

## Mycetophilidae

Peter J. Chandler (1998 Checklist: Peter J. Chandler)

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**Diagnosis:** A large and diverse family of slender to relatively stout gnats, minute to large (2-15 mm) but more usually small to medium sized (4-8 mm), variously marked with yellow, brown or black colouration. Head small; eyes dichoptic; 2 or 3 ocelli present; antenna usually with 2 + 14 segments, scape and pedicel short, flagellum usually long and slender but sometimes relatively short with narrow segments and (in *Cordyla*) with a reduced number of flagellomeres varying between species; mouthparts short, usually no more than half as long as the height of the head, but sometimes longer or even extremely elongate as in *Gnoriste*. Thorax humpbacked, with bristling of pleural sclerites varying between genera. Wing clear or with various markings; wing membrane with or without macrotrichia; vein Sc ending in C, free or in R; base of vein Rs short before crossvein r-m; vein  $R_{2+3}$  short and ending in  $R_1$  or absent; vein  $R_{4+5}$  unbranched; stem of  $M_{1+2}$  shorter than the fork of  $M_1$  and  $M_2$  (anterior fork) which is usually long and narrow (its branches detached basally in *Manota*); a longitudinal vein bm-m connecting  $M_{1+2}$  with base of stem of posterior fork, which is composed of  $M_4$  and CuA which are fused basally as the stem of this fork, its anterior branch  $M_4$  absent in some genera; anal lobe absent or weak. Legs varying from long and slender with weak bristling to more robust with more or less strong bristling; coxae elongate and tibiae with long apical spurs. Abdomen usually narrow.

**Biology:** The larvae of most species are mycophagous, feeding on the mycelia or fruiting bodies of various fungi. They either feed internally in the fungus or live in a web they have spun on or beneath fungi or rotten wood. Some species of *Mycetophila* and *Platurocypta* specialise in feeding on myxomycetes. A few species are known to develop in bird nests (some *Leia* and *Docosia*), or on mosses or liverworts (some *Boletina* and *Gnoriste*). Larvae usually white with a dark sclerotised head capsule, and usually hemipneustic, with 1 pair of thoracic and at most 7 pairs of abdominal spiracles (the proneustic larva of the cave-dwelling *Speolepta* is an exception). Pupae either free or within a silk cocoon, in either case may be in the substrate, suspended in larval webs or within the fungus tissue where this is less subject to rapid decay. The adults (fungus gnats) occur chiefly in moist habitats, around decaying wood and in undergrowth of forests, especially shaded places beside streams, and they find refuge in cavities and overhangs, although some species may occur in more open wetlands and montane habitats. Some species regularly aestivate or hibernate in caves. Some species visit flowers and are important as pollinators.

**Nomenclature and classification:** According to Fauna Europaea (Chandler, 2005), with minor changes.

**Number of species:** CH: 517 (1998 Checklist: 440), AT: 320, BE: 161, CZ: 542, DE: ~580, GB: 503, FR: 457 [16 Corsica only], HU: 280, IT: 428 [27 Sardinia or Sicily only], NL: 252, SK: 445, Europe: ~1200, World: ~4500.

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



*Mycetophila fungorum*,  
male (CMPD A, p.49).

**General references:** Chandler (2022) [keys, British species of Mycetophilinae], Hutson et al. (1980) [keys, British species except Mycetophilinae], Søli et al. (2000) [keys to Palaearctic genera], Zaitzev (1994) [keys, Russian species except Mycetophilinae], Zaitzev (2003) [keys, Russian species of Mycetophilinae].

**References to the Swiss fauna:** Chandler (1998), Merz et al. (2002, 2006), Bächli et al. (2014).

## Checklist

### Gnoristinae

*Apolephthisa* Grzegorzek, 1885

- *subincana* (Curtis, 1837) !

*Boletina* Staeger, 1840

- *abdita* Plassmann, 1980 !

- *arctica* Holmgren, 1872 !

- *basalis* (Meigen, 1818) !

