

86. Family SCIOMYZIDAE

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The Sciomyzidae, or marsh flies, consist of 4 subfamilies, with 600 species in about 60 genera worldwide. The family is poorly represented in the Australasian/Oceanian Regions, where only 2 subfamilies, 7 genera, and 37 native species are known. The familial placement of the Huttonininae, with 2 genera and 9 species, is not certain, and this group is tentatively referred to the Sciomyzidae (Barnes 1979a).

Life cycles of about 200 species of sciomyzid flies have been studied. Larvae of all reared species are predators or parasitoids of molluscs, especially aquatic, amphibious, and terrestrial pulmonate snails. The larvae of Australasian and Oceanian species show diverse feeding habits. Larvae of *Dichetophora*, *Sepedomerus*, and *Sepedon* spp. have been observed to feed on aquatic pulmonate snails.

Larvae of *Eulimnia* feed on sphaeriid clams, and larvae of *Neolimnia* feed on aquatic or terrestrial, pulmonate, or operculate prosobranch snails (Lynch 1965; Neff & Berg 1966; Fontana 1972; Bhuangprakone & Areekul 1973; Beaver *et al.* 1977; Barnes 1979c, 1980a). Several species of *Sciomyzidae* were introduced into the Hawaiian Islands as biological control agents for aquatic snails that are intermediate hosts of *Fasciola*, but only *Sepedomerus macropus* and *Sepedon aenescens* are believed to be established (Davis 1960, Chock *et al.* 1961, Davis *et al.* 1961, Davis & Krauss 1962, 1967, Davis 1972, Steyskal *in* Hardy & Delfinado 1980).

Refs.: Harrison (1959, key NZ spp), Berg & Knutson (1978, bibliogr.), Barnes (1979b, 1980a, key NZ spp.), Steyskal *in* Hardy & Delfinado (1980, key Hawaiian spp.).

Subfamily HUTTONININAE

Tribe HUTTONININI

Genus HUTTONINA Tonnoir & Malloch

HUTTONINA Tonnoir & Malloch, 1928: 174. Type species: *Huttonina abrupta* Tonnoir & Malloch, 1928, orig. des.

Subgenus HUTTONINA Tonnoir & Malloch

HUTTONINA Tonnoir & Malloch, 1928: 174 (as gen.). Type species: *Huttonina abrupta* Tonnoir & Malloch, 1928, orig. des.

abrupta Tonnoir & Malloch, 1928: 175. NZ (NZ).

brevis Malloch, 1930m: 343. NZ (NZ).

elegans Tonnoir & Malloch, 1928: 177. NZ (NZ).

furcata Tonnoir & Malloch, 1928: 175. NZ (NZ).

glabra Tonnoir & Malloch, 1928: 177. NZ (NZ).

scutellaris Tonnoir & Malloch, 1928: 176. NZ (NZ).

Subgenus HUTTONINELLA Barnes & Knutson, n. n.

HUTTONELLA Tonnoir & Malloch, 1928: 178. Type species: *Huttonina angustipennis* Tonnoir & Malloch, 1928, mon. [Preocc. Pfeiffer, 1855.]

HUTTONIELLA. Incorr. orig. spell. of *Huttonella* (Tonnoir & Malloch, 1928: 154). [Preocc. Pocock, 1903.]

HUTTONINELLA Barnes & Knutson, n. n. (for *Huttonella*).

angustipennis Tonnoir & Malloch, 1928: 178. NZ (NZ).

claripennis Harrison, 1959: 67. NZ (NZ).

Tribe PROSOCHAETINI

Genus PROSOCHAETA Malloch

PROSOCHAETA Malloch, 1935*b*: 95. Type species: *Prosochaeta prima* Malloch, 1935, mon.
prima Malloch, 1935*b*: 95. NZ (NZ).

Subfamily SCIOMYZINAE

Tribe SCIOMYZINI

Genus ATRICHOMELINA Cresson

ATRICHOMELINA Cresson, 1920: 40. Type species: *Sciomyza pubera* Loew, 1862, orig. des.
ACHAETOMELINA. Incorr. orig. spell. of *Atrichomelina* (Cresson, 1920: 30).
pubera Loew, 1862*a*: 106 (*Sciomyza*). USA; Hawaiian Is [introduced; ?established]; Canada, Mexico.

