

10. Family MYCETOPHILIDAE

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Among the world mycetophiloids, the family Mycetophilidae is the most diversified, with about 3,000 species in 150 genera and at least twice this number of species awaiting description. The family is cosmopolitan, being well represented in forested areas worldwide. A number of the extant genera have been preserved in Baltic amber (late Eocene to lower Oligocene), and the available paleontological and biogeographical information implies that the family was already well diversified by at least the Middle Cretaceous.

Forty-nine genera and 236 named valid species are recorded in this catalog. As with other families of mycetophiloids, this number is certainly far below the true number of species in the Australasian fauna (see Colless 1970*b*).

Like the Keroplatidae, the mycetophilid fauna of these regions contains an old Transantarctic element plus pantropical and Indomalayan elements. As far as can be ascertained without phylogenetic and biogeographic studies on Oriental and Australasian mycetophilids (yet to be undertaken), the greatest part of the Australasian fauna seems predominantly of Oriental origin. *Morganiella*, *Austrosciophila*, *Paramorganiella*, *Tasmanina*, *Toxicnemis*, and *Trizygia* (Sciophilinae); *Anomalomyia*, *Ateleia*, *Caethronia*, *Cycloneura*, *Paracycloneura*, *Paradoxa*, *Sigmoleia*, and *Trichoterga* (Leiinae); and *Pseudalyisiina* and *Zygophronia* (Mycetophilinae) are endemic Australasian genera, many with close relationships to Neotropical genera with a Chilean center of endemism.

Most mycetophilids inhabit wet forests but are quite common in swamps and are present, although in limited numbers of species, in the moister parts of heath and open grassland.

Larvae of mycetophilids are mainly bound to the sporophores of fleshy Basidiomycetes (esp. Agaricaceae, Amanitaceae, Boletaceae, and Russulaceae) inside which they feed on spores and hyphae (or perhaps on spores only). Some species can be bred from Polyporaceae (bracket fungi) and rarely from Ascomycetes and Myxomycetes. A few species are monophagous or polyphagous, most of

the other species are restricted to particular genera or families of fungi.

Other larvae (esp. Mycomyinae, Sciophilinae, and Leiinae) spin glutinous webs under sporophores or under bark of dead trunks and branches. Some of these larvae are predaceous and others mycophagous. A few Afrotropical and Palearctic species are reported to live on mosses and liverworts.

Nothing seems to be known of the larval biology of the Australasian mycetophilids. Regarding genera known from these regions and bred elsewhere, larvae of *Mycomya* spin webs under bark, in cavities of rotten wood, and more rarely under fungi. There is definite evidence of their mycophagy, but some species may be predaceous (Väisänen 1984). It has been demonstrated that the larvae of a Palearctic species of *Neoempheria* are predaceous. *Phthinia* and *Tetragoneura* have been reported from rotting wood associated with fungi, and *Manota* and *Platurocypta* from Myxomycetes. All the Australasian genera of Exechiini and *Mycetophila* have been bred elsewhere on fleshy Basidiomycetes. Other members of the Mycetophilini are surface feeders under encrusting fungi (*Trichonta*, *Phronia*) or mycelium on wood (*Epicrypta*) (Stubbs & Chandler 1978, Hackman & Meinander 1979).

Imagos of mycetophilids are found mostly in damp and shady places in forests or along stream banks in open country. They also occur in nests of small mammals and in caves, sometimes in great numbers (*Antriadophila petulans*). They can be collected by sweeping, occasionally at light traps or windows, and very good results are obtained with yellow-tray and Malaise traps.

The orange and black *Pseudalyisiina mimicans* from Tasmania mimics a braconid wasp of the tribe *Alysiini* (Tonnoir 1929*b*).

Some of the present families of Sciaroidea have long been treated as mere subfamilies of Mycetophilidae, and are still considered as such by many taxonomists. The main papers on the systematics of Australasian mycetophilids are mostly

the same as for keroplatids: Skuse (1888c, 1890d) and Tonnoir (1929b) for Australia, Tonnoir & Edwards (1927) for New Zealand, and Colless (1966) for Micronesia.

The phylogeny of the subfamilies of Mycetophilidae is far from being clarified, and several

subfamilies are probably polyphyletic. Therefore, the classification adopted here is rather conventional, following Edwards (1925b) for the main divisions of the family but raising most of his tribes to subfamily rank as proposed by Väisänen (1984).

Subfamily MYCOMYINAE

Genus MYCOMYA Rondani

MYCOMYA Rondani, 1856: 194. Type species: *Sciophila marginata* Meigen, 1818, orig. des. *MYCOMYIA*, error for *Mycomya*.

flavilatera Tonnoir in Tonnoir & Edwards, 1927: 802. NZ (NZ).

furcata Edwards in Tonnoir & Edwards, 1927: 802. NZ (NZ).

humeralis Skuse, 1890d: 609 (*Sciophila*). Australia (NSW).

maccoyi Skuse, 1890d: 606 (*Sciophila*). Australia (Vic).

par Walker, 1856d: 417 (*Sciophila*). Australia (Tas).

pictithorax Skuse, 1890d: 607 (*Sciophila*). Australia (NSW).

plagiata Tonnoir in Tonnoir & Edwards, 1927: 802. NZ (NZ).

richmondensis Skuse, 1890d: 608 (*Sciophila*). Australia (NSW).

silvicola Skuse, 1890d: 610 (*Sciophila*). Australia (NSW).

