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Psocid News

The Psocidologists' Newsletter

No. 26 (Feb 29, 2024)



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ADDITIONS AND CORRECTIONS (PART 23) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) – WORLD CATALOGUE AND BIBLIOGRAPHY"

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1. Introduction

This is part 23 of a series of "Additions and Corrections to the World Catalogue and Bibliography" (Lienhard & Smithers, 2002) published in "Psocid News". Parts 1-22 were published in Psocid News no. 4-25 (see below); a **Synthesis of Parts 1-10** is given by Lienhard (2016d = Psocid News Special Issue 3), a **Synthesis of Parts 11-20** is given by Lienhard (2021b = Psocid News Special Issue 4), see <http://hdl.handle.net/2115/35519>.

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 (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 to Lienhard & Smithers, 2002" refer to the pages of Lienhard & Smithers (2002) and the changes proposed 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 1-23)

Country checklists of Psocoptera species extracted from Lienhard & Smithers (2002) are given by Lienhard (2016b = Psocid News Special Issue 1).

All additional species records are mentioned in the "Additions and Corrections to the World Catalogue" and all countries mentioned in Parts 1 to 23 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 (see Psocid News no. 4-26) or in the **Synthesis of Parts 1-10** given by Lienhard (2016d = Psocid News Special Issue 3) and the **Synthesis of Parts 11-20** given by Lienhard (2021b = Psocid News Special Issue 4) which all can be found at <http://hdl.handle.net/2115/35519>.

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): 4-17 (= Lienhard, 2018)
Part 18 – Psocid News, no. 21 (2019): 10-34 (= Lienhard, 2019)
Part 19 – Psocid News, no. 22 (2020): 16-29 (= Lienhard, 2020b)
Part 20 – Psocid News, no. 23 (2021): 1-20 (= Lienhard, 2021a)

Synthesis of Parts 11-20, see Lienhard (2021b)

Part 21 – Psocid News, no. 24 (2022): 2-18 (= Lienhard, 2022)
Part 22 – Psocid News, no. 25 (2023): 3-16 (= Lienhard, 2023a)
Part 23 – Psocid News, no. 26 (2024) (= present issue)

(I) Albania (Parts 14, 16), Armenia (Parts 19, 21), Austria (Parts 1, 3, 4, 5, 6, 8, 9), Bahrain (Part 8), Belarus (Parts 20, 21), Belgium (Parts 3, 6, 8, 10, 16, 17, 18, 19, 20), Bosnia-Herzegovina (Part 14), Bulgaria (Parts 8, 14, 16, 17, 18, 19, 20, 21, 22), 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, 15[Greenland]), Egypt (Parts 6, 21, 22), Europe (Parts 10, 11, 12, 19), Finland (Parts 1, 7, 10, 11, 12, 13, 15), France (Parts 1, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 18, 20, 21, 22), Georgia (Part 23), Germany (Parts 1, 3, 4, 5, 7, 8, 10, 11, 12, 14, 16, 19, 20, 21, 22, 23), Great Britain (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 23), Greece (Parts 5, 6, 11, 14, 17, 18, 19, 20, 21), Hungary (Parts 1, 3, 10), Iceland (Part 10), Iran (Parts 6, 8, 15, 16, 17, 18), Ireland (Parts 6, 9, 13, 17, 19), Israel (Parts 4, 6, 8, 11, 15, 16), Italy (Parts 1, 3, 5, 6, 7, 8, 9, 10, 17, 18, 19, 22, 23), Jordan (Part 21), Kosovo (Part 14), Lebanon (Parts 6, 7, 9, 10, 11, 13, 14, 19, 21, 22), Lithuania (Part 8), Luxembourg (Parts 1, 3, 7, 8, 10, 13, 17, 18, 20, 21, 22), Macedonia (Parts 14, 21), Malta (Parts 15, 16), Montenegro (Part 14), Morocco (Parts 10, 15, 21), Netherlands (Parts 4, 7, 9, 11, 14, 16, 17, 19, 21, 22), Norway (Parts 4, 10, 13, 21), Oman (Part 8), Poland (Parts 13, 23), Portugal (Parts 6, 7, 18, 19, 21), Romania (Parts 10, 14, 16, 17), Russia (Parts 6, 8, 10, 12, 13, 14, 16, 20, 22, 23), Saudi Arabia (Parts 8, 15), Serbia (Part 14), Slovakia (Parts 1, 11, 13), Spain (Parts 1, 5, 7, 8, 9, 11, 12, 13, 17, 18, 20, 21, 22, 23),

Sweden (Part 8, 10, 17, 22), Switzerland (Parts 1, 3, 4, 6, 7, 8, 11, 12, 21, 23), Turkey (Parts 5, 10, 15, 20, 21), UAE (Parts 8, 9), Ukraine (Part 6), Yemen (Parts 4, 8, 18, 20)

(II) Ascension Island (Parts 11, 15), Azores (Parts 5, 11, 21), 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, 18, 19, 20), Greenland (Part 15), North America (Parts 11, 12), USA (Parts 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22)