- *bidenticulata* Sasakawa & Kimura, 1974 ! [1]

- *brevicornis* Zetterstedt, 1852 ! [2]

- *cincticornis* (Walker, 1848) !

- *digitata* (Lundström, 1914) ! [3]

- *dispecta* Dziedzicki, 1885 !

- *dubia* (Meigen, 1804) !

- *gripha* Dziedzicki, 1885 !

- *griphoides* Edwards, 1925 ! [4]

- *jamalensis* Zaitzev, 1994 ! [5]
- *lundstroemi* Landrock, 1912 !
- *maculata* Holmgren, 1870 !
- *moravica* Landrock, 1912 !
- *nigricans* Dziedzicki, 1885 ! [6]
- *nigrofusca* Dziedzicki, 1885 ! [7]
- *nitida* Grzegorzek, 1885 !
- *oreadophila* Chandler, 1995 !
- *pallidula* Edwards, 1925 !
- *plana* (Walker, 1856) !
- *rejecta* Edwards, 1941 !
- *sciarina* Staeger, 1840 !
- *silvatica* Dziedzicki, 1885 !
- *trispinosa* Edwards, 1913 !
- *trivittata* (Meigen, 1818) !
- Coelosia* Winnertz, 1864
  - *flava* (Staeger, 1840) !
  - *fusca* Bezzi, 1892 !
    - = *silvatica* Landrock, 1918
  - *tenella* (Zetterstedt, 1852) !
  - *truncata* Lundström, 1909 !
- Docosia* Winnertz, 1864
  - *chandleri* Ševčík & Laštovka, 2008 ! [8]
  - *fuscipes* (von Roser, 1840) !
  - *gilvipes* (Walker, 1856) !
  - *lastovkai* Chandler, 1994 !
  - *montana* Laštovka & Ševčík, 2006 ! [9]
  - *moravica* Landrock, 1915 !
  - *pallipes* Edwards, 1941 !
  - *sciarina* (Meigen, 1830) !
  - *setosa* Landrock, 1916 !
  - *tibialis* Laštovka & Ševčík, 2006 ! [10]
- Dziedzickia* Johannsen, 1909
  - *marginata* (Dziedzicki, 1885) ! [11]
- Ectrepesthoneura* Enderlein, 1911
  - *colyeri* Chandler, 1980 !
  - *hirta* (Winnertz, 1846) !
  - *pubescens* (Zetterstedt, 1860) !
- Gnoriste* Meigen, 1818
  - *bilineata* Zetterstedt, 1852 !
  - *harcyniae* von Röder, 1887 !
- Grzegorzekia* Edwards, 1941
  - *collaris* (Meigen, 1818) !
    - = *diversa* (Walker, 1856)
  - *hungarica* Papp & Ševčík, 2007 ! [12]
- Katatopygia* Martinsson & Kjaerandsen, 2012 N1

- *erythropyga* (Holmgren, 1883) !
- *sahlbergi* (Lundström, 1906) ! [13]

*Palaeodocosia* Meunier, 1904

- *alpicola* (Strobl, 1895) !
- *vittata* (Coquillett, 1901) ! N2
- = *janickii* (Dziedzicki, 1923)

*Saigusaia* Vockeroth, 1980

- *flaviventris* (Strobl, 1894) !

*Synapha* Meigen, 1818

- *fasciata* Meigen, 1818 !
- *vitripennis* (Meigen, 1818) !

*Sytemna* Winnertz, 1864

- *daisetsuzana* Okada, 1938 !
- *hungarica* (Lundström, 1912) !
- *nitidula* Edwards, 1925 !
- *setigera* (Lundström, 1914) ! N3
- = *haagvari* (Økland, 1995)

*Tetragoneura* Winnertz, 1864

- *sylvatica* (Curtis, 1837) !

**Leiinae***Clastobasis* Skuse, 1890

- *alternans* (Winnertz, 1864) !
- = *unicolor* (Winnertz, 1864)
- *loici* Chandler, 2001 !

