

12. Family CECIDOMYIIDAE

By Raymond J. Gagné

The Cecidomyiidae, with over 4,600 currently recognized valid species in the world, is represented in the Australasian/Oceanian Regions by only 208 described species. Of that number, 72 species cannot be assigned to genus and are listed here as generically unplaced species. Probably only 61 of the 208 species are correctly assigned to genus. In this catalog, most species have been retained in their original generic or subgeneric combinations (with subgenera raised to generic rank) if nothing in their original description precludes their presence in those genera. Few species listed here under *Porricondyla*, for example, may remain in that genus when the species are revised, but all species described in *Cecidomyia* (or its junior synonym *Diplosis*) are placed elsewhere now that *Cecidomyia* is restricted to a Holarctic group of species that feed on Pinaceae (Gagné 1978). Over half of the cecidomyiids in this catalog (104) were described by Skuse (1888a, 1890c) and another 24 by Marshall (1896a). The majority were caught in flight and described from single specimens. Most of the Skuse types are in the Australian National Insect Collection, CSIRO, Canberra (Colless, pers. comm.), but Marshall's types are lost (Miller 1950).

Cecidomyiidae are most often divided into 3 subfamilies, Lestremiinae, Porricondylinae, and Cecidomyiinae. The first 2 are relatively species-poor, each with ca. 10% of the total known species. Their mycophagous larvae live in decaying organic matter. The genera are relatively old and widespread and the species are relatively easy to separate. Fossils of these subfamilies are known from Lebanese and Canadian Cretaceous amber. The Lestremiinae of these regions include several species that may be immigrants. Known Porricondylinae from the regions include the paedogenetic Heteropezini and the elegantly marked species of *Chastomera*. *Asynafta* spp., as well as *Camptomyia* Kieffer spp. (the latter not yet reported from these regions), are the sole porricondylines known to feed in association with living plant tissue, although they may be actually feeding only on necrotic tissue.

Cecidomyiinae, the largest subfamily, shares a derived leg character with the Porricondylinae. The 1st tarsal segment of each leg is much shorter than the 2nd and the connection between the two is easily broken. This may be an adaptation for roosting on spider webs. Skuse (1888a) discovered several of his species on spider webs, a habit first noted by Winnertz (1853) and remarked upon many times since. Many Porricondylinae and many of the nonphytophagous Cecidomyiinae roost on spider webs. Plant-feeding gall midges have apparently lost this habit and are not found on spider webs, presumably because of their ephemeral adult lives.

Cecidomyiinae comprise all the phytophagous forms of the family, many that are primitively mycophagous, and those that are predaceous. This subfamily is made up of 2 supertribes, Lasiopteridi and Cecidomyiidi. The Asphondyliini, until recently considered a supertribe, is treated here as a tribe of Cecidomyiidi to reflect its close relationship to the plant-feeding members of the supertribe Cecidomyiidi (Gagné 1986b).

Among primitive, mycophagous members of the Lasiopteridi of these regions are 2 tribes, Brachineurini and Ledomyiini. The Lasiopterini of these regions include only *Lasioptera* spp. Most of these live in woody stem galls. The remainder of the supertribe are provisionally placed in the tribe Oligotrophini. These include various gallmakers and some that are phytophagous but do not make galls. *Dasineura* is a very large, cosmopolitan genus that includes 4 plant pests introduced into these regions. *Rhopalomyia* is represented by 2 introduced species: *R. chrysanthemi*, a pest of chrysanthemums, and *R. californica*, purposely introduced into Australia to control alien *Baccharis* (Asteraceae).

The Cecidomyiidi is tentatively arranged here in 2 tribes. The species of Asphondyliini are plant feeders, the genera found essentially worldwide; *Asphondylia* is richest in number of species. The Cecidomyiini is very diverse and includes predators of aphids, coccoids, and other arthropods (e.g., *Aphidoletes*, *Arthrocnodax*, *Coccodiplosis*, *Coc-*

comyza, *Diadiplosis*, *Dicrodiplosis*, possibly *Heterocontarinia*, *Kalodiplosis*, *Lestodiplosis*, and *Trisopsis*). Relatively few phytophagous species of Cecidomyiini are known from these regions (e.g., *Contarinia*, *Proterodiplosis*, *Stephodiplosis*, and *Zeuxidiplosis*), but these should eventually make up the preponderance of species. *Zeuxidiplosis* includes 1 known species, introduced into New Zealand and Australia for the control of a *Hypericum*. The plant-feeding forms of this supertribe are fairly host specific except for some that attack buds and do not cause galls. An example of a generalist is *Con-*

tarinia maculipennis, introduced accidentally into Hawaii and found there in the buds of a large number of plants in several families (Hardy 1960).

Refs.: Barnes (1946-1956, gall midges of econ. import.), Möhn (1955, key Palearctic larvae), Mamaev & Krivosheina (1965, key Palearctic larvae), Panelius (1965, rev. Palearctic Porricondylinae), Wyatt (1967, rev. paedogenetic gen.), Harris (1968, rev. coccoid predators), Mamaev (1968, biol.), Nijveldt (1969, gall midges of econ. import.), Yukawa (1971, rev. Japanese spp.), Gagné (1981, key Nearctic gen.).

