

ZooKeys 441: 259–275 (2014)

doi: 10.3897/zookeys.441.7143

www.zookeys.org

CHECKLIST



Checklist of the Diptera superfamilies Tephritoidea and Sciomyzoidea of Finland (Insecta)

Jere Kahanpää¹, Kaj Winqvist²¹ *Finnish Museum of Natural History, Zoology Unit, P.O. Box 17, FI-00014 University of Helsinki, Finland*² *Mikonkatu 3 C 52, FI-20100 Turku, Finland*Corresponding author: *Jere Kahanpää* (jere.kahanpaa@helsinki.fi)Academic editor: *J. Salmela* | Received 30 January 2014 | Accepted 6 March 2014 | Published 19 September 2014<http://zoobank.org/B57CCE29-4FD9-4A21-9EF9-475892A9E17B>

Citation: Kahanpää J, Winqvist K (2014) Checklist of the Diptera superfamilies Tephritoidea and Sciomyzoidea of Finland (Insecta). In: Kahanpää J, Salmela J (Eds) Checklist of the Diptera of Finland. ZooKeys 441: 259–275. doi: 10.3897/zookeys.441.7143

Abstract

A revised checklist of the flies of superfamilies Tephritoidea and Sciomyzoidea of Finland is provided. The following families are covered: Eurygnathomyiidae, Lonchaeidae, Neottiophilidae, Pallopteridae, Piophilidae, Platystomatidae, Tephritidae, Ulidiidae (Tephritoidea); Coelopidae, Dryomyzidae, Heterocheilidae, Phaeomyiidae, Sciomyzidae, Sepsidae (Sciomyzoidea).

Keywords

Finland, Diptera, checklist, Tephritoidea, Sciomyzoidea

Introduction

With over 7800 known extant species (Pape et al. 2011), Tephritoidea is one of the larger Diptera superfamilies. The nominotypical family of Tephritoidea, the fruit flies (Tephritidae), includes over half of the currently known species in the superfamily. The highest diversity of tephritoids occurs in the tropics. Six of the nine extant tephritoid families have been found in Finland: no richardiid, ctenostylid or pyrgotid have been found in the country. The Tephritidae, Ulidiidae and Platystomatidae (plus Pyrgotidae) form a well-defined, probably monophyletic group. The other tephritoid families are more basal in their phylogenetic position (Korneyev 1999). The exact relationships

Table 1. Number of species in tephritoid and sciomyzoid families.

Family	Number of species in			Level of knowledge
	World (Pape et al. 2011)	Europe (Pape and Beuk 2013)	Finland	
Tephritoidea:				
Eurygnathomyiidae	1	1	1	good
Lonchaeidae	504	96	41–44	average
Neottiophilidae	4	2	2	average
Pallopteridae	70	22	13	good
Piophilidae	78	27	15	average
Platystomatidae	1162	21	2	good
Tephritidae	4712	267	69	average–good
Ulidiidae	675	106	16	good
Sciomyzoidea:				
Coelopidae	35	3	1	average
Dryomyzidae	22	5	5	average
Heterocheilidae	2	1	1	average
Phacomyiidae	3	3	2	good
Sciomyzidae	605	136	73–74	good
Sepsidae	340	48	32	good

between the families are far from settled and some authors exclude Pallopteridae and Eurygnathomyiidae from the superfamily (Wiegmann et al. 2011). Several subfamily schemes have been proposed for Tephritidae. The classification by Korneyev (2000) is adopted here. For Pallopteridae, Piophilidae (with Neottiophilidae) and Ulidiidae we follow McAlpine (1981), Ozerov (2005) and Kameneva and Korneyev (2006) respectively. Norrbom et al. (1999) provide a catalogue of world tephritid names. The Finnish tephritoid flies were last listed by Winqvist and Kahanpää (2007). Hackman (1956) reviewed the Lonchaeidae of Eastern Fennoscandia. This paper is now somewhat outdated, but still valuable.

Sciomyzoidea is a smaller superfamily with some 1150 described species (Pape et al. 2011). It includes two medium-sized families (Sciomyzidae and Sepsidae) and nine smaller families comprising at most 30 species. The millipede parasitoids of family Phaeomyiidae are sometimes classified as a subfamily of Sciomyzidae. The coelopids and heterocheilids, with just one species each in Finland, are closely associated with stranded marine seaweed. The family placement of *Heterocheila* has been rather unstable: during the last 40 years it has been placed in Helcomyzidae, Dryomyzidae and Coelopidae or regarded as having a separate family status. Here we follow the recent world catalogue (Mathis 2011) and keep Heterocheilidae as a separate family. The family name Heterocheilidae is preoccupied by Heterocheilidae Railliet & Henry, 1915 in Nematoda (Mathis 2011). This homonymy has not yet been resolved.

