

Family CECIDOMYIIDAE

Cecidomyiids, or gall midges, are found worldwide and constitute a moderately large number of species (78) in the fossil Diptera record. There are approximately 3,000 living and fossil species described in this family. Larvae are found in a variety of habitats. Members of the Cecidomyiinae contain the gall makers, but also include mycophagous, predaceous, or parasitic forms. Other larvae are found in decaying wood and other vegetation.

Cecidomyiidae are one of the most frequently encountered families of Diptera in fossil deposits, especially amber inclusions. In addition to the determined forms listed below, records of undetermined taxa are known from the Cretaceous ambers of France (Schlüter, 1978: 100), New Jersey (Grimaldi *et al.*, 1989: 22), and Lebanon (Hennig, 1973: 33), the Oligocene/Miocene amber of the Dominican Republic (Schlee & Glockner, 1978: 27), the Miocene amber of Bitterfeld, Germany (Barthel & Hetzer, 1982: 328), the Miocene amber of Austria (Schlee, 1984), and the Eocene amber of the Caucasus (Zherichin, 1978: 111). Brooks (1955) listed records of fossil gall insects including an apparent *Cecidomyia* sp. from Eocene deposits in western Tennessee.

Ref.: Meunier (1904c, review of Baltic amber taxa).

Genus ASYNAPTA Loew

***ASYNAPTA** Loew, 1850a: 39 (as *Cecidomyia* subgenus). Type species: *Cecidomyia longicollis* Loew, 1850, by subsequent designation of Karsch (1877: 14).

Unidentified sp.—PA: Baltic Region (Eocene/Oligocene) [A] (Loew, 1850b: 32).

Genus BREMIA Rondani

***BREMIA** Rondani, 1861a: 289 (as *Cecidomyia* subgenus). Type species: *Cecidomyia decorata* Loew, 1850, by original designation.

Unidentified sp.—NT: Mexico (Oligocene/Miocene) [A] (Gagné, 1973: 171).

Genus BRYOCRYPTA Kieffer

***BRYOCRYPTA** Kieffer, 1896: 8. Type species: *Bryocrypta dubia* Kieffer, 1896, by original designation.

capitosa Meunier, 1904a: 26 [1904c: 15]. PA: Baltic Region (Eocene/Oligocene) [A].

elegantula Meunier, 1904a: 27 [1904c: 16]. PA: Baltic Region (Eocene/Oligocene) [A].

fagioides Meunier, 1904a: 28 [1904c: 17]. PA: Baltic Region (Eocene/Oligocene) [A].

girafa Meunier, 1904a: 25 [1904c: 14]. PA: Baltic Region (Eocene/Oligocene) [A].

vetusta Meunier, 1904a: 27 [1904c: 17]. PA: Baltic Region (Eocene/Oligocene) [A].

Genus CAMPTOMYIA Kieffer

***CAMPTOMYIA** Kieffer, 1894:f: 313. Type species: *Camptomyia binotata* Kieffer, 1894, by subsequent designation of Felt (1911: 41).

sinuosa Meunier, 1904a: 36 [1904c: 25]. PA: Baltic Region (Eocene/Oligocene) [A].

Genus CAMPYLOMYZA Meigen

***CAMPYLOMYZA** Meigen, 1818: 101. Type species: *Campylomyza flavipes* Meigen, 1818, by subsequent designation of Westwood (1840: 126).

crassitaris Meunier, 1904a: 40 [1904c: 29]. PA: Baltic Region (Eocene/Oligocene) [A].

globulifera Keilbach, 1982: 346. *Nomen nudum*.

Genus CATOCHA Haliday

***CATOCHA** Haliday, 1833: 156. Type species: *Catocha latipes* Haliday, 1833, by monotypy.

***MOLOBRAEA** Loew, 1850a: 12, 20. Type species: *Mimosciara molobrina* Rondani, 1840 [= *Catocha latipes* Haliday, 1833], by subsequent designation of Pritchard (1948: 667).

tenella Loew, 1850b: 32. *Nomen nudum*.