Genus NEOEMPHERIA Osten Sacken

EMIPHERIA Winnertz, 1863: 738. Type species: *Sciophila striata* Meigen, 1818, des. Coquillett, 1910: 537. [Preocc. Hagen, 1854.]

NEOEMIPHERIA Osten Sacken, 1878: 9 (n. n. for *Empheria*).

signifera Skuse, 1890d: 611. Australia (NSW).

vicina Colless, 1966: 652. Bonin Is.

Subfamily SCIOPHILINAE

Genus ALLOCOTOCERA Mik

ALLOCOTOCERA Mik, 1886a: 102 (n. n. for *Eurycera*).

EURYCERA Dziedzicki, 1885: 166. Type species: *Eurycera flava* Dziedzicki, 1885 [= *Leia pulchella* Curtis, 1837], mon. [Preocc. de Laporte, 1833.]

EURYCERAS Marshall, 1896b: 291. Type species: *Euryceras anaclinoides* Marshall, 1896, mon.

anaclinoides Marshall, 1896b: 292 (*Euryceras*). NZ (NZ).

cephasi Edwards in Tonnoir & Edwards, 1927: 803. NZ (NZ).

crassipalpis Tonnoir in Tonnoir & Edwards, 1927: 804. NZ (NZ).

dilatata Tonnoir in Tonnoir & Edwards, 1927: 804. NZ (NZ).

Genus ANEURA Marshall

ANEURA Marshall, 1896b: 287. Type species: *Aneura boletinoides*, Marshall, 1896, mon.

appendiculata Tonnoir in Tonnoir & Edwards, 1927: 808. NZ (NZ).

bispinosa Edwards in Tonnoir & Edwards, 1927: 808. NZ (NZ).

boletinoides Marshall, 1896b: 288. NZ (NZ); NZ (Auckland Is).

defecta Edwards in Tonnoir & Edwards, 1927: 809. NZ (NZ).

fagi Marshall, 1896b: 282 (*Sciophila*). NZ (NZ).

filiformis Tonnoir in Tonnoir & Edwards, 1927: 807. NZ (NZ).

- fusca** Tonnoir *in* Tonnoir & Edwards, 1927: 807. NZ (NZ).
longicauda Tonnoir *in* Tonnoir & Edwards, 1927: 809. NZ (NZ).
longipalpis Tonnoir *in* Tonnoir & Edwards, 1927: 809. NZ (NZ).
nitida Tonnoir *in* Tonnoir & Edwards, 1927: 807. NZ (NZ).
pallida Edwards *in* Tonnoir & Edwards, 1927: 810. NZ (NZ).

Genus EUDICRANA Loew

- EUDICRANA** Loew, 1870: 142 [1872*b*: 180]. Type species: *Eudicrana obumbrata* Loew, 1870, mon.
PAREUDICRANA Tonnoir, 1929*b*: 600. Type species: *Pareudicrana monticola* Tonnoir, 1929, orig. des.
monticola Tonnoir, 1929*b*: 600 (*Pareudicrana*). Australia (Tas). **N. comb.**
nicholsoni Tonnoir, 1929*b*: 600 (*Pareudicrana*). Australia (NSW). **N. comb.**

Genus AUSTROSCIOPHILA Tonnoir, n. stat

- AUSTROSCIOPHILA** Tonnoir, 1929*b*: 604 (*Sciophila* subg.). Type species: *Sciophila solitaria* Tonnoir, 1929, orig. des.
solitaria Tonnoir, 1929*b*: 604 (*Sciophila*). Australia (Tas). **N. comb.**

Genus MORGANIELLA Tonnoir & Edwards

- MORGANIELLA** Tonnoir & Edwards, 1927: 817. Type species: *Morganiella fusca* Tonnoir *in* Tonnoir & Edwards, 1927, orig. des.
fusca Tonnoir *in* Tonnoir & Edwards, 1927: 817. NZ (NZ).

Genus NEOALLOCOTOCERA Tonnoir

- NEOALLOCOTOCERA** Tonnoir, 1929*b*: 601. Type species: *Neallocotocera fusca* Tonnoir, 1929, orig. des.
fusca Tonnoir, 1929*b*: 601. Australia (Tas).

Genus NEOAPHELOMERA Miller

- APHELOMERA** Skuse, 1888*c*: 1206. Type species: *Aphelomera sydneyensis* Skuse, 1888, mon. [Preocc. Stephens, 1833.]
NEOAPHELOMERA Miller, 1945: 72 (n. n. for *Aphelomera*).
elongata Tonnoir *in* Tonnoir & Edwards, 1927: 815 (*Aphelomera*). NZ (NZ).
forcipata Edwards *in* Tonnoir & Edwards, 1927: 815 (*Aphelomera*). NZ (NZ).
longicauda Edwards *in* Tonnoir & Edwards, 1927: 815 (*Aphelomera*). NZ (NZ).
majuscula Edwards *in* Tonnoir & Edwards, 1927: 814 (*Aphelomera*). NZ (NZ).
marshalli Edwards *in* Tonnoir & Edwards, 1927: 816 (*Aphelomera*). NZ (NZ).
opaca Tonnoir *in* Tonnoir & Edwards, 1927: 814 (*Aphelomera*). NZ (NZ).
sydneyensis Skuse, 1888*c*: 1207 (*Aphelomera*). Australia (NSW). **N. comb.**
skusei Marshall, 1896*b*: 296 (*Aphelomera*). NZ (NZ); NZ (Auckland Is).

