

## 63. Family OTITIDAE

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The Otitidae, or picture-winged flies, are poorly represented in the regions covered here. The Otitinae, primarily a Holarctic and Neotropical subfamily, is represented here by 1 introduced species and 1 endemic species. The latter is placed in the eastern Palearctic and Oriental *Herina*. The Ulidiinae, often considered a separate family by some workers, is represented in these regions by 3 endemic genera: *Heterodoxa*, *Neoeuxesta*, and *Perisoneura*. *Pseudeuxesta* is primarily Australasian/Oceanian, but extends to Sulawesi in the Oriental Region as well as to the Seychelles and tropical shores of the Indian Ocean. Based on information supplied by J.F. McAlpine (*in litt.*) the genus *Lipsana* is transferred here from the Lonchaeidae.

Little is known of the biology of these flies, but published records show that they are found on living or decaying vegetation and excrement. *Tritoxa flexa* (Wiedemann), the black onion fly, is a pest of onion bulbs in the United States (Manis 1941), and *Tetanops myopaeformis* (Röder) is a well-known pest of sugar beets in the United States.

About 400 species in 50 genera are known in this family. Though the family is cosmopolitan and most speciose in the tropics, only 25 species in 11 genera are recorded here.

*Refs.*: Allen & Foote (1967, *biol.*), Lower (1970, *cat. Australasian/Oceanian spp.*), Daniels (1976c, *key Australian spp.*), Hardy & Delfinado (1980, *rev. Hawaiian spp.*), Yoon *et al.* (1983, *biol. Euxesta quaternaria*), Ferrar (1987, *immat.*).

### Subfamily OTITINAE

#### Genus CEROXYS Rondani

*MECKELIA* Robineau-Desvoidy, 1830: 714. Type species: *Oscinis elegans* Robineau-Desvoidy, 1830 [= *Musca hyalinata* Panzer, 1798 (*n. syn.*)], *des.* Coquillett, 1910: 564. [Preocc. Leucart, 1828.]

*CEROXYS* Macquart, 1835: 437. Type species: *Musca urticae* Linnaeus, 1758, *des.* Westwood, 1840: 149.

*CERATOXYS* Rondani, 1861b: 10 (*n. n.* for *Meckelia*).

*ANACAMPTA* Loew, 1868b: 7. Type species: *Musca urticae* Linnaeus, 1758, *des.* Loew, 1873b: 58.

*latiusculus* Loew, 1873b: 130 (*Anacampta*). USA; Hawaiian Is [introduced], Western Samoa [introduced]; Canada, Mexico.

#### Genus HERINA Robineau-Desvoidy

*HERINA* Robineau-Desvoidy, 1830: 724. Type species: *Herina liturata* Robineau-Desvoidy, 1830, *des.* Hennig, 1939: 59.

*RHADINOMYIA* Schiner, 1868: 290. Type species: *Rhadinomyia orientalis* Schiner, 1868, *orig. des.*

*HYPSONOMYIA* McAlpine, 1965: 218. Type species: *Hypsomyia goilala* McAlpine, 1965, *orig. des.*

*HERNIA*, error for *Herina*.

*goilala* McAlpine, 1965: 218 (*Hypsomyia*). PNG (PNG).

## Subfamily ULIDIINAE

## Genus ACROSTICTA Loew

- ACROSTICTA** Loew, 1868a: 293. Type species: *Acrosticta scrobiculata* Loew, 1868, des. Coquillett, 1910: 503.
- apicalis** Williston, 1896: 375 (*Euxesta*). St. Vincent I; Australia (Qld), Fiji, French Polynesia (Marquesas, Society Is), Guam, Hawaiian Is, Nauru, Northern Marianas, Pitcairn Is, Western Samoa [all introduced]; Galapagos Is, West Indies, USA S to Argentina, Afrotrop. Reg. [introduced].
- pallipes** Grimshaw, 1901: 44. Hawaiian Is.

## Genus EUXESTA Loew

- EUXESTA** Loew, 1868a: 297. Type species: *Ortalis notata* Wiedemann, 1830, des. Coquillett, 1910: 543.
- annonae** Fabricius, 1794: 358 (*Musca*). "Americae insulis" [= West Indies]; Fiji, Guam, Hawaiian Is [all introduced]; Philippines [introduced], USA, Neotrop. Reg.
- quadrivittata** Macquart, 1835: 456 (*Urophora*). Cuba.
- exilis** Knab, 1916: 45. Philippines.
- eluta** Loew, 1868a: 312. Cuba; Easter I, French Polynesia (Society Is); Neotrop. Reg.
- hyalipennis** Malloch, 1932n: 209. French Polynesia (Marquesas).
- laffooni** Steyskal, 1952a: 280. Vanuatu.
- laffooni**, error for *laffooni*.
- penacamposi** Steyskal in Campos & Peña, 1973: 226. Easter I.
- pruinosa** Malloch, 1932n: 210. French Polynesia (Marquesas).
- stigmatias** Loew, 1868a: 310. Cuba; Pitcairn Is; Mexico, West Indies S to Bolivia.
- wettsteini** Hendel, 1909d: 165. Brazil; Hawaiian Is [introduced]; Paraguay, Trinidad, Venezuela.

