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# Psocid News

## The Psocidologists' Newsletter

No. 13 (Feb. 28, 2011)



Nymph of *Prionoglaris* sp. (Turkey)

### **ADDITIONS AND CORRECTIONS (PART 10) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) - WORLD CATALOGUE AND BIBLIOGRAPHY"**

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#### **1. Introduction**

This is the 10th part of a series of "Additions and Corrections to the World Catalogue and Bibliography" published in "Psocid News" (Parts 1-9 in Psocid News no. 4-12). Please send me regularly copies of your papers on Psocoptera, and please inform me about errors that you find in the 2002-book (= 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 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. The other papers will be analysed in a future part of the "Additions to the Catalogue", as soon as a copy of them becomes available to me.

In general these "Additions" present the information in the style of the 2002-book, according to the criteria mentioned there (pp. ix-xli) and using the same abbreviations (cf. pp. xl-xli). Families (and higher categories, if mentioned) are listed according to Table 1 of the 2002-book, except for changes published since (see "Additions", Parts 1-9). For each family, newly published changes concerning supra-generic taxa are mentioned at the beginning of the family treatment, except for Psocidae, where subfamilies are treated separately. For genus-group names and species-group names already mentioned in the 2002-book only the author is cited, 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 mentioned in the 2002-Catalogue, but cited in a preceding part of the "Additions", author and year are mentioned [the complete reference can be found in the Part of the "Additions", where the name has been cited for the first time (= first entry of a new name)]. Genera are listed alphabetically within each family, except for Psocidae, where they are grouped according to subfamilies. Species are listed alphabetically within each genus. Species names are usually cited in the combination used in the 2002-book, if not an explicit change of combination (or a new synonymy) has been published since. Country names (in the "Additions to the Catalogue") and author names (in the "Additions to the Bibliography") are not printed in small capitals, as in the 2002-book, but in normal letters. The "Corrections" refer to the pages of the 2002-book 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 (cf. 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 endings to the grammatical gender of the genus name).

Complete bibliographical references to publications cited in the present paper, which are not listed in Chapter 4 (Additions to the Bibliography), can be found in the World Bibliography (Lienhard & Smithers, 2002: 493-664) or in Parts 1 to 9 of the "Additions" (Psocid News, no. 4-12).

## **2. List of countries mentioned in the "Additions and Corrections to the World Catalogue" (Parts 1-10)**

Country checklists of Psocoptera species extracted from the 2002-World Catalogue are available at: <http://www.ville-ge.ch/mhng/psocoptera/page/ps-coun.htm>

All additional species records are mentioned in the "Additions and Corrections to the World Catalogue" and all countries mentioned in Parts 1 to 10 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 recorded, mainly from amber (**A**). This list is provided to facilitate computer searching for distributional references in the online version of the different parts which can be found on the PsocoNet Homepage: <http://insect3.agr.hokudai.ac.jp/psoco-web/psoco-net/index.html>

- Part 1: published in Psocid News, no. 4: 2-24
- Part 2: published in Psocid News, no. 5: 2-37
- Part 3: published in Psocid News, no. 6: 1-23
- Part 4: published in Psocid News, no. 7: 1-16
- Part 5: published in Psocid News, no. 8: 1-18
- Part 6: published in Psocid News, no. 9: 1-17
- Part 7: published in Psocid News, no. 10: 1-18
- Part 8: published in Psocid News, no. 11: 2-16
- Part 9: published in Psocid News, no. 12: 1-18
- Part 10: published in Psocid News, no. 13 (= present issue)

**(I)** Austria (Parts 1, 3, 4, 5, 6, 8, 9), Bahrain (Part 8), Belgium (Parts 3, 6, 8, 10), Bulgaria (Part 8), Croatia (Parts 6,7), Czech Republic (Parts 1, 4, 5, 6, 7, 8, 10), Denmark (Part 10), Egypt (Part 6), Europe (Part 10), Finland (Parts 1, 7, 10), France (Parts 1, 3, 4, 6, 7, 8, 9, 10), Germany (Parts 1, 3, 4, 5, 7, 8, 10), Great Britain (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10), Greece (Parts 5, 6), Hungary (Parts 1, 3, 10), Iceland (Part 10), Iran (Parts 6, 8), Ireland (Parts 6, 9), Israel (Parts 4, 6, 8), Italy (Parts 1, 3, 5, 6, 7, 8, 9, 10), Lebanon (Parts 6, 7, 9, 10), Lithuania (Part 8), Luxembourg (Parts 1, 3, 7, 8, 10), Morocco (Part 10), Netherlands (Parts 4, 7, 9), Norway (Parts 4, 10), Oman (Part 8), Portugal (Parts 6, 7), Romania (Part 10), Russia (Parts 6, 8, 10), Saudi Arabia (Part 8), Slovakia (Part 1), Spain (Parts 1, 5, 7, 8, 9), Sweden (Part 8, 10), Switzerland (Parts 1, 3, 4, 6, 7, 8), Turkey (Part 5, 10), UAE (Parts 8, 9), Ukraine (Part 6), Yemen (Parts 4, 8)

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

**(III)** Canada (Parts 4, 6, 7, 8), USA (Parts 1, 4, 5, 6, 7, 8, 9, 10)

**(IV)** Belize (Parts 1, 4, 6, 8, 9, 10), Costa Rica (Parts 1, 6, 8), Cuba (Part 6), Dominica (Parts 5, 6), Dominican Republic (Parts 4, 6, 7, 8), Guatemala (Parts 1, 4, 7, 8), Haiti (Parts 1, 4), Hispaniola (Part 10), Honduras (Part 8), Jamaica (Parts 7, 8, 9), Mexico (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10), Nicaragua (Parts 1, 3, 4, 6, 7, 8), Panama (Parts 4, 6, 8), Puerto Rico (Parts 1, 7, 10), Trinidad (Part 1)

**(V)** Argentina (Parts 3, 4, 8, 9), Bolivia (Parts 1, 5, 9, 10), Brazil (Parts 1, 4, 5, 6, 7, 8, 9, 10), Chile (Parts 1, 4, 6, 8), Colombia (Parts 1, 10), Ecuador (Parts 1, 6, 8), Peru (Parts 1, 5, 6, 8, 9, 10), Suriname (Part 10), Venezuela (Parts 1, 4, 6, 7, 8, 10)