Genus NEOTRIZYGIA Tonnoir & Edwards

- NEOTRIZYGIA** Tonnoir & Edwards, 1927: 816. Type species: *Neotrizygia obscura* Tonnoir *in* Tonnoir & Edwards, 1927, orig. des.
obscura Tonnoir *in* Tonnoir & Edwards, 1927: 816. NZ (NZ).

Genus PARAMORGANIELLA Tonnoir

- PARAMORGANIELLA** Tonnoir, 1929*b*: 606. Type species: *Paramorganiella adventurosa* Tonnoir, 1929, orig. des.

adventurosa Tonnoir, 1929b: 606. Australia (Tas).

Genus PARATRIZYGIA Tonnoir

PARATRIZYGIA Tonnoir, 1929b: 605. Type species: *Paratrizygia conformis* Tonnoir, 1929, orig. des. *conformis* Tonnoir, 1929b: 605. Australia (Tas).

Genus PARVICELLULA Marshall

PARVICELLULA Marshall, 1896b: 284. Type species: *Parvicellula triangula* Marshall, 1896, mon. *apicalis* Tonnoir in Tonnoir & Edwards, 1927: 811. NZ (NZ). *fascipennis* Edwards in Tonnoir & Edwards, 1927: 811. NZ (NZ). *gracilis* Tonnoir in Tonnoir & Edwards, 1927: 811. NZ (NZ). *hamata* Edwards in Tonnoir & Edwards, 1927: 812. NZ (NZ). *nigricoxa* Tonnoir in Tonnoir & Edwards, 1927: 812. NZ (NZ). *obscura* Tonnoir in Tonnoir & Edwards, 1927: 811. NZ (NZ). *ruficoxa* Tonnoir in Tonnoir & Edwards, 1927: 812. NZ (NZ). *subhamata* Tonnoir in Tonnoir & Edwards, 1927: 812. NZ (NZ). *triangula* Marshall, 1896b: 284. NZ (NZ).

Genus PHTHINIA Winnertz

PHTHINIA Winnertz, 1863: 779. Type species: *Phthinia humilis* Winnertz, 1863, des. Johannsen, 1909: 83. *longiventris* Tonnoir in Tonnoir & Edwards, 1927: 813. NZ (NZ).

Genus STENOPHRAGMA Skuse

STENOPHRAGMA Skuse, 1890d: 612 (n. n. for *Homaspis*). *HOMASPIS* Skuse, 1888c: 1191. Type species: *Homaspis meridiana* Skuse, 1888, mon. [Preocc. Förster, 1868.] *hirtipenne* Skuse, 1890d: 614. Australia (NSW). *meridianum* Skuse, 1888c: 1192 (*Homaspis*). Australia (SA). *picticorne* Skuse, 1890d: 613. Australia (SA).

Genus TASMANINA Tonnoir

TASMANINA Tonnoir, 1929b: 602. Type species: *Tasmanina gracilis* Tonnoir, 1929, orig. des. *gracilis* Tonnoir, 1929b: 603. Australia (Tas).

Genus TAXICNEMIS Tonnoir & Edwards

TAXICNEMIS Tonnoir & Edwards, 1927: 805. Type species: *Sciophila hirta* Marshall, 1896 [preocc., = *Taxicnemis marshalli* Matile, present work], orig. des. *flava* Edwards in Tonnoir & Edwards, 1927: 805. NZ (NZ). *marshalli* Matile, n. n. NZ (NZ). *hirta* Marshall, 1896b: 283 (*Sciophila*). NZ (NZ). [Preocc. Meigen, 1818.] ssp. *bivittata* Edwards in Tonnoir & Edwards, 1927: 805 (*hirta*. var.). NZ (NZ). ssp. *marshalli* s.str. NZ (NZ).

Genus TRIZYGIA Skuse

TRIZYGIA Skuse, 1888c: 1204. Type species: *Trizygia flavipes* Skuse, 1888, mon. *flavipes* Skuse, 1888c: 1205. Australia (NSW).