*Greenomyia* Brunetti, 1912

- *borealis* (Winnertz, 1864) ! [14]
- *mongolica* Laštovka & Matile, 1974 !
- = *theresae* Matile, 2002

*Leia* Meigen, 1818

- *arsona* Hutson, 1978 !
- *bilineata* (Winnertz, 1864) !
- *bimaculata* (Meigen, 1804) !
- *crucigera* Zetterstedt, 1838 !
- *cylindrica* (Winnertz, 1864) !
- *fascipennis* Meigen, 1818 !
- *martinovskyi* Ševčík & Papp, 2003 ! N4 [15]
- *picta* Meigen, 1830 !
- *subfasciata* (Meigen, 1818) !
- *winthemii* Lehmann, 1822 !

*Megophthalmidia* Dziedzicki, 1889

- *crassicornis* (Curtis, 1837) !

*Novakia* Strobl, 1893

- *scatopsiformis* Strobl, 1893 !

*Rondaniella* Johannsen, 1909

- *dimidiata* (Meigen, 1804) !

**Mycetophilinae***Allodia* Winnertz, 1864

- *anglofennica* Edwards, 1921 !
- *lugens* (Wiedemann, 1817) !
- *lundstroemi* Edwards, 1921 !
- *ornaticollis* (Meigen, 1818) !
- *septentrionalis* Hackman, 1971 ! [16]
- *truncata* Edwards, 1921 !
- *zaitzevi* Kurina, 1998 !
- = *pyxidiiformis* sensu Zaitzev, 1983 partim

*Allodiopsis* Tuomikoski, 1966

- *domestica* (Meigen, 1830) !
- *korolevi* (Zaitzev, 1982) !
- *pseudodomestica* (Lackschewitz, 1937) !
- *rustica* (Edwards, 1941) !

*Anatella* Winnertz, 1864

- *ciliata* Winnertz, 1864 L
- *dampfi* Landrock, 1924 !
- *emergens* Caspers, 1987 !
- *flavomaculata* Edwards, 1925 !
- *gibba* Winnertz, 1864 !
- *lenis* Dziedzicki, 1923 !
- *longisetosa* Dziedzicki, 1923 !
- *minuta* (Staeger, 1840) !
- *novata* Dziedzicki, 1923 ! [17]
- *simpatica* Dziedzicki, 1923 !
- *stimulea* Plassmann, 1977 !
- *turi* Dziedzicki, 1923 !
- *unguigera* Edwards, 1921 !

*Brachycampta* Winnertz, 1864 N5

- *alternans* (Zetterstedt, 1838) !
- *barbata* Lundström, 1909 !
- *czernyi* Landrock, 1912 !
- *elevata* (Zaitzev, 1984) !
- *foliifera* Strobl, 1910 !
- = *triangularis* sensu Lundström, 1909
- *grata* (Meigen, 1830) !
- *neglecta* (Edwards, 1925) !
- *persolla* (Plassmann, 1972) ! [18]
- *pistillata* Lundström, 1911 !
- *protenta* (Laštovka & Matile, 1974) ! [19]
- *silvatica* Landrock, 1912 !
- *triangularis* Strobl, 1895 !
- = *retracta* (Plassmann, 1977)
- = *vernalis* (Polevoi & Zaitzev, 1995)
- *westerholti* (Caspers, 1980) !

= *retracta* (sensu Caspers & Plassmann, 1986)

*Brachypeza* Winnertz, 1864

- *bisignata* Winnertz, 1864 ! [20]

*Brevicornu* Marshall, 1896

- *auriculatum* (Edwards, 1925) !

- *bellum* (Johannsen, 1912) !

- *canadense* (Zaitzev, 1988) ! N6 [21]

= *arcticum* sensu Chandler, 1998

- *canescens* (Zetterstedt, 1852) ! N7

- *fasciculatum* (Lackschewitz, 1937) !

= *arcticoides* Caspers, 1985

- *fennicum* (Landrock, 1927) !

- *fissicauda* (Lundström, 1911) !

- *foliatum* (Edwards, 1925) !

- *fuscipenne* (Staeger, 1840) !

- *griseicolle* (Staeger, 1840) !

