

## Ulidiidae

Elena P. Kameneva (1998 Checklist: Bernhard Merz)

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**Diagnosis:** European species medium-sized to large (body length: 3.0-12.0 mm) matt grey or shining black to brown (sometimes with greenish sheen) flies having dark banded or spotted wings, frontal setae lacking, wing with vein Sc straight to apex, posteroapical corner of cell cua with or without short triangular lobe, mesonotum: presutural supra-alar and anepimeral setae usually absent, abdomen with sternites 1 and 2 separate; male tergite 6 lacking, medial surstyli with 2-30 prenisetae, phallus, long, bare or spinulose, with or without apical glans, coiled in rest in a pocket at latero-ventral side of abdomen, right to sternite 5; females with short or, rarely, long, flattened trapezoid tergosternite 7 (oviscape); aculeus blunt, with the cercal unit separated from tergite 8 and bearing numerous hair-like sensilla; 3 spermathecae, of them, 2 on Y- or T-shape bifurcated common duct (Kameneva & Korneyev 2010; Kameneva & Barraclough 2020).

**Biology:** Larvae mainly saprophagous, feeding under the bark of fallen trees, rotting stems, roots, bulbs or onions, tips of palms or other monocots, developing in tissues damaged by other insects; rarely in live tissues; synopses of known biological data were presented by Allen & Foote (1967), Kabos & van Aartsen (1984), Ferrar (1987), Kameneva & Korneyev (2016), and Kameneva & Barraclough (2020), but the larval habits of the majority of species remain unknown.

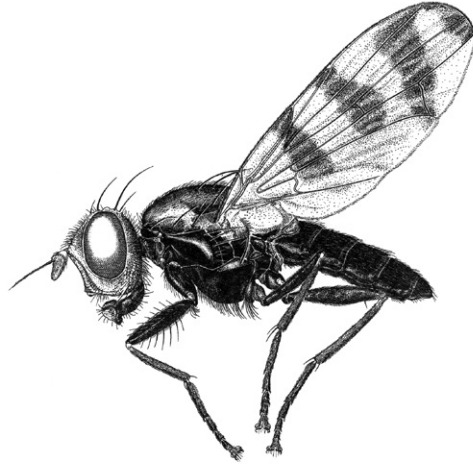
**Nomenclature and classification:** Kameneva & Korneyev (1994) showed the priority of family name Ulidiidae over Otitidae, which is universally accepted now. Later, Kameneva & Korneyev (2006) proposed subdivision into 6 tribes distributed in the subfamilies Ulidiinae and Otitinae. Recent molecular phylogenetic studies (Han & Ro 2016) support the lineages corresponding to these tribes but suggest they may be rearranged into three subfamilies rather than two (Kameneva & Korneyev, in prep.).

**Number of species:** CH: 29 (1998 Checklist: 26), AT 36, BE: 20, CZ: 27, ES: 40, DE: 39, FR 45, IT: 63, NL: 17, UA 33, UK: 20, Europe: 113, World: ~720. (Europe: Kameneva & Greve Jensen 2013 [with additions], World: Kameneva & Korneyev [unpublished data].)

**Level of faunistic knowledge in Switzerland:** Good; 1-2 species are expected to be found.

**General references:** Hennig (1939, 1940) [keys to genera and most European species], Merz (1996a, 1996b) [keys to Swiss species of *Herina* and *Otites*], Merz (2002), Kameneva (2007), Morgulis et al. (2013) [keys to European and World *Herina*], Kameneva & Korneyev (2006) [general classification, review of genera worldwide, keys to Myennidini], Kameneva & Korneyev (2015) [updated key to species of *Homalocephala*], Kameneva & Korneyev (2016) [revision of *Physiphora*].

**References to the Swiss fauna:** Merz (1996a, 1996b, 2002, 2012), Merz et al. (1998), Kameneva (2007), Bächli et al. (2014).



*Ceroxys urticae*,  
male (CMPD3, p.186).

## Checklist

### Otitinae

*Callopiastromyia* Hendel, 1907

- *annulipes* (Macquart, 1855) !

*Cephalia* Meigen, 1826

- *rufipes* Meigen, 1826 !

*Ceroxys* Macquart, 1835

- *urticae* (Linnaeus, 1758) !

*Herina* Robineau-Desvoidy, 1830

- *frondescentiae* (Linnaeus, 1758) !

- *merzi* Kameneva, 2007 !

- *nigrina* (Meigen, 1826) ! N1

= *germinationis* (Rossi, 1790)

- *oscillans* (Meigen, 1826) !

- *paludum* (Fallén, 1820) !

- *palustris* (Meigen, 1826) !

- *parva* (Loew, 1864) !

- *pseudoluctuosa* Hennig, 1939 !

- *rivosecchii* Merz, 2002 ! N2

= *lugubris* sensu Hennig, 1939 nec Meigen, 1826

*Melieria* Robineau-Desvoidy, 1830

(*Hypochra* Loew, 1868) N3

- *parmensis* (Rondani, 1869) !

- *subapennina* (Rondani, 1869) !

(*Melieria* s.str.)

- *crassipennis* (Fabricius, 1794) !

- *omissa* (Meigen, 1826) !
- (*Phaeosoma* Becker, 1907) N3
- *atricornis* (Mik, 1885) !
- Myennis* Robineau-Desvoidy, 1830
- *octopunctata* (Coquebert, 1798) !
- Otites* Latreille, 1804
- *centralis* (Fabricius, 1805) !
- *guttata* (Meigen, 1830) !
- *lamed* (Schrank, 1781) !
- *ornata* (Meigen, 1826) ! N4
- = *bacescui* Gheorghiu, 1984
- *porcus* Latreille, 1804 ! N4
- = *formosa jucunda* (Robineau-Desvoidy, 1830)
- Seioptera* Kirby, 1817
- *vibrans* (Linnaeus, 1758) !
- Tetanops* Fallén, 1820
- (*Tetanops* s.str.)
- *flavescens* Macquart, 1835 !

### Ulidiinae

- Euxesta* Loew, 1868
- *notata* (Wiedemann, 1830) !
- *pechumani* Curran, 1938 !
- Physiphora* Fallén, 1810
- *alceae* (Preyssler, 1791) !
- = *demandata* (Fabricius, 1798)
- Ulidia* Meigen, 1826
- *erythrophthalma* Meigen, 1826 !

### Notes

- N1 Since homonymy of *Musca germinationis* Rossi, 1890 was shown (Thompson & Pont 1993), its junior synonym *Otites nigrina* is used as replacement name (Kameneva & Greve Jensen 2013).
- N2 According to Merz (2002), *H. lugubris* (Meigen, 1826) was misinterpreted by Hennig (1939), followed by all subsequent authors, including Merz (1996, 1998 [1998 Checklist]). The species present in Switzerland is *H. rivosecchii* Merz, 2002, as confirmed by Merz (2012).
- N3 The names *Hypochra* and *Phaeosoma* are considered subgenera of *Melieria* (Kameneva 1997, Kameneva & Greve Jensen 2013).
- N4 See Kameneva & Korneyev (2019) for nomenclature changes due to neotype designation of *Otites porcus* Latreille and revision of the *Ortalis ornata* Meigen type.

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