Subfamily GNORISTINAE

Genus AUSTROSYNAPHA Tonnoir

AUSTROSYNAPHA Tonnoir, 1929b: 607. Type species: *Austrosynapha hirta* Tonnoir, 1929, orig. des. *SYNAPHA*, Tonnoir & Edwards, 1927, not Meigen, 1818, misid.

apicalis Tonnoir *in* Tonnoir & Edwards, 1927: 818 (*Synapha*). NZ (NZ). **N. comb.**

cawthroni Tonnoir *in* Tonnoir & Edwards, 1927: 819 (*Synapha*). NZ (NZ). **N. comb.**

claripennis Tonnoir *in* Tonnoir & Edwards, 1927: 818 (*Synapha*). NZ (NZ). **N. comb.**

gracilis Tonnoir *in* Tonnoir & Edwards, 1927: 818 (*Synapha*). NZ (NZ). **N. comb.**

hirta Tonnoir, 1929b: 607. Australia (Tas).

parva Tonnoir *in* Tonnoir & Edwards, 1927: 819 (*Synapha*). NZ (NZ). **N. comb.**

pulchella Tonnoir *in* Tonnoir & Edwards, 1927: 819 (*Synapha*). NZ (NZ). **N. comb.**

similis Tonnoir *in* Tonnoir & Edwards, 1927: 818 (*Synapha*). NZ (NZ). **N. comb.**

Subfamily LEIINAE

Genus ACRODICRANIA Skuse

ACRODICRANIA Skuse, 1888c: 1194. Type species: *Acrodicrania atricauda* Skuse, 1888, des. Johannsen, 1909: 82.

angustifrons Skuse, 1890d: 616. Australia (NSW).

atricauda Skuse, 1888c: 1195. Australia (NSW); Australia (Qld).

fasciata Skuse, 1888c: 1198. Australia (NSW); Australia (Qld).

setosicauda Skuse, 1888c: 1196. Australia (NSW).

Genus ANOMALOMYIA Hutton

ANOMALA Marshall, 1896b: 293. Type species: *Mycetophila guttata* Hutton, 1881, mon. [Preocc. Block, 1799.]

ANOMALOMYIA Hutton, 1904a: 134 (n. n. for *Anomala*).

affinis Tonnoir *in* Tonnoir & Edwards, 1927: 822. NZ (NZ).

basalis Tonnoir *in* Tonnoir & Edwards, 1927: 821. NZ (NZ).

flavicauda Edwards *in* Tonnoir & Edwards, 1927: 822. NZ (NZ).

guttata Hutton, 1881: 11 (*Mycetophila*). NZ (Auckland Is).

immaculata Edwards *in* Tonnoir & Edwards, 1927: 820. NZ (NZ).

minor Marshall, 1896b: 295 (*Anomala*). NZ (NZ).

obscura Tonnoir *in* Tonnoir & Edwards, 1927: 821. NZ (NZ).

subobscura Tonnoir *in* Tonnoir & Edwards, 1927: 821. NZ (NZ).

thompsoni Tonnoir *in* Tonnoir & Edwards, 1927: 822. NZ (NZ).

viatoris Edwards *in* Tonnoir & Edwards, 1927: 822. NZ (NZ).

Genus ATELEIA Skuse

ATELEIA Skuse, 1888c: 1201. Type species: *Ateleia spadicithorax* Skuse, 1888, mon.

spadicithorax Skuse, 1888c: 1202. Australia (NSW).

Genus CAWTHONIA Tonnoir & Edwards

CAWTHONIA Tonnoir & Edwards, 1927: 825. Type species: *Cawthronia nigra* Tonnoir *in* Tonnoir & Edwards, 1927, orig. des.

nigra Tonnoir *in* Tonnoir & Edwards, 1927: 826. NZ (NZ).

Genus CLASTOBASIS Skuse

- CLASTOBASIS** Skuse, 1890d: 617. Type species: *Clastobasis tryoni* Skuse, 1890, mon.
RHYMOLEIA Edwards, 1924f: 570 (*Leiomyia* subg.). Type species: *Leiomyia fijiana* Edwards, 1924, orig. des.
fijiana Edwards, 1924f: 570 (*Leiomyia*). Fiji. **N. comb.**
fijiensis, error for *fijiana*.
ridens Colless, 1966: 654 (*Leia*). Bonin I. **N. comb.**
tryoni Skuse, 1890d: 619. Australia (Qld).

Genus CYCLONEURA Marshall

- CYCLONEURA** Marshall, 1896b: 289. Type species: *Cycloneura flava* Marshall, 1896, mon.
aberrans Tonnoir *in* Tonnoir & Edwards, 1927: 824. NZ (NZ).
flava Marshall, 1896b: 289. NZ (NZ).
triangulata Tonnoir *in* Tonnoir & Edwards, 1927: 825. NZ (NZ).

Genus INDOLEIA Edwards

- INDOLEIA** Edwards, 1928b: 6 (*Leia* subg.). Type species: *Leia bisetosa* Edwards, 1928, orig. des.
demeijerei Matile, n. n. Indonesia (Maluku).
nigra de Meijere, 1913a: 46 (*Leia*). Indonesia (Maluku). [Preocc. Zetterstedt, 1838.]

Genus LEIA Meigen

- LEIA** Meigen, 1818: 253. Type species: *Leia fascipennis* Meigen, 1818, des. Curtis, 1837a: 645.
 Unidentified spp. — Australia (Tas) (Tonnoir, 1929b: 610), Hawaiian Is (Evenhuis, 1986a: 3).

Genus PARACYCLONEURA Tonnoir & Edwards

- PARACYCLONEURA** Tonnoir & Edwards, 1927: 825. Type species: *Paracycloneura apicalis* Tonnoir *in* Tonnoir & Edwards, 1927, orig. des.
apicalis Tonnoir *in* Tonnoir & Edwards, 1927: 825. NZ (NZ).