(IV) Antigua (Part 15), Aruba (Part 15), Belize (Parts 1, 4, 6, 8, 9, 10, 15), Costa Rica (Parts 1, 6, 8, 15, 17, 18, 20), Cuba (Parts 6, 11), Curaçao (Part 15), Dominica (Parts 5, 6, 11), Dominican Republic (Parts 4, 6, 7, 8, 12, 13, 14, 18, 19, 20), 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, 19), Mexico (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), Middle America (Part 11), Nicaragua (Parts 1, 3, 4, 6, 7, 8, 13), Panama (Parts 4, 6, 8, 17, 20), Puerto Rico (Parts 1, 7, 10, 13), Trinidad (Parts 1, 16)

(V) Argentina (Parts 3, 4, 8, 9, 14, 19, 22), Bolivia (Parts 1, 5, 9, 10, 17, 21), Brazil (Parts 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23), Chile (Parts 1, 4, 6, 8, 21), Colombia (Parts 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23), Ecuador (Parts 1, 6, 8, 13, 15, 16, 18, 20, 22), French Guiana (Parts 18, 23), Paraguay (Parts 13, 14, 15), Peru (Parts 1, 5, 6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 20, 21, 23), Suriname (Part 10), Venezuela (Parts 1, 4, 6, 7, 8, 10, 15, 17, 18)

(VI) Ethiopia (Part 20), Ghana (Parts 4, 18), Guinea (Parts 1, 20), Kenya (Parts 4, 15, 16, 18, 20, 22, 23), Liberia (Part 15), Madagascar (Parts 5, 22), Malawi (Part 3), Mozambique (Parts 15, 20), Namibia (Parts 1, 6, 7, 8, 10, 19), Rwanda (Part 15), Senegal (Parts 15, 20, 22), South Africa (Parts 3, 6, 7, 8, 11, 20, 22), Tanzania (Parts 3, 4, 21, 22, 23), Togo (Part 15), Uganda (Parts 6, 23)

(VII) Mauritius (Part 21), Reunion (Part 15)

(VIII) Afghanistan (Part 21), Brunei (Parts 5, 6), China (Parts 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23), Hong Kong (Part 5), India (Parts 3, 5, 6, 7, 11, 15, 20, 21, 22, 23), Indonesia (Parts 1, 3, 5, 6, 10, 15, 22, 23), Japan (Parts 1, 4, 6, 7, 8, 9, 10, 12, 16, 18, 19, 20, 23), Kazakhstan (Part 13), Korea (Parts 17, 23), Kuril Islands (Part 4), Kyrgyzstan (Part 5), Laos (Parts 5, 6, 17), Malaysia (Parts 1, 5, 6, 8, 10, 14, 15, 18, 19, 22, 23), Myanmar (Parts 6, 8, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23), Nepal (Parts 7, 18), New Guinea (Parts 3, 5, 8), Pakistan (Part 14), Philippines (Parts 3, 5, 6, 14, 18, 20), Russia (Parts 1, 10, 11, 20, 21), SE-Asia (Part 7), Singapore (Parts 5, 14, 15), Sri Lanka (Parts 4, 6, 19), Taiwan (Parts 1, 6, 7, 8, 13, 15, 17, 18, 21), Thailand (Parts 1, 4, 5, 6, 9, 11, 15, 18, 20, 22, 23), USSR (Parts 4, 9), Vietnam (Parts 4, 5, 6, 8, 13, 14, 15, 17, 20)

(IX) Australia (Parts 1, 4, 5, 6, 7, 8, 10, 12, 13, 14, 20), Lord Howe Island (Parts 4, 7), New Zealand (Parts 1, 4, 13, 16, 18), 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, 22), 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, 18, 19, 20, 21, 22, 23)

3. Additions to the Catalogue

Psocoptera

Ahn Jeong Joon & Choi Kyung San 2022: Physiology (temperature). Athanassiou & Nayak, 2023: Psocids as global pests of stored products. Brimblecombe *et al.*, 2023: Urban pest abundance, Switzerland (I). Lienhard, 2023a: Additions to the World Catalogue and Bibliography, Part 22. Luo Cihang *et al.*, 2023: Nematode parasites in Cretaceous fossils (A). Seropian *et al.*, 2023: Checklist of Psocoptera of Georgia (I). Yoshizawa, 2023 (ed.): Newsletter.

Prionoglarididae

Neotroglia Lienhard. Muscles of female penis: Cheng Zixin *et al.*, 2023a. Genitalia and copulatory processes: Cheng Zixin *et al.*, 2023b.

Psyllipsocidae

Dorypteryx domestica (Smithers). Georgia (I): Seropian *et al.*, 2023.

Psyllipsocus Selys-Longchamps. Four species groups defined: Lienhard, 2023b: 74.

*Psyllipsocus bauensis** Lienhard, 2023b: 64. Malaysia: Sarawak (VIII).

*Psyllipsocus bidentatus** Lienhard, 2023b: 72. Thailand (VIII). Lienhard, 2023b: 73: description of female tentatively assigned to *P. bidentatus* (cf. *bidentatus*); Thailand (VIII).