Genus CATOTRICA Edwards

***CATOTRICA** Edwards, 1938: 102. Type species: *Catocha americana* Felt, 1908, by original designation.

mesozoica Kovalev, 1990: 175. PA: Russia (Siberia) (Upper Jurassic/Lower Cretaceous) [C].

Genus **CECIDOMYIA** Meigen

- ITONIDA* Meigen, 1800: 19. Suppressed by I.C.Z.N. (1963: 339).
- ***CECIDOMYIA** Meigen, 1803: 261. Type species: *Tipula pini* De Geer, 1776, by monotypy.
- **DIPLOSIS* Loew, 1850a: 20 (as *Cecidomyia* subgenus). Type species: *Tipula pini* De Geer, 1776, by subsequent designation of Rondani (1860: 289).
- anomala* Keilbach, 1982: 344. *Nomen nudum*.
- bremii** Heer, 1864: 394. PA: Germany (Oligocene) [C].
- bujunensis** Naora, 1933: 216. PA: China (Miocene) [C].
- conjuncta* Meunier, 1899b: 161. *Nomen nudum*.
- dubia** Heyden, 1862: 80. PA: Germany (Oligocene) [T].
- filicornis* Keilbach, 1982: 344. *Nomen nudum*.
- incompleta** Loew, 1850b: 32. PA: Baltic Region (Eocene/Oligocene) [A].
- minutissima** Loew, 1850b: 32. PA: Baltic Region (Eocene/Oligocene) [A].
- pontaniiformis** Cockerell, 1908a: 66. NE: USA (Oligocene) [C].
- protogaea** Heer, 1856: 32. PA: France (Oligocene) [C].
- recta* Keilbach, 1982: 344. *Nomen nudum*.
- spectabilis** Meunier, 1899b: 161 [1899e: pl. I, fig. 1]. PA: Baltic Region (Eocene/Oligocene) [A].
- [Validated by bibliographic reference to the plate in Meunier (1899e).]
- ?Unidentified sp.—NE: USA (Eocene) [T] (Brooks, 1955: 4).
- Unidentified sp.—PA: Sicily (Miocene) [A] (Guérin-Ménéville, 1838a: 170).
- Unidentified sp.—PA: UK (England) (Eocene) [A] (Reid, 1884: 602).

Genus **CLINODIPLOSIS** Kieffer

- ***CLINODIPLOSIS** Kieffer, 1894d: 120. Type species: *Diplosis cilicrus* Kieffer, 1889, by original designation.
- Unidentified sp.—NT: Mexico (Oligocene/Miocene) [A] (Gagné, 1973: 170).

Genus **COLOMYIA** Kieffer

- ***COLOMYIA** Kieffer, 1892: 259. Type species: *Colomyia clavata* Kieffer, 1892, by monotypy.
- Unidentified sp.—PA: Baltic Region (Eocene/Oligocene) [A] (Meunier, 1901b: 188).

Genus COLPODIA Winnertz

***COLPODIA** Winnertz, 1853: 185 (as *Cecidomyia* subgenus). Type species: *Cecidomyia angustipennis* Winnertz, 1853, by monotypy.

brevicornis Meunier, 1904a: 32 [1904c: 21]. PA: Baltic Region (Eocene/Oligocene) [A].

curvinervis Meunier, 1904a: 31 [1904c: 20]. PA: Baltic Region (Eocene/Oligocene) [A].

xylophaga Meunier, 1904a: 30 [1904c: 19]. PA: Baltic Region (Eocene/Oligocene) [A].

Genus CONTARINIA Rondani

***CONTARINIA** Rondani, 1861a: 289 (as *Cecidomyia* subgenus). Type species: *Tipula loti* De Geer, 1776, by original designation.

Unidentified sp.—NT: Mexico (Oligocene/Miocene) [A] (Gagné, 1973: 170).