Genus PARADOXA Marshall

- PARADOXA** Marshall, 1896b: 290. Type species: *Paradoxa fusca* Marshall, 1896, mon.
fusca Marshall, 1896b: 290. NZ (NZ); NZ (Auckland Is).

Genus PARALEIA Tonnoir

- PARALEIA** Tonnoir, 1929b: 611. Type species: *Paraleia fulvescens* Tonnoir, 1929, orig. des.
fulvescens Tonnoir, 1929b: 611. Australia (Tas); Australia (NSW, Qld).

Genus SIGMOLEIA Tonnoir & Edwards

- SIGMOLEIA** Tonnoir & Edwards, 1927: 826. Type species: *Sigmoleia melanoxantha* Edwards *in* Tonnoir & Edwards, 1927, orig. des.
melanoxantha Edwards *in* Tonnoir & Edwards, 1927: 826. NZ (NZ).

Genus TETRAGONEURA Winnertz

- TETRAGONEURA** Winnertz, 1846: 18. Type species: *Tetragoneura distincta* Winnertz, 1846 [= *Sciophila sylvatica* Curtis, 1837], des. Johannsen, 1909: 34.
exigua Matile, n. n. NZ (NZ).
minuta Tonnoir *in* Tonnoir & Edwards, 1927: 832. NZ (NZ). [Preocc. Meunier, 1904.]

- flexa** Edwards *in* Tonnoir & Edwards, 1927: 833. NZ (NZ).
minima Tonnoir *in* Tonnoir & Edwards, 1927: 830. NZ (NZ); NZ (Auckland Is, Campbell I).
nigra Marshall, 1896*b*: 286. NZ (NZ).
obliqua Edwards *in* Tonnoir & Edwards, 1927: 831. NZ (NZ).
obscura Tonnoir *in* Tonnoir & Edwards, 1927: 832. NZ (NZ).
proxima Tonnoir *in* Tonnoir & Edwards, 1927: 831. NZ (NZ).
rufipes Tonnoir *in* Tonnoir & Edwards, 1927: 833. NZ (NZ); NZ (Auckland Is, Campbell I).
spinipes Edwards *in* Tonnoir & Edwards, 1927: 830. NZ (NZ).
tonnoiri Matile, *n. n.* NZ (NZ).
distincta Tonnoir *in* Tonnoir & Edwards, 1927: 832. NZ (NZ). [Preocc. Winnertz, 1846.]
ultima Tonnoir *in* Tonnoir & Edwards, 1927: 833. NZ (NZ)
venusta Tonnoir *in* Tonnoir & Edwards, 1927: 831. NZ (NZ)

Genus TRICHOTERGA Tonnoir & Edwards

- TRICHOTERGA** Tonnoir & Edwards, 1927: 827. Type species: *Trichoterga monticola* Tonnoir *in* Tonnoir & Edwards, 1927, orig. des.
monticola Tonnoir *in* Tonnoir & Edwards, 1927: 827. NZ (NZ).
 ssp. **incisurata** Edwards *in* Tonnoir & Edwards, 1927: 828 (*monticola* var.). NZ (NZ). *N. stat.*
 ssp. **monticola** s.str. NZ (NZ).

Unplaced species of Leinae

- fulva** Walker, 1856*d*: 416 (*Leia*). Australia (Tas).

Subfamily MANOTINAE

Genus MANOTA Williston

- MANOTA** Williston, 1896*b*: 260. Type species: *Manota defecta* Williston, 1896, mon.
hanulata Colless, 1966: 656. Belau.
maorica Edwards *in* Tonnoir & Edwards, 1927: 801. NZ (NZ).
pacifica Edwards, 1928*c*: 30. Western Samoa.

Subfamily MYCETOPHILINAE

Tribe EXECHIINI

Genus ALLODIA Winnertz

- ALLODIA** Winnertz, 1863: 826. Type species: *Mycetophila ormaticollis* Meigen, 1818 [= *Mycetophila lugens* Wiedemann, 1817], des. Johannsen, 1909: 104.
antennata Harrison, 1964: 304. NZ (Campbell I); NZ (Auckland Is).
brunnea Harrison, 1964: 306. NZ (Campbell I).
sabroskyi Colless, 1966: 659. Belau.

Genus ANATELLA Winnertz

- ANATELLA** Winnertz, 1863: 854. Type species: *Anatella gibba* Winnertz, 1863, des. Johannsen, 1909: 101.
 Unidentified sp. — New Caledonia (New Caledonia).

