



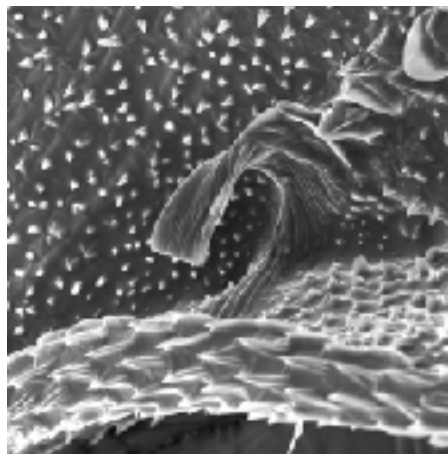
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Psocid News

The Psocidologists' Newsletter



No. 20 (Feb 28, 2018)

In-flight wing-coupling structure of *Metylophorus* sp. (Psocidae)
(© Naoki Ogawa: See Ogawa & Yoshizawa, 2017b)

AUTHORITIES FOR FAMILY-GROUP NAMES OF TROGIOMORPHA (INSECTA: PSOCODEA: 'PSOCOPTERA')

By **Charles LIENHARD** and **Kazunori YOSHIZAWA**

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Introduction

Unfortunately, a comprehensive documentation of authorities for family-group names is lacking for psocids. This lack of information is particularly problematic in a period when phylogenetic research results in the frequent propositions of new classifications (e. g. Yoshizawa & Johnson, 2014; Yoshizawa *et al.*, 2014; Yoshizawa, 2016).

According to the principle of coordination applied to family-group names (ICZN Article 36) each name can be used in all ranks of the family-group with the same authorship and date, the rank-specific suffixes being -ina (subtribe), -ini (tribe), -inae (subfamily), -idae (family) and -oidea (superfamily).

All family-group names of the suborder Trogiomorpha that we were able to retrieve from the literature are listed here, including names based on fossil genera clearly assignable to Psocoptera (see Mockford *et al.*, 2013). The only known invalid name (Lepidillinae) is also listed and the reason of its invalidity is indicated.

The family-group names are listed alphabetically, each name in its original spelling and with its original suffix. For each name the authority [author(s), year, page] is indicated and, in parentheses, its type genus. For names with a non-evident stem the latter is indicated in square brackets, if necessary together with the correct spelling of the family-group name (according to mandatory changes or changes ruled by the ICZN). The names currently used (often with a suffix that is not identical to the original one) in the generally accepted classification of psocids are in bold type. This classification essentially corresponds to Lienhard & Smithers (2002), but includes some further changes documented by Lienhard (2012, 2013, 2014, 2015, 2016a, 2016b, 2017). These publications also contain all bibliographical details about the type genera, while the bibliographical references concerning the family-group names are listed below.

This list is an accessory result of several years of taxonomic research on the suborder Trogiomorpha. However, it is only a first step towards a comprehensive list of all family-group names of psocids, including

also the suborders Troctomorpha and Psocomorpha. We invite the reader to inform us about errors or omissions.

List of family-group names of Trogiomorpha

- Anomocopiidae [*sic*] Smithers, 1972: 337 [Anomocope-; Anomocopeidae] (*Anomocopeus* Badonnel, 1967)
Archaeatropidae Baz & Ortuño, 2000: 369 (*Archaeatropos* Baz & Ortuño, 2000)
Atropida Leach, 1815: 139 (*Atropos* Leach, 1815) (see Trogiidae, below)
Dorypteryginae Enderlein, 1903: 208 [Dorypteryg-] (*Dorypteryx* Aaron, 1883)
Echinopsocidae Enderlein, 1906: 109 (*Echinopsocus* Enderlein, 1903)
Echmepterygini Karny, 1930: 448 [Echmepteryg-] (*Echmepteryx* Aaron, 1886)
Empheriidae Kolbe, 1884: 37 (*Empheria* Hagen, 1856)
Eosillinae Ribaga, 1908: 22 (*Eosilla* Ribaga, 1908)
Lepidillinae Ribaga, 1905: 100 (*Lepidilla* Ribaga, 1905 *nec* *Lepidilla* Matthew, 1885). Comment: This is an invalid name due to the homonymy of its type genus (ICZN Article 39).
Lepidopsocidae Enderlein, 1903: 207 (*Lepidopsocus* Enderlein, 1903)
Lepinotinae Enderlein, 1905: 3 (*Lepinotus* Heyden, 1850). Comment: See remark on Trogiidae, the family to which the genus *Lepinotus* is currently assigned.
Lepolepidinae Roesler, 1944: 134 (*Lepolepis* Enderlein, 1906)
Parasoinae Mockford, 2005: 208 (*Parasoa* Thornton, 1962)
Perientomini Kolbe, 1884: 37 (*Perientomum* Hagen, 1865)
Prionoglarinae [*sic*] Karny, 1930: 448 [Prionoglarid-; **Prionoglaridinae**] (*Prionoglaris* Enderlein, 1909)
Psocatropidae [*sic*] Pearman, 1936: 60 [Psocathropidae] (*Psocathropos* Ribaga, 1899)
Psoquillidae Kolbe, 1884: 37 (*Psoquilla* Hagen, 1865)
Psyllipsocini Kolbe, 1884: 38 (*Psyllipsocus* Selys-Longchamps, 1872)
Rhyopsocini [*sic*] Karny, 1930: 446 [Rhyopsocini] (*Rhyopsocus* Hagen, 1876)
Scoliopsyllopsidae Badonnel, 1931: 256 (*Scoliopsyllopsis* Enderlein, 1912)
Sensitibillini Lienhard, 2007: 445 (*Sensitibilla* Lienhard, 2000)
Siamoglaridini Azar, Huang & Nel, 2017 *in*: Azar *et al.*, 2017: 147 [Siamoglarid-] (*Siamoglaris* Lienhard, 2004)
Speleketoridae Smithers, 1972: 337 (*Speleketor* Gurney, 1943)
Thylacellinae Roesler, 1944: 131 (*Thylacella* Enderlein, 1911). Comment: This name is generally but incorrectly used for the subfamily of Lepidopsocidae that contains the genera *Thylacella* and *Thylax* (Lienhard & Smithers, 2002); the name Thylacinae has priority over Thylacellinae.
Thylacinae Enderlein, 1903: 208 [Thylac-] (*Thylax* Hagen, 1866). Comment: See remark on Thylacellinae.
Trogiidae Enderlein, 1911: 293 (1815) (*Trogium* Illiger, 1798). Comment: This name takes precedence over Atropidae Leach, 1815 with the date of the latter as date of priority (ICZN Article 40.2.1 and Recommendation 40A).
Udamolepidini Karny, 1930: 446 [Udamolepid-] (*Udamolepis* Enderlein, 1912)

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ADDITIONS AND CORRECTIONS (PART 17) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) – WORLD CATALOGUE AND BIBLIOGRAPHY"

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1. Introduction

This is the 17th part of a series of "Additions and Corrections to the World Catalogue and Bibliography" (Lienhard & Smithers, 2002) published in "Psocid News". Parts 1-16 were published in Psocid News no. 4-19 (see below); a **Synthesis of Parts 1-10** is given by Lienhard (2016d).

