, Smirnov et al., 2020)

Macronyssus leislerianus from *Nyctalus leisleri* (Northern Caucasus, Orlova, Smirnov et al., 2020)

Ornithonyssus bacoti – dermatitis in Italy (Cafiero et al., 2015)

Ornithonyssus bursa from *Sturnus vulgaris* in Argentina (Lareschia et al., 2017)

Ornithonyssus sylviarum (Canestrini et Fanzago) – from *Columba livia domestica* in Egypt (Halawa et al., 2019)

Parichoronyssus alexanderfaini Morales-Malacara et Guerrero

Parichoronyssus alexanderfaini Morales-Malacara & Guerrero, 2020: 405

Type locality: Loc. near Bartica, Brit. Guiana, Forest Reserve 24 mi. along Potaro Rd.

Distribution: Guiana

Host: *Rhinophylla pumilio* (Chiroptera: Phyllostomatidae)

Parichoronyssus gettingeri Morales-Malacara et Guerrero

Parichoronyssus gettingeri Morales-Malacara & Guerrero, 2020: 410

Type locality:

Distribution:

Hosts: *Rhynchonycteris naso* (Chiroptera: Emballonuridae), *Noctilio leporinus* (Chiroptera: Noctilionidae)

Pellonyssus* [as *Steatonyssus*] *flabellifer (Gupta et Paul, 1985)(suppl.) - West Bengal: Midnapur Dist., Patharkumkumi, from *Ploceus philippinensis* (p.20)

Steatonyssus afer from Namibia on *Cistugo seabrae* (Orlova, Laverty et al., 2020)

Steatonyssus noctulus from *Miniopterus schreibersii* (Orlova, Stanyukovich & Orlov, 2015), *Nyctalus noctula* (Northern Caucasus, Orlova, Smirnov et al., 2020)

Steatonyssus longipes from *Passer domesticus niloticus*, *Columba livia nilotica* and *Streptopelia senegalensis aegyptiaca* in Egypt (Halawa et al., 2019. Note: the *Steatonyssus* are parasites of Mammals, mostly on bats, so these records on birds should be confirmed).

Steatonyssus olesovi Orlova, Stanyukovich et Orlov

Steatonyssus olesovi Orlova, Stanyukovich & Orlov, 2015: 97

Type locality: Russia

Distribution: Russia

Hosts: *Myotis dasycneme* (probably the main host), *M. blythii*, *M. daubentoni*, *M. brandtii*, *M. mystacinus*, and Ognev's long-eared bat.

Distribution of Opilioacarida, Holothyrida, and some Mesostigmata (suppl.)

Opilioacarida

EUROPE

Italy (Araújo, Di Palma & Feres, 2018) – *Opilioacarus brignolii*

Sardinia (Araújo, Di Palma & Feres, 2018) - *Opilioacarus brignolii*

Greece

Crete (Vázquez et al., 2021) – *Opilioacarus thaleri*

Spain (Moraza Zorrilla, Prieto & Balanzateguic, 2021) – *Opilioacarus baeticus*

NORTH AMERICA

Mexico (Vázquez & Klompen, 2015) - *Neocarus chactemalensis*, *N. comalensis*,

SOUTH and CENTRAL AMERICA

Argentina (Vázquez, Bernardi & Klompen, 2020) – *Neocarus entrerios*, *N. misiones*

Belize (Vázquez, May, Alamilla & Klompen, 2018) – *Neocarus belizensis*

Brazil (Araújo, Bichuette, Bauchan, Ochoa & Feres, 2018; Bernardi & Borges-Filho, 2018; Bernardi, Klompen & Ferreira, 2014; Vázquez, de Araújo & Feres, 2014, 2015; Ber-

nardi, Zampaulo & Oliveira, 2020) – *Amazonacarus paraensis*, *A. setosus*, *Brasilacarus cocaris*, *Neocarus caipora*, *N. coronatus*, *N. simmonsii*, *N. spelaion*

Holothyrida

SOUTH and CENTRAL AMERICA

Brazil (Bernardi, Azara & Ferreira, 2011; Vázquez, Araújo & Feres, 2016) – *Diplothyridus lehtineni*, *D. schubarti* According to Bernardi et al., 2011 (fide Lehtinen), *Holothyrida* are known also from the Philippines, Costa Rica and Panama.

Some Mesostigmata

EUROPE

Italy (Cafiero et al., 2015) - *Ornithonyssus bacoti*

Russia (Orlova, Smirnov et al., 2017; Orlova, Krilov et al., 2021) – *Cryptonyssus flexus*, *Macronyssus diversipilis*, *M. leislerianus*, *Steatonyssus noctulus*

Turkey (Ciloglu et al., 2020) – *Dermanyssus gallinae*

AFRICA

Egypt (Negm et al., 2018; Halawa et al., 2019) – *Ornithonyssus sylviarum*, *Steatonyssus longipes*, *Dermanyssus*

Namibia (Orlova, Laverty et al., 2020) - *Steatonyssus* (S.) *afer*

NORTH AMERICA

Mexico (Morales-Malacara & Guerrero, 2020) - *Parichoronyssus gettingeri*

SOUTH and CENTRAL AMERICA

Argentina (Lareschia et al., 2017) - *Ornithonyssus bursa*

Guiana (Morales-Malacara & Guerrero, 2020) - *Parichoronyssus alexanderfaini*

Peru (Morales-Malacara & Guerrero, 2020; Angoma et al., 2021) – acari on bats

Venezuela (Morales-Malacara & Guerrero, 2020) – *Parichoronyssus gettingeri*

Hosts

Aves

Columbiformes

Fam. Columbidae

Columba livia domestica - *Ornithonyssus bursa*, *O. sylviarum*, *Steatonyssus longipes*

Streptopelia senegalensis aegyptiaca - *Ornithonyssus bursa*, *Steatonyssus longipes*

Passeriformes

Fam. Ploceidae*Ploceus philippinus* – *Pellonyssus flabellifer***Fam. Passeridae***Passer domesticus niloticus* – *Ornithonyssus bursa*, *Steatonyssus longipes***Fam. Pycnonotidae***Pycnonotus barbatus* – *Ornithonyssus bacoti***Fam. Sturnidae***Sturnus vulgaris* – *Ornithonyssus bursa***Mammalia****Chiroptera****Fam. Cistugidae***Cistugo seabrae* – *Steatonyssus* (S.) *afer***Fam. Vespertilionidae***Myotis tschuliensis* – *Macronyssus diversipilis**Nyctalus leisleri* – *Macronyssus leislerianus**N. noctula* – *Steatonyssus noctulus**Pipistrellus nathusii* – *Cryptonyssus flexus*

Bibliography of Opilioacarida, Holothyrida, and some Mesostigmata

(suppl. 2014 - 2021)

Opilioacarida

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Update 2015 – 2021 to Vol. IV

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Introduction

As a result of the recent contributions, the number of genera and species in Myobiidae and Pterygosomatoidea (some of them with uncertain status) is updated as follows:

Myobiidae – 55 genera, 511 species

Pterygosomatidae – 13 genera, 196 species

New contributions to the Catalogue:

Fam. Myobiidae

Acanthophthirius lasiurus (Fain & Whitaker, 1976) recorded in Mexico on the bat *Lasiurus cinereus* (Palisot de Beauvois) by Herrera-Mares et al. (2017).

Crocidurobia faini Bochkov, Mbalitini et Verheyen

Crocidurobia faini Bochkov, Mbalitini & Verheyen, 2016: 496

Type locality: DR Congo

Distribution: DR Congo

Hosts: *Crocidura denti*, *Crocidura* cf. *niobe*, *Crocidura* cf. *littoralis* (Soricomorpha: Soricidae)

Crocidurobia lukoschusi Bochkov

Crocidurobia lukoschusi Bochkov, 2017: 212

Type locality: Vietnam

Distribution: Vietnam

Host: *Crocidura tanakae* (Soricomorpha: Soricidae)

Eudusbabekia saguei - recorded in Mexico on *Pteronotus davyi* by Herrera-Mares et al. (2017).

Eudusbabekia provirilia Morales-Malacara, Guzmán-Cornejo & López-Ortega, 2002 recorded in Mexico on *Leptonycteris yerbabuenae* by Herrera-Mares et al. (2017).

