

## 86. Family SCIOMYZIDAE

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**T**he 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 schoenherri* 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).

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

spp. **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 sphaeus* 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).

*fuscineris* 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).