

## 78. Family MILICHIIDAE

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**M**ilichiid 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, 1926d: 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, 1934f: 463.

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

**circularis** Aldrich, 1931: 397. Hawaiian Is.

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

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

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

**nigripes** Malloch, 1931c: 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].