Ioanella mimon (Fain, 1973) - on *Mimon cozumelae* (Herrera-Mares et al., 2017)

Ioannella leptonycteris (Fain, 1973) - on *Leptonycteris yerbabuenae* by Herrera-Mares et al. (2017)

Eudusbabekia mimon (Fain, 1973) - on *Mimon cozumelae* (Herrera-Mares et al., 2017)

Radfordia (Hesperomyobia) akodon Bochkov

Radfordia (Hesperomyobia) akodon Bochkov, 2017b

Type locality: Bolivia

Distribution: Bolivia

Host: *Akodon varius* (Rodentia: Cricetidae, Sigmodontinae)

Radfordia (Hesperomyobia) vandenberghi Fain and Lukoschus on *Oligoryzomys flavescens* (Waterhouse) and *Oligoryzomys* sp. (Rodentia: Cricetidae: Sigmodontinae) from Bolivia (Bochkov, 2017)

Radfordia (Microtimyobia) stekolnikovi Bochkov et Mironov, 1998, syn. of *R. lemnina* (Koch, 1841)

Radfordia (Microtimyobia) stenocrani Bochkov et Mironov, 1998, syn. of *R. lemnina* (Koch, 1841)

Radfordia (Radfordia) mirabilis Bochkov et Abramov

Radfordia (Radfordia) mirabilis Bochkov & Abramov, 2014: 142

Type locality: Binh Phuoc Province, Bu Gia Map National Park, 13 km NE Bu Gia Map Village, 540 m a.l.s., 12°11'37"N, 107°12'21"E

Distribution: Vietnam

Host: *Hapalomys delacouri* (Rodentia: Muridae)

†*Protohylomysobia erinaceophilus* Sidorchuk et Bochkov, 2018 (2019)

Fam. Pterygosomatidae

Genus ***Callopistiella*** Silva-de la Fuente, Casanueva et Moreno Salas

Callopistiella Silva-de la Fuente, Casanueva & Moreno Salas, 2015: 66

Type species: *Callopistiella atacamensis* Silva-de la Fuente, Casanueva et Moreno Salas, 2015

Callopistiella atacamensis Silva-de la Fuente, Casanueva et Moreno Salas

Callopistiella atacamensis Silva-de la Fuente, Casanueva & Moreno Salas, 2015: 67

Type locality: Caldera: Copiapó Province, Atacama Region, 26°56'S, 70°44'W

Distribution: Chile

Host: *Callopistes maculatus* (Sauria: Teiidae)

Geckobia africana Fajfer

Geckobia africana Fajfer, 2018: 2

Type locality: Iringa Region, Mufindi District, Uzungwa Scarp Forest Reserve

Distribution: Tanzania

Host: *Cnemaspis africana* (Sauria: Gekkonidae)

Geckobia andina Machado, Gazêta, Pérez, Cunha et Giupponi

Geckobia andina Machado et al., 2019: 335

Type locality: Cerro Verde, Andean highlands

Distribution: Peru

Host: *Phyllodactylus gerrhopygus* (Sauria: Gekkonidae)

Geckobia circumdata Machado, Gazêta, Pérez, Cunha et Giupponi

Geckobia circumdata Machado et al., 2019: 342

Type locality: Arequipa, Cerro Verde, 2345 m

Distribution: Peru

Host: *Phyllodactylus gerrhopygus* (Sauria: Gekkonidae)

Geckobia milii Fajfer

Geckobia milii Fajfer, 2019: 6

Type locality: Far North Queensland, Cape York Peninsula

Distribution: Australia (Queensland)

Host: *Underwoodisaurus milii* (Sauria: Carphodactylidae)

Fajfer (2019) revised the genus ***Pterygosoma*** and left as such only the species of Asia and Africa. ***Gerrhosauroidia*** Lawrence was raised in a new status of full genus, the three species in it became ***Gerrhosauroidia bicolor*** (Lawrence), ***G. gerrhosauri*** (Lawrence) and ***G. hystrix*** (Lawrence). A new genus ***Neopterygozoma*** Fajfer has been described for the parasites on the South American lizards of the genus *Liolaemus* (Liolaemidae). Fajfer (2020b) revised the entire genus *Pterygosoma*.

Geckobiella stamii (Jack) – on *Amblyomma dissimile* (Acari: Ixodidae) associated with *Iguana iguana* from Panama (Domínguez et al., 2020)

Genus ***Neopterygozoma*** Fajfer

Neopterygozoma Fajfer, 2019: 422

Type species: *Pterygosoma chilensis* Fajfer et González-Acuña, 2013

Neopterygosoma schroederi Fajfer

Neopterygosoma schroederi Fajfer, 2020: 544

Type locality: Maule region, Curicó Prov., Curicó

Distribution: Chile

The species *Pterygosoma chilensis*, *P. cyanopteri*, *P. formosus*, *P. levissima*, *P. ligare*, *P. ovata*, described by Fajfer & Gonzalez – Acuña in 2013, as well as *Pterygosoma patagonica* Ditmar de la Cruz, Morando et Avila, 2004, have been transferred by Fajfer (2020a) in the genus *Neopterygosoma*.

Pterygosoma aculeatum Lawrence, 1936 – restored as species from *P. agamae aculeatum* by Fajfer, 2020b: 93

Pterygosoma agamae Peters, 1849 – published again from Tanzania and Mozambique (Fajfer, 2020b: 99)

Pterygosoma expansum Bertrand, Finkelman et Paperna, 2000 is synonymised with ***Pterygosoma adramitana*** Jack, 1961 by Fajfer, 2020b

Pterygosoma angolae Jack, 1962 – raised as species from *P. melanum angolae* by Fajfer, 2020b: 51

Pterygosoma balochistani Fajfer

Pterygosoma balochistani Fajfer, 2016a: 348; 2020b: 26

Type locality: Balochistan, Darzi Chan

Distribution: Pakistan

Host: *Landakia nupta nupta* (Sauria: Agamidae)

Pterygosoma blanfordi Fajfer

Pterygosoma blanfordi Fajfer, 2016a: 344

Type locality: South India, Kerala State, Palakkad district, Parambikulam Tiger Reserve

Distribution: India

Host: *Psammophilus blanfordianus* (Sauria: Agamidae)

Pterygosoma capensis Jack, 1962 - raised as species from *P. melanum capensis* by Fajfer, 2020b: 55

Pterygosoma gladiator Bertrand, Finkelman et Paperna, 2000 is synonymised with ***P. neumanni*** (Berlese, 1910) by Fajfer, 2020b: 111

Pterygosoma livingstonei Bertrand et Modry, 2004 is synonymised with ***P. circularis*** Jack, 1962 by Fajfer, 2020b

Pterygosoma longipalpa Lawrence, 1936 - restaured as species from *Pterygosoma melanum longipalpa* by Fajfer, 2020b: 59

Pterygosoma orbicularis Jack, 1962 - raised as species from *P. spinosa orbicularis* by Fajfer, 2020b: 119

Pterygosoma pallidum Fajfer, Melnikov et Dabert

Pterygosoma pallidum Fajfer, Melnikov & Dabert, 2016: 792; Fajfer, 2020b: 11

Type locality: Aquaba Province, 11 km north-east of Ar- Risha

Distribution: Jordan

Host: *Trapelus pallidum* (Sauria: Agamidae)

Pterygosoma parasiniatum Fajfer, Melnikov et Dabert

Pterygosoma parasiniatum Fajfer, Melnikov & Dabert, 2016: 801

Type locality: NE of Ar-Risha

Distribution: Jordan

Host: *Pseudotrapelus* cf. *sinaiticus* (Sauria: Agamidae)

Pterygosoma problematica Jack, 1962 - raised as species from *P. fimbriata problematica* by Fajfer, 2020a: 83

Pterygosoma pseudorbicularis Jack, 1962 - raised as species from *P. bibronii pseudorbicularis* by Fajfer, 2020b: 121

Pterygosoma rhipidostichata Bertrand, Finkelman and Paperna, 2000 is synonymised with ***P. mutabilis*** Jack, 1961 by Fajfer, 2020b

Pterygosoma theobaldi Fajfer, Melnikov et Dabert

Pterygosoma theobaldi Fajfer, Melnikov & Dabert, 2016: 806

Type locality: North India

Distribution: India

Host: *Phrynocephalus teobaldi* (Sauria: Agamidae)

Pimeliaphylus hemidactyli Fajfer et Karanth

Pimeliaphylus hemidactyli Fajfer & Karanth, 2021: 442

Type locality: Karnataka State, Bangalore, IISc campus

Distribution: India

Hosts: *Hemidactylus murrayi*, *H. leschenaultia*, *H. parvimaculatus* (Squamata: Gekkonidae)

Zonurobia circularis limpopoensis was proposed by OConnor (2020) as a replacement name for *Zonurobia circularis transvaalensis* Lawrence, not *Zonurobia transvaalensis* Lawrence.

