

78. Family MILICHIIDAE

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Milichiid flies are small and inconspicuous, usually black, often dull or subshining but sometimes highly polished. Males of some species have silvery abdomens that flash brilliantly in the sun as they dance in swarms. Larvae are saprophagous or coprophagous. There are numerous rearing records from manure, compost heaps, decaying plant material, birds' nests, and carrion. Some species are easily spread in commerce and have become virtually cosmopolitan (e.g., *Desmometopa m-nigrum*). In the Nearctic and southern Neotropical regions some species are associated with ants. Some of these species breed in detritus

deep in the nests of leafcutting ants (*Atta* spp.). Adults of some species are phoretic commensals on predatory insects, riding on them and sucking juices that exude from the victims. Although many species have been described from the Australasian/Oceanian Regions, little is known of their biology.

Scattered specimens of a number of genera indicate that much comprehensive revisionary work needs to be done in the area covered by this catalog and the adjacent parts of the Oriental Region. The only modern work available is the revision of the world species of *Desmometopa* (Sabrosky 1983).

Subfamily MADIZINAE

Genus DESMOMETOPA Loew

DESMOMETOPA Loew, 1866a: 184 [1872b: 62]. Type species: *Agromyza m-atrum* Meigen, 1830 [= *Madiza sordida* Fallén, 1820], des. Hendel, 1903b: 251.

ciliata Hendel, 1919: 200. Australia (NSW); Australia (ACT, Qld, SA, WA).

flavipalpis Sabrosky, 1983: 49. Marshall Is; Belau, Indonesia (Irian Jaya), Micronesia, Vanuatu.

gressitti Sabrosky, 1983: 54. Marshall Is; Kiribati (Gilbert Is), Solomon Is, Vanuatu.

inaurata Lamb, 1914: 363. Seychelles; American Samoa, Australia (NSW, Qld, SA, Vic, WA), Fiji, French Polynesia (Marquesas Is), Hawaiian Is, Lord Howe I, Pitcairn Is, Tuvalu; widesp. Afrotrop., Neotrop. Regs.

microps Lamb, 1914: 364. Seychelles; Guam; widesp. Oriental, adjoining parts of Palearctic Regs.

m-nigrum Zetterstedt, 1848: 2743 (*Agromyza*). Sweden; Australia (NSW, WA); virtually cosmopol. [apparently distributed in commerce].

singaporensis Kertész, 1899b: 194. Singapore; Australia (NT), widesp. Pacific Is, E to Hawaiian Is, N to Bonin Is; widesp. Oriental Reg, (some Afrotrop. & Neotrop. records).

palpalis de Meijere, 1914b: 251. Indonesia (Java & Sumatra).

tristicula Hendel, 1914a: 96. Taiwan.

m-nigrum, authors, not Zetterstedt, 1848, misid.

tarsalis Loew, 1866a: 184 [1872b: 62]. Cuba; Fiji, Hawaiian Is, Northern Marianas, PNG (Bismarck Arch), Solomon Is, Wake I; widesp. SW USA to Neotrop. Reg.

m-nigrum, authors, not Zetterstedt, 1848, misid.

terminalis Sabrosky, 1983: 36. Belau.

varipalpis Malloch, 1927b: 7. Australia (NSW); Australia (NT, WA), Indonesia (Irian Jaya), widesp. Pacific Is to Hawaiian Is; cosmopol.

Genus LEPTOMETOPA Becker

MACRURUS Lioy, 1864a: 1313. Type species: *Agromyza latipes* Meigen, 1830, mon. [Preocc. Schneider, 1801.]

LEPTOMETOPA Becker, 1903: 188. Type species: *Leptometopa rufifrons* Becker, 1903, mon.

HYPASPISTOMYIA Hendel, 1907b: 240. Type species: *Hypaspistomyia coquilletti* Hendel, 1907, mon.

aelleni Papp, 1978: 104. New Caledonia (New Caledonia).

beardsleyi Hardy & Delfinado, 1980: 358. Hawaiian Is; Pitcairn Is.

mallochi Sabrosky, n. n. Australia (NSW).

albipennis Malloch, 1924f: 336 (*Hypaspistomyia*). Australia (NSW). [Preocc. Lamb, 1914.]

pacifica Papp, 1984a: 243. Fiji.

pecki Papp, 1984a: 245. Fiji.