- *griseolum* (Zetterstedt, 1840) !

= *boreale* (Lundström, 1914)

- *improvisum* Zaitzev, 1992 !

- *intermedium* (Santos Abreu, 1920) !

= *hissaricum* Zaitzev, 1985

- *nigrofuscum* (Lundström, 1909) !

- *proximum* (Staeger, 1840) !

- *rosmellitum* Chandler, 2001 ! [22]

- *ruficorne* (Meigen, 1838) !

- *serenum* (Winnertz, 1864) !

- *sericoma* (Meigen, 1830) !

- *spathulatum* (Lundström, 1911) ! [23]

- *subfissicauda* Zaitzev, 1985 !

*Cordyla* Meigen, 1803

- *brevicornis* (Staeger, 1840) !

- *crassicornis* Meigen, 1818 !

- *fasciata* Meigen, 1830 !

- *fissa* Edwards, 1925 !

- *flaviceps* (Staeger, 1840) !

- *fusca* Meigen, 1804 !

- *insons* Laštovka & Matile, 1974 ! [24]

- *murina* Winnertz, 1864 !

- *nitens* Winnertz, 1864 !

- *nitidula* Edwards, 1925 !

- *pusilla* Edwards, 1925 !

- *semiflava* (Staeger, 1840) !

- *styliforceps* (Bukowski, 1934) !

*Dynatosoma* Winnertz, 1864

- *cochleare* Strobl, 1895 !

- *fuscicorne* (Meigen, 1818) !

- *majus* Landrock, 1912 !
- *nobile* Loew, 1873 !
- *reciprocum* (Walker, 1848) !
- *rufescens* (Zetterstedt, 1838) ! N8  
= *bukowskii* Zaitzev, 1986
- *thoracicum* (Zetterstedt, 1838) ? N9

*Epicyptha* Winnertz, 1864

- *aterrima* (Zetterstedt, 1852) !
- *fumigata* (Dziedzicki, 1923) !
- *scatophora* Perris, 1849 ! [25]
- *torquata* Matile, 1977 ! [26]

*Exechia* Winnertz, 1864

- *bicincta* (Staeger, 1840) !
- *borealis* Lundström, 1912 ! N10
- *chandleri* Caspers, 1987 !
- *cincta* Winnertz, 1864 !
- *confinis* Winnertz, 1864 !
- *cornuta* Lundström, 1914 !
- *dentata* Lundström, 1916 ! [27]
- *dizona* Edwards, 1924 !
- *dorsalis* (Staeger, 1840) !
- *exigua* Lundström, 1909 !
- *festiva* Winnertz, 1864 !
- *fulva* Santos Abreu, 1920 ! [28]
- *fusca* (Meigen, 1804) !
- *lucidula* (Zetterstedt, 1838) !
- *lundstroemi* Landrock, 1923 !
- *macula* Chandler, 2001 ! N11  
= *maculipennis* (Stannius, 1831)
- *neorepanda* Johannsen, 1912 ! N12  
= *repanda* sensu Edwards, 1941
- *nigra* Edwards, 1925 ! [29]
- *nigroscutellata* Landrock, 1912 !
- *nitidicollis* Lundström, 1913 !
- *parva* Lundström, 1909 !
- *parvula* (Zetterstedt, 1852) !  
= *nana* (Staeger, 1840)
- *pectinivalva* Stackelberg, 1948 !
- *pseudocincta* Strobl, 1910 !
- *pseudofestiva* Lackschewitz, 1937 !
- *repandoides* Caspers, 1984 !
- *separata* Lundström, 1912 !
- *seriata* (Meigen, 1830) !
- *spinuligera* Lundström, 1912 !

*Exechiopsis* Tuomikoski, 1966

(*Exechiopsis* s.str.)