New hosts and distribution records are given for *Pterygosoma neumanni* (Berlese, 1910), *P. bibronii* Jack, 1962, *P. longipalpa* Lawrence, 1936, *P. gracilipalpis* and *P. sinaita* Jack, 1961.

Distribution of Myobioidea and Pterygosomatoidea

(suppl. 2015 - 2021)

Myobioidea

ASIA

Vietnam (Bochkov, 2017) – *Crocidurobia lukoschusi*

NORTH AMERICA

Mexico (Herrera-Mares et al., 2017; Herrera-Mares, Guzmán-Cornejo & Morales-Malacara, 2021) - *Acanthophthirius lasiurus*, *Ioanella mimon*, *Eudusbabekia jimenezi*, *E. mimon*, *E. saguei*

SOUTH and CENTRAL AMERICA

Bolivia (Bochkov, 2017) - *Radfordia* (*Hesperomyobia*) *akodon*, *R. (H.) vandenberghi*

Pterygosomatoidea

AFRICA

Tanzania (Fajfer, 2018) – *Geckobia africana*

South Africa (OConnor, 2020) - *Zonurobia circularis limpopensis*

ASIA

India (Fajfer, 2016a) - *Pterygosoma blanfordi*, *P. theobaldi*

Jordan (Fajfer, 2016b) - *Pterygosoma pallidum*, *P. parasiniatum*

Pakistan (Fajfer, 2016a) - *Pterygosoma balochistani*

SOUTH and CENTRAL AMERICA

Argentina (Ditmar de la Cruz, Morando & Avila, 2004, Fajfer, 2020) – *Neopterygosoma patagonica*

Chile (Fajfer, 2019, 2020) – *Neopterygosoma* spp. (formerly in *Pterygosoma*), *Neopterygosoma schroederi*, *Callopistiella atacamensis*

Cuba (Borroto Paez et al., 2020) – *Geckobia hemidactyli*

Panama (Domínguez et al., 2020) - *Geckobiella stamii*

Peru (Machado et al., 2019) – *Geckobia andina*, *G. circumdata*

OCEANIA

Australia (Fajfer, 2018) – *Geckobia milii*

Hosts

Myobioidea

Soricomorpha

Fam. Soricidae

Crocidura denti - *Crocidurobia faini*

Crocidura cf. niobe - *Crocidurobia faini*

Crocidura cf. littoralis - *Crocidurobia faini*
Crocidura tanakae - *Crocidurobia lukoschusi*

Chiroptera

Fam. Phyllostomatidae

Mimon cozumelae - *Eudusbabekia mimon*, *Ioanella mimon*

Rodentia

Fam. Cricetidae

Akodon varius - *Radfordia (Hesperomyobia) akodon*
Oligoryzomys flavescens - *Radfordia (Hesperomyobia) vandenberghi*

Fam. Muridae

Hapalomys delacouri - *Radfordia (Radfordia) mirabilis*

Pterygosomatoidea

Reptilia

Sauria

Fam. Agamidae

Landakia nupta nupta - *Pterygosoma balochistani*
Phrynocephalus teobaldi - *Pterygosoma theobaldi*
Psammophilus blanfordianus - *Pterygosoma theobaldi*
Pseudotrapelus cf. sinaiticus - *Pterygosoma parasiniatum*
Trapelus pallidum - *Pterygosoma pallidum*

Fam. Carphodactylidae

Underwoodisaurus milii - *Geckobia milii*

Fam. Gekkonidae

Cnemaspis africana - *Geckobia africana*
Hemidactylus mabouia - *Geckobia hemidactyli*
H. murrayi - *Pimeliaphilus hemidactyli*
H. parvimaculatus - *Pimeliaphilus hemidactyli*
H. leschenaultia - *Pimeliaphilus hemidactyli*
Phyllodactylus gerrhopygus - *Geckobia andina*, *G. circumdata*

Fam. Teiidae

Callopistes maculatus - *Callopistiella atacamensis*

Publications on Myobioidea and Pterygosomatoidea

(suppl. 2015 - 2021)

Myobioidea

Bochkov A.V. 2015. Comparison of external morphology of tritonymphs in myobiid mites (Myobiidae) associated with marsupials (Marsupialia). - International Journal of Acarology, **41**: 590–599. DOI: 10.1080/01647954.2015.1084046

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Update 2015 - 2021 to Vol. V

Beron P. 2015. *Acarorum Catalogus. V. Sarcoptoidea*. Pensoft & Nat. Mus. Natur. Hist. Sofia: 380 pp.

Introduction

As a result of the recent contributions, the number of genera and species in **Sarcoptoidea** (some of them uncertain status) is updated as follows:

Lemurnyssidae – 2 genera, 4 species

Lobalgidae – 2 genera, 9 species

Psoroptidae – 31 genera, 58 species

Listropsoralgidae – 4 genera, 19 species

Bochkovocoptidae – 1 genus, 1 species

Rhyncoptidae – 5 genera, 13 species

Sarcoptidae – 17 genera, 117 species

Pneumocoptidae – 1 genus, 4 species

Gastronyssidae – 9 genera, 42 species

Chirorhynchobiidae – 1 genus, 3 species

Pyroglyphidae – 22 genera, 51 species

Dermationidae – 12 genera, 54 species

Epidermoptidae – 16 genera, 51 species

Gaudoglyphidae – 1 genus, 1 species

Ptyssalgidae – 1 genus, 1 species

Turbinoptidae – 9 genera, 36 species

Cytoditidae – 2 genera, 14 species

Laminosioptidae – 6 genera, 27 species

Guanolichidae – 3 genera, 4 species

New (or ommited) contributions to the Catalogue:

Fam. Lobalgidae

Echimytricalges brasiliensis Fain, 1970 is described actually not from *Echimyris brasiliensis*, but (according to Bochkov & OConnor, 2010) from *Phyllomys pattoni*. This species was recorded also from *Trinomys albosignatus* and *T. iheringi* (Brazil, Bochkov & OConnor, 2010).

Echimytricalges guianensis Fain, 1970 - on *Proechimys simonsi* from Peru (Bochkov & OConnor, 2010).

Echimytricalges hoplomys Fain, 1970 – recorded also on *Proechimys semispinosus* and *Hoplomys gymnurus* from Ecuador and Costa Rica (Bochkov & OConnor, 2010).

Echimytricalges lonchothrix Bochkov et OConnor
Echimytricalges lonchothrix Bochkov & OConnor, 2010: 218
 Type locality: Para, Rio Tapajoz, Boim, 03°05'S, 55°18'W
 Distribution: Brazil
 Host: *Lonchothrix emiliae* (Rodentia: Echimyidae)

Echimytricalges mesomys Fain, Lukoschus et Mendez, 1982 - on *Mesomys hispidus* from Brazil (Bochkov & OConnor, 2010).

Echimytricalges proechimys Bochkov et OConnor
Echimytricalges proechimys Bochkov & OConnor, 2010: 214
 Type locality: Oriente, Rio Jatun Yacu
 Distribution: Ecuador
 Host: *Proechimys brevicauda* (Rodentia: Echimyidae)

Echimytricalges surinamensis Fain and Lukoschus, 1970 – also on *Proechimys oconneli* from Colombia (Bochkov & OConnor, 2010).

Echimytricalges whitakeri Fain et Ritzi
Echimytricalges whitakeri Fain & Ritzi, 2001 – validated by Bochkov & OConnor, 2010: 221 from nomen nudum

Fam. Psoroptidae

Caparinia ictonyctis Lawrence
Caparinia ictonyctis Lawrence, 1955: 54
 Type locality: South Africa
 Distribution: South Africa
 Host: *Atelerix albiventris* (Erinaceomorpha: Erinaceidae)

Gaudalges averianovi Bochkov
Gaudalges averianovi Bochkov, 2018: 593
 Type locality: Madagascar
 Distribution: Madagascar
 Host: *Lepidolemur ruficaudatus* (Primates: Lepilemuridae)

Lemuralges propithecus Bochkov, Klompen, Junge et Williams*Lemuralges propithecus* Bochkov, Klompen, Junge & Williams, 2015: 2

Type locality: Madagascar

Distribution: Madagascar

Host: *Propithecus diadema* (Primates: Indridae)

Genus ***Coendalges*** Fain et Méndes, 1979 was transferred from Lobalgidae (Coendalginae) to Psoroptidae (Psoralginae) by Bochkov & OConnor, 2010. The family Lobalgidae has been left with two genera (*Echimytricalges* and *Lobalges*).