**(VI)** Ghana (Part 4), Guinea (Part 1), Kenya (Part 4), Madagascar (Part 5), Malawi (Part 3), Namibia (Parts 1, 6, 7, 8, 10), South Africa (Parts 3, 6, 7, 8), Tanzania (Parts 3, 4), Uganda (Part 6)

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

**(IX)** Australia (Parts 1, 4, 5, 6, 7, 8, 10), Lord Howe Island (Parts 4, 7), New Zealand (Parts 1, 4), Tasmania (Part 9)

**(X)** Fiji (Part 8), Galapagos (Part 5), Hawaii (Part 8)

**(A)** Amber and Copal (or other fossils) (Parts 1, 3, 5, 6, 7, 8, 9, 10)

### 3. Additions to the Catalogue

#### Psocodea

Bess & Johnson, 2010 (online species file). Liu Ping-Juan *et al.*, 2010 (some Middle Jurassic Psocodea listed from the literature, belonging to Lophioneuridae and uncertain family, with remarks on palaeoecology) (A). Yoshizawa & Johnson, 2010 (discussion of "Polyphyly of Lice" hypothesis). Yoshizawa & Lienhard, 2010 (phylogenetic relationships of Liposcelididae with parasitic Psocodea discussed).

**Psocidiidae** (= Dichentomidae; see Rasnitsyn, 2002: 129)

**Psocopsylla**\*\* Özdikmen, 2009: 613 (replacement name for *Eopsylla* Vishnyakova, 1976). Gender: F. Type species: *Dichentomum sojanense* Becker-Migdisova, 1962 (Upper Permian) (A).

#### Psocoptera

Baz, 2008b (encyclopedia). Golub & Nokkala, 2009 (chromosome numbers, review). Ahmedani *et al.*, 2010 (psocids as stored product pests, review). Athanassiou *et al.*, 2010a (control of stored-product psocids). Barros *et al.*, 2010 (ecol., Brazil). Cutz *et al.*, 2010 (ecol., Mexico). Garcia-del-Rey *et al.*, 2010 (psocids as prey of birds). Hollier, 2010 (common names discussed: barklouse/barkfly). Lienhard, 2010 (additions and corrections to the World Catalogue). Lienhard *et al.*, 2010b: 627 (spermapore region belonging to 8th sternum, not to 9th sternum). Mallis & Rieske, 2010 (psocids as potential prey for web-building spiders, USA). Richardson *et al.*, 2010 (ecol., Puerto Rico). Sabu & Shiju, 2010 (collecting techniques, India). Savoldelli & Bruschi, 2010 (monitoring in pasta warehouse). Stiling *et al.*, 2010 (no effect of elevated CO<sub>2</sub> on psocids). Throne, 2010 (psocids as emerging pests of stored products in North America). Vasconcellos *et al.*, 2010 (ecol., Brazil). Wang *et al.*, 2010 (grain storage in China, review). Whitaker & Ruckdeschel, 2010 (psocids in "Spanish Moss", Bromeliaceae, USA). Yoshizawa, 2010a (newsletter).

#### Psocoptera incertae sedis:

**Lacroxiella martini** (Lacroix). Distr.: Schneider, 2010a (species alien to Europe).

#### Empheriidae

**Jerseyempheria**\*\* Azar, Nel & Petrulevicius, 2010: 763. Gender: F. Type species: *Jerseyempheria grimaldii* Azar, Nel & Petrulevicius.

**Jerseyempheria grimaldii**\* Azar, Nel & Petrulevicius, 2010: 763. Amber (Upper Cretaceous) (A): USA, New Jersey (III).

#### Lepidopsocidae

**Echmepteryx** spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

**Echmepteryx madagascariensis** (Kolbe). Distr.: Schneider, 2010a (species alien to Europe).

**Lepolepis bicolor** Broadhead. Distr.: Schneider, 2010a (species alien to Europe).

**Nepticulomima sakuntala** Enderlein. Distr.: Schneider, 2010a (species alien to Europe).

**Pteroxanium kelloggi** (Ribaga). Denmark, Sweden (I): Svensson & Hall, 2010. Biol.: Saville, 2010a (feeding preferences). Distr.: Schneider, 2010a (species alien to Europe).

**Soa flaviterminata** Enderlein. Distr.: Schneider, 2010a (species alien to Europe).

#### Trogiidae

**Cerobasis annulata** (Hagen). Iceland, Norway (I): Svensson & Hall, 2010. Distr.: Schneider, 2010a (species alien in parts of Europe).

**Cerobasis guestfalica** (Kolbe). Denmark, Finland, Iceland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b.

**Lepinotus** spec. Morocco (I): Arahou, 2008.

**Lepinotus inquilinus** Heyden. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe). Pest: Ahmedani *et al.*, 2010.

**Lepinotus patruelis** Pearman. Denmark, Finland, Iceland, Norway, Sweden (I): Svensson & Hall, 2010. Distr.: Schneider, 2010a (species alien to Europe). Pest: Ahmedani *et al.*, 2010.

**Lepinotus reticulatus** Enderlein. Finland, Norway, Sweden (I): Svensson & Hall, 2010. Biol.: Opit *et al.*, 2010a (reproductive parameters). Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe). Ecol.: Opit *et al.*, 2010b (life history). Pest: Ahmedani *et al.*, 2010; Athanassiou *et al.*, 2009b, 2009c, 2010c (control).

**Trogium pulsatorium** (Linnaeus). Denmark, Finland, Iceland, Norway, Sweden (I): Svensson & Hall, 2010.

Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe). Pest: Ahmedani *et al.*, 2010.

### **Psoquillidae**

Note on morphology of phallosome: Mockford & Garcia Aldrete, 2010b: 62.

*Psoquilla infuscata* Badonnel. Description of male and brachypterous form: Mockford & Garcia Aldrete, 2010b: 62. Belize, Mexico (IV); Peru, Suriname (V).

*Psoquilla marginepunctata* Hagen. Augmented description: Mockford & Garcia Aldrete, 2010b: 65 (synonymy with *Heteropsocus dispar* Verrill confirmed); USA (III), Mexico (IV), Brazil (V). Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe).