Genus BREVICORNU Marshall

- BREVICORNU** Marshall, 1896b: 307. Type species: *Brevicornu flavum* Marshall, 1896, des. Tuomikoski, 1966a: 184.
flavum Marshall, 1896b: 307. NZ (NZ).
fragile Marshall, 1896b: 308. NZ (NZ).
maculatum Tonnoir in Tonnoir & Edwards, 1927: 834 (*Allodia*). NZ (NZ). **N. comb.**
quadriseta Edwards in Tonnoir & Edwards, 1927: 835 (*Allodia*). NZ (NZ). **N. comb.**
rufithorax Tonnoir in Tonnoir & Edwards, 1927: 834 (*Allodia*). NZ (NZ). **N. comb.**

Genus EXECHIA Winnertz

- EXECHIA** Winnertz, 1863: 879. Type species: *Tipula fungorum* De Geer, 1776 [= *Mycetophila fusca* Meigen, 1804], des. Johannsen, 1909: 106.
BRACHYDICRANIA Skuse, 1888c: 1215. Type species: *Brachydicrania fumosa* Skuse, 1888, **pres. des.**
abbreviata Skuse, 1888c: 1219 (*Brachydicrania*). Australia (NSW). **N. comb.**
biseta Edwards in Tonnoir & Edwards, 1927: 837. NZ (NZ).
fascipennis Skuse, 1890d: 628 (*Brachydicrania*). Australia (NSW). **N. comb.**
filata Edwards in Tonnoir & Edwards, 1927: 836. NZ (NZ).
fumosa Skuse, 1888c: 1218 (*Brachydicrania*). Australia (NSW). **N. comb.**
hiemalis Marshall, 1896b: 300 (*Brachydicrania*). NZ (NZ); NZ (Auckland Is, Campbell I).
howesi Edwards in Tonnoir & Edwards, 1927: 836. NZ (NZ).
lutacea Edwards, 1928c: 31. Western Samoa.
novaezealandiae Tonnoir in Tonnoir & Edwards, 1927: 836. NZ (NZ).
pictiventris Skuse, 1888c: 1217 (*Brachydicrania*). Australia (NSW). **N. comb.**
pullicauda Skuse, 1888c: 1216 (*Brachydicrania*). Australia (NSW). **N. comb.**
snyderi Colless, 1966: 657. Bonin Is.
thomsoni Miller, 1918: 4. NZ (NZ).

Genus SYNPLASTA Skuse

- SYNPLASTA** Skuse, 1890d: 629. Type species: *Synplasta annuliventris* Skuse, 1890, mon.
ALLODIOPSIS Tuomikoski, 1966a: 171. Type species: *Rymosia rustica* Edwards, 1941, orig. des.
annuliventris Skuse, 1890d: 630. Australia (NSW).
sydneyensis Skuse, 1890d: 627 (*Dynatosoma*). Australia (NSW).

Tribe MYCETOPHILINI**Genus ASPIDIONIA Colless**

- ASPIDIONIA** Colless, 1966: 664. Type species: *Aspidionia palauensis* Colless, 1966, orig. des.
palauensis Colless, 1966: 664. Belau.

Genus EPICYPTA Winnertz

- EPICYPTA** Winnertz, 1863: 909. Type species: *Mycetophila scatophora* Perris, 1849, des. Johannsen, 1909: 110.
DELOPSIS Skuse, 1890d: 623. Type species: *Delopsis flavipennis* Skuse, 1890, mon.
angusticollaris Edwards, 1929h: 74 (*Delopsis*). Vanuatu; Philippines.
boninensis Colless, 1966: 664. Bonin Is.
buxtoni Edwards, 1928c: 32 (*Delopsis*). Western Samoa; Indonesia (Sumatra).
flavipennis Skuse, 1890d: 624 (*Delopsis*). Australia (NSW). **N. comb.**
greenwoodi Edwards, 1924f: 570 (*Delopsis*). Fiji. **N. comb.**
palauensis Colless, 1966: 662. Belau.

palauensis Colless, 1966: 662. Belau.
scutellaris Edwards, 1928c: 33 (*Delopsis*). Western Samoa. **N. comb.**

Genus MYCETOPHILA Meigen

MYCETOPHILA Meigen, 1803: 263. Type species: *Tipula agarici* Villers, 1789, des. Johannsen, 1909: 110.