Genus ***Psoroptes*** Gervais, 1844. According to Rinder et al. (2000), "...*P. cervinus* Ward, 1915, *P. cuniculi* (Delafond, 1859), *P. natalensis* Hirst, 1919 and *P. ovis* (Hering, 1838) are seen as synonyms of *P. equi* (Hering, 1838)".

Fam. Listrosporalgidae

Didelphialges metachirus Bochkov et Valim*Didelphialges metachirus* Bochkov & Valim, 2013: 67

Type locality: Peru

Distribution: Peru

Host: *Metachirus nudicaudatus* (Didelphimorphia: Didelphidae)***Listropsoralges brevisetosus*** Bochkov et Valim*Listropsoralges brevisetosus* Bochkov & Valim, 2013: 39

Type species: Peru

Distribution: Peru

Host: *Marmosa murina* (Didelphimorphia: Didelphidae)***Listropsoralges similis*** Bochkov et Valim*Listropsoralges similis* Bochkov & Valim, 2013: 19

Type locality: Panama

Distribution: Panama

Host: *Caluromys derbianus* (Didelphimorphia: Didelphidae)***Listropsoralges thylamys*** Bochkov et Valim*Listropsoralges thylamys* Bochkov & Valim, 2013: 24

Type locality: Bolivia

Distribution: Bolivia

Host: *Thylamys venustus* (Didelphimorphia: Didelphidae)***Listropsoralges vossi*** Bochkov et Valim*Listropsoralges vossi* Bochkov & Valim, 2013: 35

Type locality: Brazil

Distribution: Brazil

Host: *Monodelphis domestica* (Didelphimorphia: Didelphidae)

***Listropsoralges caenolestes* Bochkov et Valim**

Listropsoralges caenolestes Bochkov & Valim, 2013: 26

Type locality: Ecuador

Distribution: Ecuador

Host: *Caenolestes fuliginosus* (Paucituberculata: Caenolestidae)

The female of *Listropsoralges faini* Bochkov et Wauthy, 2009 is described in the revision of Bochkov & Valim (2016) for the first time.

Fam. Bochkovocoptidae

Bochkovocoptidae OConnor, 2019: 146

Type genus: *Bochkovocoptes* OConnor, 2019

Genus ***Bochkovocoptes*** OConnor

Bochkovocoptes OConnor, 2019: 146

Type species: *Bochkovocoptes otomys* OConnor, 2019

Bochkovocoptes otomys OConnor

Bochkovocoptes otomys OConnor, 2019: 146

Type locality: Kigezi Province, Kisoro District, Mgahinga Gorilla Nat. Park

Distribution: Uganda

Host: *Otomys denti kempfi* (Rodentia: Muridae)

Fam. Pyroglyphidae

Genus ***Tachornithoglyphus*** Klimov, Bochkov et OConnor

Tachornithoglyphus Klimov, Bochkov & OConnor, 2015: 97

Type species: *Guatemalichus tachornis* Cruz, Cuervo et Dusbábek, 1984

Tachornithoglyphus tachornis (Cruz, Cuervo et Dusbábek, 1984)

Guatemalichus tachornis Cruz, Cuervo & Dusbábek, 1984: 1; Cruz 1988: 14; Fain 1988: 22

Tachornithoglyphus tachornis (Cruz, Cuervo et Dusbábek, 1984): Klimov, Bochkov & OConnor, 2015: 97

Type locality: Ciudad de La Habana, Playa El Salado, Bauta

Distribution: Cuba

Host: nest of *Tachornis phoenicobia* (Apodiformes: Apodidae)

Fam. Dermationidae

Genus ***Carcinopodacarus*** Hernandes, Pedroso et Bochkov

Carcinopodacarus Hernandes, Pedroso & Bochkov, 2015: 2

Type species: *Carcinopodacarus polymorphus* Hernandes, Pedroso et Bochkov, 2015

Carcinopodacarus polymorphus Hernandes, Pedroso et Bochkov

Carcinopodacarus polymorphus Hernandes, Pedroso & Bochkov, 2015: 3

Type locality: Campinas

Distribution: Brazil

Host: *Guira guira* (Cuculiformes: Cuculidae)

Neodermation actitis Bochkov et Mironov

Neodermation actitis Bochkov & Mironov, 2015: 612; Matyukhin & Yatsuk, 2022

Type locality: the Far East of Russia

Distribution: Russia

Host: *Actitis hypoleucos* (Charadriiformes: Scolopacidae)

Fam. Epidermoptidae

Metamicrolichus pici (Fain) – new for Egypt (Halawa et al., 2019, sub “*Myialges pici*”)

Promyalges falconis (Fain) – new for Egypt (Halawa et al., 2019, sub “*Myialbes falconis*”)

Promyalges italicus Moradi Faradonbeh, Ostovan, OConnor, Gheibi, Joharchi et Macchioni

Promyalges italicus Moradi Faradonbeh, Ostovan, OConnor, Gheibi, Joharchi & Macchioni, 2019: 36

Type locality: Tuscany, Pisa, 43° 42' N, 10° 24' E

Distribution: Italy

Host: *Pseudolynchia canariensis* (Diptera: Hippoboscidae) from *Columba livia*

Distribution of Sarcoptoidea

(suppl. 2016 - 2021)

EUROPE

Italy (Moradi Faradonbeh et al., 2019) - *Promyialges italicus*

Russia (Bochkov & Mironov, 2015) – *Dermation actitis* (the Far East)

AFRICA

Egypt (Nageiba et al., 2001; Halawa et al., 2019) – *Metamicrolichus pici*, *Promyialges falconis*

Madagascar (Bochkov, 2018) - *Gaudalges averianovi*

ASIA

India (Modak et al., 2004; Podder, Biswas & Kumar Saha, 2021) – Pyroglyphidae

NORTH AMERICA

Mexico (Rodríguez-Ortega et al., 2018) - *Knemidocoptes mutans*

SOUTH and CENTRAL AMERICA

Bolivia (Bochkov & Valim, 2013) - *Listropsoralges thylamys*

Brazil (Bochkov & OConnor, 2010; Bochkov & Valim, 2013; Hernandez, Pedroso & Bochkov, 2015) – *Carcinopodacarus polymorphus*, *Echimytricalges lonchothrix*, *E. mesomys*, *Listropsoralges vossi*

Colombia (Bochkov & OConnor, 2010) – *Echimytricalges surinamensis*

Costa Rica (Bochkov & OConnor, 2010) – *Echimytricalges hoplomys*

Cuba (Cruz, Cuervo & Dusbabek, 1984) - *Tachornithoglyphus tachornis*

Ecuador (Bochkov & OConnor, 2010; Bochkov & Valim, 2013) - *Echimytricalges hoplomys*, *E. proechimys*, *Listropsoralges caenolestes*

Panama (Bochkov & Valim, 2013) - *Listropsoralges similis*

Peru (Bochkov & OConnor, 2010; Bochkov & Valim, 2013) – *Echimytricalges guianensis*, *Listropsoralges brevisetosus*

Hosts

AVES

Charadriiformes

Fam. Scolopacidae

Neodermaton actitis - *Actitis hypoleucos*

Cuculiformes

Fam. Cuculidae

Guira guira - *Carcinopodacarus polymorphus*

Passeriformes

Fam. Passeridae

Passer domesticus niloticus – *Promyalges falconis*, *Metamicrolichus pici*

MAMMALIA

Didelphimorphia

Fam. Didelphidae

Caluromys derbianus - *Listropsoralges similis*

Marmosa murina - *Listropsoralges brevisetosus*

Metachirus nudicaudatus - *Didelphialges metachirus*

Monodelphis domestica - *Listropsoralges vossi*

Thylamys venustus - *Listropsoralges thylamys*

Erinaceomorpha

Fam. Erinaceidae

Aterix albiventris - *Caparinia ictonyctis*

Rodentia

Fam. Echimyidae

Hoplomys gymnurus – *Echimytricalges hoplomys*

Lonchothrix emiliae – *Echimytricalges lonchothrix*

Mesomys hispidus – *Echimytricalges mesomys*

Proechimys brevicauda – *Echimytricalges proechimys*

P. oconneli – *Echimytricalges surinamensis*

P. semispinosus - *Echimytricalges hoplomys*

P. simonsi – *Echimytricalges guianensis*

Trinomys albispinus – *Echimytricalges brasiliensis*

T. iheringi - *Echimytricalges brasiliensis*

Fam. Muridae

Otomys denti kemp - *Bochkovocoptes otomys*

Primates

Fam. Indriidae

Propithecus diadema - *Lemuralges propithecus*

Fam. Lepilemuridae

Lepidolemur ruficaudatus - *Gaudalges averianovi*

Publications on Sarcoptoidea

(suppl. 2015 - 2021)

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Update 2020 – 2021 to Vol. VI

Beron P. 2020. Acarorum Catalogus. VI. Rhinonyssidae, Spinturnicidae. Pensoft & Nat. Mus. Natur. Hist. Sofia: 265 pp.