Please send me regularly copies of your papers on Psocoptera, and please inform me about errors that you find in Lienhard & Smithers (2002). If papers which came to your notice are not treated in the "Additions", please send me the bibliographical references by e-mail. In the "Additions to the Bibliography", references to the papers which I have not yet seen are marked with "(Not seen)" or "(Only abstract seen)". Please send me a copy or PDF of these papers if you feel concerned. Only papers which I have seen are analysed for the "Additions to the Catalogue", or those where the matter they deal with is clearly indicated in the title or in the abstract.

In general these "Additions" present the information in the style of the catalogue (Lienhard & Smithers, 2002), according to the criteria mentioned there (pp. ix-xli) and using the same abbreviations (see pp. xl-xli). For each family, newly published changes concerning supra-generic taxa are mentioned at the beginning of the family treatment. For genus-group names and species-group names already listed by Lienhard & Smithers (2002) only the author is cited here. For new names the complete reference (author, year, page) is given in their first entry, where new genus-group names are marked with two asterisks (**) and new species-group names with one asterisk (*). For a name not listed by Lienhard & Smithers (2002), but cited in a preceding part of the "Additions", author and year are always mentioned. Genera are listed alphabetically within each family. Species are listed alphabetically within each genus. Species names are cited in the combination used by Lienhard & Smithers (2002), if not an explicit change of combination (or a new synonymy) has been published since.

The "Corrections" refer to the pages of Lienhard & Smithers (2002) and the changes proposed here are usually underlined.

No nomenclatural act is published in the "Additions to the Catalogue" because articles in "Psocid News" are not considered as published works under the rules of ICZN (see Editorial: Disclaimer). Sometimes recommendations to future revisers are given concerning nomenclatural acts which eventually should be published. Only some mandatory changes are made in the "Additions to the Catalogue" (e. g. adaptation of species name ending to the grammatical gender of the genus name).

2. List of countries mentioned in the "Additions and Corrections to the World Catalogue" (Parts 1-17)

Country checklists of Psocoptera species extracted from Lienhard & Smithers (2002) are given by Lienhard (2016b).

All additional species records are mentioned in the "Additions and Corrections to the World Catalogue" and all countries mentioned in Parts 1 to 17 of these Additions are listed below, arranged according to the main geographical regions defined for the Catalogue (**I-X**), with a separate heading for fossils (**A**), mainly from amber. This list is provided to facilitate computer searching for distributional references in the online version of the different parts which can be found at <http://hdl.handle.net/2115/35519> or in the **Synthesis of Parts 1-10** given by Lienhard (2016d).

- Part 1 – Psocid News, no. 4 (2003): 2-24 (= Lienhard, 2003a)
- Part 2 – Psocid News, no. 5 (2003): 2-37 (= Lienhard, 2003b)
- Part 3 – Psocid News, no. 6 (2004): 1-23 (= Lienhard, 2004a)
- Part 4 – Psocid News, no. 7 (2005): 1-16 (= Lienhard, 2005a)
- Part 5 – Psocid News, no. 8 (2006): 1-18 (= Lienhard, 2006a)
- Part 6 – Psocid News, no. 9 (2007): 1-17 (= Lienhard, 2007a)
- Part 7 – Psocid News, no. 10 (2008): 1-18 (= Lienhard, 2008a)
- Part 8 – Psocid News, no. 11 (2009): 2-16 (= Lienhard, 2009a)
- Part 9 – Psocid News, no. 12 (2010): 1-18 (= Lienhard, 2010)
- Part 10 – Psocid News, no. 13 (2011): 1-18 (= Lienhard, 2011a)

Synthesis of Parts 1-10, see Lienhard (2016d)

Part 11 – Psocid News, no. 14 (2012): 1-13 (= Lienhard, 2012a)

Part 12 – Psocid News, no. 15 (2013): 1-21 (= Lienhard, 2013)

Part 13 – Psocid News, no. 16 (2014): 1-20 (= Lienhard, 2014)

Part 14 – Psocid News, no. 17 (2015): 1-17 (= Lienhard, 2015)

Part 15 – Psocid News, no. 18 (2016): 1-12 (= Lienhard, 2016a)

Part 16 – Psocid News, no. 19 (2017): 1-18 (= Lienhard, 2017)

Part 17 – Psocid News, no. 20 (2018) (= present issue)

(I) Albania (Parts 14, 16), Austria (Parts 1, 3, 4, 5, 6, 8, 9), Bahrain (Part 8), Belgium (Parts 3, 6, 8, 10, 16, 17), Bosnia-Herzegovina (Part 14), Bulgaria (Parts 8, 14, 16, 17), Croatia (Parts 6, 7, 11, 12), Cyprus (Part 11), Czech Republic (Parts 1, 4, 5, 6, 7, 8, 10, 11, 13, 14, 16), Denmark (Parts 10, 12), Egypt (Part 6), Europe (Parts 10, 11, 12), Finland (Parts 1, 7, 10, 11, 12, 13, 15), France (Parts 1, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14), Germany (Parts 1, 3, 4, 5, 7, 8, 10, 11, 12, 14, 16), Great Britain (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17), Greece (Parts 5, 6, 11, 14, 17), Greenland (Part 15), Hungary (Parts 1, 3, 10), Iceland (Part 10), Iran (Parts 6, 8, 15, 16, 17), Ireland (Parts 6, 9, 13, 17), Israel (Parts 4, 6, 8, 11, 15, 16), Italy (Parts 1, 3, 5, 6, 7, 8, 9, 10, 17), Kosovo (Part 14), Lebanon (Parts 6, 7, 9, 10, 11, 13, 14), Lithuania (Part 8), Luxembourg (Parts 1, 3, 7, 8, 10, 13, 17), Macedonia (Part 14), Malta (Parts 15, 16), Montenegro (Part 14), Morocco (Parts 10, 15), Netherlands (Parts 4, 7, 9, 11, 14, 16, 17), Norway (Parts 4, 10, 13), Oman (Part 8), Poland (Part 13), Portugal (Parts 6, 7), Romania (Parts 10, 14, 16, 17), Russia (Parts 6, 8, 10, 12, 13, 14, 16), Saudi Arabia (Parts 8, 15), Serbia (Part 14), Slovakia (Parts 1, 11, 13), Spain (Parts 1, 5, 7, 8, 9, 11, 12, 13, 17), Sweden (Part 8, 10, 17), Switzerland (Parts 1, 3, 4, 6, 7, 8, 11, 12), Turkey (Parts 5, 10, 15), UAE (Parts 8, 9), Ukraine (Part 6), Yemen (Parts 4, 8)