- aequalis* Walker, 1856d: 415. Australia (Tas).
campbellensis Harrison, 1964: 307. NZ (Campbell I); NZ (Auckland Is).
clara Tonnoir *in* Tonnoir & Edwards, 1927: 855. NZ (NZ).
colorata Tonnoir *in* Tonnoir & Edwards, 1927: 854. NZ (NZ).
conica Tonnoir *in* Tonnoir & Edwards, 1927: 845. NZ (NZ).
consobrina Tonnoir *in* Tonnoir & Edwards, 1927: 845. NZ (NZ).
crassitarsis Edwards *in* Tonnoir & Edwards, 1927: 853. NZ (NZ).
curtisi Edwards *in* Tonnoir & Edwards, 1927: 841. NZ (NZ).
diffusa Tonnoir *in* Tonnoir & Edwards, 1927: 849. NZ (NZ).
dilatata Tonnoir *in* Tonnoir & Edwards, 1927: 854. NZ (NZ).
elegans Tonnoir *in* Tonnoir & Edwards, 1927: 842. NZ (NZ).
elongata Tonnoir *in* Tonnoir & Edwards, 1927: 845. NZ (NZ).
fagi Marshall, 1896b: 303. NZ (NZ).
 variabilis Marshall, 1896b: 304. NZ (NZ).
 robusta Marshall, 1896b: 305. NZ (NZ).
filicornis Tonnoir *in* Tonnoir & Edwards, 1927: 857. NZ (NZ).
fumosa Tonnoir *in* Tonnoir & Edwards, 1927: 852. NZ (NZ); NZ (Auckland Is).
furtiva Tonnoir *in* Tonnoir & Edwards, 1927: 857. NZ (NZ).
grandis Tonnoir *in* Tonnoir & Edwards, 1927: 851. NZ (NZ).
griseofusca Tonnoir *in* Tonnoir & Edwards, 1927: 852. NZ (NZ).
 ssp. *griseofusca* s.str. NZ (NZ).
 ssp. *nigriclava* Tonnoir *in* Tonnoir & Edwards, 1927: 852 (*griseofusca* var.). NZ (NZ). **N. stat.**
griseocens Edwards *in* Tonnoir & Edwards, 1927: 850. NZ (NZ).
harrisi Edwards *in* Tonnoir & Edwards, 1927: 859. NZ (NZ).
impunctata Edwards *in* Tonnoir & Edwards, 1927: 856. NZ (NZ).
integra Tonnoir *in* Tonnoir & Edwards, 1927: 858. NZ (NZ).
intermedia Edwards *in* Tonnoir & Edwards, 1927: 860. NZ (NZ).
latifascia Edwards *in* Tonnoir & Edwards, 1927: 843. NZ (NZ).
lomodensis Edwards *in* Tonnoir & Edwards, 1927: 850. NZ (NZ).
luteolateralis Edwards *in* Tonnoir & Edwards, 1927: 853. NZ (NZ).
marginepunctata Tonnoir *in* Tonnoir & Edwards, 1927: 847. NZ (NZ); NZ (Auckland Is).
 ssp. *marginepunctata* s.str. NZ (NZ); NZ (Auckland Is).
 ssp. *rotundipennis* Tonnoir *in* Tonnoir & Edwards, 1927: 847 (*marginepunctata* var.). NZ (NZ).
 N. stat.
 ssp. *ruapehensis* Tonnoir *in* Tonnoir & Edwards, 1927: 847 (*marginepunctata* var.). NZ (NZ). **N. stat.**
marshalli Enderlein, 1910a: 174 (n. n. for *maculata* Marshall). NZ (NZ).
 maculata Marshall, 1896b: 306. NZ (NZ). [Preocc. Macquart, 1834.]
media Tonnoir *in* Tonnoir & Edwards, 1927: 858. NZ (NZ).
minima Edwards *in* Tonnoir & Edwards, 1927: 846. NZ (NZ).
nigricans Tonnoir *in* Tonnoir & Edwards, 1927: 850. NZ (NZ).
nigripalpis Edwards *in* Tonnoir & Edwards, 1927: 848. NZ (NZ).
nigriventris Skuse, 1890d: 622. Australia (NSW).
nitens Tonnoir *in* Tonnoir & Edwards, 1927: 847. NZ (NZ).
nitidula Tonnoir *in* Tonnoir & Edwards, 1927: 848. NZ (NZ).
ornatissima Tonnoir *in* Tonnoir & Edwards, 1927: 841. NZ (NZ).
phyllura Edwards *in* Tonnoir & Edwards, 1927: 849. NZ (NZ).

- propria** Skuse, 1888c: 1213. Australia (NSW).
pseudommarshalli Tonnoir *in* Tonnoir & Edwards, 1927: 846. NZ (NZ).
solitaria Tonnoir *in* Tonnoir & Edwards, 1927: 855. NZ (NZ).
spinigera Tonnoir *in* Tonnoir & Edwards, 1927: 859. NZ (NZ).
submarshalli Tonnoir *in* Tonnoir & Edwards, 1927: 846. NZ (NZ).
subnitens Edwards *in* Tonnoir & Edwards, 1927: 848. NZ (NZ).
subspinigera Tonnoir *in* Tonnoir & Edwards, 1927: 851. NZ (NZ).
subtenebrosa Tonnoir *in* Tonnoir & Edwards, 1927: 859. NZ (NZ).
subtillis Tonnoir *in* Tonnoir & Edwards, 1927: 849. NZ (NZ).
sylvatica Marshall, 1896b: 301. NZ (NZ).
tapleyi Edwards *in* Tonnoir & Edwards, 1927: 854. NZ (NZ).
tenebrosa Edwards *in* Tonnoir & Edwards, 1927: 860. NZ (NZ).
tonnoiri Matile, n. n. NZ (NZ).
similis Tonnoir *in* Tonnoir & Edwards, 1927: 842. NZ (NZ). [Preocc. Santos Abreu, 1920.]
trispinosa Tonnoir *in* Tonnoir & Edwards, 1927: 844. NZ (NZ).
unispinosa Tonnoir *in* Tonnoir & Edwards, 1927: 856. NZ (NZ).
virgata Tonnoir *in* Tonnoir & Edwards, 1927: 843. NZ (NZ).
viridis Edwards *in* Tonnoir & Edwards, 1927: 852. NZ (NZ).
vulgaris Tonnoir *in* Tonnoir & Edwards, 1927: 844. NZ (NZ).

Genus PHRONIA Winnertz

- PHRONIA** Winnertz, 1863: 857. Type species: *Phronia rustica* Winnertz, 1863 [= *Mycetophila exigua* Zetterstedt, 1852], des. Johannsen, 1909: 96.
boninensis Colless, 1966: 660. Bonin Is.