Introduction

As a result of the recent contributions, the number of genera and species (some of them uncertain status) is updated as follows:

Rhinonyssidae – 16 genera, 457 species

Spinturnicidae – 12 genera, 111 species

New contributions to the Catalogue:

Fam. Rhinonyssidae

Ptilonyssus dimi Dimov

Ptilonyssus dimi Dimov, 2020b: 6

Type locality: Elez, Lipetz region

Distribution: Russia

Host: *Hirundo rustica* (Passeriformes: Hirundinidae)

Ptilonyssus harko Dimov

Ptilonyssus harko Dimov, 2020b: 2

Type locality: Viazovka, Orenburg region

Distribution: Russia

Host: *Riparia riparia* (Passeriformes: Hirundinidae)

Ptilonyssus poriazovi Dimov .

Ptilonyssus poriazovi Dimov, 2020b: 9

Type locality: Kohma, Ivanovo region

Distribution: Russia

Host: *Emberiza citrinella* (Passeriformes: Emberizidae)

Rhinonyssus derojasi Dimov

Rhinonyssus derojasi Dimov, 2020a: 2

Type locality: Revda, Sverdlovsk Region

Distribution: Russia

Host: *Anser anser* (Anseriformes: Anatidae)

Rhinonyssus karelinae Dimov*Rhinonyssus karelinae* Dimov, 2020a: 11

Type locality: Tihvin, Leningrad region

Distribution: Russia

Host: *Charadrius dubius* (Charadriiformes: Charadriidae)***Rhinonyssus mileni*** Dimov*Rhinonyssus mileni* Dimov, 2020a: 8

Type locality: Dubovka, Volgograd Region

Distribution: Russia

Host: *Charadrius dubius* (Charadriiformes: Charadriidae)***Rhinonyssus sixli*** Dimov*Rhinonyssus sixli* Dimov, 2020a: 5

Type locality: Mosolovo, Kursk region

Distribution: Russia

Host: *Podiceps ruficollis* (Podicipediformes: Podicipedidae)***Sternostoma alexmironi*** Dimov*Sternostoma alexmironi* Dimov, 2020c: 2

Type locality: Opochka, Pskov region

Distribution: Russia

Host: *Oenanthe oenanthe* (Passeriformes: Muscicapidae)***Sternostoma antoni*** Dimov*Sternostoma antoni* Dimov, 2020c: 5

Type locality: Liski, Voronej region

Distribution: Russia

Host: *Dendrocopos major* (Piciformes: Picidae)***Sternostoma chakarovae*** Dimov*Sternostoma chakarovae* Dimov, 2020c: 8

Type locality: Hvalovo, Leningrad region

Distribution: Russia

Host: *Oenanthe oenanthe* (Passeriformes: Muscicapidae)***Sternostoma delianovae*** Dimov*Sternostoma delianovae* Dimov, 2020c: 11

Type locality: Kirishi, Leningrad region

Distribution: Russia

Host: *Turdus pilaris* (Passeriformes: Turdidae)

Sternostoma enevi* DimovSternostoma enevi* Dimov, 2020c: 14

Type locality: Budenovsk, Stavropol region

Distribution: Russia

Host: *Turdus pilaris* (Passeriformes: Turdidae)**Fam. Spinturnicidae*****Ancystropus aethiopicus*** Hirst, 1923 – Egypt, on *Rousettus aegyptiacus* in Qalyubiyah Governorate (Hafez et al., 1994)***Meristaspis kenyaensis*** (Radford, 1947) - Egypt, on *Rousettus aegyptiacus* in Qalyubiyah Governorate (Hafez et al., 1994)***Periglischrus empheresotrichus*** Morales-Malacara, Castaño-Meneses et Klompen
Periglischrus empheresotrichus Morales-Malacara, Castaño-Meneses & Klompen in
Morales-Malacara, Castaño-Meneses, Klompen & Mancina, 2019: 421

Type locality: Jamaica, St. Ann Parish; ½ mi. S, ½ mi. W. Runaway Bay

Distribution: Cuba, Dominica, Jamaica, Haiti, Guadeloupe

Hosts: *Monophyllus redmani*, *M. plethodon* (Chiroptera: Phyllostomatidae)***Periglischrus paracaligus*** Herrin et Tipton, 1975 - Mexico, on *Leptonycteris verbabuenae* (Zamora-Mejias, Morales - Malacara et al., 2020)**Distribution of Rhinonyssidae and Spinturnicidae**

(suppl. 2020 - 2021)

Fam. Rhinonyssidae**EUROPE****Russia** (Dimov, 2017, 2020a, b, c, d; Dimov & Zhigulin, 2020; Veiga et al., 2021) – *Ptilonyssus dimi*, *P. harko*, *P. poriazovi*, *Rhinonyssus derojasi*, *Rh. karelinae*, *Rh. mileni*, *Rh. sixli*, *Sternostoma alexmironi*, *S. antoni*, *S. chakarovae*, *S. delianovae*, *S. enevi***SOUTH AMERICA****Fam. Spinturnicidae****EUROPE****Russia** (Orlova, Klimov et al., 2021; Orlova, Vu Dinh Thong et al., 2021)**Crimea** (Orlova & Klimov, 2020) – *Spinturnix psi*

AFRICA

Egypt (Hafez et al., 1994) - *Meristaspis kenaensis*, *Ancystropus aethiopicus*

ASIA

Iran (Yousefi et al., 2018) – *Spinturnix emarginata*

NORTH and CENTRAL AMERICA

Mexico (Zamora-Mejias, Morales – Malacara et al., 2020; Morales-Malacara et al., 2020)
– *Periglischrus caligus*, *P. empheresotrichus*

SOUTH AMERICA

Paraguay (Morales - Malacara et al., 2020) – *Periglischrus herrerae*

Hosts

Rhinonyssidae

Aves

Anseriformes

Fam. Anatidae

Anser anser – *Rhinonyssus derojasi*

Charadriiformes

Fam. Charadriidae

Charadrius dubius – *Rhinonyssus karelinae*, *Rh. mileni*

Passeriformes

Fam. Emberizidae

Emberiza citrinella – *Ptilonyssus poriazovi*

Fam. Hirundinidae

Hirundo rustica – *Ptilonyssus dimi*

Riparia riparia – *Ptilonyssus harco*

Fam. Muscicapidae

Oenanthe oenanthe - *Sternostoma alexmironi*, *S. chakarovae*

Fam. Turdidae

Turdus pilaris – *Sternostoma delianovae*, *S. enevi*

Piciformes

Fam. Picidae

Dendrocopos major – *Sternostoma antoni*

Podicipediformes

Fam. Podicipedidae

Podiceps ruficollis – *Rhinonyssus sixli*

Chiroptera**Fam. Spinturnicidae****Fam. Pteropodidae**

Rousettus aegyptiacus - *Meristaspis kenaensis*, *M. lateralis*, *Ancystropus aethiopicus*, *A. zeleborii*

Fam. Vespertilionidae

Myotis emarginatus – *Spinturnix emarginata*

Fam. Phyllostomatidae

Periglischrus herrerae Machado-Allison, 1965 is recorded also on *Anoura* sp., *Sturnira ludovici*, *S. lilium* by Morales-Malacara et al. (2020).