Genus PHERBELLIA Robineau-Desvoidy

MELINA Robineau-Desvoidy, 1830: 695. Type species: *Melina riparia* Robineau-Desvoidy, 1830 [= *Sciomyza dubia* Fallén, 1820], mon. [Preocc. Retzius, 1788.]
PHERBELLIA Robineau-Desvoidy, 1830: 695. Type species: *Pherbellia vernalis* Robineau-Desvoidy, 1830 [= *Sciomyza schoenherrri* Fallén, 1826], mon.

Subgenus CHETOCERA Robineau-Desvoidy

CHETOCERA Robineau-Desvoidy, 1830: 697 (as gen.). Type species: *Chetocera claripennis* Robineau-Desvoidy, 1830 [= *Sciomyza albocostata* Fallén, 1820], mon.
CHAETOCERA Agassiz, 1846: 7 (unjust. emend. of *Chetocera*).
dorsata Zetterstedt, 1846: 2096 (*Sciomyza*). Sweden; Hawaiian Is [introduced; ?established]; England, E to Kazakh SSR, S to SE Spain, Turkey & Israel.

Subgenus DITAENIELLA Sack

DITAENIELLA Sack, 1939: 37 (as gen.). Type species: *Sciomyza grisescens* Meigen, 1830, orig. des. *grisescens* Meigen – not Australasian/Oceanian.
parallela Walker, 1853: 401 (*Sciomyza*). USA; Hawaiian Is [introduced; ?established]; S Canada to Costa Rica.

Subgenus GRAPHOMYZINA Macquart

GRAPHOMYZINA Macquart, 1835: 558 (as gen.). Type species: *Graphomyzina elegans* Macquart, 1835 [= *Sciomyza limbata* Meigen, 1830], mon.
CORMOPTERA Schiner, 1862*a*: 149 (unnec. n. n. for *Graphomyzina*).
dives Bezzi, 1928: 85 (*Sciomyza*). Fiji; Tonga. **N. comb.**
javana de Meijere, 1911*b*: 349 (*Sciomyza*). Indonesia (Java); widesp. Australia (excl. Tas); Indonesia (Sumatra).

Tribe TETANOCERINI

Genus DICHETOPHORA Rondani

DICHETOPHORA Rondani, 1868a: 206 [1868b: 8]. Type species: *Scatophaga obliterata* Fabricius, 1805, orig. des.

Subgenus DICHETOPHORA Rondani

DICHETOPHORA Rondani, 1868a: 206 [1868b: 8] (as gen.). Type species: *Scatophaga obliterata* Fabricius, 1805, orig. des.

DICHAETOPHORA, error for *Dichetophora*.

australis Walker, 1853: 402 (*Tetanocera*). Australia (Tas).

Subgenus NEOSEPEDON Malloch

NEOSEPEDON Malloch, 1928f: 323. Type species: *Dichaetophora punctipennis* Malloch, 1928, orig. des. *biroi* Kertész, 1901c: 418 (*Cylindria*). Australia (NSW); Australia (Qld, SA, Vic).

boyesi Steyskal, 1972b: 362. Australia (WA).

conjuncta Malloch, 1928f: 324. Australia (NSW); Australia (Vic).

hendeli Kertész, 1901c: 417 (*Cylindria*). Australia (NSW).

punctipennis Malloch, 1928f: 323. Australia (NSW).

Genus DICTYA Meigen

DICTYA Meigen, 1803: 277. Type species: *Musca umbrarum* Linnaeus, 1758 [designation pending submission of application to I.C.Z.N. for fixation of type species].

MONOCHAETOPHORA Hendel, 1900: 355. Type species: *Musca umbrarum* Linnaeus, 1758, mon. *abnormis* Steyskal, 1954: 518. Mexico; Hawaiian Is [introduced; ?established].

Genus EULIMNIA Tonnoir & Malloch

EULIMNIA Tonnoir & Malloch, 1928: 172. Type species: *Eulimnia milleri* Tonnoir & Malloch, 1928, orig. des.

milleri Tonnoir & Malloch, 1928: 172. NZ (NZ).

philpotti Tonnoir & Malloch, 1928: 173. NZ (NZ).

Genus NEOLIMNIA Tonnoir & Malloch

NEOLIMNIA Tonnoir & Malloch, 1928: 163. Type species: *Limnia obscura* Hutton, 1901, orig. des.