Subfamily LESTREMIINAE

Supertribe LESTREMIIDI

Tribe LESTREMIINI

Genus ANARETE Haliday

ANARETE Haliday, 1833: 156. Type species: *Anarete candidata* Haliday, 1833, mon.
johnsoni Felt, 1908: 310 (*Microcerata*). USA; Hawaiian Is [possible immigrant]; Japan, Europe, N. Am.
pallida Edwards, 1928c: 39. Western Samoa.

Genus ANARETELLA Enderlein

ANARETELLA Enderlein, 1911c: 193 (*Lestremia* subg.). Type species: *Lestremia defecta* Winnertz, 1870, orig. des.
nitida Edwards, 1928c: 39 (*Lestremia*). Western Samoa. **N. comb.**

Genus LESTREMIA Macquart

LESTREMIA Macquart, 1826a: 173. Type species: *Lestremia cinerea* Macquart, 1826, mon.
cinerea Macquart, 1826a: 173. France; Hawaiian Is [possible immigrant]; Israel, Japan, Europe, N. Am.
clivicola Hardy, 1960: 249. Hawaiian Is.
leucophaea Meigen, 1818: 288 (*Sciara*). Not given [Germany]; ?Australia, Hawaiian Is, ?NZ [possible immigrant]; Japan, Europe, N. Am.
novaezealandiae Marshall, 1896a: 247. NZ (NZ).
palikuensis Hardy, 1960: 252. Hawaiian Is.
remota Hutton, 1902b: 192 (*Trichosia*). NZ (NZ).
sydneyensis Skuse, 1890c: 389. Australia (NSW).

Supertribe MICROMYIDI

Tribe CAMPYLOMYZINI

Genus CAMPYLOMYZA Meigen

CAMPYLOMYZA Meigen, 1818: 101. Type species: *Campylomyza flavipes* Meigen, 1818, des.
Westwood, 1840: 126.

- aeratipennis** Skuse, 1888a: 135. Australia (NSW).
amplipennis Skuse, 1888a: 142. Australia (NSW).
crocea Skuse, 1888a: 136. Australia (NSW).
grandiuscula Skuse, 1890c: 388. Australia (NSW).
hirta Marshall, 1896a: 244. NZ (NZ).
impexa Skuse, 1888a: 139. Australia (NSW).
lincolniensis Marshall, 1896a: 243. NZ (NZ).
magna Marshall, 1896a: 245. NZ (NZ).
minuta Marshall, 1896a: 243. NZ (NZ).
nitida Marshall, 1896a: 244. NZ (NZ).
ordinaria Marshall, 1896a: 247. NZ (NZ).
pellax Skuse, 1888a: 140. Australia (NSW).
perpallida Skuse, 1888a: 134. Australia (NSW).
persimilis Skuse, 1888a: 136. Australia (NSW).
robusta Marshall, 1896a: 246. NZ (NZ).
squamata Marshall, 1896a: 245. NZ (NZ).
subtilis Skuse, 1888a: 137. Australia (NSW).
tenuis Marshall, 1896a: 242. NZ (NZ).
sidneyensis Schiner, 1868: 9. Australia (NSW).
sydneyensis, error for *sidneyensis*.
vicina Skuse, 1888a: 138. Australia (NSW).

Genus **CORDYLOMYIA** Felt

- CORDYLOMYIA** Felt, 1911: 35. Type species: *Cordylomyia coprophila* Felt, 1911 [= *Campylomyza texana* Felt, 1908], orig. des.
gressitti Yukawa, 1964: 300. NZ (Campbell I).

Tribe **MICROMYINI**

Genus **MONARDIA** Kieffer

- MONARDIA** Kieffer, 1895f: 111. Type species: *Monardia stirpium* Kieffer, 1895, mon.
recondita Hardy, 1960: 254. Hawaiian Is.

Genus **MYCOPHILA** Felt

- MYCOPHILA** Felt, 1911: 33. Type species: *Mycophila fungicola* Felt, 1911, orig. des.
barnesi Edwards, 1938: 254. England; Australia (NSW) [possible immigrant]; USA.
fungicola Felt, 1911: 33. USA; Hawaiian Is [possible immigrant].

Unplaced genus of **Lestremiinae**

Genus **IPOMYIA** Colless

- IPOMYIA** Colless, 1965b: 145. Type species: *Ipomyia bornemisszai* Colless, 1965, mon.
bornemisszai Colless, 1965b: 145. Australia (WA).

Subfamily PORRICONDYLINAE

Tribe ASYNAPTINI

Genus ASYNAPTA Loew

ASYNAPTA Loew, 1850a: 21 (*Cecidomyia* subg.). Type species: *Cecidomyia longicollis* Loew, 1850, des. Karsch, 1877: 14 [1878: 14].
flammula Skuse, 1888a: 124 (*Cecidomyia*). Australia (NSW). N. comb.