Publications on Rhinonyssidae and Spinturnicidae

(suppl. 2020 - 2021)

Rhinonyssidae

- De Rojas M., J. Doña, I. Dimov. 2020. A comprehensive survey of Rhinonyssid mites (Mesostigmata: Rhinonyssidae) in Northwest Russia: New mite-host associations and prevalence data. - *Biodiversity Data Journal* 8: e49535, 1- 37.
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- Dimov I. 2020a. Four new species of nasal mites *Rhinonyssus* (Mesostigmata: Rhinonyssidae) from Russia. – *Arhimed, Journal of Science and Practice*, **9**: 26 – 41.
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Spinturnicidae

- Hafez S. M., N.M. Ebaid, M.E. Tharwat, A.E. Abdel-Megeed. 1994. Bat mites of Egypt (Acari: Spinturnicidae).- *Annals of Agricultural Science (Cairo)*, **39**(1): 463-471.
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- Ojeda. 2018. Redescription of *Periglischrus herrerae* (Acari: Spinturnicidae) associated to *Desmodus rotundus* (Chiroptera: Phyllostomidae: Desmodontinae), with a description of adult female heteromorphism and an analysis of its variability throughout the Neotropics. - *Journal of Medical Entomology*, **55**(2): 300–316.
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- Nguyen Thanh Luong, M.V.Orlova, Vu Quang Mu, Dinh Thong. 2021. First record of *Eyndhovenia* (Mesostigmata: Gamasina: Spinturnicidae) from Vietnam. - *Parasitology International*, **82**.
- Orlova M.V., P.B. Klimov. 2020. Local host-parasite co-extinction: the bent-wing bat *Miniopterus schreibersii* (Chiroptera: Miniopteridae) and *Spinturnix psi*. (Mesostigmata: Spinturnicidae) in Crimea. – *Plecotus et al.*, **23**: 80 – 87.
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Introduction

As a result of the recent contributions, the number of genera and species in Raphignathoidea (some of them uncertain status) is updated as follows:

Barbutiidae – 1 genus, 7 species
 Caligonellidae – 5 genera, 66 species
 Camerobiidae – 7 genera, 175 species
 Cryptognathidae – 3 genera, 66 species
 Dasythyreidae – 2 genera, 3 species
 Dytiscacaridae – 1 genus, 3 species
 Eupalopsellidae – 7 genera, 50 species
 Homocaligidae – 2 genera, 8 species
 Mecognathidae – 2 genera, 7 species
 Raphignathidae – 3 (?) genera, 83 species
 Stigmaeidae – 33 genera, 640 species
 Xenocaligonellidae – 2 genera, 5 species
 Raphignathoidea total - 68 genera, 1113 species

New contributions to the Catalogue:

Fam. Barbutiidae

Barbutia arasbaraniensis Mohammad - Doustaresharaf et Bagheri

Barbutia arasbaraniensis Mohammad - Doustaresharaf & Bagheri, 2021a: 10

Type locality:

Distribution: Iran

Barbutia theroni Khaustov, Vorontsov, Perkovsky et Klimov

Barbutia theroni Khaustov, Vorontsov, Perkovsky & Klimov, 2021: 975

Type locality: Rovno

Distribution: Ukraine

Fam. Caligonellidae

Caligonella quinqueocellata Khaustov

Caligonella quinqueocellata Khaustov, 2021: 911

Type locality: Arabat Spit

Distribution: Crimea

Caligonella astragalusi Pishehvar et Khanjani

Caligonella astragalusi Pishehvar & Khanjani, 2020: 1989

Type locality: Nahavad, Hamedan Province

Distribution: Iran

Molothrognathus sibiricus Khaustov

Molothrognathus sibiricus Khaustov, 2022: 99

Type locality: Altai Republic, Kosh-Agach, 1765 m

Distribution: Russia (Altai Republic)

Molothrognathus tauricus Khaustov

Molothrognathus tauricus Khaustov, 2021: 917

Type locality: Arabat Spit

Distribution: Crimea

Neognathus sibiricus Khaustov

Neognathus sibiricus Khaustov, 2022: 99

Type locality: Tyumen Region, vicinity of lake Kushak

Distribution: Russia (Siberia)

Fam. Camerobiidae

Neophyllobius cibyci Paredes-León, Corona-López, Flores-Palacios et Toledo

Neophyllobius cibyci Paredes-León, Corona-López, Flores-Palacios & Toledo, 2016: 5

Type locality: dry forest 1 km south of San Andres de la Cal, Tepotzlán, Morelos

Distribution: Mexico

Host: inhabiting bromeliads (*Tillandsia* spp.) and living on two tree species (*Quercus obtusata* and *Sapium macrocarpum*)

Neophyllobius denizliensis Akyol

Neophyllobius denizliensis Akyol, 2020b: 88

Type locality: Denizli Province

Distribution: Turkey

Neophyllobius electrus Zmudzinski

Neophyllobius electrus Zmudzinski, 2020: 698

Type locality: Eocene Baltic Amber

Distribution: Baltic Amber

Neophyllobius glaesus Zmudzinski*Neophyllobius glaesus* Zmudzinski, 2020: 706

Type locality: Eocene Baltic Amber

Distribution: Baltic Amber

Neophyllobius tepoztlanensis Paredes-León, Corona-López, Flores-Palacios et Toledo*Neophyllobius tepoztlanensis* Paredes-León, Corona-López, Flores-Palacios & Toledo, 2016: 14

Type locality: dry forest 1 km south of San Andres de la Cal, Tepotzlán, Morelos

Distribution: Mexico

Host: inhabiting bromeliads (*Tillandsia* spp.) and living on two tree species (*Quercus obtusata* and *Sapium macrocarpum*)***Neophyllobius tescalicola*** Paredes-León, Corona-López, Flores-Palacios et Toledo
Tillandsobius Bolland, 1985 = *Tycherobius* Bolland, 1986 (after Mirza, Kamran & Alatawi, 2022: 5)*Tillandsobius floridensis* Bolland, 1986 = *Tycherobius floridensis* (Bolland) - Mirza et al., 2022: 5*Neophyllobius texanus* McGregor, 1950 = *Neophyllobius* (*Monophyllobius* Mirza, 2022:6) *texanus* McGregor***Monobius*** Alatawi et Kamran, 2022: 4*Neophyllobius electrus* Zmudzinski, 2020 = *Monobius electrus* (Zmudzinski, 2020) - Mirza et al., 2022: 5*Neophyllobius meyeræ* Bolland, 1991 = *Monobius meyeræ* (Boland) - Mirza et al., 2022: 5*Neophyllobius tescalicola* Paredes-León, Corona-López, Flores-Palacios & Toledo, 2016: 17

Type locality: dry forest 1 km south of San Andres de la Cal, Tepotzlán, Morelos

Distribution: Mexico

Host: in soil and litter under *Quercus obtusata***Fam. Cryptognathidae*****Cryptognathus karabagiensis*** Akyol*Cryptognathus karabagiensis* Akyol, 2020c: 1644

Type locality: Karabag

Distribution: Turkey

Favognathus rosulatus Doğan et Doğan*Favognathus rosulatus* Doğan & Doğan, 2020b: 71

Type locality: Turkey

Distribution: Turkey

Fam. **Raphignathidae**

Raphignathus kulaensis Akyol

Raphignathus kulaensis Akyol, 2020a: 1096

Type locality: Manisa and Denizli provinces

Distribution: Turkey

Raphignathus rakhshandehi Pishehvar et Khanjani

Raphignathus rakhshandehi Pishehvar & Khanjani, 2021: 185

Type locality: along Gamasiab river, Nahavand, Hamedan Prov.

Distribution: Iran

Raphignathus seraji Pishehvar et Khanjani

Raphignathus seraji Pishehvar & Khanjani, 2021: 186

Type locality: along Gamasiab river, Nahavand, Hamedan Prov.

Distribution: Iran

Fam. **Stigmaeidae**

Agistemus piquinnus Monjarás-Barrera et Johann

Agistemus piquinnus Monjarás-Barrera & Johann, 2020: 472

Type locality: Ciudad Victoria, Tamaulipas

Distribution: Mexico

Agistemus brasiliensis Matioli, Ueckermann & Oliveira from Mexico (Monjarás-Barrera et al., 2020)

Agistemus vulgaris Soliman et Gomaa from Egypt.

Eustigmaeus crassifolius Bizarro et Johann

Eustigmaeus crassifolius Bizarro & Johann, 2020: 826

Type locality: Belém city (1°26'09.2"S, 48°26'28.6"W), Pará state

Distribution: Brazil

Eustigmaeus johnstoni Zhang et Gerson, 1995 – recorded also from *Phlebotomus alexandri* and from *Sergentomyia (Sintonius) clydei* and *S. sintoni* by Majidi, Hajiqaanbar & Saboori (2019).