*Rhyopsocus* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

*Rhyopsocus disparilis* (Pearman). Distr.: Schneider, 2010a (species alien to Europe).

*Rhyopsocus peregrinus* (Pearman). Distr.: Schneider, 2010a (species alien to Europe).

### **Psyllipsocidae**

*Dorypteryx domestica* (Smithers). Denmark, Finland, Iceland, Norway, Sweden (I): Svensson & Hall, 2010. Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe).

*Dorypteryx longipennis* Smithers. Distr.: Schneider, 2010a (species alien to Europe).

*Dorypteryx pallida* Aaron. Distr.: Schneider, 2010a (species alien to Europe).

*Psocathropos* spec. Chrom.: Golub & Nokkala, 2009.

*Psocathropos lachlani* Ribaga. Distr.: Schneider, 2010a (species alien to Europe).

*Psyllipsocus* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

*Psyllipsocus ramburii* Selys-Longchamps. Finland, Iceland, Norway, Sweden (I): Svensson & Hall, 2010. Distr.: Schneider, 2010a (species alien to Europe).

### **Prionoglarididae**

Genital morphology and biogeography of Sensitibillini discussed (especially genera *Afrotrogl*a and *Neotrogl*a): Lienhard *et al.*, 2010b.

*Afrotrogl*a Lienhard, 2007. Genital morphology discussed: Lienhard *et al.*, 2010b.

*Neotrogl*a\*\* Lienhard, 2010; *in*: Lienhard, Oliveira do Carmo & Lopes Ferreira, 2010: 612. Gender: F. Type species: *Neotrogl*a *brasiliensis* Lienhard.

*Neotrogl*a *aurora*\* Lienhard, 2010; *in*: Lienhard, Oliveira do Carmo & Lopes Ferreira, 2010: 619. Brazil (V).

*Neotrogl*a *brasiliensis*\* Lienhard, 2010; *in*: Lienhard, Oliveira do Carmo & Lopes Ferreira, 2010: 614. Brazil (V).

*Neotrogl*a *truncata*\* Lienhard, 2010; *in*: Lienhard, Oliveira do Carmo & Lopes Ferreira, 2010: 622. Brazil (V).

*Sensitibilla etosha*\* Lienhard & Holusa, 2010; *in*: Lienhard, Holusa & Grafitti, 2010: 193. Namibia (VI).

*Speleopsocus*\*\* Lienhard, 2010; *in*: Lienhard, Holusa & Grafitti, 2010: 186. Gender: M. Type species: *Speleopsocus chimanta* Lienhard.

*Speleopsocus chimanta*\* Lienhard, 2010; *in*: Lienhard, Holusa & Grafitti, 2010: 187. Venezuela (V).

### **Amphientomidae**

*Lithoseopsis* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

*Seopsis* spec. Chrom.: Golub & Nokkala, 2009.

*Seopsocus acuminatus* Roesler. Chrom.: Golub & Nokkala, 2009.

### **Liposcelididae**

Review of taxonomy, fossil record and phylogeny, with updated species checklist: Yoshizawa & Lienhard, 2010.

Monophyly of subfamily Embidopsocinae highly questionable: Yoshizawa & Lienhard, 2010.

*Belaphopsocus dominicus* Grimaldi & Engel, 2006. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

*Belaphotroctes ghesquierei* Badonnel. Distr.: Schneider, 2010a (species alien to Europe).

*Embidopsocus enderleini* (Ribaga). Great Britain (I): Saville, 2010b.

*Embidopsocus minor* (Pearman). Distr.: Schneider, 2010a (species alien to Europe).

*Embidopsocus oleaginus* (Hagen). Czech Republic (I): Kucerova & Lienhard, 2010 (imported with stored food products).

*Liposcelis* Motschulsky. Monophyly with respect to *Trogloctroctes* Lienhard highly questionable: Yoshizawa

& Lienhard, 2010.