(II) Ascension Island (Parts 11, 15), Azores (Parts 5, 11), Canary Islands (Parts 1, 4, 5, 10, 11), Cape Verde Islands (Parts 5, 11, 15), Gough Island (Parts 5, 6), Madeira (Parts 5, 8, 15), Saint Helena (Parts 5, 11), Selvagens Islands (Parts 1, 8)

(III) Bahamas (Part 13), Canada (Parts 4, 6, 7, 8, 13), North America (Parts 11, 12), USA (Parts 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

(IV) Antigua (Part 15), Aruba (Part 15), Belize (Parts 1, 4, 6, 8, 9, 10, 15), Costa Rica (Parts 1, 6, 8, 15, 17), Cuba (Parts 6, 11), Curaçao (Part 15), Dominica (Parts 5, 6, 11), Dominican Republic (Parts 4, 6, 7, 8, 12, 13, 14), Guadeloupe (Part 15), Guatemala (Parts 1, 4, 7, 8, 11, 15, 16, 17), Haiti (Parts 1, 4), Hispaniola (Part 10), Honduras (Parts 8, 15), Jamaica (Parts 7, 8, 9, 15), Mexico (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17), Middle America (Part 11), Nicaragua (Parts 1, 3, 4, 6, 7, 8, 13), Panama (Parts 4, 6, 8, 17), Puerto Rico (Parts 1, 7, 10, 13), Trinidad (Parts 1, 16)

(V) Argentina (Parts 3, 4, 8, 9, 14), Bolivia (Parts 1, 5, 9, 10, 17), Brazil (Parts 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17), Chile (Parts 1, 4, 6, 8), Colombia (Parts 1, 10, 11, 12, 13, 14, 15, 16, 17), Ecuador (Parts 1, 6, 8, 13, 15, 16), Paraguay (Parts 13, 14, 15), Peru (Parts 1, 5, 6, 8, 9, 10, 11, 12, 13, 14, 16, 17), Suriname (Part 10), Venezuela (Parts 1, 4, 6, 7, 8, 10, 15, 17)

(VI) Ghana (Part 4), Guinea (Part 1), Kenya (Parts 4, 15, 16), Liberia (Part 15), Madagascar (Part 5), Malawi (Part 3), Mozambique (Part 15), Namibia (Parts 1, 6, 7, 8, 10), Rwanda (Part 15), Senegal (Part 15), South Africa (Parts 3, 6, 7, 8, 11), Tanzania (Parts 3, 4), Togo (Part 15), Uganda (Part 6)

(VII) Reunion (Part 15)

(VIII) Brunei (Parts 5, 6), China (Parts 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17), Hong Kong (Part 5), India (Parts 3, 5, 6, 7, 11, 15), Indonesia (Parts 1, 3, 5, 6, 10, 15), Japan (Parts 1, 4, 6, 7, 8, 9, 10, 12, 16), Kazakhstan (Part 13), Korea (Part 17), Kuril Islands (Part 4), Kyrgyzstan (Part 5), Laos (Parts 5, 6, 17), Malaysia (Parts 1, 5, 6, 8, 10, 14, 15), Myanmar (Parts 6, 8, 13, 14, 16, 17), Nepal (Part 7), New Guinea (Parts 3, 5, 8), Pakistan (Part 14), Philippines (Parts 3, 5, 6, 14), Russia (Parts 1, 10, 11), SE-Asia (Part 7), Singapore (Parts 5, 14, 15), Sri Lanka (Parts 4, 6), Taiwan (Parts 1, 6, 7, 8, 13, 15, 17), Thailand (Parts 1, 4, 5, 6, 9, 11, 15), USSR (Parts 4, 9), Vietnam (Parts 4, 5, 6, 8, 13, 14, 15, 17)

(IX) Australia (Parts 1, 4, 5, 6, 7, 8, 10, 12, 13, 14), Lord Howe Island (Parts 4, 7), New Zealand (Parts 1, 4, 13, 16), Subantarctic islands (Part 13), Tasmania (Part 9)

(X) Easter Island (Parts 13, 16), Fiji (Parts 8, 15), Galapagos (Parts 5, 12), Hawaii (Parts 8, 13, 14), New Caledonia (Part 12)

(A) Amber and Copal (or other fossils) (Parts 1, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)

3. Additions to the Catalogue

Acercaria / Paraneoptera

Prokop *et al.*, 2017: Introduction of the new superorder **Clareocercaria** (= Acercaria s.l.) and phylogenetic analysis of this group which contains also the Psocodea.

Psocodea

Phylogeny, evolution: Beutel *et al.*, 2017.

Psocoptera

Collins & Hespenheide, 2016: Venezuela (V) (bird as predator). Rasnitsyn *et al.*, 2016 (A) (several families in Cretaceous amber). Rydell *et al.*, 2016: Sweden (I) (bats as predators). Silva-Neto *et al.*, 2016e (method for storage of slides and capsule with thorax in alcohol). Erwin & Henry, 2017 (Carabid beetles under webbing of psocids). Lienhard 2017 (Additions to the World Catalogue and Bibliography, Part 16). Maute *et al.*, 2017 (locust control, psocids as non-target insects). Ross, 2017 (A) (checklist of species from Burmese amber). Yoshizawa, 2017 (Newsletter). Xu Si-Yuan *et al.*, 2017: China (VIII) (larval Erythraeidae mite parasitic on psocid).

Prionoglarididae

Azar *et al.*, 2017: Species checklist and definition of new tribe **Siamoglaridini** Azar, Huang & Nel (*in* Azar *et al.*, 2017: 147), within Prionoglaridinae (for *Siamoglaris* Lienhard and *Palaeosiamoglaris* Azar, Huang & Nel).

Yoshizawa *et al.*, 2017a: Monophyly of family supported by mitochondrial phylogeny.

Neotroglia Lienhard. Behaviour: Kamimura & Yoshizawa, 2017 (sex role reversal); Zwart, 2017: p. 47 (scenario of 'phallic woman' phantasm is something biologically real in *Neotroglia*).

Neotroglia spec. Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Neotroglia curvata Lienhard & Ferreira, 2013. Brazil (V): Angarten *et al.*, 2017 (in cave). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure)

Palaeosiamoglaris** Azar, Huang & Nel, 2017, *in* Azar *et al.*, 2017: 147. Gender: F. Type species: *Palaeosiamoglaris lienhardi* Azar, Huang & Nel.

Palaeosiamoglaris burmica* Azar, Huang & Nel, 2017, *in* Azar *et al.*, 2017: 149. Myanmar (VIII), in Cretaceous amber (A).