*Psyllipsocus cluniopilosus** Lienhard, 2023b: 70. Thailand (VIII).
*Psyllipsocus fusciceps** Lienhard, 2023b: 64. Thailand (VIII).
*Psyllipsocus hollieri** Lienhard, 2023b: 60. Indonesia: Sumatra (VIII).
*Psyllipsocus prominens** Lienhard, 2023b: 67. Thailand (VIII).
*Psyllipsocus quadridentatus** Lienhard, 2023b: 74. Thailand (VIII).
Psyllipsocus ramburii Selys-Longchamp. Georgia (I): Seropian *et al.*, 2023.
*Psyllipsocus simplex** Lienhard, 2023b: 70. Thailand (VIII).
*Psyllipsocus uncinatus** Lienhard, 2023b: 60. Malaysia: Sabah (VIII).

Archaeatropidae

Synonymy with Empheriidae not accepted: Hakim *et al.*, 2023a: 8.

Longiantennum fashengi Liang Feiyang, Li Sheng & Yao Yunzhi, in Liang Feiyang *et al.*, 2022.
Description of male and female in mating position: Hakim *et al.*, 2023b: 84. Myanmar (VIII), mid-Cretaceous amber (A).

Empheriidae

Synonymy with Archaeatropidae not accepted: Hakim *et al.*, 2023a: 8.

Burmemptheria Li Sheng, Wang Qiuzhu & Yao Yunzhi 2020.

Latemptheria Li Sheng, Yoshizawa & Yao Yunzhi, in Li Sheng *et al.*, 2022. **Synonymy:** Hakim *et al.*, 2023b: 76.

Burmemptheria densuschaetae Li Sheng, Wang Qiuzhu & Yao Yunzhi 2020. Description of male and female in copula: Hakim *et al.*, 2023b: 76. Myanmar (VIII), mid-Cretaceous amber (A).

Latemptheria kachinensis Li Sheng, Yoshizawa & Yao Yunzhi, in Li Sheng *et al.*, 2022. **Synonymy:** Hakim *et al.*, 2023b: 76.

Burmemptheria raruschaetae Li Sheng, Wang Qiuzhu & Yao Yunzhi 2020. Further description: Hakim *et al.*, 2023b: 81. Myanmar (VIII), mid-Cretaceous amber (A).

*Parallemopsocus*** Hakim, Huang Di-Ying & Azar, 2023a: 4. Gender: M. Type species: *Parallemopsocus elongatus* Hakim, Huang Di-Ying & Azar.

*Parallemopsocus elongatus** Hakim, Huang Di-Ying & Azar, 2023a: 6. Myanmar (VIII), mid-Cretaceous amber (A).

Psoquillidae

Rhyopsocus Hagen. Key to African species: Georgiev, 2023b.

Rhyopsocus afer (Badonnel). Tanzania (Zanzibar) (VI): Georgiev, 2023b.

Rhyopsocus pandanicola Thornton, Lee & Chui. Kenya (VI): Georgiev, 2023b. Thailand (VIII): Georgiev, 2023d.

*Rhyopsocus ugandanus** Georgiev, 2023b: 31. Uganda (VI).

*Rhyopsocus weingardti** Georgiev, 2023b: 33. Uganda (VI).

Trogiidae

Cerobasis guestfalica (Kolbe). Georgia (I): Seropian *et al.*, 2023.

Lepinotus reticulatus (Enderlein). Georgia (I): Seropian *et al.*, 2023.

Lepidopsocidae

Echmepteryx falco (Badonnel). French Guiana (V): Georgiev, 2023f.

Echmepteryx lunulata Thornton, Lee & Chui. Uganda (VI): Georgiev, 2023a.

Echmepteryx madagascariensis (Kolbe). Uganda (VI): Georgiev, 2023a. Thailand (VIII): Georgiev, 2023d.

Echmepteryx pallida Smithers. French Guiana (V): Georgiev, 2023f. Thailand (VIII): Georgiev, 2023d.

Echmepteryx similis Badonnel. Uganda (VI): Georgiev, 2023a.

Lepidopsocus fasciatus Thornton. Thailand (VIII): Georgiev, 2023d.

Proentomum personatum Badonnel. French Guiana (V): Georgiev, 2023f.

Soa flaviterminata Enderlein. Uganda (VI): Georgiev, 2023a.

Thylacella angustipennis Broadhead & Richards. Uganda (VI): Georgiev, 2023a.

Thylacella congolensis (Badonnel). Uganda (VI): Georgiev, 2023a.

Sphaeropsocidae

*Italopsocopsis*** Nicoli Aldini, 2023: 652 (subgenus of *Sphaeropsocopsis*). Gender: F. Type species *Sphaeropsocopsis (Italopsocopsis) utriusquemariaechristinae* Nicolo Aldini.

*Sphaeropsocopsis (Italopsocopsis) utriusquemariaechristinae** Nicoli Aldini, 2023: 655. Italy (I). Biol.: Synanthropic species in rooms used for the conservation of cultural heritage items in libraries, archives and museums located in old or ancient buildings. Probably introduced, but of unknown origin.

Pachytroctidae

Nanopsocus oceanicus Pearman. Uganda (VI): Georgiev, 2023a.