- Liposcelis** spec. Morocco (I): Arahou, 2008. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008 (listed based on Grimaldi & Engel, 2006).
- Liposcelis** spec. Yoshizawa & Lienhard, 2010: 183. Lower Eocene amber (Tertiary) from France (I) (A). *Embidopsocus eocenicus* Nel, De Ploeg & Azar; *sensu* Nel *et al.*, 2005: 379 (apterous specimen). [Not *Embidopsocus eocenicus* Nel, De Ploeg & Azar, 2004: 31].
- Liposcelis albothoracica** Broadhead. Distr.: Schneider, 2010a (species alien to Europe).
- Liposcelis bostrychophila** Badonnel. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Italy (I): Dutto, 2008 (pest in school buildings). Turkey (I): Özsisli, 2010. Malaysia (VIII): Heo Chong Chin *et al.*, 2010 (pest in museum). Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe). Parasit.: Behar *et al.*, 2010 (*Rickettsia felis*); Kageyama *et al.*, 2010 (*Wolbachia* symbionts). Pest: Ahmedani *et al.*, 2010; Athanassiou *et al.*, 2009b, 2009c (control); Athanassiou *et al.*, 2010b (population dynamics); Deng *et al.*, 2010 (control); Dou *et al.*, 2010a, 2010b (glutathione S-transferases, control); Nayak, 2010 (control). Techniques: Ceruti & Lazzari, 2010 (species identification by molecular markers); Jiang Hong-Bo *et al.*, 2010a, 2010b (molecular genetics); Lazzari *et al.*, 2010 (species discrimination by Near Infrared Spectroscopy); Li Zhihong *et al.*, 2010 (molecular identification of species).
- Liposcelis brunnea** Motschulsky. Finland, Norway, Sweden (I): Svensson & Hall, 2010. Distr.: Schneider, 2010a (species alien to Europe). Ecol.: Opit *et al.*, 2010b (life history). Pest: Ahmedani *et al.*, 2010. Techniques: Ceruti & Lazzari, 2010 (species identification by molecular markers); Lazzari *et al.*, 2010 (species discrimination by Near Infrared Spectroscopy); Li Zhihong *et al.*, 2010 (molecular identification of species).
- Liposcelis corrosens** (Heymons). Finland, Iceland, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Distr.: Schneider, 2010a (species alien to Europe). Pest: Ahmedani *et al.*, 2010. Techniques: Ceruti & Lazzari, 2010 (species identification by molecular markers); Lazzari *et al.*, 2010 (species discrimination by Near Infrared Spectroscopy); Li Zhihong *et al.*, 2010 (molecular identification of species).
- Liposcelis decolor** (Pearman). Denmark, Finland, Iceland (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Great Britain (I): Saville, 2010b. Distr.: Mikac & FitzSimmons, 2010 (population genetics, dispersal); Schneider, 2010a (species alien to Europe). Pest: Ahmedani *et al.*, 2010; Athanassiou *et al.*, 2010b (population dynamics); Nayak, 2010 (control). Techniques: Lazzari *et al.*, 2010 (species discrimination by Near Infrared Spectroscopy); Li Zhihong *et al.*, 2010 (molecular identification of species).
- Liposcelis divinatoria** (Müller). Hispaniola (IV): Perez-Gelabert, 2008. Pest: Ahmedani *et al.*, 2010.
- Liposcelis entomophila** (Enderlein). Finland (I): Svensson & Hall, 2010. Distr.: Schneider, 2010a (species alien to Europe). Pest: Ahmedani *et al.*, 2010; Athanassiou *et al.*, 2009b (control); Athanassiou *et al.*, 2010b (population dynamics); Dou *et al.*, 2010b (glutathione S-transferases); Nayak, 2010 (control). Phys.: Xiao Li-Sha *et al.*, 2010 (acetylcholinesterase, insecticide resistance). Techniques: Ceruti & Lazzari, 2010 (species identification by molecular markers); Lazzari *et al.*, 2010 (species discrimination by Near Infrared Spectroscopy); Li Zhihong *et al.*, 2010 (molecular identification of species).
- Liposcelis formicaria** (Hagen). Czech Republic (I): Kucerova & Lienhard, 2010.
- Liposcelis fusciceps** Badonnel. Techniques: Ceruti & Lazzari, 2010 (species identification by molecular markers); Lazzari *et al.*, 2010 (species discrimination by Near Infrared Spectroscopy).
- Liposcelis keleri** Günther. Czech Republic (I): Kucerova & Lienhard, 2010 (in building). Sweden (I): Svensson & Hall, 2010.
- Liposcelis mendax** Pearman. Czech Republic (I): Kucerova & Lienhard, 2010. Distr.: Schneider, 2010a (species alien to Europe). Pest: Ahmedani *et al.*, 2010. Techniques: Li Zhihong *et al.*, 2010 (molecular identification of species).
- Liposcelis obscura** Broadhead. Distr.: Schneider, 2010a (species alien to Europe).
- Liposcelis paeta** Pearman. Distr.: Schneider, 2010a (species alien to Europe). Pest: Ahmedani *et al.*, 2010; Athanassiou *et al.*, 2009b, 2009c (control); Athanassiou *et al.*, 2010b (population dynamics); Lu & He, 2010 and Lu & Wu, 2010 (control); Nayak, 2010 (control); Wu Shuang *et al.*, 2010 (acetylcholinesterase, insecticide resistance). Techniques: Ceruti & Lazzari, 2010 (species identification by molecular markers); Lazzari *et al.*, 2010 (species discrimination by Near Infrared Spectroscopy); Li Zhihong *et al.*, 2010 (molecular identification of species).
- Liposcelis paetula** Broadhead. Distr.: Schneider, 2010a (species alien to Europe).
- Liposcelis pearmani** Lienhard. Denmark, Finland, Sweden (I): Svensson & Hall, 2010. Distr.: Schneider, 2010a (species alien to Europe). Ecol.: Opit *et al.*, 2010b (life history). Techniques: Ceruti & Lazzari, 2010 (species identification by molecular markers); Lazzari *et al.*, 2010 (species discrimination by

Near Infrared Spectroscopy); Li Zhihong *et al.*, 2010 (molecular identification of species).

*Liposcelis pubescens* Broadhead. Denmark (I): Svensson & Hall, 2010. Distr.: Schneider, 2010a (species alien to Europe).

*Liposcelis rufa* Broadhead. Distr.: Schneider, 2010a (species alien in parts of Europe). Ecol.: Gautam *et al.*, 2010 (population dynamics); Opit *et al.*, 2010b (life history). Pest: Ahmedani *et al.*, 2010. Techniques: Ceruti & Lazzari, 2010 (species identification by molecular markers); Lazzari *et al.*, 2010 (species discrimination by Near Infrared Spectroscopy); Li Zhihong *et al.*, 2010 (molecular identification of species).

*Liposcelis silvarum* (Kolbe). Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b.

*Liposcelis tricolor* Badonnel. Pest: Ahmedani *et al.*, 2010. Techniques: Li Zhihong *et al.*, 2010 (molecular identification of species).

*Trogloctes* Lienhard. Yoshizawa & Lienhard, 2010: Genus retained but monophyly of *Liposcelis* Motschulsky with respect to *Trogloctes* Lienhard highly questionable.

### **Pachytroctidae**

*Nanopsocus oceanicus* Pearman. Distr.: Schneider, 2010a (species alien to Europe).

*Tapinella castanea* Pearman. Distr.: Schneider, 2010a (species alien to Europe).

### **Sphaeropsocidae**

Checklist of fossil and recent Sphaeropsocidae: Azar *et al.*, 2010a: 106.

*Asphaeropsocites*\*\* Azar, Engel & Grimaldi, 2010: 103. Gender: M. Type species: *Asphaeropsocites neli* Azar, Engel & Grimaldi.

*Asphaeropsocites neli*\* Azar, Engel & Grimaldi, 2010: 105. Early Cretaceous amber (A) from Lebanon (I).

*Badonnelia titei* Pearman. Finland, Iceland, Norway, Sweden (I): Svensson & Hall, 2010.

### **Epipsocidae**

*Bertkauia lucifuga* (Rambur). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Chrom.: Golub & Nokkala, 2009.

*Epipsocus* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

*Mesepipsocoides perezgelaberti* Garcia Aldrete & Casasola Gonzalez, 2008. Hispaniola (IV): Perez-Gelabert, 2008.