World catalogues have recently been published for Coelopidae (Mathis and McAlpine 2011) Dryomyzidae (Mathis and Sueyoshi 2011), Heterocheilidae (Mathis 2011), Sciomyzidae (Rozkošný 1995) and Sepsidae (Ozerov 2005). The Finnish sciomyzoid flies were last listed by Winqvist and Kahanpää (2007).

Checklist part I: Tephritoidea

suborder Brachycera Macquart, 1834
clade Eremoneura Lameere, 1906
clade Cyclorrhapha Brauer, 1863
infraorder Schizophora Becher, 1882
clade Muscaria Enderlein, 1936
parvorder Acalyptratae Macquart, 1835
superfamily Tephritoidea Newman, 1834

EURYGNATHOMYIIDAE Czerny, 1934

EURYGNATHOMYIA Czerny, 1904

Eurygnathomyia bicolor (Zetterstedt, 1837)

LONCHAEIDAE Rondani, 1856

DASIOPINAE Morge, 1963

Dasiopini Morge, 1963

DASIOPS Rondani, 1856

Dasiops appendiculus Morge, 1959

Dasiops facialis Collin, 1953

Dasiops mucronatus Morge, 1959

= *hennigi* misid.

= *latiterebra* misid.

Dasiops occultus Collin, 1953

= *albiceps* (Frey, 1930) preocc.

Dasiops perpropinquus Morge, 1959

Dasiops spatiosus (Becker, 1895)

Dasiops trichosternalis Morge, 1959

EAROMYIINAE Morge, 1963

CHAETOLONCHAEA Czerny, 1934

Chaetolonchaea pallipennis (Zetterstedt, 1855)

= *dasyops* misid.

EAROMYIA Zetterstedt, 1842

Earomyia lonchaeoides Zetterstedt, 1848

Earomyia schistopyga Collin, 1953

Earomyia viridana (Meigen, 1826)

PROTEAROMYIA McAlpine, 1962

Protearomyia nigra (Meigen, 1826)

LONCHAEINAE Rondani, 1856

Lonchaeini Rondani, 1856

LONCHAEA Fallén, 1820

Lonchaea affinis Malloch, 1920

= *laxa* auct. nec Collin, 1953

- Lonchaea albigena* Collin, 1953
Lonchaea albitarsis Zetterstedt, 1838
? *Lonchaea bruggeri* Morge, 1967
Lonchaea bukowskii Czerny, 1934
Lonchaea caledonica MacGowan & Rotheray, 2000
= *laticornis* auct. nec Meigen, 1826
Lonchaea carpathica Kovalev, 1974
Lonchaea chorea (Fabricius, 1781)
Lonchaea collini Hackman, 1956
? *Lonchaea contigua* Collin, 1953
Lonchaea corusca Czerny, 1934
= *alni* Ringdahl, 1947
= *lauta* Collin, 1953
= *britteni* Collin, 1953
Lonchaea defecta McAlpine, 1964
Lonchaea deutschii Zetterstedt, 1838
= *sarekensis* Frey, 1916
? *Lonchaea difficilis* Hackman, 1956
Lonchaea fraxina MacGowan & Rotheray, 2000
Lonchaea freyi Czerny, 1934
Lonchaea fugax Becker, 1895
= *cariicola* Czerny, 1934
Lonchaea hackmani Kovalev, 1981
= *peregrina* auct. nec Becker, 1895
Lonchaea ipsiphaga McAlpine, 1964
= *maniola* misid.
Lonchaea limatula Collin, 1953
= *flavidipennis* auct. nec Zetterstedt, 1847
Lonchaea nitens (Bigot, 1885)
= *krogerusi* Czerny, 1934
Lonchaea palposa Zetterstedt, 1847
Lonchaea patens Collin, 1953
Lonchaea ragnari Hackman, 1956
Lonchaea scutellaris Rondani, 1874
Lonchaea sororcula Hackman, 1956
Lonchaea stackelbergi Czerny, 1934
Lonchaea subneatosa Kovalenko, 1974
Lonchaea sylvatica Beling, 1873
= *lucidiventris* Becker, 1895
Lonchaea tarsata Fallen, 1820
Lonchaea ultima Collin, 1953
Lonchaea zetterstedti Becker, 1902

NEOTTIOPHILIDAE Hendel, 1916

ACTENOPTERA Czerny, 1904

Actenoptera hilarella (Zetterstedt, 1847)

NEOTTIOPHILUM Frauenfeld, 1868

Neottiophilum praeustum (Meigen, 1826)

PALLOPTERIDAE Loew, 1862

PALLOPTERA Fallén, 1820

Palloptera anderssoni Rotheray & MacGowan, 1999

Palloptera formosa Frey, 1930

Palloptera marginata (Meigen, 1826)