Palaeosiamoglaris inexpectata* Azar, Huang & Nel, 2017, *in* Azar *et al.*, 2017: 150. Myanmar (VIII), in Cretaceous amber (A).

Palaeosiamoglaris lienhardi* Azar, Huang & Nel, 2017, *in* Azar *et al.*, 2017: 148 (several times misspelled *leinhardi*). Myanmar (VIII), in Cretaceous amber (A).

Prionoglaris dactyloides Lienhard. Greece (I): Beron, 2016 (in caves).

Prionoglaris stygia Enderlein. Greece (I): Beron, 2016 (in caves). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure). Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Speleketor irwini Mockford. Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Psyllipsocidae

Dorypteryx domestica (Smithers). Great Britain (I): Robinson & Allan, 2017 (in Museum). Parasit.: Rueckert & Devetak, 2017 (Gregarine species *Enterocystis dorypterygis*; potential biological control). Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Dorypteryx longipennis Smithers. Great Britain (I): Robinson & Allan, 2017 (in Museum).

Psyllipsocus ramburii Selys-Longchamp. Greece (I): Beron, 2016 (in caves). Italy (Island of Sardinia) (I): Mucedda *et al.*, 2013 (in caves). Mexico (IV): Reddell, 1982 (in cave).

Psyllipsocus yucatan Gurney. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Trogiidae

Cerobasis guestfalica (Kolbe). Bulgaria (I): Georgiev, 2017d. Greece (I): Georgiev, 2017c. Biol.: Ma & Schwander, 2017 (parthenogenesis believed to be endosymbiont-induced by *Wolbachia*).

Lepinotus inquilinus Heyden. Bulgaria (I): Georgiev, 2017d.

Lepinotus reticulatus Enderlein. Greece (I): Georgiev, 2017c. Iran (I): Khandehroo *et al.*, 2015. Romania (I): Chiriliuc & Andriescu, 2016 (collected from dry hibernating stems by "Schmitz" photo selector). Korea (VIII): Soysouvanh *et al.*, 2017.

Trogium pulsatorium (Linnaeus). Korea (VIII): Soysouvanh *et al.*, 2017. Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Psoquillidae

Psoquilla spec. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Psoquilla marginepunctata Hagen. Netherlands (I): Noordijk *et al.*, 2017.

Lepidopsocidae

Lepidopsocidae gen. spec. Genet.: Liu Xiaochen *et al.*, 2017 (mitochondrial genome). Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Echmepteryx hageni (Packard). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure). Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Troctomorpha

Phylog.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure contains an autapomorphy of Troctomorpha and a synapomorphy of Troctomorpha and Psocomorpha).

Electrentomidae

Manicapsocus alettae Smithers. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Compsocidae

*Burmacompsocus coniugans** Sroka & Nel, 2017: 598. Myanmar (VIII), Cretaceous Burmese amber (A).

Troctopsocidae

Troctopsocidae gen. spec. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Selenopsocus spec. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Musapsocidae

Musapsocus spec. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Amphientomidae

Ancylopsocus macrurus Li Fasheng. Korea (VIII): Soysouvanh *et al.*, 2017 (misspelled as *Ancylentomus macrourus*).

Stimulopalpus japonicus Enderlein. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure). Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Pachytroctidae

Tapinella spec. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Liposcelididae

Embidopsocus spec. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Liposcelis spec. Iran (I): Kahrarian, 2017. Romania (I): Chiriliuc & Andriescu, 2016 (collected from dry hibernating stems by "Schmitz" photo selector). Genet.: Beukeboom, 2017 (commentary to Hodson *et al.*, 2017); Hodson *et al.*, 2017 (sex determination).

Liposcelis arenicola Günther. Greece (I): Georgiev, 2017c.

Liposcelis bostrychophila Badonnel. Bulgaria (I): Georgiev, 2017d. Greece (I): Georgiev, 2017c. Anat.: Polilov, 2016 (adult and first instar nymph); Makarova & Polilov, 2017 (brain structure, also in nymphs). Biol.: Healy *et al.*, 2017 (*Rickettsia felis* as a symbiont); Ma & Schwander, 2017 (parthenogenesis believed to be endosymbiont-induced by *Rickettsia*). Genet.: Liu Xiaochen *et al.*, 2017 (mitochondrial genome); Sun En-Tao *et al.*, 2017 (genetic diversity in China) (VIII). Pest: Arthur *et al.*, 2017 (control by freezing); Guo Shan-Shan *et al.*, 2017a, 2017b (control); Ishibashi *et al.*, 2017 (respiratory allergy); Li Heng Yu *et al.*, 2017 (control); Liu Li-Jun *et al.*, 2017 (molecular identification).

Liposcelis brunnea Motschulsky. Liu Li-Jun *et al.*, 2017 (molecular identification).

Liposcelis corrosens (Heymons). Bulgaria (I): Georgiev, 2017e. Iran (I): Kahrarian, 2017. Pest: Liu Li-Jun *et al.*, 2017 (molecular identification).

Liposcelis decolor (Pearman). Bulgaria (I): Georgiev, 2017e. Greece (I): Georgiev, 2017c. Iran (I): Kahrarian, 2017. Genet.: Liu Xiaochen *et al.*, 2017 (mitochondrial genome). Pest: Arthur *et al.*, 2017 (control by freezing); Liu Li-Jun *et al.*, 2017 (molecular identification).

Liposcelis divinatoria (Müller). Korea (VIII): Soysouvanh *et al.*, 2017.
Liposcelis edaphica Lienhard. Iran (I): Kahrarian, 2017.
Liposcelis entomophila (Enderlein). Korea (VIII): Soysouvanh *et al.*, 2017. Genet.: Liu Xiaochen *et al.*, 2017 (mitochondrial genome). Pest: Arthur *et al.*, 2017 (control by freezing); Jing Tian-Xing *et al.*, 2017 (sensitivity to insecticides); Liu Li-Jun *et al.*, 2017 (molecular identification).
Liposcelis formicaria (Hagen). Bulgaria (I): Georgiev, 2017d.
Liposcelis keleri Günther. Iran (I): Kahrarian, 2017.
Liposcelis kyrosensis Badonnel. Greece (I): Georgiev, 2017c.
Liposcelis mendax Pearman. Pest: Liu Li-Jun *et al.*, 2017 (molecular identification).
Liposcelis meridionalis (Rosen). Bulgaria (I): Georgiev, 2017a.
Liposcelis paeta Pearman. Genet.: Liu Xiaochen *et al.*, 2017 (mitochondrial genome). Pest: Arthur *et al.*, 2017 (control by freezing); Liu Li-Jun *et al.*, 2017 (molecular identification).
Liposcelis pearmani Lienhard. Bulgaria (I): Georgiev, 2017b. Greece (I): Georgiev, 2017c. Pest: Liu Li-Jun *et al.*, 2017 (molecular identification).
Liposcelis priesneri Enderlein. Bulgaria (I): Georgiev, 2017b. Iran (I): Kahrarian, 2017.
Liposcelis rufa Broadhead. Bulgaria (I): Georgiev, 2017d. Pest: Liu Li-Jun *et al.*, 2017 (molecular identification).
Liposcelis sculptilimacula Li Zhihong & Li Fasheng. Genet.: Liu Xiaochen *et al.*, 2017 (Misspelled *Liposcelis sculptilis*; see Lienhard, 2003d: 700 and Lienhard, 2017: 6) (mitochondrial genome).
Liposcelis silvarum (Kolbe). Iran (I): Kahrarian, 2017.
Liposcelis tricolor Badonnel. Greece (I): Georgiev, 2017c. Pest: Liu Li-Jun *et al.*, 2017 (molecular identification).