Tribe DIALLACTINI

Genus HAPLUSIA Karsch

HAPLUSIA Karsch, 1877: 15 [1878: 15]. Type species: *Haplusia plumipes* Karsch, 1877, orig. des. **CHASTOMERA** Skuse, 1888a: 112 (*Cecidomyia* subg.). Type species: *Cecidomyia bella* Skuse, 1888, mon. **JOHNSONOMYIA** Felt, 1908: 417. Type species: *Johnsonomyia rubra* Felt, 1908, orig. des. **bella** Skuse, 1888a: 112 (*Cecidomyia*). Australia (NSW).

Tribe LEPTOSYNINI

Genus HETEROPEZA Winnertz

HETEROPEZA Winnertz, 1846: 13. Type species: *Heteropeza pygmaea* Winnertz, 1846, mon. **OLIGARCES** Meinert, 1865: 237. Type species: *Oligarces paradoxus* Meinert, 1865 [= *Heteropeza pygmaea* Winnertz, 1846], mon. **pygmaea** Winnertz, 1846: 14. Not given [Germany]; Australia (Qld) [possible immigrant]; Israel, USA, Europe. **transmarina** Schiner, 1868: 5 (*Heteropeza*). Australia (NSW). **ulmi** Felt— not Australasian/Oceanian.

Genus MIASTOR Meinert

MIASTOR Meinert, 1864: 42. Type species: *Miastor metroloas* Meinert, 1864, mon. **agricolae** Marshall, 1896a: 232. NZ (NZ). **difficilis** Marshall, 1896a: 233. NZ (NZ). **mastersi** Skuse, 1888a: 59. Australia (NSW). **procax** Skuse, 1888a: 58. Australia (NSW).

Tribe PORRICONDYLINI

Genus COLPODIA Winnertz

COLPODIA Winnertz, 1853: 293 (*Cecidomyia* subg.). Type species: *Cecidomyia angustipennis* Winnertz, 1853, mon. **indubitata** Skuse, 1888a: 114 (*Cecidomyia*). Australia (NSW). N. comb.

Genus HOLONEURUS Kieffer

HOLONEURA Kieffer, 1894b: 84. Type species: *Holoneura cincta* Kieffer, 1894, des. Kieffer, 1894c: 316. [Preocc. Tetens, 1891.] **HOLONEURUS** Kieffer, 1895c: 115 (n. n. for *Holoneura*). **aliculatus** Yukawa, 1964: 302. NZ (Campbell I).

Genus PORRICONDYLA Rondani

- PORRICONDYLA** Rondani, 1840b: 13 (*Cecidomyia* subg.). Type species: *Cecidomyia albitarsis* Meigen, 1830 [misid., = *Cecidomyia nigripennis* Meigen, 1830], mon.
- EPIDOSIS* Loew, 1850a: 21,38 (*Cecidomyia* subg.). Type species: *Cecidomyia fragilis* Loew, 1850, des. Brunetti, 1920: 17.
- PHAENEPIDOSIS* Kieffer, 1913f: 273. Type species: *Epidosis abbreviata* Kieffer, 1913, orig. des.
- agricolae** Marshall, 1896a: 240 (*Cecidomyia*). NZ (NZ).
- aurea** Marshall, 1896a: 241 (*Cecidomyia*). NZ (NZ).
- auriculata** Barnes, 1928: 107 (*Phaenepidosis*). Western Samoa. **N. comb.**
- conferta** Skuse, 1888a: 118 (*Cecidomyia*). Australia (NSW). **N. comb.**
- distenta** Skuse, 1888a: 115 (*Cecidomyia*). Australia (NSW). **N. comb.**
- exigua** Skuse, 1888a: 122 (*Cecidomyia*). Australia (NSW). **N. comb.**
- exilis** Gagné, **n. n.** Australia (NSW).
- gracilis* Skuse, 1888a: 117 (*Cecidomyia*). Australia (NSW). **N. comb.** [Preocc. Winnertz, 1853.]
- gibberosa** Skuse, 1888a: 123 (*Cecidomyia*). Australia (NSW). **N. comb.**
- grandipennis** Skuse, 1890c: 384 (*Cecidomyia*). Australia (NSW). **N. comb.**
- macella** Skuse, 1888a: 121 (*Cecidomyia*). Australia (NSW). **N. comb.**
- magna** Marshall, 1896a: 239 (*Cecidomyia*). NZ (NZ).
- magnifica** Skuse, 1888a: 116 (*Cecidomyia*). Australia (NSW). **N. comb.**
- opipara** Skuse, 1888a: 118 (*Cecidomyia*). Australia (NSW). **N. comb.**
- ordinaria** Marshall, 1896a: 241 (*Cecidomyia*). NZ (NZ).
- pallidina** Gagné, **n. n.** Australia (NSW).
- pallida* Skuse, 1888a: 120 (*Cecidomyia*). Australia (NSW). **N. comb.** [Preocc. Meigen, 1830.]
- perexilis** Skuse, 1888a: 119 (*Cecidomyia*). Australia (NSW). **N. comb.**

Unplaced species of Porricondylinae

- parietina** Skuse, 1888a: 125 (*Cecidomyia*). Australia (NSW).
- prisca** Skuse, 1888a: 125 (*Cecidomyia*). Australia (NSW).