Genus NEOPHYLLOMYZA Melander

NEOPHYLLOMYZA Melander, 1913: 243. Type species: *Neophyllomyza quadricornis* Melander, 1913, orig. des.

anuda Curran, 1936: 46 (*Desmometopa*). Solomon Is.

wulpi Hendel, 1907b: 242 (*Desmometopa*; n. n. for *minutissima* Wulp). ?PNG (PNG).

minutissima Wulp in Kertész, 1897: 611 (*Agromyza*). "Neu-Guinea" [prob. = PNG (PNG)]. [Preocc. Zetterstedt, 1860.]

Genus PARAMYIA Williston

PARAMYIA Williston, 1897: 1. Type species: *Paramyia nigra* Williston, 1897 [= ?*Phyllomyza nitens* Loew, 1869], mon.

Unidentified spp. — Australia (NSW, Qld, Tas, WA) (D.H. Colless, *in litt.*).

Genus PHYLLOMYZA Fallén

PHYLLOMYZA Fallén, 1810a: 20. Type species: *Phyllomyza securicornis* Fallén, 1823, subs. mon. Fallén, 1823f: 8.

Unidentified spp. — Australia (NSW, NT, Qld, WA), Easter I, Indonesia (Irian Jaya), Solomon Is.

Genus STOMOSIS Melander

STOMOSIS Melander, 1913: 242. Type species: *Desmometopa luteola* Coquillett, 1902 [= *Agromyza innominata* Williston, 1896], orig. des.

flavoscutellata Malloch, 1925f: 88. Australia (Vic).

vittata Malloch, 1925f: 89. Australia (NSW); Australia (ACT).

Subfamily MILICHIINAE**Genus EUSIPHONA Coquillett**

EUSIPHONA Coquillett, 1897: 49. Type species: *Eusiphona mira* Coquillett 1897, orig. des.

Unidentified spp. — Australia (NSW, NT, WA).

Genus MILICHIA Meigen

MILICHIA Meigen, 1830: 131. Type species: *Milichia speciosa* Meigen, 1830, des. Westwood, 1840: 151.

angustifrons Bezzi, 1928: 161. Fiji.

minuta Walker, 1865b: 129. "New Guinea" [= Indonesia (Irian Jaya)].

orientalis Malloch, 1913a: 109. Guam; Belau, Hawaiian Is, Kiribati (Gilbert Is), Northern Marianas, Tonga, Vanuatu.

piscivora Malloch, 1926*d*: 547. Australia (Qld); Australia (NSW).

Genus MILICHIELLA Giglio-Tos

MILICHIELLA Giglio-Tos, 1895: 367. Type species: *Tephritis argentea* Fabricius, 1805 [misid., = *Milichiella tosi* Becker, 1907], mon.

ECCOPTOMMA Becker, 1907: 540. Type species: *Eccoptomma frontale* Becker, 1907, des. Malloch, 1934*f*: 463.

argentea Fabricius, 1805: 323 (*Tephritis*). Indonesia (Maluku); ?Solomon Is.

circularis Aldrich, 1931: 397. Hawaiian Is.

lacteipennis Loew, 1866*a*: 185 [1872*b*: 63] (*Lobioptera*). Cuba; widesp. Pacific Is E to Pitcairn Is, N to Hawaiian Is, W to Bonin Is; virtually cosmopol. [probably distributed in commerce].

lacteiventris Malloch, 1931*c*: 77. Australia (Qld); ?Guam.

longiseta Hardy & Delfinado, 1980: 365. Hawaiian Is.

nigripes Malloch, 1931*c*: 77. Australia (NSW).

Genus PHOLEOMYIA Bilimek

PHOLEOMYIA Bilimek, 1867: 903. Type species: *Pholeomyia leucozona* Bilimek, 1867, mon.

politifacies Sabrosky, 1959: 323. Dominican Republic; French Polynesia (Society Is) [prob. introduced].