Psocomorpha

Phylog.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure contains a synapomorphy of Troctomorpha and Psocomorpha).

Archipsocidae

Archipsocus spec. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).
Archipsocus nomas Gurney. Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Amphipsocidae

Amphipsocus japonicus (Enderlein). Korea (VIII): Soysouvanh *et al.*, 2017. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).
Kolbia fusconervosa Enderlein. Korea (VIII): Soysouvanh *et al.*, 2017.
Kolbia quisquiliarum Bertkau. Belgium (I): Lock, 2017a.

Stenopsocidae

Cubipilis aphidiformis (Enderlein). Korea (VIII): Soysouvanh *et al.*, 2017.
Malostenopsocus Li Fasheng. Generic diagnosis: Liang Feiyang *et al.*, 2017: 590.
*Malostenopsocus lacteus** Liang Feiyang, Li Fasheng & Liu Xingyue 2017: 590. Laos (VIII).
Stenopsocus immaculatus (Stephens). Bulgaria (I): Georgiev, 2017d. Korea (VIII): Soysouvanh *et al.*, 2017. Genet.: Liu Xiaochen *et al.*, 2017 (mitochondrial genome).
Stenopsocus nigricellus Okamoto. Morph.: Ogawa & Yoshizawa, 2017a (thoracic musculature); Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).
*Stenopsocus wangi** Liang Feiyang, Li Fasheng & Liu Xingyue 2017: 592. Laos (VIII).
*Stenopsocus abnormis** Liang Feiyang, Li Fasheng & Liu Xingyue 2017: 597. Laos (VIII).
Stenopsocus externus Banks. China (including Taiwan), Laos, Vietnam (VIII): Liang Feiyang *et al.*, 2017 (fig.).

Dasydemellidae

Matsumuraiella radiopicta Enderlein. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Paracaeciliidae

Chilenocaecilius ornatipennis (Blanchard). Great Britain (I): Alexander, 2017 (Scotland and England). Ireland (I): Lienhard *et al.*, 2017 (figs of female).
Paracaecilius japonicus (Enderlein). Korea (VIII): Soysouvanh *et al.*, 2017.

Caeciliusidae

- Caecilius fuscopterus* (Latreille). Bulgaria (I): Georgiev & Todorov, 2017.
Stenocaecilius analis (Banks). Parasit.: Triapitsyn, 2017 (*Alaptus immaturus* in eggs).
Stenocaecilius quercus (Edwards). Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).
Valenzuela corsicus (Kolbe). Belgium (I): Lock, 2017a. Luxembourg (I): Lock & Van Butsel, 2017.
Valenzuela flavidus (Stephens). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).
Valenzuela gynapterus (Tetens). Belgium (I): Lock, 2017a.
Valenzuela oyamai (Enderlein). Korea (VIII): Soysouvanh *et al.*, 2017.

Peripsocidae

- Peripsocus didymus* Roesler. Bulgaria (I): Georgiev, 2017d. Korea (VIII): Soysouvanh *et al.*, 2017.
Peripsocus quercicola Enderlein. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Ectopsocidae

- Ectopsocopsis cryptomeriae* (Enderlein). Korea (VIII): Soysouvanh *et al.*, 2017.
Ectopsocus briggsi McLachlan. Bulgaria (I): Georgiev, 2017d; Georgiev & Todorov, 2017. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).
Ectopsocus meridionalis Ribaga. Bulgaria (I): Georgiev, 2017d.
Ectopsocus petersi Smithers. Spain (Mallorca Island) (I): Lock, 2017b.
Ectopsocus vachoni Badonnel. Bulgaria (I): Georgiev, 2017b. Greece (I): Georgiev, 2017c.
Ectopsocus vishnyakovae Schmidt. Iran (I): Khandehroo *et al.*, 2015.

Elipsocidae

- Cuneopalpus cyanops* (Rostock). Bulgaria (I): Georgiev, 2017b; Georgiev & Todorov, 2017.
Elipsocus moebiusi Tetens. Bulgaria (I): Georgiev, 2017b.

Lachesillidae

- Lachesilla* Westwood. Checklist of species of the *corona* group, with distribution: Garcia Aldrete, 2017b.
Key to species of the *riegeli* group: Garcia Aldrete, 2017c. Total of described species in the genus is 339: Garcia Aldrete, 2017d: 226.
Lachesilla anna Sommerman. Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).
*Lachesilla batesi** Garcia Aldrete, 2017d: 202 (assigned to *corona* species group). Guatemala (IV).
*Lachesilla blandfordi** Garcia Aldrete, 2017d: 202 (assigned to *corona* species group). Guatemala (IV).
*Lachesilla brailovskiyana** Garcia Aldrete, 2017b: 172 (assigned to *corona* species group). Mexico (IV).
*Lachesilla buenoi** Garcia Aldrete, 2017b: 172 (assigned to *corona* species group). Mexico (IV).
*Lachesilla cameroni** Garcia Aldrete, 2017d: 205 (assigned to *corona* species group). Mexico (IV).
*Lachesilla casasalai** Garcia Aldrete, 2016: 117 (assigned to *texcocana* species group). Mexico (IV).
*Lachesilla cercade** Garcia Aldrete, 2017b: 173 (assigned to *corona* species group). Mexico (IV).
*Lachesilla championi** Garcia Aldrete, 2017d: 205 (assigned to *corona* species group). Panama (IV).
*Lachesilla chiquitana** Garcia Aldrete, 2017c: 356 (assigned to *riegeli* species group). Bolivia (V).
*Lachesilla distantii** Garcia Aldrete, 2017d: 208 (assigned to *corona* species group). Mexico (IV).
*Lachesilla drucei** Garcia Aldrete, 2017d: 208 (assigned to *corona* species group). Mexico (IV).
*Lachesilla foreli** Garcia Aldrete, 2017d: 211 (assigned to *corona* species group). Mexico (IV).
*Lachesilla godmani** Garcia Aldrete, 2017d: 211 (assigned to *corona* species group). Mexico (IV).
*Lachesilla gorhami** Garcia Aldrete, 2017d: 212 (assigned to *corona* species group). Guatemala, Mexico (IV).
*Lachesilla horni** Garcia Aldrete, 2017d: 216 (assigned to *corona* species group). Guatemala (IV).
*Lachesilla jacobyi** Garcia Aldrete, 2017d: 216 (assigned to *corona* species group). Mexico (IV).
Lachesilla pedicularia (Linnaeus). Romania (I): Chiriliuc & Andriescu, 2016 (collected from dry hibernating stems by "Schmitz" photo selector). Korea (VIII): Soysouvanh *et al.*, 2017.
Lachesilla quercus (Kolbe). Bulgaria (I): Georgiev & Todorov, 2017.
*Lachesilla salvini** Garcia Aldrete, 2017d: 219 (assigned to *corona* species group). Guatemala (IV).
*Lachesilla sharpi** Garcia Aldrete, 2017d: 219 (assigned to *corona* species group). Guatemala (IV).
*Lachesilla walsinghami** Garcia Aldrete, 2017d: 222 (assigned to *corona* species group). Mexico, Guatemala (IV).
*Lachesilla waterhousi** Garcia Aldrete, 2017d: 222 (assigned to *corona* species group). Guatemala, Mexico (IV).