Subgenus NEOLIMNIA Tonnoir & Malloch

NEOLIMNIA Tonnoir & Malloch, 1928: 165. Type species: *Limnia obscura* Hutton, 1901, orig. des. *castanea* Hutton, 1904c: 153 (*Limnia*). NZ (NZ).

ocellata Tonnoir & Malloch, 1928: 166. NZ (NZ).

diversa Tonnoir & Malloch, 1928: 167. NZ (NZ).

irrorata Tonnoir & Malloch, 1928: 167. NZ (NZ).

dubiosa Tonnoir & Malloch, 1928: 168. NZ (NZ).

minuta Tonnoir & Malloch, 1928: 170. NZ (NZ).

obscura Hutton, 1901: 85. (*Limnia*). NZ (NZ).

pepekeiti Barnes, 1979b: 260. NZ (NZ).

raiti Barnes, 1979b: 261. NZ (NZ).

striata Hutton, 1904c: 154 (*Limnia*). NZ (NZ); NZ (Chatham Is).

ssp. *brunneifrons* Tonnoir & Malloch, 1928: 169 (*striata* var.). NZ (NZ).

ssp. *striata* s. str. NZ (NZ); NZ (Chatham Is).

Subgenus PSEUDOLIMNIA Tonnoir & Malloch

PSEUDOLIMNIA Tonnoir & Malloch, 1928: 171. Type species: *Tetanocera sigma* Walker, 1849, orig. des.

repo Barnes, 1979b: 245. NZ (NZ).

sigma Walker, 1849: 1084 (*Tetanocera*). NZ (NZ).

tranquilla Hutton, 1901: 85 (*Limnia*). NZ (NZ).

ura Barnes, 1979b: 251. NZ (NZ).

Subgenus SUBLIMNIA Harrison

SUBLIMNIA Harrison, 1959: 72. Type species: *Neolimnia nitidiventris* Tonnoir & Malloch, 1928, orig. des.

nitidiventris Tonnoir & Malloch, 1928: 170. NZ (NZ).

vittata Harrison, 1959: 72. NZ (NZ).

Genus SEPEDOMERUS Steyskal

SEPEDOMERUS Steyskal, 1973: 144. Type species: *Sepedon macropus* Walker, 1849, orig. des.

macropus Walker, 1849: 1078 (*Sepedon*). Jamaica; Hawaiian Is [introduced]; S USA & Mexico E to Puerto Rico & Trinidad, S to Peru.

Genus SEPEDON Latreille

SEPEDON Latreille, 1804: 196. Type species: *Syrphus spehegeus* Fabricius, 1775, mon.

SEPODON, error for *Sepedon*.

aenescens Wiedemann, 1830a: 579. China; Hawaiian Is [introduced]; widesp. Oriental Reg.

violacea Hendel, 1909c: 86. Hong Kong.

sauteri Hendel, 1911b: 270. Taiwan.

sinensis Mayer, 1953: 217. China.

batjanensis Kertész, 1899b: 180 (n. n. for *costalis* Walker). Indonesia (Maluku); Indonesia (Sulawesi).

costalis Walker, 1861d: 291. Indonesia (Maluku). [Preocc. Walker, 1858.]

costalis Walker, 1858b: 110. Indonesia (Maluku); PNG (PNG).

lata Bezzi, 1928: 84 (*costalis* var.). Fiji; PNG (PNG). **N. stat.**

noteoi Steyskal — not Australasian/Oceanian.

oriens Steyskal in Hardy & Delfinado 1980: 119. Hawaiian Is [introduced; ?established].

pacifica Cresson, 1914b: 457. USA, Hawaiian Is [introduced; ?established]; Canada, Mexico.

plumbella Wiedemann, 1830a: 577. "China"; Australia (NT, Qld, WA), Hawaiian Is [introduced; ?established], Indonesia (Irian Jaya), New Caledonia (New Caledonia), PNG (Bougainville I, PNG), Solomon Is; widesp. Oriental Reg.

javanensis Robineau-Desvoidy, 1830: 677. Indonesia (Java).

fuscinervis Brunetti, 1907: 215. Indonesia (Java).

sanguinipes Brunetti, 1907: 215. Indonesia (Java).

javana, error for *javanensis*.

praemiosa Giglio-Tos, 1893: 8. Mexico; Hawaiian Is [introduced; ?established]; USA.

senex Wiedemann, 1830a: 578. Not given [unknown]; Hawaiian Is [introduced; ?established]; widesp. Oriental Reg.

Unplaced species of Sciomyzidae

transmarina Schiner, 1868: 234 (*Limnia*). NZ (NZ).