Eustigmaeus segnis (C.L. Koch) - for Spain (Santamaría et al., 2012)

Mediolata similans González-Rodríguez - for Spain (Santamaría et al., 2012)

Prostigmaeus amplius Doğan, Doğan et Türk*Prostigmaeus amplius* Doğan, Doğan & Türk, 2020: 1076

Type locality: Turkey

Distribution: Turkey

Stigmaeus akimovi Kharadov*Stigmaeus akimovi* Kharadov, 2021a: 43

Type locality: Altai Republic,

Distribution: Russia

Stigmaeus bagherii Rostami et Doustaresharaf*Stigmaeus bagherii* Rostami & Doustaresharaf, 2021: 222

Type locality: East Azerbaijan Province, north-western Iran

Distribution: Iran

Stigmaeus exilis Doğan et Doğan*Stigmaeus exilis* Doğan & Doğan, 2021: 20

Type locality: Sansa Gorge

Distribution: Turkey

Stigmaeus furcatus Dönel et Doğan, 2011 – new for Iran, recorded on *Phlebotomus alexandri* by Majidi, Hajiqanbar & Saboori (2019).***Stigmaeus fusus*** Summers, 1962 - new for Russia (Khaustov, 2021)***Stigmaeus lorestaniensis*** Ahmad-Hosseini et Jafari*Stigmaeus lorestaniensis* Ahmad-Hosseini & Jafari, 2022: 238

Type locality: Shorab Vill., Lorestan Prov.

Distribution: Iran

Stigmaeus pulumurensis Doğan et Doğan*Stigmaeus pulumurensis* Doğan & Doğan, 2020a: 42

Type locality: Pülümür Valley

Distribution: Turkey

Stigmaeus sinai Swift, 1987 – recorded also from *Phlebotomus alexandri* by Majidi, Hajiqanbar & Saboori (2019).***Stigmaeus strobiculatus*** Kharadov*Stigmaeus strobiculatus* Kharadov, 2021a: 248

Type locality: Western Siberia

Distribution: Russia

Stigmaeus youngi (Hirst, 1926) - new for Iran, recorded on *Phlebotomus alexandri*, *Sergentomyia theodori* and *S. sintoni* (Majidi, Hajikanbar & Saboori, 2019)

Distribution of Raphignathoidea (suppl.)

EUROPE

Russia (Khaustov, 2021a,b) – *Stigmaeus akimovi* (Altai), *S. scrobiculatus* (Siberia)

Crimea (Khaustov, 2021c) – *Caligonella quinqueocellata*, *Molothrognathus turcicus*

Spain (Santamaría et al., 2012) – *Eustigmaeus* [*Ledermulleria*] *segnis*, *Mediolata similans*

Turkey (Doğan, Doğan & Erman, 2018; Akyol, 2020a, 2020b, 2020c, 2021a, 2021b; Akyol & Koc, 2020; Cobanoglu, Ögreten & Sade, 2021; Doğan, 2020; Doğan & Doğan, 2020a, b, c; Doğan & Doğan, 2021; Doğan, Doğan & Türk, 2018, 2020) – *Cryptognathus karabagiensis*, *Favognathus rosulatus*, *Molothrognathus shirazicus*, *Paraneognathus wangae*, *Prostigmaeus amplius*, *P. kannjanii*, *Raphignathus gracilis*, *R. kulaensis*, *Stigmaeus exiis*, *S. pulumurensis*, *S. shabestariensis*

Ukraine (Khaustov et al., 2021) – *Barbutia theroni*

ASIA

Iran (Majidi, Hajikanbar & Saboori, 2019; Siahkamari et al., 2020; Khosravinedzad, Jafari & Paktinat-Saeij, 2020; Pishehvar & Khanjani, 2021; Rostami, 2021; Gassemi & Hadjizadeh, 2021; Doustaresharaf & Bagheri, 2021a, 2021b, Ahmad-Hosseini & Jafari, 2022) – *Barbutia arasbaraniensis*, *Eustigmaeus johnstoni*, *Raphignathus rakhshandehi*, *R. seraji*, *Stigmaeus bagherii*, *S. furcatus*, *S. lorestaniensis*, *S. sinai*, *S. youngi*

Saudi Arabia (Mirza, Kamran & Alatawi, 2022) - *Camerobia southcotti*, *Neophyllobius combreticola*, *N. denizliensis*, *N. lorestanicus*, *Tycherobius emadi*

NORTH AMERICA

Mexico (Monjarás-Barrera et al., 2020) – *Agistemus brasiliensis*, *A. piquinnus*

SOUTH AMERICA

Brazil (Bizarro et al., 2020; Toldi et al., 2021 - *Eustigmaeus crassifolius*

Hosts

Diptera

Fam. Psychodidae

Phlebotomus (*Paraphlebotomus*) *alexandri* – *Eustigmaeus johnstoni*, *Stigmaeus furcatus*, *S. sinai*

P. (Phlebotomus) papatasi - *Eustigmaeus johnstoni*, *S. sinai*, *S. youngi*

Sergentomyia (Sintonius) clydei - *Eustigmaeus johnstoni*

Se. (Se.) sintoni - *Eustigmaeus johnstoni*, *Stigmaeus youngi*
Se. (Se.) theodori - *Stigmaeus youngi*

Publications on Raphignathoidea

(suppl. 2020 - 2021)

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- Ahmad – Hosseini M., Sh. Jafari. 2022. *Stigmaeus lorestaniensis*, a new species of the genus *Stigmaeus* (Acari: Stigmaeidae) from Southwest of Iran. - *Persian Journal of Acarology*, **11**(2), serial No41: 237 – 243.
- Akyol M. 2020a. A new species of the genus *Raphignathus* Dugès (Acari: Raphignathidae) from the Aegean region of Turkey. – *Syst. Appl. Acarol.*, **25**(6): 1095 – 1101.
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- Akyol M. 2020c. A new species of the genus *Cryptognathus* Kramer (Acari: Cryptognathidae) from the Aegean Region of Turkey. - *Syst. Appl. Acarol.*, **25**(9): 1643 – 1648.
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- Akyol M., K. Koc 2020. Erratum: M. Akyol & K.Koc, A new species and a new record of the genus *Tycherobius* (Acari: Camerobiidae) for the Turkish Fauna. – *Syst. Appl. Acarol.*, **22**(2): 21 – 27 (2017). – *Syst. Appl. Acarol.*, **25**(4): 773 – 774.
- Bizarro G. L., A. C. da Silva Noronha, G.L. Da Silva, N. J. Ferla, L. Johanna. 2020. A new species of *Eustigmaeus* Berlese (Acari: Stigmaeidae) from Brazil. – *Acarologia*, **60**(4): 825-830.
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- Doğan S., S. Doğan. 2018. The stigmaeid mites (Acari: Stigmaeidae) from Yedigöller, Ecece Mountains (Turkey). *Abstr. Ecol. Intern. 2018 Symp.*, Kastamonu, 19-23 June 2018: 771.
- Doğan Sibel, S. Doğan. 2020a. A new species of the genus *Stigmaeus* Koch (Acari, Stigmaeidae) from Pülümür Valley (Turkey)[Orig. Turk.]. – *Acarological Studies*, **2**(1): 41 – 45.
- Doğan S., S. Doğan. 2020b. A new species of the genus *Favognathus* (Acariformes: Cryptognathidae) from Turkey, with some taxonomic comments on other members of the genus. [Orig. Turk.]. – *Acarological Studies*, **2**(1): 69 – 76.
- Doğan S., S. Doğan. 2020c. Newly recorded stigmaeid mites (Acariformes: Raphignathoidea: Stigmaeidae) for the fauna of Turkey. – *Acarological Studies*, **2**(2): 94 – 118.

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Update 2020 - 2021 to Vol. VIII

Beron P. 2020. Acarorum Catalogus. VIII. Cheyletoidea, Cloacaroidea. Pensoft & Nat. Mus. Natur. Hist. Sofia: 465 p.