Genus CRETOCATOCHA Gagné

CRETOCATOCHA Gagné, 1977: 58. Type species: *Cretocatocha mcalpinei* Gagné, 1977, by original designation.

mcalpinei Gagné, 1977: 58. NE: Canada (Upper Cretaceous) [A].

Genus CRETOCORDYLOMYIA Gagné

CRETOCORDYLOMYIA Gagné, 1977: 60. Type species: *Cretocordylomyia quadriseris* Gagné, 1977, by original designation.

quadriseris Gagné, 1977: 60. NE: Canada (Upper Cretaceous) [A].

Genus CRETOMIASTOR Gagné

CRETOMIASTOR Gagné, 1977: 62. Type species: *Cretomiasior ferejunctus* Gagné, 1977, by original designation.

ferejunctus Gagné, 1977: 62. NE: Canada (Upper Cretaceous) [A].

Genus CRETOWINNERTZIA Gagné

CRETOWINNERTZIA Gagné, 1977: 60. Type species: *Cretowinnertzia angustala* Gagné, 1977, by original designation.

angustala Gagné, 1977: 60. NE: Canada (Upper Cretaceous) [A].

Genus DASINEURA Rondani

***DASINEURA** Rondani, 1840*b*: 12, 17. Type species: *Dasineura obscura* Rondani, 1856, by subsequent designation in Rondani (1856: 200).

***DASYNEVRA** Agassiz, 1846: 117 (unjustified emendation of *Dasineura* Rondani). Type species: *Dasineura obscura* Rondani, 1856, automatic. [Preoccupied by Saunders, 1842.]

Unidentified sp.—PA: Baltic Region (Eocene/Oligocene) [A] (Meunier, 1901*b*: 186).

Genus DIRHIZA Loew

***DIRHIZA** Loew, 1850*a* 21 (as *Cecidomyia* subgenus). Type species: *Cecidomyia lateritia* Loew, 1850, by monotypy.

Unidentified sp.—PA: Baltic Region (Eocene/Oligocene) [A] (Loew, 1850*b*: 32).

Genus FRIRENIA Kieffer

***FRIRENIA** Kieffer, 1894*g*: 201. Type species: *Frirenia tenella* Kieffer, 1894, by monotypy.

eocenica Meunier, 1904*a*: 43 [1904*c*: 32]. PA: Baltic Region (Eocene/Oligocene) [A].

Genus HARTIGIOLA Rübsaamen

***HARTIGIOLA** Rübsaamen, 1912: 161. Type species: *Cecidomyia annulipes* Hartig, 1839, by original designation.

fossilus Straus, 1977: 78. PA: Romania (Pliocene) [T]; PA: Germany (Pliocene) [T].

Genus HENRIA Wyatt

***HENRIA** Wyatt, 1959: 175. Type species: *Henria psalliotae* Wyatt, 1959, by original designation.

Unidentified sp.—NT: Mexico (Oligocene/Miocene) [A] (Gagné, 1973: 170).

Genus **HETEROPEZA** Winnertz

***HETEROPEZA** Winnertz, 1846: 13. Type species: *Heteropeza pygmaea* Winnertz, 1846, by monotypy.

pulchella Meunier, 1904a: 43 [1904c: 32]. PA: Baltic Region (Eocene/Oligocene) [A].

Genus **LASIOPTERA** Meigen

***LASIOPTERA** Meigen, 1818: 88. Type species: *Lasioptera picta* Meigen, 1818 [= *Tipula rubi* Schrank, 1803], by subsequent designation of Karsch (1877: 14). [Validated by I.C.Z.N. (1970: 95).]

recessa Scudder, 1877a: 745. NE: USA (Eocene) [C].

Unidentified sp.—PA: Baltic Region (Eocene/Oligocene) [A] (Burmeister, 1832: 637).

Genus **LEDOMYIA** Kieffer

***LEDOMYIA** Kieffer, 1894g: 201. Type species: *Lepidomyia lugens* Kieffer, 1894, by monotypy. [Preoccupied by Loew, 1864.]