Pachytroctes aglyphus Badonnel. Uganda (VI): Georgiev, 2023a.

Tapinella spec. Uganda (VI): Georgiev, 2023a. Thailand (VIII): Georgiev, 2023d.

Tapinella curvata Badonnel. Uganda (VI): Georgiev, 2023a.

Tapinella formosana Enderlein. French Guiana (V): Georgiev, 2023f.

Tapinella maculata Mockford & Gurney. French Guiana (V): Georgiev, 2023f.

*Tapinella montjoliensis** Georgiev, 2023g: 279. French Guiana (V).

*Tapinella phuketensis** Georgiev, 2023e: 211. Thailand (VIII).

*Tapinella zirobwensis** Georgiev, 2023h: 125. Uganda (VI).

Liposcelididae

Embidopsocus enderleini (Ribaga). Georgia (I): Seropian *et al.*, 2023.

Embidopsocus vilhenai Badonnel. Uganda (VI): Georgiev, 2023a.

Liposcelis spec. Poland (I): Ostrovsky & Aleksandrowicz, 2022. Thailand (VIII): Georgiev, 2023d.

Liposcelis angolensis Badonnel. Uganda (VI): Georgiev, 2023a.

Liposcelis bostrychophila Badonnel. Russia (I): Stolbova & Stolbov, 2023 (in honey bee hives). Uganda (VI): Georgiev, 2023a. Thailand (VIII): Georgiev, 2023d. Pest: Deng Wenxin *et al.*, 2023 (identification based on CRISPR/Cas12a and RPA); Ishibashi, 2023 (control); Sun Weiwei *et al.*, 2023 (control, mites as predators).

Liposcelis decolor (Pearman). Pest: Danso *et al.*, 2023a, 2023b (control).

Liposcelis entomophila (Enderlein). Russia (I): Georgiev & Ruchin, 2023. Pest: Lu Ting *et al.*, 2023 (physiology, control)

*Liposcelis fascipilosa** Georgiev, 2023c: 258. Uganda (VI).

Liposcellis meridionalis (Rosen). Georgia (I): Seropian *et al.*, 2023.

Liposcelis pubescens Broadhead. Great Britain (I): Weddle, 2022.

Liposcelis rufa Broadhead. Georgia (I): Seropian *et al.*, 2023.

Electrentomidae / Manicapsocidae

*Azarpsocus anjana** Alvarez-Parra & Nel, 2023 in Alvarez-Parra *et al.*, 2023: 2. Spain (I): Lower Cretaceous amber (A).

*Paramanicapsocus xingyuei** Liang Feiyang 2023 in Chen Shengfu *et al.*, 2023: 265. Myanmar (VIII): mid-Cretaceous Burmese amber (A).

Compsocidae

*Burmacompsocus ojancano** Alvarez-Parra & Nel, 2023 in Alvarez-Parra *et al.*, 2023: 6. Spain (I): Lower Cretaceous amber (A).

Amphientomidae

Diamphipsocus Li Fasheng. Checklist of known species: Ramesh *et al.*, 2023a: 100.

Diamphipsocus malayensis (New), **from** *Paramphientomum*: Ramesh *et al.*, 2023a: 100 (name misspelled *malayense*).

Diamphipsocus sinuosus (New), **from** *Paramphientomum*: Ramesh *et al.*, 2023a: 100 (name misspelled *sinuosum*).

Diamphipsocus striatus (Thornton), **from** *Paramphientomum*: Ramesh *et al.*, 2023a: 96 (name misspelled *striatum*; description of female). India (VIII).

Diamphipsocus yumyum (Enderlein), **from** *Paramphientomum*: Ramesh *et al.*, 2023a: 100.

Psocomorpha

Possible Psocomorpha morphotype. Alvarez-Parra *et al.*, 2023: 8. Spain (I): Lower Cretaceous amber (A).

Archipsocidae

Archipsocopsis fernandi (Pearman). Thailand (VIII): Georgiev, 2023d.

Archipsocopsis machadoi (Badonnel). Uganda (VI): Georgiev, 2023a.

Archipsocus ghesquierei Badonnel. Thailand (VIII): Georgiev, 2023d (cf. *ghesquierei*).
Archipsocus neens Enderlein. Uganda (VI): Georgiev, 2023a.

Paracaeciliidae

Enderleinella obsoleta (Stephens). Georgia (I): Seropian *et al.*, 2023.

Stenopsocidae

Graphopsocus cruciatus (Linnaeus). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky *et al.*, 2023.
Russia (I): Georgiev *et al.*, 2023a.

Stenopsocus immaculatus (Stephens). Georgia (I): Seropian *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a;
Georgiev & Ruchin, 2023.

Stenopsocus stigmaticus (Imhoff & Labram). Russia (I): Georgiev & Ruchin, 2023.

Amphipsocidae

Harpezoneura indotata Broadhead & Richards. Uganda (VI): Georgiev, 2023a (cf. *indotata*).

Kolbia quisquiliarum Bertkau. Georgia (I): Seropian *et al.*, 2023

Caeciliusidae

Caecilius fuscopterus (Latreille). Georgia (I): Seropian *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a;
Georgiev & Ruchin, 2023.