*Mesepipsocus bolivianus*\* Garcia Aldrete, 2009d: 384. Bolivia (V).

*Mesepipsocus icarus* (Banks). Hispaniola (IV): Perez-Gelabert, 2008.

### **Dolabellopsocidae**

*Isthmopsocus* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

### **Spurostigmatidae**

*Spurostigma* Eertmoed. Species of *Spurostigma*, checklist and key: Garcia Aldrete, 2009c.

*Spurostigma* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

*Spurostigma boliviana*\* Garcia Aldrete, 2009c: 15. Bolivia (V).

*Spurostigma hispaniola* Eertmoed. Hispaniola (IV): Perez-Gelabert, 2008.

### **Ptiloneuridae**

Key to genera: Azar, Nel & Waller, 2009: 26.

*Brisacia*\*\* Azar, Nel & Waller, 2009: 23. Gender: F. Type species: *Brisacia colombiensis* Azar, Nel & Waller.

*Brisacia colombiensis*\* Azar, Nel & Waller, 2009: 23. Copal (Quaternary) (A): Colombia (V).

*Euplocania* spec. Colombia (V), Quaternary copal (A): Azar, Nel & Waller, 2009: 24 (descr., figs).

*Loneura* Navas. Taxonomic revision and phylogeny: Castro, 2007.

*Triplocania caudata* New. Chrom.: Golub & Nokkala, 2009.

### **Cladiopsocidae**

*Cladiopsocus* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

### **Caeciliusidae**

*Asiocaecilius singaporensis* (Enderlein). Chrom.: Golub & Nokkala, 2009.

*Caecilius* spec. Chrom.: Golub & Nokkala, 2009.

*Caecilius fuscopterus* (Latreille). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2006b. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.

*Dypsocus* spec. Chrom.: Golub & Nokkala, 2009.

*Enderleinella* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

*Enderleinella obsoleta* (Stephens). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien in parts of Europe).

*Stenocaecilius antillanus* (Banks). Hispaniola (IV): Perez-Gelabert, 2008.

*Stenocaecilius insularum* (Mockford). Hispaniola (IV): Perez-Gelabert, 2008.

*Valenzuela alcinus* (Banks). Hispaniola (IV): Perez-Gelabert, 2008.

*Valenzuela atricornis* (McLachlan). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b. Romania (I): Sziraki, 2006a.

*Valenzuela burmeisteri* (Brauer). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2006b. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.

*Valenzuela caligonoides* (Mockford). Hispaniola (IV): Perez-Gelabert, 2008.

*Valenzuela caligonus* (Banks). Hispaniola (IV): Perez-Gelabert, 2008.

*Valenzuela corsicus* (Kolbe). Sweden (I): Svensson & Hall, 2010.

*Valenzuela despaxi* (Badonnel). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Romania (I): Sziraki, 2006a.

*Valenzuela difficilis* (Mockford). Hispaniola (IV): Perez-Gelabert, 2008.

*Valenzuela elegans* (Mockford). Hispaniola (IV): Perez-Gelabert, 2008.

*Valenzuela flavidus* (Stephens). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2006b, 2009. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.

*Valenzuela gynapterus* (Tetens). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Chrom.: Golub & Nokkala, 2009.

*Valenzuela labinae* Lienhard, 2006. Chrom.: Golub & Nokkala, 2009.

*Valenzuela nebulosoides* Mockford. Hispaniola (IV): Perez-Gelabert, 2008.

*Valenzuela oyamai* (Enderlein). Russia (VIII): Golub & Nokkala, 2009 (testis structure). Chrom.: Golub & Nokkala, 2009.

*Valenzuela piceus* (Kolbe). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b, 2009. Chrom.: Golub & Nokkala, 2009.

*Valenzuela subelegans* (Mockford). Hispaniola (IV): Perez-Gelabert, 2008.

*Xanthocaecilius* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

*Xanthocaecilius sommermanae* (Mockford). Parasit.: Sokolova *et al.*, 2010 (infected by microsporidia).

### Stenopsocidae

*Graphopsocus cruciatus* (Linnaeus). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2006b, 2009. Morocco (I): Arahou, 2008. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.

*Stenopsocus aphidiformis* Enderlein. Chrom.: Golub & Nokkala, 2009.

*Stenopsocus immaculatus* (Stephens). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010a, 2010b. Hungary (I): Sziraki, 2006b, 2009. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.

*Stenopsocus lachlani* Kolbe. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.

*Stenopsocus stigmaticus* (Imhoff & Labram). Denmark, Finland, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2009. Romania (I): Sziraki, 2006a.

### Amphipsocidae

*Amphipsocus japonicus* (Enderlein). Chrom.: Golub & Nokkala, 2009.

*Kolbia quisquiliarum* Bertkau. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2009. Russia (I): Golub & Nokkala, 2009. Chrom.: Golub & Nokkala, 2009.

*Polypsocus corruptus* (Hagen). Parasit.: Sokolova *et al.*, 2010 (infected by microsporidia).

*Polypsocus fasciatus* Banks. Hispaniola (IV): Perez-Gelabert, 2008.