Subfamily CECIDOMYIINAE**Supertribe LASIOPTERIDI****Tribe BRACHINEURINI****Genus BRACHINEURA Rondani**

- BRACHINEURA** Rondani, 1840b: 16. Type species: *Brachineura fuscogrisea* Rondani, 1840, mon.
- BRACHYNEURA* Agassiz, 1846: 5 (unjust. emend. of *Brachineura*).
- BRACHYNEVRA* Agassiz, 1847: 51 (unjust. emend. of *Brachineura*).
- SPANIOCERA* Winnertz, 1853: 190. Type species: *Spaniocera squamigera* Winnertz, 1853, mon.
- australis** Skuse, 1890c: 385 (*Spaniocera*). Australia (NSW). **N. comb.**
- eupatorii** Felt, 1908: 317. USA; ?Hawaiian Is [possible immigrant].

Tribe LASIOPTERINI**Genus LASIOPTERA Meigen**

- LASIOPTERA** Meigen, 1818: 88. Type species: *Lasioptera picta* Meigen, 1818 [= *Tipula rubi* Schrank, 1803], des. Karsch, 1877: 14 [1878: 14]. [Validated by I.C.Z.N., 1970: 95.]
- DIOMYZA* Meigen, 1818: 88. Type species: *Lasioptera picta* Meigen, 1818 [= *Tipula rubi* Schrank, 1803], des. Coquillett, 1910: 533.

aurata Skuse, 1888a: 129. Australia (NSW).
corusca Skuse, 1888a: 131. Australia (NSW).
helvipes Skuse, 1888a: 132. Australia (NSW).
mastersi Skuse, 1888a: 127. Australia (NSW).
miscella Skuse, 1888a: 131. Australia (NSW).
nodosae Skuse, 1888a: 130. Australia (NSW).
vastatrix Skuse, 1888a: 128. Australia (NSW).
virgata Skuse, 1890c: 386. Australia (NSW).
wildi Skuse, 1890c: 387. Australia (NSW).

Tribe LEDOMYIINI

Genus LEDOMYIA Kieffer

LEPIDOMYIA Kieffer, 1894d: 201. Type species: *Lepidomyia lugens* Kieffer, 1894, mon. [Preocc. Loew, 1864.]
LEDOMYIA Kieffer, 1895g: cccxx (n. n. for *Lepidomyia*).
PHAENOLAUTHIA Kieffer, 1912b: 2. Type species: *Ledomyia obscuripennis* Kieffer, 1904, orig. des. Unidentified sp. – Hawaiian Is (Hardy, 1960: 277).

Tribe OLIGOTROPHINI

Genus CYSTIPHORA Kieffer

CYSTIPHORA Kieffer, 1892: 212. Type species: *Cecidomyia hieracii* Löw, 1874 [= *Cecidomyia sanguinea* Bremi, 1847], des. Rübsaamen, 1910: 337.
LAUBERTIA Rübsaamen, 1914: 94. Type species: *Laubertia schmidti* Rübsaamen, 1914, mon.
schmidti Rübsaamen, 1914: 94 (*Laubertia*). Poland; Australia (NSW, Vic) [introduced]; W N. Am. [introduced].

Genus DASINEURA Rondani

DASINEURA Rondani, 1840b: 12, 17. Type species: *Dasineura obscura* Rondani, 1840, subs. mon. Rondani, 1856: 200.
DASYNEURA Agassiz, 1846: 11 (unjust. emend. of *Dasineura*).
DASYNEVRA Agassiz, 1847: 117 (unjust. emend. of *Dasineura*).
alopecuri Reuter, 1895: 1 (*Oligotrophus*). Finland; NZ (NZ) [immigrant]; Canada [immigrant], Europe.
hebefolia Lamb, 1951: 210. NZ (NZ).
mali Kieffer, 1904a: 345 (*Perrisia*). France; NZ (NZ) [immigrant]; Europe, N. Am. [immigrant].
mangiferae Felt, 1927: 1. India; Hawaiian Is [immigrant].
pyri Bouché, 1847: 144 (*Cecidomyia*). Not given [Poland]; NZ (NZ) [immigrant]; Europe, N. Am. [immigrant].

Genus DRYOMYIA Kieffer

DRYOMYIA Kieffer, 1898b: 17. Type species: *Cecidomyia circinans* Giraud 1861, des. Sharp, 1901: 296.
shawiae Anderson, 1935b: 422. NZ (NZ).

Genus MAYETIOLA Kieffer

MAYETIA Kieffer, 1896a: 5. Type species: *Cecidomyia destructor* Say, 1817, orig. des. [Preocc. Mulsant & Rey, 1875.]
MAYETIOLA Kieffer, 1896b: 89 (n. n. for *Mayetia*).
POOMYIA Rübsaamen, 1910: 337. Type species: *Cecidomyia destructor* Say, 1817, orig. des.

destructor Say, 1817: 45 (*Cecidomyia*). USA; Australia [immigrant], NZ (NZ) [immigrant]; Middle East, N. Africa.