*Lachesilla willistoni** Garcia Aldrete, 2017d: 225 (assigned to *corona* species group). Costa Rica (IV).
Prolachesilla Mockford & Sullivan. Key to species (p. 441) and distribution (Fig. 26): Sandoval Arango *et al.*, 2017.
*Prolachesilla boliviana** Sandoval Arango, Gonzalez Obando & Garcia Aldrete, 2017: 441. Bolivia (V).
*Prolachesilla casasolai** Sandoval Arango, Gonzalez Obando & Garcia Aldrete, 2017: 442. Mexico (V).
*Prolachesilla casasolaoides** Sandoval Arango, Gonzalez Obando & Garcia Aldrete, 2017: 446. Mexico (V).
*Prolachesilla oaxacana** Sandoval Arango, Gonzalez Obando & Garcia Aldrete, 2017: 446. Mexico (V).

Mesopsocidae

Idatenopsocus orientalis (Vishnyakova). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).
Mesopsocus immunis (Stephens). Bulgaria (I): Georgiev, 2017b.

Philotarsidae

Aaroniella badonneli (Danks). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Trichopsocidae

Trichopsocus clarus (Banks). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).
Trichopsocus dalii (McLachlan). Bulgaria (I): Georgiev, 2017d.

Pseudocaeciliidae

Calopsocus furcatus (New). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).
Heterocaecilius solocipennis (Enderlein). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).
Pseudocaecilius maculosus Enderlein. Korea (VIII): Soysouvanh *et al.*, 2017.
Trimerocaecilius popovi Meinander. Bulgaria (I): Georgiev, 2017d.

Ptiloneuridae

Ptiloneuridae gen. spec. Mexico (IV): Reddell, 1982 (in cave).
Euplocania Enderlein. Checklist of Colombian species with distribution, definition of species groups, key to Colombian species: Gonzalez-Obando *et al.*, 2017b.
Euplocania badonneli New & Thornton. Colombia (V): Gonzalez-Obando *et al.*, 2017b.
*Euplocania caquetaensis** Gonzalez-Obando, Garcia Aldrete & Carrejo, 2017b: 85. Colombia (V).
*Euplocania gaitanae** Gonzalez-Obando, Garcia Aldrete & Carrejo, 2017b: 89. Colombia (V).
*Euplocania laelsa** Gonzalez-Obando, Garcia Aldrete & Carrejo, 2017b: 92. Colombia (V).
*Euplocania nasa** Gonzalez-Obando, Garcia Aldrete & Carrejo, 2017b: 95. Colombia (V).
*Euplocania yalcona** Gonzalez-Obando, Garcia Aldrete & Carrejo, 2017b: 97. Colombia (V).
Loneura Navas. Key to species: Mendivil Nieto *et al.*, 2017.
Loneura andina Garcia Aldrete, Mendivil Nieto & Gonzalez Obando, 2012. Description of female: Mendivil Nieto *et al.*, 2017: 518. Colombia (V).
*Loneura dapaensis** Mendivil Nieto, Garcia Aldrete & Gonzalez Obando, 2017: 498. Colombia (V).
*Loneura deibyi** Mendivil Nieto, Garcia Aldrete & Gonzalez Obando, 2017: 501. Colombia (V).
*Loneura eberhardi** Mendivil Nieto, Garcia Aldrete & Gonzalez Obando, 2017: 504. Colombia (V).
*Loneura farallonensis** Mendivil Nieto, Garcia Aldrete & Gonzalez Obando, 2017: 507. Colombia (V).
Loneura gorgonaensis Garcia Aldrete, Gonzalez & Sarria, 2011. Colombia (V): Mendivil Nieto *et al.*, 2017.
*Loneura monserate** Mendivil Nieto, Garcia Aldrete & Gonzalez Obando, 2017: 510. Colombia (V).
Loneura monticola Garcia Aldrete, Gonzalez & Sarria, 2011. Colombia (V): Mendivil Nieto *et al.*, 2017.
*Loneura quimbaya** Mendivil Nieto, Garcia Aldrete & Gonzalez Obando, 2017: 513. Colombia (V).
*Loneura univalle** Mendivil Nieto, Garcia Aldrete & Gonzalez Obando, 2017: 515. Colombia (V).
Triplocania Roesler. Checklist of species with distribution, definition of species groups, key to Colombian species: Gonzalez-Obando *et al.*, 2017a.
*Triplocania amacayacuensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 10. Colombia (V).
*Triplocania anchicayaensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 10. Colombia (V).
*Triplocania andaqui** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 14. Colombia (V).
*Triplocania arhuaca** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 17. Colombia (V).