- *clypeata* (Lundström, 1911) !
- *distendens* (Lackschewitz, 1937) !
- *dryaspagensis* Chandler, 1977 !
- *dumitrescae* (Burghel-Balacesco, 1972) !
- *furcata* (Lundström, 1911) !
- *indecisa* (Walker, 1856) !
- *intersecta* (Meigen, 1818) !
- *januarii* (Lundström, 1913) !
- *jenkinsoni* (Edwards, 1925) !
- *lackschewitziana* (Stackelberg, 1948) !
- *magnicauda* (Lundström, 1913) !
- *patula* (Plassmann, 1978) !
- *pseudindecisa* Laštovka & Matile, 1974 !
- *pseudopulchella* (Lundström, 1912) !
- *pulchella* (Winnertz, 1864) !
- *sagittata* Laštovka & Matile, 1974 !
- *subulata* (Winnertz, 1864) !
- *triseta* (Tollet, 1955) !
- *unguiculata* (Lundström, 1911) !
- *vizzavonensis* (Edwards, 1928) !

(*Xenexechia* Tuomikoski, 1966)

- *crucigera* (Lundström, 1909) !
- *davatchii* Matile, 1969 ! [30]
- *leptura* (Meigen, 1830) !
- *membranacea* (Lundström, 1912) !
- *pollicata* (Edwards, 1925) !
- *seducta* (Plassmann, 1976) ! [31]

*Macrobrachius* Dziedzicki, 1889

- *kowarzii* Dziedzicki, 1889 !

*Mycetophila* Meigen, 1803

- *abjecta* (Laštovka, 1963) !
- *adumbrata* Mik, 1884 !
- *alea* Laffoon, 1965 !
- *attonsa* Laffoon, 1957 !
- *autumnalis* Lundström, 1909 !
- *bialorussica* Dziedzicki, 1884 !
- *biusta* Meigen, 1818 ! [32]
- *blanda* Winnertz, 1864 !
- *bohemica* (Laštovka, 1963) !
- *caudata* Staeger, 1840 !
- *cingulum* Meigen, 1830 !
- *confluens* Dziedzicki, 1884 !
- *confusa* Dziedzicki, 1884 !
- *curviseta* Lundström, 1911 !
- *czizekii* Landrock, 1911 ! [33]
- *dentata* Lundström, 1913 !

- *distigma* Meigen, 1830 !
- *dziedzickii* Chandler, 1977 !
- *edwardsi* Lundström, 1913 !
- *eppingensis* Chandler, 2001 ! [34]
- *evanida* Laštovka, 1972 !
- *exstincta* Loew, 1869 !
  - = *mikii* Dziedzicki, 1884
- *finlandica* Edwards, 1913 !
- *forcipata* Lundström, 1913 !
- *formosa* Lundström, 1911 !
- *fraterna* Winnertz, 1864 !
- *freyii* Lundström, 1909 !
- *fungorum* (De Geer, 1776) !
- *gibbula* Edwards, 1925 !
- *hetschkoi* Landrock, 1918 !
- *hyrcania* Laštovka & Matile, 1969 !
- *ichneumonea* Say, 1823 !
- *idonea* Laštovka, 1972 !
- *immaculata* (Dziedzicki, 1884) !
- *laeta* Walker, 1848 !
- *lamellata* Lundström, 1913 ! [35]
- *lastovkai* Caspers, 1984 ! [36]
- *lubomirskii* Dziedzicki, 1884 !
- *luctuosa* Meigen, 1830 !
- *lunata* Meigen, 1904 !
- *magnicauda* Strobl, 1895 !
- *marginata* Winnertz, 1864 !
- *mitis* Johannsen, 1912 ! [37]
- *morosa* Winnertz, 1864 !
- *nigrofusca* Dziedzicki, 1884 !
- *occultans* Lundström, 1913 !
- *ocellus* Walker, 1848 !
- *ornata* Stephens, 1846 !
- *paracruciator* Laštovka & Matile, 1974 !
- *perpallida* Chandler, 1993 !
- *pictula* Meigen, 1830 !
- *pumila* Winnertz, 1864 !
- *quadra* Lundström, 1909 !
- *rudis* Winnertz, 1864 !
- *ruficollis* Meigen, 1818 !
- *schnablilii* (Dziedzicki, 1884) !
- *scotica* Edwards, 1941 !
- *sepulta* (Laffoon, 1957) !
- *sigillata* Dziedzicki, 1884 !
- *sigmoides* Loew, 1869 !
- *signata* Meigen, 1830 !