= *costalis* Loew, 1873

Palloptera umbellatarum (Fabricius, 1775)

= *arcuata* auct. nec (Fabricius, 1781)

Palloptera ustulata Fallén, 1820

TEMNOSIRA Enderlein, 1936

Temnosira ambusta (Meigen, 1826)

Temnosira saltuum (Linnaeus, 1758)

TOXONEURA Macquart, 1835

Toxoneura ephippium (Zetterstedt, 1860)

Toxoneura laetabilis (Loew, 1873)

Toxoneura modesta (Meigen, 1830)

= *umbellatarum* auct. nec (Fabricius, 1775)

Toxoneura trimacula (Meigen, 1826)

Toxoneura usta (Meigen, 1826)

Toxoneura venusta (Loew, 1858)

= *atriventris* (Ringdahl, 1947)

PIOPHILIDAE Macquart, 1835

PIOPHILINAE Macquart, 1835

ALLOPIOPHILA Hendel, 1917

= *Arctopiophila* Duda, 1924

= *Boreopiophila* Frey, 1930

= *Parapiophila* McAlpine, 1977

Allopiophila calceata (Duda, 1924)

Allopiophila flavipes (Zetterstedt, 1847)

Allopiophila lonchaeoides (Zetterstedt, 1838)

Allopiophila luteata (Haliday, 1833)

Allopiophila pectiniventris (Duda, 1924)

Allopiophila tomentosa Frey, 1930

Allopiophila vulgaris (Fallén, 1820)

Allopiophila sp. A

AMPHIPOGON Wahlberg, 1845*Amphipogon flavus* (Zetterstedt, 1838)= *spectrum* Wahlberg, 1845**MYCETAULUS** Loew, 1845*Mycetaulus bipunctatus* (Fallén, 1823)**PIOPHILA** Fallén, 1810*Piophila casei* (Linnaeus, 1758)**PROCHYLIZA** Walker, 1849= *Liopiophila* Duda, 1924*Prochyliza nigrimana* (Meigen, 1826)*Prochyliza varipes* (Meigen, 1830)= *lundbecki* misid.**PSEUDOSEPS** Becker, 1902*Pseudoseps signata* (Fallén, 1820)**STEARIBIA** Lioy, 1864*Stearibia nigriceps* (Meigen, 1826)= *foveolata* (Meigen, 1826)= *coerulescens* (Zetterstedt, 1847)**PLATYSTOMATIDAE** Schiner, 1862**PLATYSTOMA** Meigen, 1803*Platystoma seminationis* (Fabricius, 1775)**RIVELLIA** Robineau-Desvoidy, 1830*Rivellia syngenesiae* (Fabricius, 1781)**TEPHRITIDAE** Newman, 1834TRYPETINAE Loew, 1861 *sensu lato*

Adramini Hendel, 1914

EUPHRANTA Loew, 1862**sg. *Euphranta*** Loew, 1862*Euphranta connexa* (Fabricius, 1794)**sg. *Rhacochlaena*** Loew, 1862*Euphranta toxoneura* (Loew, 1846)

Trypetini Loew, 1861

ACIDIA Robineau-Desvoidy, 1830*Acidia cognata* (Wiedemann, 1817)**ANOMOIA** Walker, 1835= *Phagocarpus* Rondani, 1870*Anomoia purmunda* (Harris, 1776)**CHETOSTOMA** Rondani, 1856*Chetostoma stackelbergi* (Rohdendorf, 1955)**CORNUTRYPETA** Han, Wang & Kim, 1993*Cornutrypeta spinifrons* (Schroeder, 1913)

Cornutrypeta superciliata (Frey, 1935)

EULEIA Walker, 1835

= **Cryptaciura** Hendel, 1927

Euleia heraclei (Linnaeus, 1758)

Euleia rotundiventris (Fallén, 1814)

MYOLEJA Rondani, 1856

Myoleja lucida (Fallén, 1826)

PHILOPHYLLA Rondani, 1870

Philophylla caesio (Harris, 1776)

RHAGOLETIS Loew, 1862

Rhagoletis alternata (Fallén, 1814)

Rhagoletis cerasi (Linnaeus, 1758)

Rhagoletis meigenii (Loew, 1844)

TRYPETA Meigen, 1803

Trypeta artemisiae (Fabricius, 1794)

Trypeta immaculata (Macquart, 1835)

= *hamifera* Loew, 1846

Trypeta zoe Meigen, 1826

TEPHRITINAE Newman, 1834

Terellini Hendel, 1927

CHAETORELLIA Hendel, 1927

Chaetorellia jaceae (Robineau-Desvoidy, 1830)

CHAETOSTOMELLA Hendel, 1927

Chaetostomella cylindrica (Robineau-Desvoidy, 1830)

= *onotrophes* (Loew, 1848)