Genus OLIGOTROPHUS Latreille

OLIGOTROPHUS Latreille, 1805: 288. Type species: *Tipula juniperinus* Linnaeus, 1758, mon. **coprosmae** Barnes & Lamb, 1954: 815. NZ (NZ).

Genus RHOPALOMYIA Rübsaamen

RHOPALOMYIA Rübsaamen, 1892: 370. Type species: *Oligotrophus tanaceticola* Karsch, 1879, des. Kieffer, 1896c: 89.

DIARTHROMYIA Felt, 1908: 339. Type species: *Diarthromyia artemisiae* Felt, 1908 [= *Rhopalomyia pomum* Gagné, 1975], orig. des.

californica Felt, 1908: 364. USA; Australia [introduced].

chrysanthemum Ahlberg, 1939: 276. Not given [Europe]; Hawaiian Is [immigrant], NZ (NZ) [immigrant]; E Asia, N. Am. [immigrant].

hypogaea, Felt, 1916, not Loew, 1885, misid.

Unplaced species of Oligotrophini

acaciaelongifoliae Skuse, 1890c: 374 (*Cecidomyia*). Australia (NSW).

frauenfeldi Schiner, 1868: 7 (*Cecidomyia*). Australia (NSW).

gibbula Skuse, 1888a: 67 (*Cecidomyia*). Australia (NSW).

Unplaced species of Lasiopteridi

baccata Skuse, 1888a: 65 (*Cecidomyia*). Australia (NSW).

kaalae Hardy, 1960: 276 (*Mayetiola*). Hawaiian Is.

nobilis Skuse, 1888a: 66 (*Cecidomyia*). Australia (NSW).

regilla Skuse, 1888a: 64 (*Cecidomyia*). Australia (NSW).

vitulans Skuse, 1888a: 63 (*Cecidomyia*). Australia (NSW).

Supertribe CECIDOMYIIDI

Tribe CECIDOMYIINI

Genus ALLOBREMIA Barnes

ALLOBREMIA Barnes, 1928: 103. Type species: *Allobremia upolui* Barnes, 1928, orig. des. **upolui** Barnes, 1928: 104. Western Samoa.

Genus APHIDOLETES Kieffer

APHIDOLETES Kieffer, 1904b: 384. Type species: *Bremia abietis* Kieffer, 1896, des. Felt, 1911: 53.

PHAENOBREMIA Kieffer, 1912b: 1. Type species: *Bremia urticariae* Kieffer 1895, orig. des.

aphidimyza Rondani, 1847: 443 (*Cecidomyia*). Italy; Hawaiian Is [possible immigrant]; cosmopol.

meridionalis Felt, 1908: 397. USA.

Genus ARTHROCNOX Rübsaamen

ARTHROCNOX Rübsaamen, 1895a: 189. Type species: *Arthrocnodax vitis* Rübsaamen, 1895, des. Coquillett, 1910: 510.

beardsleyi Hardy, 1960: 296 (*Microdiplosis*). Hawaiian Is. **N. comb.**

walkeriana Felt, 1915b: 181. Sri Lanka; Hawaiian Is.

Genus COCCODIPLOSIS de Meijere

COCCODIPLOSIS de Meijere, 1917: 238. Type species: *Coccodiplosis pseudococci* de Meijere, 1917 [= *Diadiplosis smithi* Felt, 1915], mon.

ananasae Hardy, 1960: 283. Hawaiian Is.

smithi Felt, 1915b: 178 (*Diadiplosis*). Philippines; PNG (Bismarck Arch); Indonesia (Java).
pseudococci de Meijere, 1917: 239. Indonesia (Java).

Genus COCCOMYZA Del Guercio

COCCOMYZA Del Guercio, 1918: 264. Type species: *Coccomyza brittini* Del Guercio, 1918, mon.
brittini Del Guercio, 1918: 264. NZ (NZ).

Genus CONTARINIA Rondani

CONTARINIA Rondani, 1861a: 289 (*Cecidomyia* subg.). Type species: *Tipula loti* De Geer, 1776, orig. des.

STENODIPLOSIS Reuter, 1895: 9. Type species: *Stenodiplosis geniculati* Reuter, 1895, mon.

alloteropsidis Harris, 1979: 179. Australia (Qld); Australia (NT).

bothriochloae Harris, 1979: 175. Australia (Qld).

brevipalpis Harris, 1979: 179. Australia (Qld).

dichanthii Harris, 1979: 176. Australia (Qld); Australia (NT).

fimbristylidis Harris, 1979: 180. Australia (NT).

geniculati Reuter, 1895: 10. Finland; NZ (NZ) [immigrant]; Europe, N. Am. [immigrant].

dactylidis Barnes, 1940: 114 (*Stenodiplosis geniculati* var.). NZ (NZ). [Preocc. Loew, 1859.] **N. syn.**

intrans Harris, 1979: 173. Australia (NT).

maculipennis Felt, 1933b: 247. Hawaiian Is.

lycopersici, authors, not Felt, 1911, misid.

solani, authors, not Rübsaamen, 1891, misid.

passlowi Harris, 1979: 178. Australia (Qld); Australia (NT).

plumosi Harris, 1979: 172. Australia (Qld); Australia (NT).

pyrivora Riley, 1886: 283 (*Diplosis*). USA; ?Australia; Japan, Europe, N. Am. [immigrant].

roperi Harris, 1979: 171. Australia (NT).

rugosa Gagné, 1986a: 127. Hawaiian Is [accidentally introduced]; N. Am.

scirpi Harris, 1979: 180. Australia (NT).

sehimae Harris, 1979: 173. Australia (Qld); Australia (NT).

sorghicola Coquillett, 1899a: 82 (*Diplosis*). USA; widesp. Australia, Hawaiian Is; widesp. between latitudes 40° N and S.

tritici Kirby, 1798: 232 (*Tipula*). England; NZ (NZ) [introduced]; Palearctic Reg.