- *signatoides* Dziedzicki, 1884 !
- *sinuosa* Plassmann & Schacht, 1999 ! [38]
- *sordida* van der Wulp, 1874 !
- *spectabilis* Winnertz, 1864 !
- *stolida* Walker, 1856 !
- *strigata* Staeger, 1840 !
- *strigatoides* (Landrock, 1927) !
- *strobli* Laštovka, 1972 !
- *stylata* (Dziedzicki, 1884) !
- *subsigillata* Zaitzev, 1999 ! [39]
- *telei* Zaitzev, 1999 ! N13 [40]
- *tomensis* (Plotnikova, 1962) ! [41]
- *triangularis* Lundström, 1912 ! [42]
- *trinotata* Staeger, 1840 !
- *uliginosa* Chandler, 1988 ! [43]
- *unicolor* Stannius, 1831 !
- *uninotata* Zetterstedt, 1852 !
- *unipunctata* Meigen, 1818 !
- *v-nigrum* Lundström, 1913 !
- *vittipes* Zetterstedt, 1852 !
- *xanthopyga* Winnertz, 1864 !
- *zetterstedtii* Lundström, 1906 !
- Myrosia* Tuomikoski, 1966 N14
  - *maculosa* (Meigen, 1818) !
- Notolopha* Tuomikoski, 1966 N14
  - *cristata* (Staeger, 1840) !
- Phronia* Winnertz, 1864
  - *basalis* Winnertz, 1864 !
  - *biarcuata* (Becker, 1908) !
  - *bicolor* Dziedzicki, 1889 L
    - = *fusciventris* van Duzee, 1928
  - *braueri* Dziedzicki, 1889 !
  - *caliginosa* Dziedzicki, 1889 !
  - *cinerascens* Winnertz, 1864 !
  - *conformis* (Walker, 1856) !
  - *crassitarsus* Hackman, 1970 !
    - = *bicolor* sensu Gagné, 1975
  - *disgrega* Dziedzicki, 1889 !
  - *dziedzickii* Lundström, 1906 !
  - *egregia* Dziedzicki, 1889 !
  - *exigua* (Zetterstedt, 1852) !
  - *flavipes* Winnertz, 1864 !
  - *forcipata* Winnertz, 1864 !
  - *forcipula* Winnertz, 1864 !
  - *gagnei* Chandler, 1992 !
  - *humeralis* Winnertz, 1864 !

- *maculata* Dziedzicki, 1889 ! [44]
- *matilei* Hackman, 1972 L
- *minuta* Landrock, 1928 !
- *nigricornis* (Zetterstedt, 1852) !
- *nitidiventris* (van der Wulp, 1858) !
- *notata* Dziedzicki, 1889 !
- *obtusa* Winnertz, 1864 !
- *peculiaris* Dziedzicki, 1889 !
- *persimilis* Hackman, 1970 !
- *petulans* Dziedzicki, 1889 !
- *siebeckii* Dziedzicki, 1889 !
- *signata* Winnertz, 1864 !
- *strenua* Winnertz, 1970 !
- *taczanowskyi* Dziedzicki, 1889 !
- *tenuis* Winnertz, 1864 !
- *tiefii* Dziedzicki, 1889 L
- *triangularis* Winnertz, 1864 !
- *tyrrhenica* Edwards, 1928 !
- *unica* Dziedzicki, 1889 ! [45]
- *vitrea* Plassmann, 1999 ! [46]
- *willistoni* Dziedzicki, 1889 ! [47]

*Platurocypta* Enderlein, 1910

- *punctum* (Stannius, 1831) !
- *testata* (Edwards, 1925) !