## Lachesillidae

- Lachesilla* Westwood. Definition of *cerorma* species group: Garcia Aldrete, 2010a: 312. Subdivision of *andra* species group into 4 subgroups, key to these subgroups: Mockford & Garcia Aldrete, 2010a.
- Lachesilla acuminiforceps* Garcia Aldrete. Hispaniola (IV): Perez-Gelabert, 2008.
- Lachesilla aethiopica* (Enderlein). Hispaniola (IV): Perez-Gelabert, 2008.
- Lachesilla amacayacuensis*\* Garcia Aldrete, 2010b: 750 (assigned to *forcepeta* species group). Colombia (V).
- Lachesilla bulbosiforceps*\* Garcia Aldrete, 2010b: 751 (assigned to *forcepeta* species group). Peru (V).
- Lachesilla carpinteroï\** Garcia Aldrete, 2010a: 309 (assigned to *pedicularia* species group). Peru (V).
- Lachesilla cerorma*\* Garcia Aldrete, 2010a: 310 (assigned to *cerorma* species group). Mexico (IV).
- Lachesilla cuzcoensis*\* Garcia Aldrete, 2010b: 751 (assigned to *forcepeta* species group). Peru (V).
- Lachesilla dilatiforceps* Garcia Aldrete. Hispaniola (IV): Perez-Gelabert, 2008.
- Lachesilla pacifica* Chapman. Distr.: Schneider, 2010a (species alien to Europe).
- Lachesilla greeni* (Pearman). Norway (I): Svensson & Hall, 2010. Distr.: Schneider, 2010a (species alien in parts of Europe).
- Lachesilla marabaensis*\* Garcia Aldrete, 2010b: 752 (assigned to *forcepeta* species group). Brazil (V).
- Lachesilla pedicularia* (Linnaeus). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2006b. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009. Pest: Ahmedani *et al.*, 2010.
- Lachesilla pilosiforceps*\* Garcia Aldrete, 2010b: 753 (assigned to *forcepeta* species group). Brazil (V).
- Lachesilla pilosipenna*\* Garcia Aldrete, 2010b: 753 (assigned to *forcepeta* species group). Peru (V).
- Lachesilla quercus* (Kolbe). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2006b. Morocco (I): Arahou, 2008. Chrom.: Golub & Nokkala, 2009.
- Lachesilla rena* Sommerman. Hispaniola (IV): Perez-Gelabert, 2008.
- Lachesilla riegei* Sommerman. Hispaniola (IV): Perez-Gelabert, 2008.
- Lachesilla sandersoni* Mockford. Hispaniola (IV): Perez-Gelabert, 2008.
- Lachesilla squamiforceps*\* Garcia Aldrete, 2010b: 754 (assigned to *forcepeta* species group). Colombia (V).
- Lachesilla tanaidana* Roesler. Chrom.: Golub & Nokkala, 2009.
- Lachesilla tectorum* Badonnel. Hispaniola (IV): Perez-Gelabert, 2008. Distr.: Schneider, 2010a (species alien to Europe).
- Lachesilla texana*\* Mockford & Garcia Aldrete, 2010a: 50 (assigned to *andra* species group). Mexico (IV), USA (III).
- Lachesilla williamsi*\* Garcia Aldrete, 2010a: 310 (assigned to *pedicularia* species group). Peru (V).
- Nanolachesilla haitiana* Mockford & Sullivan. Hispaniola (IV): Perez-Gelabert, 2008.

## Ectopsocidae

- Ectopsocopsis cryptomeriae* (Enderlein). Norway (I): Svensson & Hall, 2010. Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus axillaris* (Smithers). Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus* spec. Australia (IX): Juniper & Britton, 2010 (ecol.).
- Ectopsocus briggsi* McLachlan. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2006b. Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus maindroni* Badonnel. Czech Republic (I): Kucerova & Lienhard, 2010 (domestic). Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus meridionalis* Ribaga. Hungary (I): Sziraki, 2006b, 2009. Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus petersi* Smithers. Belgium, Luxembourg (I): Schneider, 2010b. Denmark, Norway, Sweden (I): Svensson & Hall, 2010.
- Ectopsocus pumilis* (Banks). Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus richardsi* (Pearman). Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus rileyae* Schmidt & Thornton. Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus strauschi* Enderlein. Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus titschacki* Jentsch. Distr.: Schneider, 2010a (species alien to Europe).
- Ectopsocus vachoni* Badonnel. Distr.: Schneider, 2010a (species alien in parts of Europe).

## Peripsocidae

- Diplopsocus fasciatus* (Thornton). Chrom.: Golub & Nokkala, 2009.

- Peripsocus* spec. Chrom.: Golub & Nokkala, 2009.
- Peripsocus alboguttatus* (Dalman). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b, 2009. Chrom.: Golub & Nokkala, 2009.
- Peripsocus bivari* Baz. Distr.: Schneider, 2010a (species alien to Europe).
- Peripsocus consobrinus* Pearman. Finland (I): Svensson & Hall, 2010.
- Peripsocus didymus* Roesler. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b. Romania (I): Sziraki, 2006a.
- Peripsocus golubae* Lienhard, 2006. Russia (I): Golub & Nokkala, 2009 (testis structure). Chrom.: Golub & Nokkala, 2009.
- Peripsocus milleri* (Tillyard). Great Britain (I): Saville, 2010b. Distr.: Schneider, 2010a (species alien to Europe).
- Peripsocus parvulus* Kolbe. Denmark, Finland, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien in parts of Europe).
- Peripsocus phaeopterus* (Stephens). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.
- Peripsocus quercicola* Enderlein. Chrom.: Golub & Nokkala, 2009.
- Peripsocus subfasciatus* (Rambur). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.

### Trichopsocidae

- Trichopsocus brincki* Badonnel. Chrom.: Golub & Nokkala, 2009.
- Trichopsocus clarus* (Banks). Denmark, Finland, Sweden (I): Svensson & Hall, 2010. Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien in parts of Europe).
- Trichopsocus dalii* (McLachlan). Denmark, Sweden (I): Svensson & Hall, 2010. Russia (I): Golub & Nokkala, 2009 (testis structure). Chrom.: Golub & Nokkala, 2009. Distr.: Schneider, 2010a (species alien in parts of Europe).

### Archipsocidae

- Archipsocus* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008. Chrom.: Golub & Nokkala, 2009.

### Pseudocaeciliidae

- Phallocaecilius hirsutus* (Thornton). Chrom.: Golub & Nokkala, 2009.
- Pseudocaecilius maculosus* Enderlein. Chrom.: Golub & Nokkala, 2009.

### Philotarsidae

- Aaroniella* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.
- Aaroniella achrysa* (Banks). Hispaniola (IV): Perez-Gelabert, 2008.
- Aaroniella badonneli* (Danks). Chrom.: Golub & Nokkala, 2009.
- Garcialdretia dardana* (Banks). Hispaniola (IV): Perez-Gelabert, 2008.
- Haplophallus orientalis* Thornton. Chrom.: Golub & Nokkala, 2009.
- Philotarsus parviceps* Roesler. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b, 2009. Romania (I): Sziraki, 2006a.
- Philotarsus picicornis* (Fabricius). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.