ORELLIA Robineau-Desvoidy, 1830

Orellia falcata (Scopoli, 1763)

TERELLIA Robineau-Desvoidy, 1830

sg. **Cerajocera** Rondani, 1856

Terellia ceratocera (Hendel, 1913)

Terellia plagiata (Dahlbom, 1850)

Terellia tussilaginis (Fabricius, 1775)

sg. **Terellia** Robineau-Desvoidy, 1830

Terellia colon (Meigen, 1826)

Terellia ruficauda (Fabricius, 1794)

Terellia serratulae (Linnaeus, 1758)

Terellia winthemi (Meigen, 1826)

Xyphosiini Hendel, 1927

XYPHOSIA Robineau-Desvoidy, 1830

Xyphosia miliaria (Schrank, 1781)

Noetini Norrbom & Korneyev, 1999

ENSINA Robineau-Desvoidy, 1830

Ensina sonchi (Linnaeus, 1767)

NOETA Robineau-Desvoidy, 1830

= **Oplocheta** Rondani, 1856

Noeta pupillata (Fallén, 1814)

Myopitini Bezzi, 1910

EURASIMONA Korneyev & White, 1991

Eurasimona stigma (Loew, 1840)

UROPHORA Robineau-Desvoidy, 1830

Urophora aprica (Fallén, 1820)

Urophora cardui (Linnaeus, 1758)

Urophora cuspidata (Meigen, 1826)

Urophora jaceana (Hering, 1935)

Urophora solstitialis (Linnaeus, 1758)

= *sonderupi* (Hering, 1940)

Urophora stylata (Fabricius, 1775)

Dithrycini Hendel, 1927

DITHRYCA Rondani, 1856

Dithryca guttularis (Meigen, 1826)

Eutretini Munro, 1952

XANTHOMYIA Phillips, 1923

= **Paracarpotricha** Hendel, 1927

Xanthomyia alpestris (Pokorný, 1887)

= *pseudoradiata* (Becker, 1900)

Tephritini Newman, 1834

CAMPIGLOSSA Rondani, 1870

Campiglossa absinthii (Fabricius, 1805)

= *parvula* (Loew, 1862)

Campiglossa argyrocephala (Loew, 1844)

Campiglossa difficilis (Hendel, 1927)

= *tessellata* misid.

Campiglossa grandinata (Rondani, 1870)

= *borealis* Portschinsky, 1875

Campiglossa guttella (Rondani, 1870)

= *achyrophori* misid.

= *producta* misid.

Campiglossa loewiana (Hendel, 1927)

Campiglossa plantaginis (Haliday, 1833)

Campiglossa punctella (Fallén, 1814)

Campiglossa solidaginis (White, 1986)

Campiglossa sp. A

DIOXYNA Frey, 1945

Dioxyina bidentis (Robineau-Desvoidy, 1830)

= *sororcula* auct. nec (Wiedemann, 1830)

HERINGINA Aczél, 1940

Heringina guttata (Fallén, 1814)

OXYNA Robineau-Desvoidy, 1830

Oxyna flavipennis (Loew, 1844)

Oxyna nebulosa (Wiedemann, 1817)

Oxyna parietina (Linnaeus, 1758)

SPHENELLA Robineau-Desvoidy, 1830

Sphenella marginata (Fallén, 1814)

TEPHRITIS Latreille, 1804

Tephritis angustipennis (Loew, 1844)

Tephritis bardanae (Schrank, 1803)

Tephritis cometa (Loew, 1840)

Tephritis conura (Loew, 1844)

Tephritis dilacerata (Loew, 1846)

Tephritis fallax (Loew, 1844)

Tephritis hyoscyami (Linnaeus, 1758)

Tephritis leontodontis (De Geer, 1776)

Tephritis mutabilis Merz, 1992

Tephritis neesii (Meigen, 1830)

= *neesii* misspelling

Tephritis ruralis (Loew, 1844)

Tephritis sp. cf. *rydeni* Hering, 1956

= *dioscurea* misid.

TRUPANEA Schrank, 1795

Trupanea stellata (Fuessly, 1775)

Unplaced in Tephritinae (*incertae sedis*)

ACINIA Robineau-Desvoidy, 1830

Acinia corniculata (Zetterstedt, 1819)

ULIDIIDAE Macquart, 1835

OTITINAE Aldrich, 1932

Myennidini Kameneva & Korneyev, 2006

PSEUDOTEPHRITIS Johnson, 1802

Pseudotephritis trypetoptera (Hennig, 1939)

= *corticalis* auct. nec (Loew, 1873)

Otitini Aldrich, 1932

CEROXYS Macquart, 1835

Ceroxys urticae (Linnaeus, 1758)

HERINA Robineau-Desvoidy, 1830

Herina frondescentiae (Linnaeus, 1758)

Herina paludum (Fallén, 1820)