*Pseudexechia* Tuomikoski, 1966

- *tresignata* (Edwards, 1925) !
- *trivittata* (Staeger, 1840) !
- *tuomikoskii* Kjærandsen, 2009 ! [48]

*Pseudobrachypeza* Tuomikoski, 1966

- *helvetica* (Walker, 1856) !
- = *pseudohelvetica* Plassmann, 1984

*Pseudorymosia* Tuomikoski, 1966

- *fovea* (Dziedzicki, 1910) !

*Rymosia* Winnertz, 1864

- *acta* Dziedzicki, 1910 !
- *affinis* Winnertz, 1864 !
- = *gracilipes* Dziedzicki, 1910
- *beaucournoi* Matile, 1963 !
- *bifida* Edwards, 1925 !
- *caucasia* Plassmann, 1976 ! [49]
- *connexa* Winnertz, 1864 !
- *cottii* Tollet, 1956 L
- *fasciata* (Meigen, 1804) !
- *fraudatrix* Dziedzicki, 1910 !
- *lundstroemi* Dziedzicki, 1910 !
- = *matilei* Burghel-Balacesco, 1972, preocc.

- *placida* Winnertz, 1864 !
- *setiger* Dziedzicki, 1910 !
- *signatipes* (van der Wulp, 1859) ! [50]
- *spiniforceps* Matile, 1963 !
- *spinipes* Winnertz, 1864 !
- *tristis* Matile, 1967 !
- *virens* Dziedzicki, 1909 !

*Sceptonia* Winnertz, 1864

- *costata* (van der Wulp, 1859) !
- *cryptocauda* Chandler, 1991 !
- *flavipuncta* Edwards, 1925 ! [51]
- *fumipes* Edwards, 1925 ! [52]
- *fuscipalpis* Edwards, 1925 !
- *membranacea* Edwards, 1925 !
- *nigra* (Meigen, 1804) !
- *pappi* Ševčík, 2004 ! [53]
- *pilosa* Bukowski, 1934 !
- *pughi* Chandler, 1991 ! [54]
- *tenuis* Edwards, 1925 ! [55]

*Stigmatomeria* Tuomikoski, 1966

- *crassicornis* (Stannius, 1831) !

*Synplasta* Skuse, 1890

- *exclusa* (Dziedzicki, 1910) ! [56]
- *gracilis* (Winnertz, 1864) ! N15  
= *excogitata* (Dziedzicki, 1910)
- *ingeniosa* (Kidd, 1969) !
- *rufilatera* (Edwards, 1941) ! [57]

*Tarnania* Tuomikoski, 1966

- *dziedzickii* (Edwards, 1941) !
- *fenestralis* (Meigen, 1818) !  
= *bavaria* Plassmann, 1980
- *nemoralis* (Edwards, 1941) !
- *tarnanii* (Dziedzicki, 1910) !

*Trichonta* Winnertz, 1864

- *atricauda* (Zetterstedt, 1852) !
- *bezzii* Landrock, 1913 !
- *bicolor* Landrock, 1912 L
- *brevicauda* Lundström, 1906 !
- *clavigera* Lundström, 1913 !
- *comica* Gagné, 1981 !
- *conjungens* Lundström, 1909 !
- *falcata* Lundström, 1911 !
- *fissicauda* (Zetterstedt, 1852) !
- *flavicauda* Lundström, 1914 !
- *fragilis* Gagné, 1981 !
- *fusca* Landrock, 1918 ! [58]

- *girschneri* Landrock, 1912 !
- *hamata* Mik, 1880 !
- *lyrica* Gagné, 1981 ! [59]
- *melanura* (Staeger, 1840) !
- *subfusca* Lundström, 1909 !
- *subterminalis* Zaitzev & Menzel, 1996 ! N16 [60]
- *terminalis* (Walker, 1856) ! N16
- *tristis* (Strobl, 1898) !
- *venosa* (Staeger, 1840) !
- *vitta* (Meigen, 1830) !
- *vulcani* (Dziedzicki, 1889) !
- *vulgaris* Loew, 1869 L

#### *Zygomomyia* Winnertz, 1864

- *humeralis* (Wiedemann, 1817) !
- *kiddi* Chandler, 1991 !
- *matilei* Caspers, 1980 ! [61]
- *notata* (Stannius, 1831) ! [62]
- *pictipennis* (Staeger, 1840) !
- *pseudohumeralis* Caspers, 1980 !
- *semifusca* (Meigen, 1818) !
  - = *thaleri* Plassmann, 1986
- *setosa* Barendrecht, 1938 !
- *valeriae* Chandler, 1991 !
- *valida* Winnertz, 1864 !
- *vara* (Staeger, 1840) !

