

Checklist of the smaller families of Opomyzoidea, Anthomyzidae, Asteiidae, Aulacigastridae, Clusiidae, Odiniidae, Opomyzidae and Periscelididae (Diptera) of Finland

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Abstract

A species checklist is presented for Finland covering seven smaller families of Opomyzoidea: Anthomyzidae, Asteiidae, Aulacigastridae, Clusiidae, Odiniidae, Opomyzidae and Periscelididae (Diptera).

Keywords

Checklist, Finland, Diptera, biodiversity, faunistics

Introduction

The superfamily Opomyzoidea is likely to be para- or polyphyletic (see Wiegmann et al. 2011). It has long been used as a dumping grounds for acalyptrate taxa that do not fit well elsewhere. As such, the superfamily is poorly defined and hardly any two authors agree on its definition. Opomyzoidea includes one large family (Agromyzidae, the leaf-mining flies, with over 3000 described species) and more than a dozen small families. The exact number of recognized families varies. The Agromyzidae are treated

Table 1. Number of species by family.

Family	Number of species in			Level of knowledge
	World (Pape et al. 2011)	Europe	Finland	
Anthomyzidae	93	28	15	average
Asteiidae	136	18	6	average
Aulacigastridae	18	4	2	good
Clusiidae	360	14	12	good
Odiniidae	64	14	5	average
Opomyzidae	59	33	16	average
Perisclididae	83	6	4	average

elsewhere in this volume of ZooKeys. The remaining opomyzoid families are presented here in alphabetical order.

Hackman (1980) last listed the Finnish species of these families. World catalogues have recently been published for Perisclididae (Mathis and Rung 2011) and Odiniidae (Gaimari and Mathis 2011). For Anthomyzidae the Revision of West Palearctic Anthomyzidae by Roháček (2006, 2009) is followed. Three of the four Palearctic *Aulacigaster* species have been found in Europe (Kassebeer 2001, Rung and Mathis 2011). Papp and Withers (2011) reviewed the Palearctic Perisclidinae and proposed some nomenclatorial changes. Hackman's (1959) review of the Finnish opomyzid fauna is still valuable but several additional species have since been recognized.

Checklist

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 Opomyzoidea Fallén, 1820

ANTHOMYZIDAE Czerny, 1903

ANTHOMYZA Fallén, 1810

Anthomyza collini Andersson, 1976

Anthomyza dissors Collin, 1944

Anthomyza elbergi Andersson, 1976

= *sordidella* auct. nec (Zetterstedt, 1848)

Anthomyza gracilis Fallén, 1823

Anthomyza macra Czerny, 1928

Anthomyza pallida (Zetterstedt, 1838)

= *unguicella* (Zetterstedt, 1838)

- Anthomyza paraneglecta* Elberg, 1968
Anthomyza pleuralis Czerny, 1928
ARGANTHOMYZA Roháček, 2009
Arganthomyza socculata (Zetterstedt, 1847)
 = *ungulata* (Loew, 1873)
CAREXOMYZA Roháček, 2009
Carexomyza caricis (Roháček, 1999)
FUNGOMYZA Roháček, 1999
Fungomyza albimana (Meigen, 1830)
PARANTHOMYZA Czerny, 1902
Paranthomyza nitida (Meigen, 1838)
STIPHROSOMA Czerny, 1928
 = *Ptenotaenia* Enderlein, 1936
Stiphrosoma laetum (Meigen, 1830)
 = *cingulatum* misid.
Stiphrosoma sabulosum (Haliday, 1837)
TYPHAMYZA Roháček, 1992
Typhamyza bifasciata (Wood, 1911)

- ASTEIIDAE** Rondani, 1856
 ASTEIIDAE Rondani, 1856
ASTEIA Meigen, 1830
 sg. *Asteia* Meigen, 1830
Asteia amoena Meigen, 1830
Asteia concinna Meigen, 1830
Asteia elegantula Zetterstedt, 1847
 SIGALOESSINAE Sabrosky, 1956
LEIOMYZA Macquart, 1835
Leiomyza dudai Sabrosky, 1956
Leiomyza laevigata (Meigen, 1830)
Leiomyza scatophagina (Fallén, 1823)