Herina palustris (Meigen, 1826)

MELIERIA Robineau-Desvoidy, 1830

sg. **Melieria** Robineau-Desvoidy, 1830

Melieria crassipennis (Fabricius, 1794)

Melieria omisa (Meigen, 1826)

= *obscuripes* auct. nec (Loew, 1873)

TETANOPS Fallén, 1820

sg. Eurycephalomyia Hendel, 1907

Tetanops sintenisi Becker, 1909

sg. Tetanops Fallén, 1820

Tetanops myopinus Fallén, 1820

ULIDIINAE Macquart, 1835

Seiopterini Kameneva & Korneyev, 1994

HOMALOCEPHALA Zetterstedt, 1838

Homalocephala albitarsis Zetterstedt, 1838

= *bipunctata* (Loew, 1854)

Homalocephala angustata (Wahlberg, 1839)

Homalocephala apicalis (Wahlberg, 1839)

= *biseta* Frey, 1908

Homalocephala bimaculata (Wahlberg, 1839)

Homalocephala biumbrata (Wahlberg, 1838)

= *albitarsis* auct. nec Zetterstedt, 1838

SEIOPTERA Kirby, 1817

Seioptera vibrans (Linnaeus, 1758)

Ulidiini Macquart, 1835

PHYSIPHORA Fallén, 1810

Physiphora alceae (Preyssler, 1791)

= *demandata* (Fabricius, 1798)

Checklist part 2: Sciomyzoidea

suborder Brachycera Macquart, 1834

clade Eremoneura Lameere, 1906

clade Cyclorrhapha Brauer, 1863

infraorder Schizophora Becher, 1882

clade Muscaria Enderlein, 1936

parvorder Acalyptratae Macquart, 1835

superfamily Sciomyzoidea Fallén, 1820

COELOPIDAE Hendel, 1910

COELOPA Meigen, 1830

sg. Fucomyia Haliday, 1838

Coelopa frigida (Fabricius, 1805)

DRYOMYZIDAE Schiner, 1862

DRYOMYZA Fallén, 1820

= **Neuroctena** Rondani, 1868

Dryomyza anilis Fallén, 1820

DRYOPE Robineau-Desvoidy, 1830

Dryope decrepita (Zetterstedt, 1838)

Dryope flaveola (Fabricius, 1794)

PARADRYOMYZA Ozerov, 1987

Paradryomyza spinigera Ozerov, 1987

PSEUDONEUROCTENA Ozerov, 1987

Pseudoneuroctena senilis (Zetterstedt, 1838)

HETEROCHEILIDAE McAlpine, 1991

HETEROCHEILA Rondani, 1857

Heterocheila buccata (Fallén, 1820)

PHAEOMYIIDAE Verbeke, 1950

PELIDNOPTERA Rondani, 1856

Pelidnoptera fuscipennis (Meigen, 1830)

= *fumipennis* (Zetterstedt, 1846)

Pelidnoptera nigripennis (Fabricius, 1794)

SCIOMYZIDAE Fallén, 1820

SCIOMYZINAE Fallén, 1820

Sciomyzini Fallén, 1820

COLOBAEA Zetterstedt, 1837

Colobaea bifasciella (Fallén, 1820)

Colobaea distincta (Meigen, 1830)

Colobaea nigroaristata Rozkošný, 1984

Colobaea pectoralis (Zetterstedt, 1847)

Colobaea punctata (Lundbeck, 1923)

DITAENIELLA Sack, 1939

Ditaeniella grisescens (Meigen, 1830)

HERBELLIA Robineau-Desvoidy, 1830

Pherbellia albocostata (Fallén, 1820)

Pherbellia alpina (Frey, 1930)

Pherbellia argyra Verbeke, 1967

Pherbellia brunripes (Meigen, 1838)

Pherbellia cinerella (Fallén, 1820)

Pherbellia dubia (Fallén, 1820)

Pherbellia goberti (Pandellé, 1902)

= *stylifera* Rozkošný, 1982

Pherbellia griseicollis (Becker, 1900)

= *lapponica* (Ringdahl, 1948)

Pherbellia griseola (Fallén, 1820)

Pherbellia hackmani Rozkošný, 1982

Pherbellia nana (Fallén, 1820)

Pherbellia obscura (Ringdahl, 1948)

Pherbellia obtusa (Fallén, 1820)

Pherbellia pallidiventris (Fallén, 1820)

Pherbellia rozkosnyi Verbeke, 1967

= *scutellaris* misid.

