

Family AGROMYZIDAE

The Agromyzidae is a fairly large family of tiny acalypterate flies (about 2,500 species in 27 genera) found worldwide, commonly known for the leaf mining habits of the immatures. However, leaf-mining covers only about 50% of the habits of the species of this family. Larvae of other extant forms are known to attack all parts of plant tissue including stems, roots, and flower heads.

The fossil record of this family is replete with trace fossil records (ichnotaxa) attributed to various agromyzid fossil genera and species based on leaf mines and plant damage. All of these trace fossils must be considered as provisional identifications until such time as actual larvae or adults are found in association with these trace fossils and can be identified as agromyzids. However, due to the characteristic nature of agromyzid leaf mining damage, all taxa attributed to Agromyzidae are retained here in the family pending further study.

In addition to those taxa listed below, Hurd *et al.* (1962: 110) recorded this family from the Miocene amber of Chiapas, Mexico and Poinar (1992) recorded them from the Oligocene/Miocene amber of the Dominican Republic.

A possible agromyzid fossil leaf mine resembling those of *Phytomyza* was recorded from the Paleocene of southern England by Crane & Jarzembowski (1980) and later described (Jarzembowski, 1989) as the new genus *Foliofossor*. However, Kozlov (1988) considered this leaf mine to be made by a lepidopteran. The ichnogenus *Foliofossor* is provisionally listed here as questionably included in Agromyzidae. Two genera by Straus (1977) originally placed as *incertae sedis*, were treated in the *Zoological Record* for 1981 as in Agromyzidae. They are treated here as questionably included in the Agromyzidae.

Species originally described in this family from Baltic amber have been previously removed to other families.

Ref.: Spencer (1990, review of fossil taxa).

Genus AGROMYZA Fallén

***AGROMYZA** Fallén, 1810: 21. Type species: *Agromyza reptans* Fallén, 1823, by subsequent designation of I.C.Z.N. (1988: 76).

incerta Théobald, 1937a: 245. PA: France (Oligocene) [C].

praecursor Melander, 1949: 53. NE: USA (Oligocene) [C].

protogaea Heer, 1849: 253. PA: Croatia (Miocene) [C].

serresi Théobald, 1937a: 356. PA: France (Oligocene) [C].

Genus EOMYZA Cockerell

EOMYZA Cockerell, 1924*b*: 200. Type species *Eomyza holoptera* Cockerell, 1924, by monotypy.

holoptera Cockerell, 1924*b*: 200. NE: USA (Eocene) [C].

Genus MELANAGROMYZA Hendel

***MELANAGROMYZA** Hendel, 1920: 114. Type species: *Agromyza aenoven-tris* Fallén, 1823, by original designation.

prisca Melander, 1949: 54. NE: USA (Oligocene) [C].

tephrias Melander, 1949: 54. NE: USA (Oligocene) [C].

Genus PALAEOPHYTOBIA Süss & Müller-Stoll

PALAEOPHYTOBIA Süss & Müller-Stoll, 1975: 515. Type species: *Palaeo-phytobia platani* Süss & Müller-Stoll, 1975, by monotypy.

platani Süss & Müller-Stoll, 1975: 515. PA: Hungary (Miocene) [T].

prunorum Süss & Müller-Stoll, 1980: 354. NE: USA (Eocene) [T].

salicaria Süss in Geissert *et al.*, 1981: 222. PA: France (Pliocene) [T].

Genus PHYTOMYZA Fallén

***PHYTOMYZA** Fallén, 1810: 21. Type species: *Phytomyza flaveola* Fallén, 1810 [= *Musca ranunculi* Schrank, 1803], by monotypy.

lethe Hering, 1930: 63. PA: Germany (Miocene) [T].

pusilla Förster, 1891: 486 (*Anthomyia*). PA: Germany (Oligocene) [C].

vetusta Théobald, 1937*a*: 242. PA: France (Oligocene) [C].

Genus PHYTOMYZITES Straus

PHYTOMYZITES Straus, 1977: 77. Type species: *Phytomyzites corni* Straus, 1977, by monotypy.

corni Straus, 1977: 77. PA: Germany (Pliocene) [T].

querci Givulescu, 1984: 128. PA: Romania (Pliocene) [T].

Genus *PROTONAPOMYZA* Quiévreux

PROTONAPOMYZA Quiévreux, 1934: 878 [1935: 177]. Unavailable name; proposed after 1930 without a type-species designation.
Unidentified sp.—PA: France (Oligocene) [C] (Quiévreux, 1934: 878; 1935: 177).

Genus *PROTOPHYTOBIA* Süss

PROTOPHYTOBIA Süss, 1979: 170. Type species: *Protophytobia cupressorum* Süss, 1979, by monotypy.
cupressorum Süss, 1979: 170. PA: Netherlands (Undetermined Tertiary) [T].

Questionably Included in AGROMYZIDAE**Genus *CUNICULONOMUS* Straus**

CUNICULONOMUS Straus, 1977: 62. Type species *Cuniculonomus carpini* Straus, 1977, by original designation.
carpini Straus, 1977: 62. PA: Germany (Pliocene) [T].

Genus *FOLIOFOSSOR* Jarzembowski

FOLIOFOSSOR Jarzembowski, 1989: 448. Type species: *Foliofossor cranei* Jarzembowski, 1989, by original designation.
cranei Jarzembowski, 1989: 448. PA: UK (England) (Paleocene) [T].

Genus *LOCONOMUS* Straus

LOCONOMUS Straus, 1977: 63. Type species: *Loconomus vitis* Straus, 1977, by original designation.
vitis Straus, 1977: 63. PA: Germany (Pliocene) [T].