***LEDOMYIA** Kieffer, 1895e: cccxx (new replacement name for *Lepidomyia* Kieffer). Type species: *Lepidomyia lugens* Kieffer, 1894, automatic.

***PHAENOLAUTHIA** Kieffer, 1912a: 2 (xi). Type species: *Ledomyia obscuripennis* Kieffer, 1904, by original designation.

Unidentified sp.—NT: Mexico (Oligocene/Miocene) [A] (Gagné, 1973: 170).

Genus **LEDOMYIELLA** Meunier

LEDOMYIELLA Meunier, 1904a: 44 [1904c: 33]. Type species: *Ledomyiella succinea* Meunier, 1904, by subsequent designation of Felt (1911: 38) (as “*succini*”).

crassipes Meunier, 1904a: 47 [1904c: 36]. PA: Baltic Region (Eocene/Oligocene) [A].

eocenica Meunier, 1904a: 46 [1904c: 35]. PA: Baltic Region (Eocene/Oligocene) [A].

pygmaea Meunier, 1904a: 46 [1904c: 35]. PA: Baltic Region (Eocene/Oligocene) [A].

rotundata Meunier, 1904a: 45 [1904c: 34]. PA: Baltic Region (Eocene/Oligocene) [A].

succinea Meunier, 1904a: 45 [1904c: 34]. PA: Baltic Region (Eocene/Oligocene) [A].

Genus **LEPTOSYNA** Kieffer

***LEPTOSYNA** Kieffer, 1894g: 201. Type species: *Leptosyna acutipennis* Kieffer, 1894, by monotypy.

***nervosa** Winnertz, 1852: 49 (*Heteropeza*). PA: Germany; Europe; PA: Baltic Region (Eocene/Oligocene) [A].

Genus **LESTODIPLOSIS** Kieffer**

***LESTODIPLOSIS** Kieffer, 1894b: 84; [1894c: xxviii]. Type species: *Cecidomyia pictipennis* Perris, 1870, by subsequent designation of Kieffer, 1895c: cclxxx.

***LEPTODIPLOSIS**. Incorrect original spelling of *Lestodiplosis* (Kieffer, 1894a: xxviii [1894c: xxviii]). [See I.C.Z.N. (1958a: 293) for decision on accepted spelling and usage of this genus.]

kiefferis Meunier, 1905d: 90. AF: Madagascar (Holocene) [K].

Unidentified sp.—NT: Mexico (Oligocene/Miocene) [A] (Gagné, 1973: 171).

Genus **LESTREMIA** Macquart

***LESTREMIA** Macquart, 1826a: 173. Type species: *Lestremia cinerea* Macquart, 1826, by monotypy.

pinites Meunier, 1904a: 42 [1904c: 31]. PA: Baltic Region (Eocene/Oligocene) [A].

Genus **LITHOMYZA** Scudder

LITHOMYZA Scudder, 1877a: 746. Type species: *Lithomyza condita* Scudder, 1877, by monotypy.

condita Scudder, 1877a: 746. NE: USA (Eocene) [C].

** C.W. Sabrosky is preparing a catalog of family-group names of Diptera and will explain in detail the complex history of this genus-group name and correct orthography.

Genus MEUNIERIA Kieffer

MEUNIERIA Kieffer in Meunier, 1904a: 89 [1904c: 78; Kieffer, 1904: 408].

Type species: *Meunieria succini* Felt, 1911, by subsequent designation of Felt (1911: 36).

succini Felt, 1911: 36. PA: Baltic Region (Eocene/Oligocene) [A].