Genus DIADIPLOSIS Felt

DIADIPLOSIS Felt, 1911: 54. Type species: *Diadiplosis cocci* Felt, 1911, orig. des.

duni Harris, 1968: 460 (*Nipponodiplosis*). PNG (Bismarck Arch); Indonesia (Java).

koebelei Koebele, 1893: 38 (*Diplosis*). Australia (NSW) [original type locality], USA [neotype locality; see Gagné & Stein, 1982: 66]; Hawaiian Is, NZ (NZ); USA [introduced].

koebelei Felt, 1932: 167 (*Silvestrina*). USA. [Preocc. Koebele, 1893.]

Genus DICRODIPLOSIS Kieffer

DICRODIPLOSIS Kieffer, 1895b: cxv. Type species: *Dicrodiplosis fasciata* Kieffer, 1895, orig. des.
guatemalensis Felt, 1938: 43. Guatemala; Hawaiian Is [introduced; ?established].

Genus GIARDOMYIA Felt

GIARDOMYIA Felt, 1908: 405. Type species: *Cecidomyia photophila* Felt, 1908, orig. des.
furvescens Hardy, 1960: 287. Hawaiian Is.
pallidithorax Hardy, 1960: 288. Hawaiian Is.

Genus HETEROCONTARINIA Hardy

HETEROCONTARINIA Hardy, 1960: 271. Type species: *Heterocontarinia spinosa* Hardy, 1960, orig. des.
spinosa Hardy, 1960: 271. Hawaiian Is.

Genus KALODIPLOSIS Felt

KALODIPLOSIS Felt, 1915a: 229. Type species: *Dichrodiplosis multifila* Felt, 1908, orig. des.
VINCENTODIPLOSIS Harris, 1968: 473. Type species: *Lobodiplosis coccidarum* Felt, 1911, orig. des.
pseudococci Felt, 1933a: 87 (*Lobodiplosis*). Hawaiian Is [introduced]; Brazil, Guatemala, Honduras, Jamaica, Mexico. **N. comb.**

Genus LESTODIPLOSIS Kieffer

LESTODIPLOSIS Kieffer, 1894a: xxviii [1894b: 84; 1895d: xxviii] (as *Leptodiplosis*). Type species: *Cecidomyia pictipennis* Perris, 1870 [preocc., = *Leptodiplosis septemguttata* Kieffer, 1894], des. Kieffer, 1895a: cclxxx. Spelling of *Lestodiplosis* validated by I.C.Z.N., 1958: 293.
LEPTODIPLOSIS. Incorr. orig. spell. of *Lestodiplosis* (Kieffer, 1894a: xxviii [1895d: xxviii]).
fimicola Hardy, 1960: 291. Hawaiian Is.
obtusilobata Hardy, 1960: 292. Hawaiian Is.

Genus LIEBELIOLA Kieffer & Jörgensen

LIEBELIOLA Kieffer & Jörgensen, 1910: 428. Type species: *Liebeliola prosopidis* Kieffer & Jörgensen, 1910, mon.
bifurcata Barnes, 1928: 106. Western Samoa.

Genus MYCODIPLOSIS Rübsaamen

MYCODIPLOSIS Rübsaamen, 1895b: 186. Type species: *Cecidomyia coniohaga* Winnertz, 1853, orig. des.
pucciniacola Hardy, 1960: 298 (*Nanodiplosis*). Hawaiian Is. **N. comb.**

Genus PARALLELODIPLOSIS Rübsaamen

PARALLELODIPLOSIS Rübsaamen, 1910: 287 (key) [1911: 120]. Type species: *Diplosis galliperda* Löw, 1889, orig. des.
bimaculata Hardy, 1960: 300. Hawaiian Is.
cattleyae Molliard, 1903: 165 (*Cecidomyia*). Brazil; Hawaiian Is [possible immigrant; ?established]; England, France, C. Am., N. Am. [all immigrants; ?established], S. Am.

Genus PROTERODIPLOSIS Wyatt

PROTERODIPLOSIS Wyatt, 1963: 103. Type species: *Proterodiplosis radialis* Wyatt, 1963, orig. des.
radialis Wyatt, 1963: 103. NZ (NZ).

Genus STEPHODIPLOSIS Tavares

STEPHODIPLOSIS Tavares, 1908: 140. Type species: *Stephodiplosis lanneae* Tavares, 1908, mon.

nothofagi Barnes, 1936: 276 (*Stephodiplosis*). NZ (NZ).