### Elipsocidae

- Cuneopalpus cyanops* (Rostock). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b.
- Elipsocus abdominalis* Reuter. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Chrom.: Golub & Nokkala, 2009.
- Elipsocus annulatus* Roesler. Romania (I): Sziraki, 2006a.
- Elipsocus hyalinus* (Stephens). Denmark, Finland, Iceland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b.
- Elipsocus modestus* Banks. Hispaniola (IV): Perez-Gelabert, 2008.
- Elipsocus moebiusi* Tetens. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Finland, Russia (I): Golub & Nokkala, 2009. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2009. Chrom.: Golub & Nokkala, 2009.

- Elipsocus pumilis* (Hagen). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Chrom.: Golub & Nokkala, 2009.
- Elipsocus nuptialis* Roesler. Germany (I): Dorow & Blick, 2010b.
- Hemineura dispar* Tetens. Denmark, Finland, Sweden (I): Svensson & Hall, 2010. Finland (I): Golub & Nokkala, 2009 (testis structure). Chrom.: Golub & Nokkala, 2009.
- Protopsocus pulchripennis* (Perkins). Great Britain (I): Saville, 2010b. Distr.: Schneider, 2010a (species alien to Europe).
- Pseudopsocus fusciceps* (Reuter). Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010a, 2010b.
- Pseudopsocus rostocki* Kolbe. Denmark, Sweden (I): Svensson & Hall, 2010. Great Britain (I): Saville, 2010b.
- Reuterella helvimacula* (Enderlein). Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Great Britain (I): Saville, 2010b. Chrom.: Golub & Nokkala, 2009.

### Mesopsocidae

- Mesopsocus atlasicus* Badonnel. Morocco (I): Arahou, 2008.
- Mesopsocus fuscifrons* Meinander. Sweden (I): Svensson & Hall, 2010.
- Mesopsocus helveticus* Lienhard. Finland, Norway, Sweden (I): Svensson & Hall, 2010.
- Mesopsocus hongkongensis* Thornton. Chrom.: Golub & Nokkala, 2009.
- Mesopsocus immunis* (Stephens). Denmark, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b.
- Mesopsocus laticeps* (Kolbe). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Hungary (I): Sziraki, 2009. Chrom.: Golub & Nokkala, 2009.
- Mesopsocus unipunctatus* (Müller). Denmark, Finland, Iceland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.

### Hemipsocidae

- Hemipsocus* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008. Chrom.: Golub & Nokkala, 2009.

### Psocidae

#### Amphigerontiinae

- Checklist of Amphigerontiinae species from Sumatra: Endang Sri Kentjonowati & New, 2010c: 27.
- Key to genera and species of Japanese Amphigerontiinae: Yoshizawa, 2010c: 13.
- Tribes Amphigerontiini and Blastini not supported by genitalic characters: Yoshizawa, 2010c: 31.
- Amphigerontia* spec. Morocco (I): Arahou, 2008.
- Amphigerontia bifasciata* (Latreille). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Romania (I): Sziraki, 2006a. Chrom.: Golub & Nokkala, 2009.
- Amphigerontia contaminata* (Stephens). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Finland (I): Golub & Nokkala, 2009 (testis structure). Germany (I): Dorow & Blick, 2010b. Romania (I): Sziraki, 2006a. Japan (VIII): Yoshizawa, 2010c. Chrom.: Golub & Nokkala, 2009.
- Amphigerontia intermedia* (Tetens). Finland, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b.
- Amphigerontia jezoensis* Okamoto. Japan (VIII): Yoshizawa, 2010c. Chrom.: Golub & Nokkala, 2009.
- Anomaloblaste* Endang Sri Kentjonowati, Thornton & New, 2002. Revised diagnosis: Endang Sri Kentjonowati & New, 2010c: 12.
- Metagerontia* Li Fasheng, 2002a. **Synonymy**: Yoshizawa, 2010c: 17.
- Anomaloblaste spinivalva* Endang Sri Kentjonowati, Thornton & New, 2002. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010c.
- Anomaloblaste sudaryantoi*\* Endang Sri Kentjonowati & New, 2010c: 13. Indonesia (VIII).
- Anomaloblaste treubia* Endang Sri Kentjonowati, Thornton & New, 2002. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010c.
- Anomaloblaste tribulosa* (Li Fasheng, 2002). Yoshizawa, 2010c: 18 (**from** *Metagerontia*; further description). China, Japan (VIII).
- Blaste* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.
- Blaste conspurcata* (Rambur). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Hungary (I): Sziraki, 2006b. Chrom.: Golub & Nokkala, 2009.