## Genus HETERODOXA Malloch

- HETERODOXA** Malloch, 1932n: 211. Type species: *Heterodoxa uapouae* Malloch, 1932, orig. des.
- fatuhivae** Malloch, 1932n: 214. French Polynesia (Marquesas).
- hivaoae** Malloch, 1932n: 213. French Polynesia (Marquesas).
- uahukae** Malloch, 1932n: 214. French Polynesia (Marquesas).
- uapouae** Malloch, 1932n: 212. French Polynesia (Marquesas).

## Genus NEOEUXESTA Malloch

- NEOEUXESTA** Malloch, 1930d: 218. Type species: *Neoeuxesta fumicosta* Malloch, 1930, orig. des.
- fumicosta** Malloch, 1930d: 218. Western Samoa.
- guamana** Steyskal, 1952a: 283. Guam.

## Genus NOTOGRAMMA Loew

- NOTOGRAMMA** Loew, 1868a: 289. Type species: *Notogramma cimiciformis* Loew, 1868, mon.
- cimiciforme** Loew, 1868a: 289. Cuba; Belau, Guam, Hawaiian Is, Northern Marianas, Wake I [all introduced]; Mexico, USA, Neotrop. Reg.
- stigma** Fabricius – not Australasian/Oceanian.

## Genus PERISSONEURA Malloch

- PERISSONEURA** Malloch, 1932n: 207. Type species: *Perissoneura diversipennis* Malloch, 1932, orig. des.
- diversipennis** Malloch, 1932n: 207. French Polynesia (Marquesas); Pitcairn Is.

**Genus PHYSIPHORA Fallén**

**PHYSIPHORA** Fallén, 1810a: 11. Type species: *Chrysomyza splendida* Fallén, 1817 [= *Musca demandata* Fabricius, 1798], subs. mon. Fallén, 1817b: 3.

**CHRYSOMYZA** Fallén, 1817b: 3. Type species: *Chrysomyza splendida* Fallén, 1817 [= *Musca demandata* Fabricius, 1798], mon.

**CLIOCHLORIA** Enderlein, 1927: 103. Type species: *Musca aenea* Fabricius, 1794 [preocc., = *Ulidia clausa* Macquart, 1843], orig. des.

**aperta** Steyskal, 1952a: 285. Solomon Is.

**clausa** Macquart, 1843: 408(251) (*Ulidia*). Indonesia (Java); Australia (NSW, NT, Qld, WA), Guam, Hawaiian Is, Indonesia (Irian Jaya), Kiribati (Gilbert Is), Marshall Is, New Caledonia (New Caledonia), Northern Marianas, PNG (Bougainville I, PNG), Solomon Is, Vanuatu, Western Samoa; widesp. Afrotrop., Nearctic, Neotrop., Oriental Regs.

**aenea** Fabricius, 1794: 335 (*Musca*). "India orientali." [Preocc. Scopoli, 1763.]

**demandata** Fabricius, 1798: 564 (*Musca*). West Germany; Australia (SA) [introduced], Hawaiian Is [introduced]; S Afrotrop., Nearctic, Neotrop., Palearctic Regs.

**Genus PSEUDEUXESTA Hendel**

**PSEUDEUXESTA** Hendel, 1910c: 30. Type species: *Euxesta prima* Osten Sacken, 1881, orig. des.

**prima** Osten Sacken, 1881a: 470 (*Euxesta*). Indonesia (Sulawesi); Australia (Qld), Belau, Guam, Hawaiian Is, Indonesia (Irian Jaya, Maluku), Marshall Is, Northern Marianas, Palmyra Atoll, PNG (PNG), Solomon Is, Tuvalu, Vanuatu, Western Samoa.

**semifasciata** Malloch, 1930d: 216 (*Euxesta*). Tuvalu.

**Subfamily LIPSANINAE****Genus LIPSANA Enderlein**

**LIPSANA** Enderlein, 1938: 676. Type species: *Lipsana insulaepaschalis* Enderlein, 1938, orig. des. *insulaepaschalis* Enderlein, 1938: 677. Easter I.

**Unplaced species of Otitidae**

**aenea** Macquart, 1847a: (93) [1847b: 109] (*Tephritis*). "Nouvelle-Hollande" [locality probably in error].