Genus TRISOPSIS Kieffer

TRISOPSIS Kieffer, 1912c: 171. Type species: *Trisopsis oleae* Kieffer, 1912, orig. des. *oleae* Kieffer, 1912c: 171. South Africa; ?Hawaiian Is [possible immigrant].

Genus ZEUXIDIPLOSIS Kieffer

ZEUXIDIPLOSIS Kieffer, 1904a: 349. Type species: *Thecodiplosis giardana* Kieffer, 1898 [= *Diplosis giardi* Kieffer, 1896], orig. des. *giardi* Kieffer, 1896c: 383 (*Diplosis*). France; Australia, Hawaiian Is [introduced], NZ (NZ) [introduced]; Canada, USA [both introduced].
giardana Kieffer, 1897: 20 (*Diplosis*; unnec. n. n. for *giardi* Kieffer).

Tribe ASPHONDYLIINI

Genus ASPHONDYLIA Loew

ASPHONDYLIA Loew, 1850a: 20, 37 (*Cecidomyia* subg.). Type species: *Cecidomyia sarothamni* Loew, 1850, des. Karsch, 1877: 15 [1878: 15].
ASPHONDYLA, error for *Asphondylia*.
hilli Edwards, 1916b: 498. Australia (NT).
loewi Skuse, 1888a: 108 (*Cecidomyia*). Australia (NSW). N. comb.
rubicunda Skuse, 1888a: 108 (*Cecidomyia*). Australia (NSW). N. comb.
ulicis Traill, 1873: 172. Scotland; ?NZ (NZ); Europe.

Genus EOCINCTICORNIA Felt

EOCINCTICORNIA Felt, 1915c: 206. Type species: *Eocincticornia australasiae* Felt, 1915, orig. des. *australasiae* Felt, 1915c: 207. Australia (WA).

Genus KIEFFERIA Mik

KIEFFERIA Mik, 1895: 96. Type species: *Asphondylia pimpinellae* Löw, 1874 [= *Cecidomyia pericarpicola* Bremi, 1847], mon.
coprosmae Barnes & Lamb, 1954: 814 (*Kiefferia*). NZ (NZ).

Genus PSEUDASPHONDYLIA Monzen

PSEUDASPHONDYLIA Monzen, 1955: 41. Type species: *Pseudasphondylia rokuharensis* Monzen, 1955, orig. des.
rauwolfiae Coutin, 1980: 501. New Caledonia (New Caledonia).

Unplaced species of Cecidomyiidi

actiosa Skuse, 1888a: 105 (*Cecidomyia*). Australia (NSW).
adusta Skuse, 1888a: 82 (*Cecidomyia*). Australia (NSW).
albulipennis Skuse, 1890c: 378 (*Cecidomyia*). Australia (NSW).
araneosa Skuse, 1888a: 82 (*Cecidomyia*). Australia (NSW).
ardens Skuse, 1888a: 75 (*Cecidomyia*). Australia (NSW).
bellula Skuse, 1888a: 87 (*Cecidomyia*). Australia (NSW).
bombycina Skuse, 1888a: 79 (*Cecidomyia*). Australia (NSW).
brevipennis Skuse, 1888a: 71 (*Cecidomyia*). Australia (NSW).
brevitata Gagné, n. n. (*Cecidomyia*) Australia (NSW).
abbreviata Skuse, 1888a: 75 (*Cecidomyia*). Australia (NSW). [Preocc. Waltl, 1837.]