Maoripsocus africanus (Ribaga). French Guiana (V): Georgiev, 2023f. Uganda (VI): Georgiev, 2023a.

Stenocaecilius casarum (Badonnel). Uganda (VI): Georgiev, 2023a.

Valenzuela anomalus (Badonnel). Uganda (VI): Georgiev, 2023a.

Valenzuela atricornis (McLachlan). Georgia (I): Seropian *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a.

Valenzuela brunneonitens (Pearman). Uganda (VI): Georgiev, 2023a.

Valenzuela burmeisteri (Brauer). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky *et al.*, 2023.
Russia (I): Georgiev *et al.*, 2023a.

Valenzuela corsicus (Kolbe). Russia (I): Georgiev *et al.*, 2023a.

Valenzuela despaxi (Badonnel). Poland (I): Ostrovsky *et al.*, 2023 (cf. *despaxi*).

Valenzuela flavidus (Stephens). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky & Aleksandrowicz,
2022; Ostrovsky *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.

Valenzuela marginalis (Badonnel). Uganda (VI): Georgiev, 2023a.

Valenzuela piceus (Kolbe). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky & Aleksandrowicz,
2022; Ostrovsky *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.

Valenzuela similis (Badonnel). Uganda (VI): Georgiev, 2023a.

Xanthocaecilius spec. French Guiana (V): Georgiev, 2023f.

Lachesillidae

Lachesilla acutiloba Broadhead & Richards. Uganda (VI): Georgiev, 2023a.

Lachesilla bernardi Badonnel. Georgia (I): Seropian *et al.*, 2023.

Lachesilla mucronata Badonnel. Uganda (VI): Georgiev, 2023a.

Lachesilla pedicularia (Linnaeus). Georgia (I): Seropian *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a;
Georgiev & Ruchin, 2023.

Lachesilla quercus (Kolbe). Georgia (I): Seropian *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a.

Lachesilla rossica Roesler. Russia (I): Georgiev *et al.*, 2023a.

Lachesilla tanaidana Roesler. Russia (I): Georgiev *et al.*, 2023a.

Lachesilla tectorum Badonnel. Uganda (VI): Georgiev, 2023a.

Peripsocidae

Peripsocus spec. Uganda (VI): Georgiev, 2023a.

Peripsocus alboguttatus (Dalman). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky &
Aleksandrowicz, 2022. Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.

Peripsocus didymus Roesler. Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky & Aleksandrowicz,
2022. Russia (I): Georgiev *et al.*, 2023a.

Peripsocus ferrugineus Thornton & Wong. French Guiana (V): Georgiev, 2023f.

Peripsocus ghesquierei Badonnel. Uganda (VI): Georgiev, 2023a.

Peripsocus golubae Lienhard. Georgia (I): Seropian *et al.*, 2023.

Peripsocus machadoi Badonnel. Uganda (VI): Georgiev, 2023a.

Peripsocus pauliani Badonnel. French Guiana (V): Georgiev, 2023f.

Peripsocus phaeopterus (Stephens). Georgia (I): Seropian *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a.
Peripsocus subfasciatus (Rambur). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky & Aleksandrowicz, 2022; Ostrovsky *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.

Ectopsocidae

Ectopsocopsis cryptomeriae (Enderlein). Georgia (I): Seropian *et al.*, 2023.
Ectopsocopsis xerophylla Vishnyakova. Russia (I): Georgiev *et al.*, 2023a.
Ectopsocus spec. Thailand (VIII): Georgiev, 2023d.
Ectopsocus briggsi McLachlan. Georgia (I): Seropian *et al.*, 2023. Uganda (VI): Georgiev, 2023a. Korea (VIII): Kim Jaeyun *et al.* 2023 (figs).
Ectopsocus maindroni Badonnel. French Guiana (V): Georgiev, 2023f.
Ectopsocus meridionalis Ribaga. Georgia (I): Seropian *et al.*, 2023. Thailand (VIII): Georgiev, 2023d.
Ectopsocus petersi Smithers. Germany (I): Köhler, 2022.
Ectopsocus pilosus Badonnel. Uganda (VI): Georgiev, 2023a. Thailand (VIII): Georgiev, 2023d.
Ectopsocus pumilis (Banks). Uganda (VI): Georgiev, 2023a.
Ectopsocus ribagai Enderlein. French Guiana (V): Georgiev, 2023f.
Ectopsocus thibaudi Badonnel. French Guiana (V): Georgiev, 2023f.
Ectopsocus vilhenai Badonnel. Uganda (VI): Georgiev, 2023a.
Ectopsocus vishnyakovae Schmidt. Georgia (I): Seropian *et al.*, 2023.

Elipsocidae

Elipsocus abdominalis Reuter. Poland (I): Ostrovsky *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a.
Elipsocus hyalinus (Stephens). Georgia (I): Seropian *et al.*, 2023.
Elipsocus moebiusi Tetens. Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky & Aleksandrowicz, 2022. Russia (I): Georgiev *et al.*, 2023a.
Hemineura spec. Russia (I): Georgiev *et al.*, 2023a.
Hemineura hispanica (Enderlein). Georgia (I): Seropian *et al.*, 2023.
Nepiomorpha spec. French Guiana (V): Georgiev, 2023f.
Pseudopsocus fusciceps (Reuter). Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.
Reuterella helvimacula (Enderlein). Poland (I): Ostrovsky & Aleksandrowicz, 2022.