Genus PLATUROCYPTA Enderlein

- PLATUROCYPTA** Enderlein, 1910b: 76. Type species: *Platurocypta limbatifemur* Enderlein, 1910, orig. des.
dilatata Tonnoir *in* Tonnoir & Edwards, 1927: 861 (*Epicypa*). NZ (NZ). **N. comb.**
immaculata Tonnoir *in* Tonnoir & Edwards, 1927: 860 (*Epicypa*). NZ (NZ). **N. comb.**

Genus PSEUDALYSIINIA Tonnoir

- PSEUDALYSIINIA** Tonnoir, 1929b: 608. Type species: *Pseudalysiinia mimicans* Tonnoir, 1929, orig. des.
mimicans Tonnoir, 1929b: 609. Australia (Tas).

Genus SCEPTONIA Winnertz

- SCEPTONIA** Winnertz, 1863: 907. Type species: *Mycetophila nigra* Meigen, 1804, des. Johannsen, 1909: 113.
ornatithorax Skuse, 1890d: 621. Australia (NSW).

Genus TRICHONTA Winnertz

- TRICHONTA** Winnertz, 1863: 847. Type species: *Mycetophila melanura* Staeger, 1840, des. Johannsen, 1909: 94.
illaetabilis Skuse, 1888c: 1210. Australia (NSW).
vegeta Skuse, 1888c: 1209. Australia (NSW).

Genus ZYGOMYIA Wintterz

ZYGOMYIA Wintterz, 1863: 901. Type species: *Mycetophila vara* Staeger, 1840, des. Johannsen, 1909: 112.

- acuta** Tonnoir *in* Tonnoir & Edwards, 1927: 870. NZ (NZ).
albinotata Tonnoir *in* Tonnoir & Edwards, 1927: 870. NZ (NZ).
apicalis Tonnoir *in* Tonnoir & Edwards, 1927: 866. NZ (NZ).
bifasciola Matile, n. n. NZ (NZ).
bifasciata Tonnoir *in* Tonnoir & Edwards, 1927: 863. NZ (NZ). [Preocc. Garrett, 1925.]
bivittata Tonnoir *in* Tonnoir & Edwards, 1927: 864. NZ (NZ).
brunnea Tonnoir *in* Tonnoir & Edwards, 1927: 866. NZ (NZ).
costata Tonnoir *in* Tonnoir & Edwards, 1927: 865. NZ (NZ).
crassicauda Tonnoir *in* Tonnoir & Edwards, 1927: 867. NZ (NZ).
crassipyga Tonnoir *in* Tonnoir & Edwards, 1927: 868. NZ (NZ).
distincta Tonnoir *in* Tonnoir & Edwards, 1927: 872. NZ (NZ).
eluta Edwards *in* Tonnoir & Edwards, 1927: 871. NZ (NZ).
flavicoxa Marshall, 1896b: 297. NZ (NZ).
grisescens Tonnoir *in* Tonnoir & Edwards, 1927: 865. NZ (NZ).
guttata Tonnoir *in* Tonnoir & Edwards, 1927: 868. NZ (NZ).
humeralis Tonnoir *in* Tonnoir & Edwards, 1927: 869. NZ (NZ).
immaculata Tonnoir *in* Tonnoir & Edwards, 1927: 863. NZ (NZ).
longicauda Tonnoir *in* Tonnoir & Edwards, 1927: 867. NZ (NZ).
marginata Tonnoir *in* Tonnoir & Edwards, 1927: 869. NZ (NZ); NZ (Auckland Is).
nigrita Tonnoir *in* Tonnoir & Edwards, 1927: 871. NZ (NZ).
nigriventris Tonnoir *in* Tonnoir & Edwards, 1927: 866. NZ (NZ).
nigrohalterata Tonnoir *in* Tonnoir & Edwards, 1927: 865. NZ (NZ).
obsoleta Tonnoir *in* Tonnoir & Edwards, 1927: 864. NZ (NZ).
penicillata Edwards *in* Tonnoir & Edwards, 1927: 872. NZ (NZ).
ruficollis Tonnoir *in* Tonnoir & Edwards, 1927: 866. NZ (NZ).
rufithorax Tonnoir *in* Tonnoir & Edwards, 1927: 867. NZ (NZ).
similis Tonnoir *in* Tonnoir & Edwards, 1927: 863. NZ (NZ); NZ (Campbell I).
submarginata Harrison, 1955: 212. NZ (Campbell I); NZ (NZ).
trifasciata Tonnoir *in* Tonnoir & Edwards, 1927: 871. NZ (NZ); NZ (Auckland Is).
unispinosa Tonnoir *in* Tonnoir & Edwards, 1927: 870. NZ (NZ).
varipes Edwards *in* Tonnoir & Edwards, 1927: 868. NZ (NZ).

Genus ZYGOPHRONIA Edwards

ZYGOPHRONIA Edwards, 1928c: 31. Type species: *Zygophronia pusilla* Edwards, 1928, mon.
pusilla Edwards, 1928c: 31. Western Samoa.