Pherbellia schoenherri (Fallén, 1826)

Pherbellia sordida (Hendel, 1902)

Pherbellia stackelbergi Elberg, 1965

Pherbellia ventralis (Fallén, 1820)

PTEROMICRA Lioy, 1864

Pteromicra angustipennis (Staeger, 1845)

Pteromicra glabricula (Fallén, 1820)

Pteromicra leucopeza (Meigen, 1838)

Pteromicra oldenbergi (Hendel, 1902)

Pteromicra pectorosa (Hendel, 1902)

SCIOMYZA Fallén, 1820

Sciomyza dryomyzina Zetterstedt, 1846

Sciomyza sebezihica Przhiboro, 2001

Sciomyza simplex Fallén, 1820

TETANURA Fallén, 1820

Tetanura pallidiventris Fallén, 1820

Tetanocerini Newman, 1834

ANTICHETA Haliday, 1839

Anticheta analis (Meigen, 1830)

Anticheta atriseta (Loew, 1849)

Anticheta brevipennis (Zetterstedt, 1846)

Anticheta nigra Karl, 1921

= *nigroaenea* Frey, 1935

COREMACERA Rondani, 1856

Coremacera marginata (Fabricius, 1775)

= *tristis* (Harris, 1780) preocc.

DICHETOPHORA Rondani, 1868

Dichetophora finlandica Verbeke, 1964

DICTYA Meigen, 1803

Dictya umbrarum (Linnaeus, 1758)

ECTINOCERA Zetterstedt, 1838

Ectinocera borealis Zetterstedt, 1838

ELGIVA Meigen, 1838

Elgiva cucularia (Linnaeus, 1767)

Elgiva divisa (Loew, 1845)

- Elgiva sollicita* (Harris, 1780)
 = *sundewalli* Kloet & Hincks, 1945
- EUTHYCERA** Latreille, 1829
Euthycera chaerophylli (Fabricius, 1798)
Euthycera fumigata (Scopoli, 1763)
- HYDROMYA** Robineau-Desvoidy, 1830
Hydromya dorsalis (Fabricius, 1775)
- ILIONE** Haliday in Curtis, 1837
 = *Tumidicerus* Knutson & Berg, 1967
- sg. Ilione** Haliday in Curtis, 1837
Ilione lineata (Fallén, 1820)
- sg. Knutsonia** Verbeke, 1964
Ilione albisetata (Scopoli, 1763)
- LIMNIA** Robineau-Desvoidy, 1830
Limnia paludicola Elberg, 1965
Limnia unguicornis (Scopoli, 1763)
- PHERBINA** Robineau-Desvoidy, 1830
Pherbina coryleti (Scopoli, 1763)
- PSACADINA** Enderlein, 1939
Psacadina zernyi (Mayer, 1953)
 = *punctata* misid.
- RENOCERA** Hendel, 1900
Renocera pallida (Fallén, 1820)
Renocera striata (Meigen, 1830)
Renocera stroblii Hendel, 1900
 = *fuscinervis* auct. nec (Zetterstedt, 1838)
- SEPEDON** Latreille, 1804
sg. Sepedon Latreille, 1804
Sepedon spehegea (Fabricius, 1775)
Sepedon spinipes (Scopoli, 1763)
- TETANOCERA** Duméril, 1800
sg. Chaetotetanocera Mayer, 1953
Tetanocera robusta Loew, 1847
- sg. Tetanocera** Duméril, 1800
 ? *Tetanocera amurensis* Hendel, 1909
Tetanocera arrogans Meigen, 1830
Tetanocera elata (Fabricius, 1781)
Tetanocera ferruginea Fallén, 1820
 = *brunnipennis* Frey, 1924
Tetanocera freyi Stackelberg, 1963
Tetanocera fuscinervis (Zetterstedt, 1838)
 = *unicolor* Loew, 1847
Tetanocera hyalipennis von Roser, 1840

Tetanocera kerteszi Hendel, 1901

= *griseicollis* Frey, 1924

= *ornatifrons* Frey, 1924

Tetanocera lapponica Frey, 1924

Tetanocera latifibula Frey, 1924

Tetanocera montana Day, 1881

= *borealis* Frey, 1924

Tetanocera phyllophora Melander, 1920

= *nigricosta* misid.

Tetanocera silvatica Meigen, 1830

TRYPETOPTERA Hendel, 1900

Trypetoptera punctulata (Scopoli, 1763)

SEPSIDAE Walker, 1833

ORYGMATINAE Frey, 1921

ORTALISCHEMA Frey, 1925

Ortalischema albitarse (Zetterstedt, 1847)

SEPSINAE Walker, 1833

THEMIRA Robineau-Desvoidy, 1830

Themira annulipes (Meigen, 1826)

Themira arctica (Becker, 1915)

Themira biloba Andersson, 1975

Themira germanica Duda, 1926

Themira gracilis (Zetterstedt, 1847)

Themira leachi (Meigen, 1826)

Themira lucida (Staeger, 1844)

Themira malformans Melander & Spuler, 1917

Themira minor (Haliday, 1833)

Themira nigricornis (Meigen, 1826)

Themira paludosa Elberg, 1963

Themira pusilla (Zetterstedt, 1847)

Themira putris (Linnaeus, 1758)

Themira superba (Haliday, 1833)

SALTELLA Robineau-Desvoidy, 1830

Saltella sphondylii (Schrank, 1803)

NEMOPODA Robineau-Desvoidy, 1830

Nemopoda nitidula (Fallén, 1820)

= *cylindrica* (Fabricius, 1794) preocc.