Genus MIASTOR Meinert

***MIASTOR** Meinert, 1864: 42. Type species: *Miastor metraloas* Meinert, 1864, by monotypy.

***metraloas** Meinert, 1864: 42. PA: Denmark; Holarctic; PA: Baltic Region (Eocene/Oligocene) [A].

**hospes* Winnertz, 1870: 6. PA: Germany; PA: Baltic Region (Eocene/Oligocene) [A].

Genus MIKIOLA Kieffer

***MIKIOLA** Kieffer, 1896: 5. Type species: *Cecidomyia fagi* Hartig, 1839, by original designation.

***fagi** Hartig, 1839: 643 (*Cecidomyia*). PA: Germany; Europe, Asia, Japan; PA: France (Pliocene) [C].

pontiensis Villalta, 1957: 64. PA: Spain (Miocene) [T].

Genus MONARDIA Kieffer

***MONARDIA** Kieffer, 1895f: 111. Type species: *Monardia stirpium* Kieffer, 1895, by original designation.

submonilifera Meunier, 1904a: 39 [1904c: 28]. PA: Baltic Region (Eocene/Oligocene) [A].

Genus MONODICRANA Loew

MONODICRANA Loew, 1850b: 32. Type species: *Monodicrana terminalis* Loew, 1850, by monotypy.

terminalis Loew, 1850b: 32. PA: Baltic Region (Eocene/Oligocene) [A].

Genus NEOSTENOPTERA Meunier

**STENOPTERA* Meunier, 1901b: 201. Type species: *Stenoptera kiefferi* Meunier, 1901, by monotypy. [Preoccupied by Duponchel, 1838.]

***NEOSTENOPTERA** Meunier, 1902b: 102 (new replacement name for *Stenoptera* Meunier). Type species: *Stenoptera kiefferi* Meunier, 1901, automatic.

kiefferi Meunier, 1901b: 201 (*Stenoptera*). AF: Unknown (Holocene) [K].

Genus PALAEOCOLPODIA Meunier

PALAEOCOLPODIA Meunier, 1902b: 101. *Nomen nudum*.

PALAEOCOLPODIA Meunier, 1904a: 29 [1904c: 18]. Type species: *Palaeocolpodia eocenica* Meunier, 1904, by monotypy.

eocenica Meunier, 1904a: 29 [1904c: 18]. PA: Baltic Region (Eocene/Oligocene) [A].

Genus PALAEOSPANIOCERA Meunier

PALAEOSPANIOCERA Meunier, 1901b: 192. Type species: *Palaeospaniocera paleospaniocera* Evenhuis, 1993, by **present designation**.

[*Palaeospaniocera* originally proposed without included species. The type designated is the first inclusion of a named species within the genus in accordance with the *Code*.]

paleospaniocera Evenhuis, 1994: in this work (**new species**). PA: Baltic Region (Eocene/Oligocene) [A].

[Species-group name valid by bibliographic reference to characters given in Meunier (1901b: 192) for the genus *Palaeospaniocera*.]

Genus PEROMYIA Kieffer

***PEROMYIA** Kieffer, 1894e: clxxv (1895d: clxxv). Type species: *Peromyia leveillei* Kieffer, 1894, by monotypy.

**JOANNISIA* Kieffer, 1894e: clxxv (1895d: clxxv). Type species: *Joannisia aurtiaca* Kieffer, 1894, by subsequent designation of Coquillett (1910: 556). [Preoccupied by Monterosato, 1884.]

monilifera Loew, 1850b: 32 (*Campylomyza*). PA: Baltic Region (Eocene/Oligocene) [A]. **New combination**.

moniliformis Meunier, 1899b: 161 (*Campylomyza*). *Nomen nudum*.

Genus PHYLLOCECIDUM Givulescu

PHYLLOCECIDUM Givulescu, 1984: 125. Type species: *Phyllocecidum liquidambrus* Givulescu, 1984, by original designation.

liquidambrus Givulescu, 1984: 125. PA: Romania (Pliocene) [T].

Genus PORRICONDYLA Rondani

***PORRICONDYLA** Rondani, 1840b: 13. Type species: *Cecidomyia albitarsis* Meigen, 1830 [misidentification, = *Cecidomyia nigripennis* Meigen, 1830], by monotypy.