- Blaste jambiensis*\* Endang Sri Kentjonowati & New, 2010c: 22 (species name misspelled *jambiense*). Indonesia (VIII).
- Blaste quadrimaculata* (Latreille). Great Britain (I): Saville, 2010b. Hungary (I): Sziraki, 2006b, 2009.
- Blastopsocus* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.
- Glossoblaste*\*\* Yoshizawa, 2010c: 15. Gender: F. Type species: *Glossoblaste amamiensis* Yoshizawa.
- Glossoblaste amamiensis*\* Yoshizawa, 2010c: 16. Japan (VIII).
- Indoblaste lienhardi* Endang Sri Kentjonowati & Thornton. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010c.
- Javablaste* Endang Sri Kentjonowati, Thornton & New, 2002. Generic diagnosis, key to Indonesian species: Endang Sri Kentjonowati & New, 2010c: 14.
- Javablaste darmayasai*\* Endang Sri Kentjonowati & New, 2010c: 20. Indonesia (VIII).
- Javablaste junithai*\* Endang Sri Kentjonowati & New, 2010c: 15. Indonesia (VIII).
- Javablaste ramonai*\* Endang Sri Kentjonowati & New, 2010c: 17. Indonesia (VIII).
- Kaindipsocus splendidus* Lienhard, 2008. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010c.
- Neoblaste* Thornton. Key to Indonesian species of *Neoblaste*: Endang Sri Kentjonowati & New, 2010c: 2.
- Neoblaste cochleata*\* Endang Sri Kentjonowati & New, 2010c: 4. Indonesia (VIII).
- Neoblaste complexa* Endang Sri Kentjonowati, Thornton & New, 2002. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010c.
- Neoblaste cubitalis* (Enderlein). Indonesia (VIII): Endang Sri Kentjonowati & New, 2010c.
- Neoblaste javensis* Endang Sri Kentjonowati, Thornton & New, 2002. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010c.
- Neoblaste ketambiensis*\* Endang Sri Kentjonowati & New, 2010c: 8 (species name misspelled *ketambiense*). Indonesia (VIII).
- Neoblaste papillosa* Thornton. Japan (VIII): Yoshizawa, 2010c (species name misspelled: *papillosus*).  
*Psocus obtusus* Hagen. Okamoto, 1906: 198; Okamoto, 1907: 129.  
 [Not *Psocus obtusus* Hagen, 1858].  
*Blaste obtusa* (Hagen). Tomita & Haga, 1991.  
*Neoblaste cubitalis* (Enderlein). Yoshizawa, 2008: 33.  
 [Not *Neoblaste cubitalis* (Enderlein, 1919)].
- Neoblaste piscata*\* Endang Sri Kentjonowati & New, 2010c: 8. Indonesia (VIII).
- Neoblaste tateokana* (Okamoto). Japan (VIII): Yoshizawa, 2010c.
- Neoblaste torquata*\* Endang Sri Kentjonowati & New, 2010c: 5. Indonesia (VIII).
- Neopsocopsis* Badonnel, 1936.  
*Pentablaste* Li Fasheng, 2002a. **Synonymy**: Yoshizawa, 2010c: 24.
- Neopsocopsis auctachila* (Li Fasheng, 2002a). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis clavata* (Li Fasheng, 2002a). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis flavae* (Li Fasheng). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis flavida* (Li Fasheng). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis hirticornis* (Reuter). Finland, Sweden (I): Svensson & Hall, 2010. Russia (VIII): Golub & Nokkala, 2009 (testis structure). Chrom.: Golub & Nokkala, 2009.
- Neopsocopsis jinxiuica* (Li Fasheng, 2002a). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis lanceolata* (Li Fasheng, 2002a). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis longicaudata* (Li Fasheng, 2002a). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis longiptera* Vishnyakova. Japan (VIII): Yoshizawa, 2010c.
- Neopsocopsis lushmanensis* (Li Fasheng, 2002a). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis minuscula* (Li Fasheng, 2002a). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis obconica* (Li Fasheng, 2002a). Yoshizawa, 2010c: 25 and 35 (**from** *Pentablaste*).
- Neopsocopsis pentasticha* (Li Fasheng, 2002a). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis pini* (Li Fasheng). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis profunda* (Li Fasheng). Yoshizawa, 2010c: 35 (**from** *Pentablaste*).
- Neopsocopsis quinquedentata* (Li Fasheng & Yang Chikun). Yoshizawa, 2010c: 36 (**from** *Pentablaste*).
- Neopsocopsis sakishimensis*\* Yoshizawa, 2010c: 25. Japan (VIII).
- Neopsocopsis schizopetala* (Li Fasheng). Yoshizawa, 2010c: 36 (**from** *Pentablaste*).
- Neopsocopsis tetraedrica* (Li Fasheng, 2002a). Yoshizawa, 2010c: 36 (**from** *Pentablaste*).

#### Psocinae

- Atlantopsocus adustus* (Hagen). Chrom.: Golub & Nokkala, 2009.
- Atrichadenotecnum nebulosum* (Vaughan, Thornton & New). Indonesia (VIII): Endang Sri Kentjonowati & New, 2010b.

*Atrichadenotecnum nudum* (Thornton). Chrom.: Golub & Nokkala, 2009.

*Atrichadenotecnum umbratum* (New & Thornton). Indonesia (VIII): Endang Sri Kentjonowati & New, 2010b.

*Brachinodiscus* cf. *lepidus* (Banks). Chrom.: Golub & Nokkala, 2009.

*Cerastipsocus fuscipennis* (Burmeister). Chrom.: Golub & Nokkala, 2009.

*Cerastipsocus venosus* (Burmeister). Chrom.: Golub & Nokkala, 2009.

*Clematoscenea lemniscata* (Enderlein). Indonesia (VIII): Endang Sri Kentjonowati & New, 2010a.

*Clematoscenea smithersi*\* Endang Sri Kentjonowati & New, 2010a: 44. Indonesia (VIII).

*Clematostigma sasmoko* Endang Sri Kentjonowati, Thornton & New, 2002. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010b.

*Hyalopsocus contrarius* (Reuter). Finland, Sweden (I): Svensson & Hall, 2010. Chrom.: Golub & Nokkala, 2009.

*Hyalopsocus morio* (Latreille). Great Britain (I): Saville, 2010b; Scott-Langley, 2010. Sweden (I): Svensson & Hall, 2010.

*Indiopsocus* spec. Hispaniola (IV) in Dominican amber (A): Perez-Gelabert, 2008.

*Javapsocus* spec. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010b (unassigned females).

*Javapsocus soegiri* Endang Sri Kentjonowati, Thornton & New, 2002. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010b.

*Javapsocus ungulatus* Endang Sri Kentjonowati, Thornton & New, 2002. Indonesia (VIII): Endang Sri Kentjonowati & New, 2010b.

*Loensia fasciata* (Fabricius). Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Germany (I): Dorow & Blick, 2010b.

*Loensia moesta* (Hagen). Chrom.: Golub & Nokkala, 2009.

*Loensia pearmani* Kimmins. Denmark, Finland, Norway, Sweden (I): Svensson & Hall, 2010. Chrom.: Golub & Nokkala, 2009.

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#### 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 9 of the "Additions" (Psocid News, no. 4-12).

#### Remarks:

Each issue of "Psocid News" is separately quoted under Yoshizawa (ed.). Selected references to some particularly interesting contributions out of these newsletters can also be found under the authors' names.

Usually cross-references for all authors are made, as in the 2002-bibliography, except for papers with more than four authors which are usually only cited as "first author *et al.*" In cases of more than one editor, cross-references are usually only made for the first editor.

For a **subject bibliography** including these additions, see: <http://www.ville-ge.ch/mhng/psocoptera/page/ps-bibli.htm>

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## 5. Corrections to Lienhard & Smithers, 2002

Page 439: *Mecampsis insolita* (Banks) (author's name in parentheses).

## 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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