

## Ephydriidae

Tadeusz Zatwarnicki (1998 Checklist: Volker Hollmann-Schirmmacher)

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**Diagnosis:** Adults: very small to moderate-sized flies, length 1-11 mm. Body usually dull and dark colored, but unusually diverse in body structure, vestiture, and ornamentation. Pseudopostocellar setae divergent or lacking. Arista may be distinctly pectinate, plumose or almost bare; face bearing setae and/or setulae; subcranial cavity may be small to very large. Thorax dull to shining, with few to many setae. Wings hyaline to extensively darkened or patterned, costa with humeral and subcostal breaks; Sc vein rudimentary; vein R<sub>1</sub> merging with C before middle of wing; cells bm and dm not separated by a cross-vein; cell cup absent. Anepisternum setulose. No preapical dorsal seta on fore- and hind tibiae. Legs occasionally with ventral armature, fore legs raptorial in *Ochthera*. Abdomen dull to glossy, often somewhat flattened.

**Biology:** Most species have aquatic or semi-aquatic larvae that may have developed structural or physiological adaptations to specific habitats. The food sources vary considerably, depending on the feeding habit. Most shore fly larvae feed by filtering microorganisms (bacteria, unicellular algae, and yeasts) from the surrounding semiliquid medium, although some prefer dead and decaying animal tissue or excrement, or they are phytophagous and mining in leaves or stems. An exception is *Ochthera*, whose cephalopharyngeal skeleton, including the pointed mouthhooks, is robust and well-suited for piercing their preys' exoskeletons. Adults are often found on or near the soil in humid or wet habitats where they mate, oviposit or feed on a wide variety of matters like algae, honeydew, carrion, etc. Some species have been recorded as pests in crops and greenhouses.

**Nomenclature and classification:** The World catalogue of the family (Mathis & Zatwarnicki 1995) is the source of nomenclature with updates from recent revisions of *Discomyza* (Zatwarnicki & Mathis 2007) *Scatella* (Zatwarnicki & Irwin 2018), and *Psilopa* group (Zatwarnicki 2018). The family is divided into four subfamilies: Ephydrinae, Gymnomyzinae, Hydrelliinae, and Lipochaetinae (Zatwarnicki 2023), all of which are present in Switzerland.

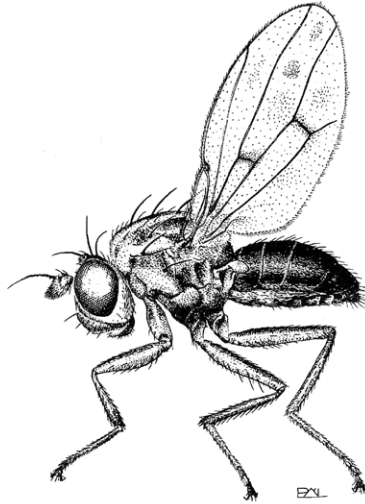
**Number of species:** CH: 104 (1998 Checklist: 88),  
BE: 126, CZ: 158, DE: 174, IT: 175, NL: 137, UK: 155, Europe: 340, World: 2000.

**Level of faunistic knowledge in Switzerland:** Moderate.

**General references:** Mathis & Zatwarnicki (1998) [genera key Palearctic], Zatwarnicki (1997) [North Europe], Drake (2001) [*Notiphila*], Mathis et al. (2009) [*Philotelma*], Olafsson (1991) [Scatellini], Beschovski (2009) [Bulgaria], Stuke (2010) [Germany, selected genera], Papp (1975) [Hungary], Canzoneri & Menghini (1983) [Italy].

**References to the Swiss fauna:** Bächli et al. (2012), Bächli (2014), Hollmann-Schirmmacher & Zatwarnicki (1997), Hollmann-Schirmmacher (1998), Merz et al. (2006), Papp (1985), Zatwarnicki & Hollmann-Schirmmacher (1995).

*Philygria stictica*,  
female (CMPD3, p. 546).



## Checklist

### Ephydriinae

*Axysta* Haliday, 1839

- *cesta* (Haliday, 1833) !

*Coenia* Robineau-Desvoidy, 1830

- *curvicauda* (Meigen, 1830) !
- *palustris* (Fallén, 1823) !

*Hyadina* Curtis, 1837

- *guttata* (Fallén, 1813) !
- *humeralis* Becker, 1896 !
- *rufipes* (Meigen, 1830) !

*Lamproscatella* Hendel, 1917

- *bimaculata* Hendel, 1933 !
- *sibilans* (Haliday, 1833) !

*Limnellia* Malloch, 1925

- *fallax* (Czerny, 1903) !
- *quadrata* (Fallén, 1813) !

*Nostima* Coquillett, 1900

- *picta* (Fallén, 1813) !
- *semialata* (Collin, 1913) !

*Paracoenia* Cresson, 1935

- *fumosa* (Stenhammar, 1844) !

*Parydra* Stenhammar, 1844

(*Chaetoapnaea* Hendel, 1930)

- *fossarum* (Haliday, 1833) !
- *hecate* (Haliday, 1833) !

- *pusilla* (Meigen, 1830) !
- *quadripunctata* (Meigen, 1830) !

(*Parydra* s.str.)

- *aquila* (Fallén, 1813) !
- *coarctata* (Fallén, 1813) !
- *littoralis* (Meigen, 1830) !
- *nigritarsis* Strobl, 1893 !
- *nubecula* Becker, 1896 !