***EPIDOSIS** Loew, 1850a: 21, 38 (as *Cecidomyia* subgenus). Type species: *Cecidomyia fragilis* Loew, 1850, by subsequent designation of Brunetti (1920: 17).

***DICRONEURUS** Kieffer, 1895a: 122. Type species: *Epidosis lineata* Kieffer, 1894, by monotypy.

elegantula Meunier, 1904a: 33 [1904c: 22] (*Epidosis*). PA: Baltic Region (Eocene/Oligocene) [A]. **New combination.**

gibbosa Meunier, 1904a: 33 [1904c: 22] (*Epidosis*). PA: Baltic Region (Eocene/Oligocene) [A]. **New combination.**

magnifica Meunier, 1904a: 32 [1904c: 21] (*Epidosis*). PA: Baltic Region (Eocene/Oligocene) [A]. **New combination.**

minuta Meunier, 1904a: 34 [1904c: 23] (*Epidosis*). PA: Baltic Region (Eocene/Oligocene) [A]. **New combination.**

noduliformis Meunier, 1904a: 35 [1904c: 24] (*Epidosis*). PA: Baltic Region (Eocene/Oligocene) [A]. **New combination.**

titana Meunier, 1904a: 35 [1904c: 24] (*Epidosis*). PA: Baltic Region (Eocene/Oligocene) [A]. **New combination.**

Genus RUBSAAMENIA Kieffer

***RUBSAAMENIA** Kieffer, 1894b: 83 [1894f: 311 (as *Ruebsaamenia*)]. Type species: *Rubsaamenia flava* Kieffer, 1894, by monotypy.

Unidentified sp.—PA: Baltic Region (Eocene/Oligocene) [A] (Meunier, 1901b: 188).

Genus SEQUOIOMYIA Möhn

***SEQUOIOMYIA** Möhn, 1960: 515. Type species: *Sequoiomyia kraeuseli* Möhn, 1960, by original designation.

kraeuseli Möhn, 1960: 515. PA: Germany (Miocene) [T].

***taxodii** Felt, 1916: 415 (*Retinodiplosis*). NE: USA; NE: USA (Pleistocene) [T].

Genus THECODIPLOSIS Kieffer

***THECODIPLOSIS** Kieffer, 1895*b*: cxciv. Type species: *Cecidomyia brachyn-tera* Schwägrichen, 1835, by original designation.

clarkiensis Lewis, Heikes & Lewis, 1990*e*: 4. NE: USA (Miocene) [C].

Genus WALSHOMYIA Felt

***WALSHOMYIA** Felt, 1908: 359. Type species: *Walshomyia juniperina* Felt, 1908, by original designation.

***cupressi** Gagné, 1969: 19. NE: USA; NE: USA (Pleistocene) [T].

Genus WINNERTZIA Rondani

***WINNERTZIA** Rondani, 1861*a*: 290. Type species: *Cecidomyia lugubris* Winnertz, 1853, by original designation.

***WINNERTZIOLA** Kieffer, 1912*b*: 235. Type species: *Winnertzia rubra* Kieffer, 1894, by original designation.

affinis Meunier, 1904*a*: 38 [1904*c*: 27]. PA: Baltic Region (Eocene/Oligocene) [A].

burmitica Cockerell, 1917*d*: 42 (*Winnertziola*). OR: Myanmar (Miocene) [A].
New combination.

cylindrica Meunier, 1904*a*: 37 [1904*c*: 26]. PA: Baltic Region (Eocene/Oligocene) [A].

radiata Meunier, 1904*a*: 36 [1904*c*: 25]. PA: Baltic Region (Eocene/Oligocene) [A].

separata Meunier, 1904*a*: 38 [1904*c*: 27]. PA: Baltic Region (Eocene/Oligocene) [A].

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chaneyi Cockerell, 1927*b*: 64 (*Cecidomyia*). NE: USA (Oligocene) [C].

***poculum** Osten Sacken, 1862: 201 (*Cecidomyia*). NE: USA; NE: USA (Miocene) [T].