Nemopoda pectinulata Loew, 1873

Nemopoda speiseri (Duda, 1926)

MEROPLIUS Rondani, 1874

Meroplus fukuharai (Iwasa, 1984)

Meroplus minutus (Wiedemann, 1830)

= *stercorarius* (Robineau-Desvoidy, 1830)

SEPSIS Fallén, 1810

Sepsis biflexuosa Strobl, 1893

Sepsis cynipsea (Linnaeus, 1758)

Sepsis duplicata Haliday, 1838

= *pilipes* van der Wulp, 1871

Sepsis flavimana Meigen, 1826

= *borealis* Frey, 1825

Sepsis fulgens Meigen, 1826

= *communis* Frey, 1925

Sepsis luteipes Melander & Spuler, 1917

= *lamellifera* Frey, 1925

Sepsis nigripes Meigen, 1826

Sepsis orthocnemis Frey, 1908

Sepsis punctum (Fabricius, 1794)

= *luteipes* misid.

Sepsis thoracica (Robineau-Desvoidy, 1830)

Sepsis violacea Meigen, 1826

Excluded species

Allopiophila dudai (Frey, 1930) not found within present borders

Bactrocera sp. imported with fruit

Campiglossa irrorata (Fallén, 1814) not found within present borders

Ceratitidis capitata (Wiedemann, 1824) imported with fruit

Earomyia crystallophila (Becker, 1895) not found within present borders

= *nigroviolacea* (Frey in Lundström & Frey, 1913)

Lonchaea hirticeps Zetterstedt, 1838 misidentified

Orygma luctuosum Meigen, 1830 not found within present borders

Pherbellia dorsata (Zetterstedt, 1846) misidentified

Tephritis nigricauda (Loew, 1856) misidentified

Notes

***Allopiophila dudai* (Frey, 1930).** This species was described by Frey (1930) from the Kola peninsula (Murmansk Oblast, Russia). Frey et al. (1941) and Hackman (1980) listed it from Finland, but to our knowledge it has never been reliably recorded from this country.

***Allopiophila* sp. A.** An apparently undescribed arctic species near *A. vulgaris*.

***Campiglossa* sp. A** is a distinct, possibly undescribed species of *Campiglossa*. It is common on *Saussurea alpina* in Northern Finland (Juhani Itämies, priv. comm.).

***Lonchaea bruggeri* Morge, 1967, *L. contigua* Collin, 1953 and *L. difficilis* Hackman, 1956.** No males have been confirmed from the country. See Winqvist and Kahanpää (2007) for more details.

***Lonchaea bukowskii* Czerny, 1934.** No males have been confirmed from the country. ***Tephritis* sp. cf. *rydeni* Hering, 1956.** Finnish material formerly assigned to *T. dioscurea* (Loew, 1856) belongs to a currently unrecognised species that may be *T. rydeni* Hering (Söderman et al. 2007, Winqvist and Kahanpää 2007).

***Tetanocera amurensis* Hendel, 1909.** Recorded from Finland in Fauna Europaea (Rozkošný and Knutson 2011) and known from Estonia and Northwestern European Russia (Elberg 1988). We have been unable to find any Finnish material or primary published records.