*Triplocania asisensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 20. Colombia (V).
*Triplocania awa** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 22. Colombia (V).
*Triplocania bicornuta** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 25. Colombia (V).
*Triplocania bubuae** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 28. Colombia (V).
*Triplocania calima** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 28. Colombia (V).
*Triplocania camentsa** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 32. Colombia (V).
*Triplocania cantatis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 34. Colombia (V).
*Triplocania caribe** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 37. Colombia (V).
*Triplocania chocoensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 38. Colombia (V).
*Triplocania dimitrii** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 40. Colombia (V).
*Triplocania embera** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 43. Colombia (V).
Triplocania erwini Silva Neto, Rafael & Garcia Aldrete, 2015. Description of female: Gonzalez-Obando *et al.*, 2017a: 89. Colombia (V).
*Triplocania felidiaensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 45. Colombia (V).
Triplocania furcata New. Description of female: Gonzalez-Obando *et al.*, 2017a: 103. Colombia (V).
*Triplocania furcatoides** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 89. Colombia (V).
*Triplocania garciamarquezii** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 48. Colombia (V).
*Triplocania guane** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 51. Colombia (V).
*Triplocania huilaensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 93. Colombia (V).
*Triplocania huitota** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 51. Colombia (V).
*Triplocania humboldtiana** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 55. Colombia (V).
*Triplocania inga** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 57. Colombia (V).
*Triplocania kichwa** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 59. Colombia (V).
*Triplocania korebaju** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 59. Colombia (V).
Triplocania lamasii Silva Neto, Rafael & Garcia Aldrete, 2014. Description of female: Gonzalez-Obando *et al.*, 2017a: 103. Colombia (V).
Triplocania lamasoides Silva Neto, Rafael & Garcia Aldrete, 2015. Colombia (V): Gonzalez-Obando *et al.*, 2017a.
*Triplocania lamensuraensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 95. Colombia (V).
*Triplocania lapayaensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 62. Colombia (V).
*Triplocania leguizamoensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 98. Colombia (V).
*Triplocania lithophila** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 62. Colombia (V).
*Triplocania mariacarmenae** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 66. Colombia (V).
*Triplocania matildae** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 68. Colombia (V).
*Triplocania mocoaensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 70. Colombia (V).
*Triplocania motilona** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 73. Colombia (V).
*Triplocania otunquimbayaensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 98. Colombia (V).
*Triplocania panchei** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 73. Colombia (V).
*Triplocania pericosensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 76. Colombia (V).
*Triplocania robustoides** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 78. Colombia (V).
*Triplocania rugosa** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 78. Colombia (V).
*Triplocania sarmaca** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 82. Colombia (V).
*Triplocania sarriae** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 101. Colombia (V).
*Triplocania sevillaensis** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 84. Colombia (V).
*Triplocania yanacona** Gonzalez-Obando, Carrejo-Gironza & Garcia Aldrete, 2017a: 84. Colombia (V).

Epipsocidae

Bertkauia lucifuga (Rambur). Bulgaria (I): Georgiev, 2017d.

*Cuscopsocus*** Garcia Aldrete, 2017a: 121. Gender: M. Type species: *Cuscopsocus spinosus* Garcia Aldrete.

*Cuscopsocus spinosus** Garcia Aldrete, 2017a: 122. Peru (V).

Goja spec. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

*Ianthorntonia dorbignyi** Garcia Aldrete, 2017e: 124. Bolivia (V).

Ianthorntonia marshalli Garcia Aldrete, 2004g. Description of female: Garcia Aldrete, 2017e: 125. Bolivia (V).

Hemipsocidae

Hemipsocus chloroticus (Hagen). Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Psilopsocidae

Psilopsocus malayanus New & Lee. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure; species name misspelled *malayensis*).

Psocidae

Amphigerontia anchorae Li Fasheng. Korea (VIII): Soysouvanh *et al.*, 2017.

Amphigerontia contaminata (Stephens). Bulgaria (I): Georgiev, 2017d. Korea (VIII): Soysouvanh *et al.*, 2017.

Amphigerontia montivaga (Chapman). Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Blaste conspurcata (Rambur). Bulgaria (I): Georgiev, 2017d.

Dictyopsocus pennicornis (Burmeister). Brazil (V): Oliveira *et al.*, 2017 (figs).

Loensia fasciata (Fabricius). Korea (VIII): Soysouvanh *et al.*, 2017.

Longivalvus hyalospilus Li Fasheng, 2002a. Genet.: Liu Xiaochen *et al.*, 2017 (mitochondrial genome). Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Metylophorus spec. Morph.: Ogawa & Yoshizawa, 2017b (in-flight wing-coupling structure).

Metylophorus nebulosus (Stephens). Bulgaria (I): Georgiev, 2017d. Korea (VIII): Soysouvanh *et al.*, 2017.

Neoblaste papillosa Thornton. Korea (VIII): Soysouvanh *et al.*, 2017.

Neopsocus rhenanus Kolbe. Bulgaria (I): Georgiev & Todorov, 2017.

Psococerastis albimaculata Li Fasheng & Yang Chikun. Genet.: Liu Xiaochen *et al.*, 2017 (mitochondrial genome). Phylog.: Yoshizawa *et al.*, 2017a (mitochondrial genome).

Psococerastis gibbosa (Sulzer). Bulgaria (I): Georgiev, 2017d.

Psococerastis tokyoensis (Enderlein). Korea (VIII): Soysouvanh *et al.*, 2017.

Psocus bipunctatus (Linnaeus). Bulgaria (I): Georgiev, 2017d; Georgiev & Todorov, 2017. Korea (VIII): Soysouvanh *et al.*, 2017.

Sigmatoneura kolbei (Enderlein). Korea (VIII): Soysouvanh *et al.*, 2017.

Trichadenopsocus alternatus Li Fasheng, 2002a. Korea (VIII): Soysouvanh *et al.*, 2017.

Trichadenotecnum Enderlein. Phylog., Biogeography: Yoshizawa *et al.*, 2017b.

Trichadenotecnum innuptum Betz. Bulgaria (I): Georgiev, 2017d.

Trichadenotecnum majus (Kolbe). Bulgaria (I): Georgiev, 2017d.

4. Additions to the Bibliography

NOTE: Complete bibliographical references to publications cited in the present paper, which are not listed here, can be found in the World Bibliography (Lienhard & Smithers, 2002: 493-664) or in Parts 1 to 16 of the "Additions"; see also **Synthesis of Parts 1-10** in Lienhard (2016d).

Remarks: Papers with two authors are listed in alphabetical order of second authors after the chronological list of papers with the first author as unique author. Papers with more than two authors (i. e. "first author *et al.*"-papers) are listed chronologically after the two-author papers. References to papers published in the same year are distinguished by suffix-letters added to the publication year. No cross-references to co-authors or editors are given.

For a **subject bibliography** see below and Lienhard (2016c).

Alexander, K. N. A. 2017. *Chilenocaecilius ornatipennis* (Blanchard) (Psocodea: 'Psocoptera', Paracaeciliidae) in Scotland and England. *Entomologist's Monthly Magazine* 153(1): 44.

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5. Corrections to Lienhard & Smithers, 2002

Remark: These "Corrections" refer to the pages of Lienhard & Smithers (2002).

540: Gadeau de Kerville, H. 1932. Mélanges entomologiques. 5e Mémoire. II. Catalogue embryonnaire des Nevroptères, Mégaloptères, Rhaphidioptères, Mecoptères, Psocoptères, Plécoptères, Ephéméroptères et Trichoptères de la Normandie. *Bulletin de la Société des Amis des Sciences naturelles de Rouen* 66-67: 349-401. (Psoc.: pp. 367-374). [Corrections underlined]

564: The reference Karny, H. H. 1921 has to be replaced by the following: Karny, H. 1921. Zur Systematik der orthopteroiden Insekten. *Treubia* 1: 163-269. (Corrodentia: 207-210).