Mesopsocidae

Mesopsocus fuscifrons Meinander. Great Britain (I): Cook, 2023.
Mesopsocus laticeps (Kolbe). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky & Aleksandrowicz, 2022; Ostrovsky *et al.*, 2023.
Mesopsocus unipunctatus (Müller). Georgia (I): Seropian *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.

Philotarsidae

Aaroniella badonneli (Danks). Georgia (I): Seropian *et al.*, 2023.
Philotarsus parviceps Roesler. Poland (I): Ostrovsky & Aleksandrowicz, 2022.
Philotarsus picicornis (Fabricius). Georgia (I): Seropian *et al.*, 2023.

Trichopsocidae

Trichopsocus dalii (McLachlan). Georgia (I): Seropian *et al.*, 2023.

Calopsocidae / Pseudocaeciliidae (NB: The family definition of "Pseudocaeciliidae *sensu lato*" proposed by Yoshizawa & Johnson, 2014 is here accepted, so the name Pseudocaeciliidae Pearman, 1936 becomes a junior subjective synonym of Calopsocidae Kolbe, 1882).

Cyclopsocus hyalinus Thornton & Smithers. Thailand (VIII): Georgiev *et al.*, 2023b.
Mepleres pictus (Badonnel). Uganda (VI): Georgiev, 2023a (cf. *pictus*).
Pseudocaecilius clunialis Vaughan, Thornton & New. French Guiana (V): Georgiev, 2023f.
Trimerocaecilius becheti Meinander. Great Britain (I): Dodd *et al.*, 2023.

Ptiloneuridae

Euplocania Enderlein. Key to species from Peru: Gonzalez-Obando & Carrejo-Gironza, 2023: 174.
Diagnosis of the *garcialdretei* species group: Gonzalez-Obando & Carrejo-Gironza, 2023: 186.
*Euplocania alfonnerii** Gonzalez-Obando & Carrejo-Gironza, 2023: 175. Peru (V).

*Euplocania amarui** Gonzalez-Obando & Carrejo-Gironza, 2023: 176. Peru (V).
*Euplocania garcialdretei** Gonzalez-Obando & Carrejo-Gironza, 2023: 179. Peru (V).
*Euplocania katarii** Gonzalez-Obando & Carrejo-Gironza, 2023: 181. Peru (V).
*Euplocania matsiguenka** Gonzalez-Obando & Carrejo-Gironza, 2023: 183. Peru (V).
*Euplocania wchipere** Gonzalez-Obando & Carrejo-Gironza, 2023: 184. Peru (V).
Triplocania Roesler. Key to species of *magnifica* group and distribution of these species: Lima *et al.*, 2023.
Triplocania magnifica Roesler. Brazil (V): Lima *et al.*, 2023: 102 (new record, figs).
*Triplocania oiapoque** Lima, Rafael, Bravo & Silva-Neto, 2023: 95. Brazil (V). Variation in forewing venation of males: Lima *et al.*, 2023: 99.

Epipsocidae

Bertkauia lucifuga (Rambur). Georgia (I): Seropian *et al.*, 2023. Russia (I): Georgiev & Ruchin, 2023.
Epipsocopsis costalis (Banks). Thailand (VIII): Georgiev, 2023d.

Hemipsocidae

Hemipsocus africanus Enderlein. Uganda (VI): Georgiev, 2023a.

Myopsocidae

Checklist of New World species and key to South American species of Myopsocidae: Gonzalez-Obando *et al.*, 2023.

Altitudinal distribution of Myopsocidae in Colombia: Gonzalez-Obando *et al.*, 2023: 58.

*Lichenomima aldretei** Ramesh, Babu & Subramanian, 2023b: 576. India (VIII).

Lichenomima ariasi (New). Colombia (V): Gonzalez-Obando *et al.*, 2023.

*Lichenomima bonaverensis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 9. Colombia (V).

*Lichenomima gorgonaensis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 11. Colombia (V).

*Lichenomima guapiensis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 14. Colombia (V).

*Lichenomima huilensis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 14. Colombia (V).

*Lichenomima iscuande** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 17. Colombia (V).

*Lichenomima lienhardi** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 20. Colombia (V).

*Lichenomima occidentalis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 20. Colombia (V).

Lichenomima onca Mockford. Colombia (V): Gonzalez-Obando *et al.*, 2023.

*Lichenomima pearmani** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 23. Colombia (V).

*Myopsocus amacayacu** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 26. Colombia (V).

*Myopsocus amazonensis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 28. Colombia (V).

*Myopsocus andaquies** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 30. Colombia (V).

*Myopsocus caliensis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 34. Colombia (V).

*Myopsocus caquetensis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 34. Colombia (V).

*Myopsocus chocoensis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 36. Colombia (V).