References

- Elberg K (1988) The extension of the distribution area of *Tetanocera amurensis* Hendel, 1909 (Diptera: Sciomyzidae) as far as the Baltic Sea. Yearbook of the Estonian Naturalists' Society 72: 116–121.
- Frey R (1930) Neue Diptera Brachycera aus Finnland und angrenzenden Ländern. Notulae entomologicae 10(3–4): 82–94.
- Frey R, Tiensuu L, Storå R (1941) Enumeratio insectorum Fenniae. VI. Diptera. Helsingin hyönteisvaihtoyhdistys r.y., Helsinki, 63 pp.
- Hackman W (1956) The Lonchaeidae (Dipt.) of Eastern Fennoscandia. Notulae entomologicae 36: 89–115.
- Hackman W (1980) A check list of the Finnish Diptera. Notulae entomologicae 60: 17–48, 117–162.
- Kameneva EP, Korneyev V (2006) Myennidini, a new of the subfamily Otitinae (Diptera: Ulidiidae), with discussion of the suprageneric classification of the family. Israel Journal of Entomology 35–36: 497–586.
- Korneyev VA (1999) Phylogenetic Relationships among the Families of the Superfamily Tephritoidea. In: Ajuja M, Norrbom L (Eds) Fruit flies (Tephritidae): phylogeny and evolution of behaviour. CRC Press, Boca Raton, London, New York, Washington D.C., 3–22. doi: 10.1201/9781420074468.sec1
- Korneyev VA (2000) Phylogenetic relationships among higher groups of Tephritidae. In: Ajuja M, Norrbom L (Eds) Fruit flies (Tephritidae): phylogeny and evolution of behaviour. CRC Press, Boca Raton, London, New York, Washington D.C., 73–114.
- Mathis WN, McAlpine DK (2011) A catalog and conspectus on the family Coelopidae (Diptera: Schizophora). In: Brake I, Thompson FC (Eds) Contributions to the Systema Diptero- rum (Insecta: Diptera). Myia vol. 12. Pensoft Publishers & North America Dipterists Society, Sofia, Moscow & Washington D.C., 171–205. <http://hdl.handle.net/10088/18924>
- Mathis WN (2011) World catalog and conspectus on the family Heterocheilidae (Diptera: Schizophora). In: Brake I, Thompson FC (Eds) Contributions to the Systema Diptero- rum

- (Insecta: Diptera). Myia vol. 12. Pensoft Publishers & North America Dipterists Society, Sofia, Moscow & Washington D.C., 281–289. <http://hdl.handle.net/10088/18928>
- Mathis WN, Sueyoshi M (2011) World catalog and conspectus on the family Dryomyzidae (Diptera: Schizophora). In: Brake I, Thompson FC (Eds) Contributions to the Systema Dipterorum (Insecta: Diptera). Myia vol. 12. Pensoft Publishers & North America Dipterists Society, Sofia, Moscow & Washington D.C., 207–233. <http://hdl.handle.net/10088/18926>
- McAlpine JF (1981) *Morgea freidbergi* new sp., a living sister species of the fossil species *M. mcalpinei* and a key to World genera of Pallopteridae (Diptera). Canadian Entomologist 113: 81–91. doi: 10.4039/Ent11381-2
- Norrbom AL, Carroll LE, Thompson FC, White IM, Freidberg A (1999) Systematic database of names. In: Thompson FC (Ed) Fruit fly expert identification system and systematic information database. Myia 9: 65–300. http://repository.si.edu/bitstream/10088/17654/1/ent_FCT_80.pdf
- Ozerov AL (2005) World catalogue of the family Sepsidae (Insecta: Diptera). Zoologicheskie issledovania 8: 1–74.
- Pape T, Beuk P (2013) Fauna Europaea: Diptera, version 2.6. <http://www.faunaeur.org/>
- Pape T, Blagoderov V, Mostovski MB (2011) Order Diptera Linnaeus, 1758. In: Zhang Z-Q (Ed) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. Zootaxa 3148: 222–229. <http://www.mapress.com/zootaxa/2011/zt03148p229.pdf>
- Polevoi A (2001) List of Diptera, collected within Koitajoki area during the study period (1993–1996). In: Hokkanen TJ (Ed) Diversity studies in Koitajoki area (North Karelian Biosphere Reserve, Ilomantsi, Finland). Metsähallituksen luonnonsuojelujulkaisu A 131: 191–202. <http://julkaisut.metsa.fi/julkaisut/show/34>
- Rozkošný R (1995) World distribution of Sciomyzidae based on the list of species (Diptera). Studia Dipterologica 2(2): 221–238.
- Rozkošný R, Knutson L (2011) Fauna Europaea: Sciomyzidae. In: Pape T, Beuk P (Eds) Fauna Europaea: Diptera, version 2.4. <http://www.faunaeur.org/>
- Söderman G, Winqvist K, Albrecht A, Kahanpää J (2007) Suomen hedelmäkärpästen (Diptera: Tephritidae) biologia, levinneisyys ja uhanalaisuus. Sahlbergia 12(1): 1–19.
- Wiegmann BM, Trautwein MD, Winkler IS, Barr NB, Kim J-W, Lambkin C, Bertone MA, Cassel BK, Bayless KM, Heimberg AM, Wheeler BM, Peterson KJ, Pape T, Sinclair BJ, Skevington JH, Blagoderov V, Caravas J, Kutty SN, Schmidt-Ott U, Kampmeier GE, Thompson FC, Grimaldi DA, Beckenbach AT, Courtney GW, Friedrich M, Meier R, Yeates DK (2011) Episodic radiations in the fly tree of life. Proceedings of the National Academy of Sciences of the United States of America 108(14): 5690–5695. doi: 10.1073/pnas.1012675108
- Winqvist K, Kahanpää J (2007) Checklist of Finnish flies: superfamilies Tephritoidea and Sciomyzoidea (Diptera: Brachycera). Sahlbergia 12(1): 20–32.