*Philygria* Stenhammar, 1844

- *femorata* (Stenhammar, 1844) !
- *flavipes* (Fallén, 1823) !
- *interrupta* (Haliday, 1833) !
- *interstincta* (Fallén, 1813) !
- *morans* (Cresson, 1930) !
- *obtecta* Becker, 1896 !
- *posticata* (Meigen, 1830) !
- *stenoptera* Hollmann-Schirmmacher, 1998 !
- *stictica* (Meigen, 1830) !
- *vittipennis* (Zetterstedt, 1838) !
- = *trilineata* De Meijere, 1907

*Scatella* Robineau-Desvoidy, 1830

(*Scatella* s.str.)

- *lacustris* (Meigen, 1830) !
- = *tenuicosta* Collin, 1930
- *obsoleta* Loew, 1861 !
- *paludum* (Meigen, 1830) !
- *stagnalis* (Fallén, 1813) !

*Scatophila* Becker, 1896

- *caviceps* (Stenhammar, 1844) !
- *despecta* (Haliday, 1839) !
- *noctula* (Meigen, 1830) !
- *signata* (Loew, 1860) !
- *unicornis* Czerny, 1900 !

*Setacera* Cresson, 1930

- *breviventris* (Loew, 1860) !
- *micans* (Haliday, 1833) !

## Gymnomyzinae

*Allotrichoma* Becker, 1896

- *laterale* (Loew, 1860) !
- *picenum* Canzoneri & Rampini, 1990 !
- *schumanni* Papp, 1974 !
- *simplex* Loew, 1861 !
- = *trispinum* Becker, 1896

*Athyroglossa* Loew, 1860

(*Athyroglossa* s.str.)

- *flaviventris* (Meigen, 1830) !
- *glabra* (Meigen, 1830) !
- *nudiuscula* Loew, 1873 !
- (*Parathyroglossa* Hendel, 1931)
- *ordinata* Becker, 1896 !
- Diclasioipa* Hendel, 1917
- *lacteipennis* (Loew, 1862) !
- *niveipennis* (Becker, 1896) !
- Discocerina* Macquart, 1835
- *obscurella* (Fallén, 1813) !
- Ditrichophora* Cresson, 1924
- *calceata* (Meigen, 1830) !
- = *nigrithorax* (Becker, 1926)
- *fuscella* (Stenhammar, 1844) !
- *olivacea* (Becker, 1896) !
- = *canzonerii* (Rampini, 1980)
- *palliditarsis* (Becker, 1896) !
- Gymnoclasioipa* Hendel, 1930
- *coxalis* (Strobl, 1893) !
- = *dimidiatipennis* (Strobl, 1893)
- *nigerrima* (Strobl, 1893) !
- *plumosa* (Fallén, 1823) !
- *pulchella* (Meigen, 1830) !
- Hecamedoides* Hendel, 1917
- *unispinosus* (Collin, 1943) !
- Mosillus* Latreille, 1804
- *subsultans* (Fabricius, 1794) !
- Ochthera* Latreille, 1802
- *mantis* (De Geer, 1776) !
- Polytrichophora* Cresson, 1924
- (*Sklodowskopa* Zatwarnicki, 2016)
- *duplosetosa* (Becker, 1896) !

## Hydrelliinae

- Diasemocera* Bezzi, 1895
- *glabricula* Fallén, 1813 !
- = *nigritella* Stenhammar, 1844
- *marginella* Fallén, 1823 !
- *roederi* Girschner, 1889 !
- Dichaeta* Meigen, 1830
- *caudata* Fallén, 1813 !
- Discomyza* Meigen, 1830
- *baechlii* Zatwarnicki & Mathis, 2007 !
- *incurva* (Fallén, 1823) !
- Hydrellia* Robineau-Desvoidy, 1830
- *albiceps* (Meigen, 1824) !

= *maura* Meigen, 1838

- *albilabris* (Meigen, 1830) !
- *cardamines* Haliday, 1839 !
- *concolor* (Stenhammar, 1844) !
- *fascitibia* (von Roser, 1840) !
- *flaviceps* (Meigen, 1830) !
- *fulviceps* (Stenhammar, 1844) !
- *fusca* (Stenhammar, 1844) !
- *griseola* (Fallén, 1813) !
- *minutissima* Papp, 1983 !
- *mutata* (Zetterstedt, 1846) !
- *nigricans* (Stenhammar, 1844) !
- *obscura* (Meigen, 1830) !
- *thoracica* Haliday, 1839 !

*Notiphila* Fallén, 1810

(*Agrolimna* Cresson, 1917)

- *venusta* Loew, 1860 !

(*Notiphila* s.str.)

- *aquatica* Becker, 1896 !
- *brunipes* (Robineau-Desvoidy, 1830) !
- *cinerea* Fallén, 1813 !
- *dorsata* (Stenhammar, 1844) !
- *maculata* Stenhammar, 1844 !
- *nigricornis* Stenhammar, 1844 !
- *riparia* Meigen, 1830 !
- *stagnicola* (Robineau-Desvoidy, 1830) !

*Psilopa* Fallén, 1824

- *apicalis* (Perris, 1847) !
  - *compta* (Meigen, 1830) !
  - *nitidula* (Fallén, 1813) !
  - *obscuripes* Loew, 1860 !
  - *polita* (Macquart, 1835) !
  - *stackelbergi* Nartshuk, 1970 !
- = *pappi* (Canzoneri & Meneghini, 1975)

*Trimerina* Macquart, 1835

- *madizans* (Fallén, 1813) !
- *microchaeta* Hendel, 1932 !

### Lipochaetinae

*Ilythea* Haliday, 1839

- *spilota* (Curtis, 1832) !

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