- AULACIGASTRIDAE** Duda, 1924
AULACIGASTER Macquart, 1835
 = *Aulacogaster* emend.
Aulacigaster leucopeza (Meigen, 1830)
Aulacigaster pappi Kassebeer, 2001

- CLUSIIDAE** Handlirsch, 1884
 CLUSIIDAE Handlirsch, 1884
CLUSIA Haliday, 1838
 = *Paraclusia* Czerny, 1903
Clusia flava (Meigen, 1830)

Clusia tigrina (Fallén, 1820)

CLUSIODINAE

CLUSIODES Coquillett, 1904

= *Heteroneura* Fallén, 1823 preocc.

Clusiodes albimanus (Meigen, 1830)

Clusiodes apicalis (Zetterstedt, 1848)

Clusiodes caledonicus (Collin, 1912)

= *gentilis* misid.

Clusiodes freyi Tuomikoski, 1933

Clusiodes geomyzinus (Fallén, 1823)

Clusiodes microcercus Stackelberg, 1955

Clusiodes pictipes (Zetterstedt, 1855)

Clusiodes ruficollis (Meigen, 1830)

Clusiodes verticalis (Collin, 1912)

HENDELIA Czerny, 1903

Hendelia beckeri Czerny, 1903

ODINIIDAE Hendel, 1920

ODINIINAE Hendel, 1920

NEOALTICOMERUS Hendel, 1903

Neoalticomerus formosus (Loew, 1844)

ODINIA Robineau-Desvoidy, 1830

Odinia boletina (Zetterstedt, 1848)

Odinia czernyi Collin, 1952

= *mejerei* misid.

Odinia ornata (Zetterstedt, 1838)

Odinia xanthocera Collin, 1952

OPOMYZIDAE Fallén, 1820

ANOMALOAETA Frey, 1921

Anomaloaeta guttipennis (Zetterstedt, 1838)

GEOMYZA Fallén, 1810

Geomyza angustipennis Zetterstedt, 1847

Geomyza apicalis (Meigen, 1830)

Geomyza consobrina Zetterstedt, 1847

Geomyza hackmani Nartshuk, 1984

= *combinata* auct. nec (Linnaeus, 1767)

= *balachowskyi* misid.

Geomyza majuscula (Loew, 1864)

= *breviforceps* Hackman, 1959

Geomyza martineki Drake, 1992

Geomyza paganettii (Strobl, 1909)

Geomyza pilosula Czerny, 1928

Geomyza tripunctata Fallén, 1823

OPOMYZA Fallén, 1820

Opomyza florum (Fabricius, 1794)

Opomyza germinationis (Linnaeus, 1758)

Opomyza lineatopunctata von Roser, 1840

Opomyza nigriventris Loew, 1865

Opomyza punctata Haliday, 1833

Opomyza punctella Fallén, 1820

PERISCOLIDIDAE Oldenberg, 1914

PERISCOLIDINAE Oldenberg, 1914

MYODRIS Lioy, 1864

= **Microperiscelis** Oldenberg, 1914

Myodris annulata (Fallén, 1813)

PERISCELIS Loew, 1858

Periscelis annulipes Loew, 1858

Periscelis nigra (Zetterstedt, 1860)

Periscelis winnertzii Egger, 1862

Excluded species

Clusiodes gentilis (Collin, 1912) misidentified

Geomyza balachowskyi Mesnil, 1934 misidentified

Odinia mejerei Collin, 1952 misidentified

Notes

***Aulacigaster pappi* Kassebeer, 2001.** Most of the Finnish *Aulacigaster* material belong to this species, including all specimens currently stored in the Finnish Museum on Natural History (MZH). Storå (1956, 1957) and Hackman (1980) misidentified *A. pappi* as *A. leucopeza*. A few Finnish specimens of the real *A. leucopeza* were found in private collections.

***Clusiodes gentilis* (Collin, 1912).** Lonsdale and Marshall (2007) record this species from Finland on a map. The data is apparently taken from Frey (1928). As Tuomikoski (1936) has pointed out, Frey misidentified *C. caledonicus* as *C. gentilis*.

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