Introduction

As a result of the recent contributions, the number of genera and species in and (some of them uncertain status) is updated as follows:

Cheyletidae – 80 genera, 474 species

Psorergatidae – 3 genera, 77 species

Demodecidae – 8 genera, 122 species

Harpyrhynchidae - 16 genera, 135 species

Syringophilidae - 63 genera, 416 species

Cloacaridae - 6 genera, 15 species

Epimyodidae – one genus, four species

New contributions to the Catalogue:

Fam. **Cheyletidae**

Bak deleoni Yunker, 1961 – new for India (Modak et al., 2004)

Chelacaropsis moorei Baker, 1949 – India, W. Bengal (A. Gupta et al., 2006), India, Andaman Isl. (Gupta & Ghosh, 1980)

Cheyletus cacahuamilpensis Baker, ***Cheyletomimus congensis*** (Cunliffe) for Egypt (Abdelgayed et al., 2020), ***Cheyletus cacahuamilpensis*** - for Brazil (Pellegrini & Ferreira, 2013)

Ornithocheyletia lukoschusi Smiley, ***O. pingus*** Smiley, ***O. hallae*** Smiley, ***O. gersoni*** Smiley – new for Egypt (Halawa, Osman & Ahmed, 2019)

Samsinakia trilobites Bochkov et Mironov - new for Iran (Kazemi & Pektinat-Saeij, 2021)

Fam. **Demodecidae** – Pormann et al., 2021

Fam. **Harpyrhynchidae**

Harpyrhynchoides [Harpyrhynchus] vercammeni (Lawrence) – new for Egypt (Halawa, Osman & Ahmed, 2019)

Fam. **Syringophilidae**

Syringophiloidus minor (Berlese) – new for Egypt (Halawa, Osman & Ahmed, 2019)

Bubophilus aegolius Skoracki, Kosicki et Kwiecinski
Bubophilus aegolius Skoracki, Kosicki & Kwiecinski, 2021: 355
 Type locality: Poland, Zielenogora, Stary Kisielin
 Distribution: Poland, Finland, Switzerland
 Host: *Aegolius funereus* (Strigiformes: Strigidae)

Distribution of Cheyletoidea and Cloacoidea (suppl.)

ASIA

India (Modak et al., 2004; Gupta et al, 2004; A. Gupta et al., 2006; Gupta & Ghosh, 1980)

– *Chelacaropsis moorei*, *Bal deleari*

Iran (Kazemi & Pektinat-Saeij, 2021) – *Samsinakia trilobitus*

AFRICA

Egypt (Abdelgayed et al., 2020; Atwa et al., 2018; Halawa et al., 2019) – *Cheyletus caca-huampilensis*, *Cheyletomimus congensis*, *Harpyrhynchoides [Harpyrhynchus] vercammeni*, *Ornithocheyletia lukoschusi*, *O. pingus*, *O. hallae*, *O. gersoni*, *Syringophiloidus minor*

SOUTH AMERICA

Brazil (Pellegrini & Ferreira, 2013) - *Cheyletus caca-huampilensis*

Hosts

Aves

Columbiformes

Fam. Columbidae

Streptopelia senegalensis aegyptiaca - *Harpyrhynchoides* [*Harpyrhynchus*] *vercammeni*, *Ornithocheyletia lukoschusi*, *O. hallae*, *O. gersoni*, *O. pinguis*
Columba livia domestica - *Ornithocheyletia lukoschusi*

Passeriformes

Fam. Passeridae

Passer domesticus niloticus - *Syringophiloidus minor*

Strigiformes

Fam. Stigidae

Aegolius funereus - *Bubophilus aegolius*

Publications on Cheyletoidea and Cloacoidea

(suppl. 2020 – 2021 and omitted)

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Beron P. 2021. Acarorum Catalogus. IX. Schizoglyphoidea (Schizoglyphidae) Histiostomatoidea (Histiostomatidae, Guanolichidae) Canestrinioidea (Canestriniidae, Chetochelacaridae, Lophonotacaridae, Heterocoptidae) Hemisarcoptoidea (Chaetodactylidae, Hyadesiidae, Algophagidae, Hemisarcoptidae, Carpoglyphidae, Winterschmidtidae). Pensoft & Nat. Mus. Natur. Hist. Sofia: 396 p.

The recent article of R. Haitlinger altered drastically the system of fam. Canestriniidae with the description of 9 new genera and the change of the taxonomy of 24 species.

Haitlinger R. 2022. A review of host-commensal associations between canestriniid mites (Astigmata: Canestriniidae) and Insects with keys and descriptions of new genera. - *The European Zoological Journal*, **89**(1).

The new genera are: *Balearella*, (Ibizella Haitlinger et Šundić, 2016, syn.), *Cercediphotia*, *Ciprusenia*, *Ismaeilienia*, *Javanellina*, *Kuramansenia*, *Midiphotia*, *Phalerotusellus*, *Sumatranella*.

24 species are transferred to another or new genera: *Balearella asilahica*, *B. balearica*, *B. samsinaki*, *Ciprusenia carabicola*, *C. izabelae*, *C. kamelskyi*, *C. sellnicki*, *C. viviannae*, *Imaielienia egypti*, *I.maroccana*, *Javanellina macgillavryi*, *Kuramasenia illegalis*, *K. paavoi*, *K. pekingensis*, *K. pictura*, *K. ramoni*, *Midiphotia hispanica*, *M. jureceki*, *Phaleratusellus alatus*, *Pseudocanestrinia damiani*, *P. roberti*, *Sumatranella batocerae*, *S. elae* and *S.phoebinae*.

As a result of the recent contributions, the number of genera and species in this volume (some of them uncertain status) is updated as follows:

- Schizoglyphidae – 1 genus, 1 species
 Histiostomatidae – 58 genera, 522 species
 Guanolichidae – 3 genera, 4 species
 Canestriniidae – 100 genera, 348 species
 Chetochelacaridae – 1 genus, 1 species

Lophonotacaridae – 1 genus, 1 species
Heteroptidae – 12 genera, 28 species
Chaetodactylidae – 5 genera, 110 species
Hyadesiidae – 2 genera, 47 species
Algophagidae – 8 genera, 22 species
Hemisarcoptidae – 8 genera, 24 species
Carpoglyphidae – 4 genera, 10 species
Winterschmidtidae – 25 genera, 138 species

The series Acarorum Catalogus

Vol. I (2008) – Erythraeidae, Smarididae, Calyptostommatidae – 3 fam., 68 genera, 959 sp.

II (2011) – Listrophoroidea - 5 fam., 100 genera, 925 sp.

III (2014) - Opilioacarida, Holothyrida, Mesostigmata - 13 fam., 85 genera, 422 sp.

IV (2015) – Myobiidae, Pterygosomatidae - 2 fam., 68 genera, 707 sp.

V (2015) – Sarcoptoidea, Analgoidea, 19 fam., 145 genera, 509 sp.

VI (2020) – Rhinonyssidae, Spinturnicidae - 2 fam., 28 genera, 568 sp.

VII (2020) - Raphignathoidea - 12 fam., 68 genera, 1113 sp.

VIII (2020) – Cheyletoidea, Cloacaroidea - 13 fam., 177 genera, 1243 sp.

**IX (2021) – Schizoglyphoidea, Histiostomatoidea, Canestrinioidea, Hemisarcop-
toidea - 13 fam., 233 genera, 1240 sp.**

**X (2022) - Labidostommatoidea, Eupodoidea, Tydeoidea, Paratydeoidea, Anystoidea,
Caeculoidea, Adamystoidea, Pomerantzioidea – 20 fam., 230 genera, 967 sp. Supple-
ments: 1 fam., 11 genera, 149 sp. Added: 9 new genera, described by Haitlinger (2022).**

Total: 102 fam., 1222 genera, 8815 sp.

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ACARORUM CATALOGUS

X

The tenth and last volume of this series "Acarorum Catalogus" is devoted to the Superfamilies Labidostommatoidea (Labidostommatidae), Eupodoidea (Eupodidae, Dendrochaetidae, Rhagidiidae, Eriorhynchidae, Pentapalpidae, Penthlodidae, Penthaleidae, Strandtmanniidae), Tydeoidea (Ereynetidae), Paratydeoidea (Paratydeidae), Anystoidea (Anystidae, Erythracaridae, Teneriffiidae, Pseudocheylidae, Stigmocheylidae), Caeculoidea (Caeculidae), Adamystoidea (Adamystidae), and Pomerantzioidea (Pomerantziidae). About 230 genera and 967 species of mites 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. Follows a supplement to the former nine volumes. The entire series contains data on 102 families, 1222 genera, and 8815 species of mites.