*Myopsocus colombianus** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 36. Colombia (V).

*Myopsocus garcialdretei** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 39. Colombia (V).

*Myopsocus inga** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 42. Colombia (V).

*Myopsocus insularis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 44. Colombia (V).

*Myopsocus katio** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 47. Colombia (V).

Myopsocus minor (New & Thornton). Colombia (V): Gonzalez-Obando *et al.*, 2023.

Myopsocus minutus (Mockford). Colombia (V): Gonzalez-Obando *et al.*, 2023.

*Myopsocus panchei** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 47. Colombia (V).
*Myopsocus putumayensis** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 50. Colombia (V).
*Myopsocus tukunare** Gonzalez-Obando, Calderon-Martinez & Carrejo-Gironza, 2023: 52. Colombia (V).

Psocidae

Key to genera of Thyrsopterini from China: Jie Lulan *et al.*, 2022b: 95.

Amphigerontia bifasciata (Latreille). Russia (I): Georgiev *et al.*, 2023a.

Amphigerontia contaminata (Stephens). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky & Aleksandrowicz, 2022; Ostrovsky *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a.

Blaste nairobiensis New. Uganda (VI): Georgiev, 2023a.

*Dipsocus*** Jie Lulan, Liang Feiyang & Liu Xingyue 2022b: 95. Gender: M. Type species: *Dipsocus fashengi* Jie Lulan, Liang Feiyang & Liu Xingyue.

*Dipsocus fashengi** Jie Lulan, Liang Feiyang & Liu Xingyue 2022b: 96. China (VIII).

Hyalopsocus contrarius (Reuter). Poland (I): Ostrovsky *et al.*, 2023.

Hyalopsocus morio (Latreille). Poland (I): Ostrovsky *et al.*, 2023.

Loensia fasciata (Fabricius). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky & Aleksandrowicz, 2022; Ostrovsky *et al.*, 2023.

Loensia pearmani Kimmins. Poland (I): Ostrovsky *et al.*, 2023.

Loensia variegata (Latreille). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky *et al.*, 2023.

Metylophorus nebulosus (Stephens). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky & Aleksandrowicz, 2022; Ostrovsky *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.

Neopsocopsis hirticornis (Reuter). Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.

Neopsocus rhenanus Kolbe. Georgia (I): Seropian *et al.*, 2023.

Oreopsocus montanus (Kolbe). Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.

Psococerastis gibbosa (Sulzer). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky *et al.*, 2023.

Psocus bipunctatus (Linnaeus). Georgia (I): Seropian *et al.*, 2023.

Trichadenotecnum alexanderae Sommerman. Georgia (I): Seropian *et al.*, 2023.

Trichadenotecnum circularoides Badonnel. Uganda (VI): Georgiev, 2023a.

Trichadenotecnum majus (Kolbe). Poland (I): Ostrovsky *et al.*, 2023. Russia (I): Georgiev *et al.*, 2023a; Georgiev & Ruchin, 2023.

*Trichadenotecnum okuyamai** Yoshizawa, 2022: 22. Japan (VIII).

Trichadenotecnum sexpunctatum (Linnaeus). Georgia (I): Seropian *et al.*, 2023. Poland (I): Ostrovsky *et al.*, 2023.

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 22 of the "Additions"; see also **Synthesis of Parts 1-10** (Lienhard, 2016d = Psocid News Special Issue 3) and **Synthesis of Parts 11-20** (Lienhard, 2021b = Psocid News Special Issue 4).

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 (Psocid News Special Issue 2), Lienhard, 2021b (Psocid News Special Issue 4) and Lienhard, 2022 (Part 21 of the "Additions"), Lienhard, 2023a (Part 22 of the "Additions").

Ahn Jeong Joon & Choi Kyung San 2022. Distribution patterns of intrinsic optimal temperature, optimal development temperature and optimal fecundity temperature by classification group of insects and mites. *Korean Journal of Applied Entomology* 61(1): 165-172. **(Only abstract seen)**.

Alvarez-Parra, S., Peñalver, E., Nel, A. & Delclos, X. 2023. Barklice (Insecta: Psocodea) from Early Cretaceous resiniferous forests of Iberia (Spanish amber): new Troctomorpha and a possible Psocomorpha. *Cretaceous Research* 148 (2023) 105544: 14 pp, 7 figs.

- Athanassiou, C. G. & Nayak, M. K. (eds). Psocids as global pests of stored products. *CABI Book*, 136 pp. (8 chapters).
- Brimblecombe, P., Mueller, G., Schmidt, M., Tischhauser, W., Landau, I. & Querner, P. 2023. Urban pest abundance and public inquiries in Zurich 1991-2022. *Insects* 14(10): 1-14. **(Only abstract seen)**.
- Casasola-Gonzalez, J. A. 2023. In memorial of Alfonso Neri Garcia Aldrete. *Psocid News* 25: 1-2, 2 figs.
- Chen Shengfu, Wang Menglin & Liang Feiyang 2023. A new species of bark louse genus *Paramanicapsocus* (Insecta, Psocodea, Manicapsocidae) from mid-Cretaceous Burmese amber. *Zootaxa* 5315 (3): 264-270.
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- Cheng Zixin, Kamimura, Y., Ferreira, R. L., Lienhard, C. & Yoshizawa, K. 2023b. Are males just passive? Coupling mechanism of the Brazilian cave insects with inverted genitalia. *The Science of Nature* (2023) 110: 26, 12 pp., 8 figs.
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- Georgiev, D. 2023f. New records of Psocoptera (Insecta) from French Guiana. *ZooNotes* 223: 1-4, 2 figs.
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5. Subject Bibliography for Part 23 of the Additions