- caeca** Skuse, 1888a: 76 (*Cecidomyia*). Australia (NSW).
muscorum Skuse, 1890c: 377 (*Cecidomyia*). *Nomen nudum*.
- certa** Skuse, 1888a: 100 (*Cecidomyia*). Australia (NSW).
- cineraria** Skuse, 1888a: 106 (*Cecidomyia*). Australia (NSW).
- condigna** Skuse, 1888a: 85 (*Cecidomyia*). Australia (NSW).
- confinis** Skuse, 1888a: 70 (*Cecidomyia*). Australia (NSW).
- conspecta** Skuse, 1888a: 91 (*Cecidomyia*). Australia (NSW).
- contigua** Skuse, 1888a: 103 (*Cecidomyia*). Australia (NSW).
- dibapha** Skuse, 1888a: 98 (*Cecidomyia*). Australia (NSW).
- difficilis** Skuse, 1888a: 63 (*Cecidomyia*). Australia (NSW).
- discedens** Skuse, 1888a: 93 (*Cecidomyia*). Australia (NSW).
- dubiella** Gagné, n. n. (*Cecidomyia*). NZ (NZ).
dubia Marshall, 1896a: 235 (*Cecidomyia*). NZ (NZ). [Preocc. Kieffer, 1891.]
- erronea** Skuse, 1888a: 94 (*Cecidomyia*). Australia (NSW).
- eucalypti** Skuse, 1890c: 381 (*Cecidomyia*). Australia (NSW).
- faceta** Skuse, 1888a: 81 (*Cecidomyia*). Australia (NSW).
- fallax** Skuse, 1888a: 85 (*Cecidomyia*). Australia (NSW).
- flavella** Kieffer, 1913f: 215 (*Cecidomyia*; n. n. for *flava* Marshall). NZ (NZ).
flava Marshall, 1896a: 239 (*Cecidomyia*). NZ (NZ). [Preocc. Meigen, 1818.]
- fragilina** Gagné, n. n. (*Cecidomyia*). NZ (NZ).
fragilis Marshall, 1896a: 237 (*Cecidomyia*). NZ (NZ). [Preocc. Loew, 1850.]
- frenelae** Skuse, 1890c: 377 (*Cecidomyia*). Australia (NSW).
- frequens** Skuse, 1888a: 99 (*Cecidomyia*). Australia (NSW).
- furva** Skuse, 1888a: 90 (*Cecidomyia*). Australia (NSW).
- gilva** Skuse, 1888a: 93 (*Cecidomyia*). Australia (NSW).
- helmsi** Skuse, 1890c: 379 (*Cecidomyia*). Australia (NSW).
- hirta** Marshall, 1896a: 237 (*Cecidomyia*). NZ (NZ).
- humilis** Skuse, 1888a: 95 (*Cecidomyia*). Australia (NSW).
- indotata** Skuse, 1888a: 107 (*Cecidomyia*). Australia (NSW).
- leptospermi** Skuse, 1888a: 68 (*Cecidomyia*). Australia (NSW).
- lucida** Skuse, 1888a: 73 (*Cecidomyia*). Australia (NSW).
- lutulenta** Skuse, 1888a: 110 (*Cecidomyia*). Australia (NSW).
- macleayi** Skuse, 1888a: 97 (*Cecidomyia*). Australia (NSW).
- marshalli** Gagné, n. n. (*Cecidomyia*). NZ (NZ).
difficilis Marshall, 1896a: 235 (*Cecidomyia*). NZ (NZ). [Preocc. Skuse, 1888.]
- melana** Marshall, 1896a: 235 (*Cecidomyia*). NZ (NZ).
- minuscule** Gagné, n. n. (*Cecidomyia*). NZ (NZ).
minuta Marshall, 1896a: 236 (*Cecidomyia*). NZ (NZ). [Preocc. Winnertz, 1853.]
- mollipes** Skuse, 1888a: 92 (*Cecidomyia*). Australia (NSW).
- montana** Skuse, 1888a: 84 (*Cecidomyia*). Australia (NSW).
- negotiosa** Skuse, 1888a: 104 (*Cecidomyia*). Australia (NSW).
- obsoleta** Skuse, 1888a: 83 (*Cecidomyia*). Australia (NSW).
- omalanthi** Skuse, 1890c: 383 (*Cecidomyia*). Australia (NSW).
- oreas** Skuse, 1888a: 107 (*Cecidomyia*). Australia (NSW).
- parilis** Skuse, 1888a: 87 (*Cecidomyia*). Australia (NSW).
- paula** Skuse, 1888a: 74 (*Cecidomyia*). Australia (NSW).
- percita** Skuse, 1888a: 72 (*Cecidomyia*). Australia (NSW).
- plumbea** Skuse, 1888a: 69 (*Cecidomyia*). Australia (NSW).
- probata** Skuse, 1888a: 77 (*Cecidomyia*). Australia (NSW).
- quaesita** Skuse, 1888a: 90 (*Cecidomyia*). Australia (NSW).
- rusticula** Skuse, 1888a: 89 (*Cecidomyia*). Australia (NSW).
- saxatilis** Skuse, 1888a: 102 (*Cecidomyia*). Australia (NSW).
- scelesta** Skuse, 1888a: 96 (*Cecidomyia*). Australia (NSW).

scenica Skuse, 1888a: 72 (*Cecidomyia*). Australia (NSW).
scoparia Marshall, 1896a: 238 (*Cecidomyia*). NZ (NZ).
senilis Skuse, 1888a: 88 (*Cecidomyia*). Australia (NSW).
sulfurea Skuse, 1888a: 86 (*Cecidomyia*). Australia (NSW).
vegrandis Skuse, 1888a: 76 (*Cecidomyia*). Australia (NSW).
villosa Skuse, 1888a: 80 (*Cecidomyia*). Australia (NSW).
violacea Skuse, 1888a: 101 (*Cecidomyia*). Australia (NSW).
volitans Skuse, 1888a: 111 (*Cecidomyia*). Australia (NSW).
wanganuiensis Marshall, 1896a: 238 (*Cecidomyia*). NZ (NZ).

Unplaced genus of Cecidomyiinae

Genus GONIOCLEMA Skuse, n. stat.

GONIOCLEMA Skuse, 1888a: 60 (*Cecidomyia* subg.). Type species: *Cecidomyia pauxillula* Skuse, 1888, mon.
pauxillulum Skuse, 1888a: 61 (*Cecidomyia*). Australia (NSW). N. comb.

Unplaced species of Cecidomyiinae

nubilipennis Skuse, 1890c: 375 (*Cecidomyia*). Australia (NSW).
oleariae Maskell, 1889: 257 (*Cecidomyia*). NZ (NZ).