6. Subject Bibliography for Part 17 of the Additions

NOTE: The Subject Bibliography for Lienhard & Smithers (2002) and for Parts 1-15 of the Additions is given by Lienhard (2016c), that one for Part 16 of the Additions by Lienhard (2017).

Behaviour

2017 Kamimura & Yoshizawa, 2017 (Add. 17) (*Neotrogla*, sex role reversal)

2017 Zwart, 2017 (Add. 17) (p. 47: scenario of 'phallic woman' phantasm is something biologically real in *Neotrogla*)

Biogeography

2017 Oliveira *et al.*, 2017 (Add. 17) (*Dictyopsocus pennicornis*)

2017 Yoshizawa *et al.*, 2017b (Add. 17) (*Trichadenotecnum*, trans-Beringia dispersals)

Biology, life history, physiology, genetics

2017 Beukeboom, 2017 (Add. 17) (commentary to Hodson *et al.*, 2017)

2017 Hodson *et al.*, 2017 (Add. 17) (genetics, sex determination, *Liposcelis*)

2017 Liu Xiaochen *et al.*, 2017 (Add. 17) (mitochondrial genome, *Liposcelis* etc.)

2017 Ma & Schwander, 2017 (Add. 17) (parthenogenesis believed to be endosymbiont-induced in *Liposcelis* and *Cerobasis*)

2017 Sun En-Tao *et al.*, 2017 (Add. 17) (*Liposcelis*, genetic diversity in China)

Ecology

1982 Reddell, 1982 (Add. 17) (in cave, Mexico)

2013 Mucedda *et al.*, 2013 (Add. 17) (*Psyllipsocus ramburii* in caves, Italia)

2016 Beron, 2016 (Add. 17) (Greece, in caves)

2016 Chiriliuc & Andriescu, 2016 (Add. 17) (psocids collected from dry hibernating stems by "Schmitz" photo selector)

2017 Angarten *et al.*, 2017 (Add. 17) (*Neotrogla curvata* in Brazilian cave)

2017 Erwin & Henry, 2017 (Add. 17) (Carabid beetles under webbing of psocids)

2017 Maute *et al.*, 2017 (Add. 17) (locust control, psocids as non-target insects)

General treatises, keys, bibliographies

2017 Lienhard, 2017 (Add. 17) (additions to the World Catalogue and Bibliography, Part 16)

Morphology, anatomy

2016 Polilov, 2016 (Add. 17) (*Liposcelis*, adult and first instar nymph)

2017 Makarova & Polilov, 2017 (Add. 17) (*Liposcelis*, brain structure, also in nymphs)

2017 Ogawa & Yoshizawa, 2017a (Add. 17) (*Stenopsocus*, thoracic musculature)

2017 Ogawa & Yoshizawa, 2017b (Add. 17) (in-flight wing-coupling structure)

Palaeontology

2016 Rasnitsyn *et al.*, 2016 (Add. 17) (Cretaceous amber, several families)

2017 Azar *et al.*, 2017 (Add. 17) (Burmese amber, Prionoglarididae)

2017 Prokop *et al.*, 2017 (Add. 17) (superorder Clareocercaria = Acercaria s.l.)
2017 Ross, 2017 (Add. 17) (checklist of species from Burmese amber)
2017 Sroka & Nel, 2017 (Add. 17) (Cretaceous Burmese amber, *Burmacompsocus*)

Pests

2017 Arthur *et al.*, 2017 (Add. 17) (*Liposcelis*, control by freezing)
2017 Guo Shan-Shan *et al.*, 2017a, 2017b (Add. 17) (*Liposcelis*, control)
2017 Ishibashi *et al.*, 2017 (Add. 17) (*Liposcelis*, respiratory allergy)
2017 Jing Tian-Xing *et al.*, 2017 (Add. 17) (*Liposcelis*, sensitivity to insecticides)
2017 Li Heng Yu *et al.*, 2017 (Add. 17) (*Liposcelis*, control)
2017 Liu Li-Jun *et al.*, 2017 (Add. 17) (*Liposcelis*, molecular identification)
2017 Robinson & Allan, 2017 (Add. 17) (*Dorypteryx* spp. in Museum)
2017 Rueckert & Devetak, 2017 (Add. 17) (Gregarine species *Enterocystis dorypterygis* in *Dorypteryx domestica*) (potential biological control)
2017 Sun En-Tao *et al.*, 2017 (Add. 17) (*Liposcelis*, genetic diversity in China)

Phylogeny, evolution, classification

2017 Beutel *et al.*, 2017 (Add. 17) (Psocodea)
2017 Ogawa & Yoshizawa, 2017b (Add. 17) (in-flight wing-coupling structure in Psocodea)
2017 Prokop *et al.*, 2017 (Add. 17) (superorder Clareocercaria = Acercaria s.l.)
2017 Yoshizawa *et al.*, 2017a (Add. 17) (mitochondrial phylogenomics)
2017 Yoshizawa *et al.*, 2017b (Add. 17) (*Trichadenotecnum*)

Predators, parasites, parasitoids, symbionts

2016 Collins & Hespeneide, 2016 (Add. 17) (bird as predator, Venezuela)
2016 Rydell *et al.*, 2016 (Add. 17) (bats as predators, Sweden)
2017 Healy *et al.*, 2017 (Add. 17) (*Rickettsia felis* as a symbiont, *Liposcelis*)
2017 Ma & Schwander, 2017 (Add. 17) (parthenogenesis believed to be endosymbiont-induced in *Liposcelis* and *Cerobasis*)
2017 Rueckert & Devetak, 2017 (Add. 17) (Gregarine species *Enterocystis dorypterygis* in *Dorypteryx domestica*)
2017 Triapitsyn, 2017 (Add. 17) (*Alaptus immaturus* in eggs of *Stenocaecilius analis*)
2017 Xu Si-Yuan *et al.*, 2017 (Add. 17) (larval Erythraeidae mite parasitic on psocid)

Techniques

2016 Chiriliuc & Andriescu, 2016 (Add. 17) ("Schmitz" photo selector)
2016 Silva-Neto *et al.*, 2016e (Add. 17) (storage of slides and capsule with thorax in alcohol)
2017 Liu Li-Jun *et al.*, 2017 (Add. 17) (molecular identification by microarray method)

EDITORIAL

"Psocid News" publishes any kinds of topics (formal or informal) that may be interesting for psocidologists, but articles containing official nomenclatural acts (e.g. descriptions of new taxa, proposals of new combinations or new synonyms) will not be accepted for publication by the editor (see below).

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Next issue. About Feb. 2019. Please let me have all contributions by Jan. 31 2019.

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