NOTE: A Subject Bibliography for Lienhard & Smithers (2002) and for Parts 1-15 of the Additions is given by Lienhard (2016c = Psocid News Special Issue 2) and for Parts 16-20 in Lienhard (2021b = Psocid News Special Issue 4). For Parts 21 and 22 of the Additions the subject bibliography is given by Lienhard, 2022, 2023a.

Behaviour

2023 Cheng Zixin *et al.*, 2023b (Add. 23) (copulatory processes in *Neotrogla*)
2023 Hakim *et al.*, 2023b (Add. 23) (fossil psocids on copula, mid-Cretaceous amber)

Biology, life history, physiology, genetics

2022 Ahn Jeong Joon & Choi Kyung San 2022 (Add. 23) (physiology: temperature)
2023 Lu Ting *et al.*, 2023 (Add. 23) (*Liposcelis entomophila*, physiology)

Ecology

2023 Gonzalez-Obando *et al.*, 2023 (Add. 23) (altitudinal distribution of Myopsocidae in Colombia)
2023 Nicolo Aldini, 2023 (Add. 23) *Sphaeropsocopsis (Italopsocopsis) utriusquemariaechristinae*,
synanthropic species in rooms used for the conservation of cultural heritage
2023 Stolbova & Stolbov, 2023 (Add. 23) (*Liposcelis* in honey bee hives, Russia)

General treatises, keys, bibliographies

2022 Jie Lulan *et al.*, 2022b (Add. 23) (key to genera of Psocidae: Thyrsochorini from China)
2023 Gonzalez-Obando *et al.*, 2023 (Add. 23) (key to South American species of Myopsocidae)
2023 Lienhard, 2023a (Add. 23) (Additions to the World Catalogue and Bibliography, Part 22)

History, biographies

2023 Casasola-Gonzalez, 2023 (Add. 23) (obituary A. N. Garcia Aldrete)

Morphology, anatomy

2023 Cheng Zixin *et al.*, 2023a (Add. 23) (muscles of female penis in *Neotrogla*)
2023 Cheng Zixin *et al.*, 2023b (Add. 23) (genitalia and copulatory processes in *Neotrogla*)

Palaeontology

2023 Alvarez-Parra *et al.*, 2023 (Add. 23) (Spain: Lower Cretaceous amber)
2023 Chen Shengfu *et al.*, 2023 (Add. 23) (Myanmar: mid-Cretaceous Burmese amber)
2023 Hakim *et al.*, 2023a, 2023b (Add. 23) (Myanmar, mid-Cretaceous amber)
2023 Luo Cihang *et al.*, 2023 (Add. 23) (nematode parasites in Cretaceous fossils)

Pests

2023 Athanassiou & Nayak, 2023 (Add. 23) (psocids as global pests of stored products)
2023 Brimblecombe *et al.*, 2023 (Add. 23) (Urban pest abundance, Switzerland)
2023 Danso *et al.*, 2023 a, 2023b (Add. 23) (*Liposcelis decolor*, control)
2023 Deng Wenxin *et al.*, 2023 (Add. 23) (identification of *Liposcelis* based on CRISPR/Cas12a and RPA)
2023 Ishibashi, 2023 (Add. 23) (*Liposcelis bostrychophila*, control)
2023 Lu Ting *et al.*, 2023 (Add. 23) (*Liposcelis entomophila*, control)
2023 Nicolo Aldini, 2023 (Add. 23) (*Sphaeropsocopsis (Italopsocopsis) utriusquemariaechristinae*,
synanthropic species in rooms used for the conservation of cultural heritage)
2023 Sun Weiwei *et al.*, 2023 (Add. 23) (*Liposcelis bostrychophila*, control, mites as predators)

Phylogeny, evolution, classification

2023 Cheng Zixin *et al.*, 2023a (Add. 23) (phylogeny of Trogiomorpha)
2023 Cheng Zixin *et al.*, 2023b (Add. 23) (sexual selection in *Neotrogla*)

Predators, parasites, parasitoids

2023 Luo Cihang *et al.*, 2023 (Add. 23) (nematode parasites in Cretaceous fossils)
2023 Sun Weiwei *et al.*, 2023 (Add. 23) (*Liposcelis bostrychophila*, mites as predators)

Techniques

2023 Deng Wenxin *et al.*, 2023 (Add. 23) (identification of *Liposcelis* based on CRISPR/Cas12a and RPA)
2023 Seropian *et al.*, 2023 (Add. 23) (barcode assisted checklist, Georgia)

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Next issue. About Feb. 2025. Please let me have all contributions by Jan. 31 2025.

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