

## Superfamily ANISOPODOIDEA

### 16. Family ANISOPODIDAE

By B.V. Peterson

The family Anisopodidae is a primitive group consisting of small to moderately sized flies (2 to 18 mm) with narrow, elongate bodies and long, slender legs. The head has 3 ocelli in both sexes and moderately long antennae. The wings often show patterns of dark markings. Adults can be found near larval habitats and in other moist places, near the edges of woods and forested areas, and often on slime fluxes of wounded trees. Males form mating swarms and females oviposit on almost any moist surface. The amphipneustic larvae are slender, fusiform, and vary from ca. 10 to 20 mm in length. They are saprophagous and occur in moist, decaying, or fermenting organic matter. Larvae of *Sylvicola* have been reported in cases of intestinal and urinogenital myiasis (see Smith & Taylor 1966, Morris 1968). Pupation occurs in the larval habitats without the formation of a cocoon. Pharate adults actively wriggle to the surface for emergence.

This family has had an unsettled history both taxonomically and nomenclaturally. Some of its species have been assigned to various families including the Tipulidae, Bibionidae, and

Mycetophilidae, it has contained species now assigned to other families, and some of its current species have previously appeared under 1 or more of 5 family names.

The Anisopodidae, although a small family, are widely distributed. The family consists of 6 genera with ca. 100 described species in the world fauna. Four genera and 13 species have been described from the area covered by this catalog. A number of additional species from the area remain unidentified or undescribed (Osten Sacken 1881a; Edwards 1928d; Joyce 1959; Colless & McAlpine 1970; Macfarlane 1979; Colless, pers. comm.). Pratt & Pratt (1980) divided the 5 North American species of *Sylvicola* into 2 subgenera, *Sylvicola* and *Anisopus*. A modern revisionary study is needed to determine if the species of *Sylvicola* listed in this catalog should be assigned to one or both of these subgenera.

*Refs.*: Malloch (1917, immat.), Keilin (1919, immat.), Keilin in Edwards (1928a, immat.), Keilin & Tate (1940, immat.), Pedersen (1968, immat.), Peterson (1981, rev. Nearctic gen.).

#### Subfamily ANISOPODINAE

##### Genus OLBIOGASTER Osten Sacken

**OLBIOGASTER** Osten Sacken, 1886: 20. Type species: *Olbiogaster cognatus* Osten Sacken, 1886, des. Sharp, 1887: 302.  
*insularis* Tonnoir, 1923b: 504. Lord Howe I.

##### Genus SYLVICOLA Harris

**SYLVICOLA** Harris, 1780: 100. Type species: *Sylvicola brevis* Harris, 1780 [= *Tipula fenestralis* Scopoli, 1763], des. Coquillett, 1910: 610.  
*PHYRNE* Meigen, 1800: 16. Suppressed by I.C.Z.N., 1963b: 339.  
*ANISOPUS* Meigen, 1803: 264. Type species: *Anisopus fuscus* Meigen, 1804 [= *Tipula fuscata* Fabricius, 1775], des. Coquillett, 1910: 507. [*Anisopus* originally proposed without included species; designation by Coquillett is of the first of 2 species placed in the genus by Meigen, 1804: 103.]

*RHYPHUS* Latreille, 1804: 188. Type species: *Tipula fenestralis* Scopoli 1763 (as “*fenestrarum*”), mon.  
*cinctus* Fabricius, 1787: 333 (*Rhagio*). West Germany; Hawaiian Is; Canary Is, St. Helena, Europe, N  
 Africa.

*succinctus* Gmelin, 1790: 2866 (*Musca*; unjust. n. n. for *cinctus* Fabricius).

*dubius* Macquart, 1850: 408(104) (*Chrysopyla*). Australia, “côte orientale”; widesp. Australia.

*brevis* Walker, 1856d: 449 (*Rhyphus*). Australia (Tas). [Preocc. Harris, 1780.]

*festivus* Edwards, 1928d: 17 (*Anisopus*). NZ (NZ). **N. comb.**

*funebri* Fuller, 1935: 295 (*Anisopus*). Australia (Vic). **N. comb.**

*hellwigi* de Meijere, 1913b: 315 (*Rhyphus*). Indonesia (Irian Jaya); PNG (PNG); Indonesia (Java). **N. comb.**

*maculipennis* Wulp, 1885a: 14 (*Rhyphus*). Indonesia (Java); Indonesia (Maluku); Oriental Reg.

*neozelandicus* Schiner, 1868: 49 (*Rhyphus*). NZ (NZ); Australia (SA, Tas, Vic), NZ (Auckland Is). **N. comb.**

*phaleratus* Walker, 1848: 124 (*Rhyphus*). *Nomen nudum*.

*phaleratus* Hutton, 1874: 165 (*Rhyphus*). *Nomen nudum*.

*phaleratus* Kirby, 1884a: 269 (*Rhyphus*). Not given [NZ]. **N. syn.**

*notatus* Hutton, 1902b: 191 (*Rhyphus*). NZ (NZ); NZ (Auckland Is). **N. comb.**

*undulatus* Lamb, 1909: 131 (*Rhyphus*). NZ (Auckland Is); NZ (NZ). **N. comb.**

## Subfamily MYCETOBIIINAE

### Genus MESOCHRIA Enderlein

**MESOCHRIA** Enderlein, 1910b: 65. Type species: *Mesochria scottiana* Enderlein, 1910, orig. des.

*buxtoniana* Edwards, 1928c: 40. Western Samoa.

### Genus MYCETOBIA Meigen

**MYCETOBIA** Meigen, 1818: 229. Type species: *Mycetobia pallipes* Meigen, 1818, des. Westwood, 1840: 127.

Undetermined spp—New Caledonia (New Caledonia) (Matile, *in litt.*).