#### **Mycomyinae**

##### *Mycomya* Rondani, 1856

(*Cesamyia* Väisänen, 1984) N17

- *pectinifera* (Edwards, 1924) !

(*Cymomyia* Väisänen, 1984)

- *circumdata* (Staeger, 1840) !

(*Mycomya* s.str.)

- *alpina* (Matile, 1972) !
- *annulata* (Meigen, 1818) !
- *bialorussica* (Landrock, 1925) !
- *bicolor* (Dziedzicki, 1885) !
- *brunnea* (Dziedzicki, 1885) !
- *cinerascens* (Macquart, 1826) !
- *collini* (Edwards, 1941) !
- *danielae* (Matile, 1972) !
- *denmax* Väisänen, 1979 !
- *digitifera* (Edwards, 1925) !
- *dziedzickii* Väisänen, 1981 !
- *fissa* (Lundström, 1911) !
- *flavicollis* (Zetterstedt, 1852) !

- *fornicata* (Lundström, 1911) !
- *fuscata* (Winnertz, 1864) !
- *griseovittata* (Zetterstedt, 1852) !
  - = *fasciata* (Zetterstedt, 1838), preocc.
- *hackmani* Väisänen, 1984 !
- *heydeni* (Plassmann, 1970) ! [63]
- *hiisi* Väisänen, 1979 ! [64]
- *insignis* (Winnertz, 1864) !
- *lambi* (Edwards, 1941) !
- *livida* (Dziedzicki, 1885) ! [65]
- *marginata* (Meigen, 1818) !
- *neohyalinata* Väisänen, 1984 !
- *nitida* (Zetterstedt, 1852) !
- *occultans* (Winnertz, 1864) !
- *ornata* (Meigen, 1818) !
- *parva* (Dziedzicki, 1885) !
- *prominens* (Lundström, 1913) !
- *punctata* (Meigen, 1804) ! [66]
- *ruficollis* (Zetterstedt, 1852) !
- *shermani* Garrett, 1924 !
  - = *kingi* Edwards, 1941
- *siebecki* (Landrock, 1912) !
- *sigma* Johannsen, 1910 !
- *storai* Väisänen, 1979 !
- *tenuis* (Walker, 1856) !
- *trivittata* (Zetterstedt, 1838) !
- *tumida* (Winnertz, 1864) !
- *vittiventris* (Zetterstedt, 1852) !
- *wankowiczii* (Dziedzicki, 1885) !
- *winnertzi* (Dziedzicki, 1885) !
- (*Mycomyopsis* Väisänen, 1984)
  - *affinis* (Staeger, 1840) !
    - = *flava* (Winnertz, 1864)
  - *maura* (Walker, 1856) !
  - *paradentata* Väisänen, 1984 ! [67]
  - *permixta* Väisänen, 1984 ! [68]
  - *trilineata* (Zetterstedt, 1838) !
    - = *fusca* (Meigen, 1818)
- (*Neomycomya* Väisänen, 1984)
  - *fimbriata* (Meigen, 1818) !
- Neoempheria* Osten Sacken, 1878
  - *bimaculata* (von Roser, 1840) !
  - *lineola* (Meigen, 1818) !
  - *pictipennis* (Haliday, 1833) !
  - *proxima* (Winnertz, 1864) !
  - *striata* (Meigen, 1818) !

- *stubbisi* Chandler & Ribeiro in Ševčík & Papp, 2003 ! [69]
- *winnertzi* Edwards, 1913 !

### Sciophilinae

#### *Acnemia* Winnertz, 1864

- *amoena* Winnertz, 1864 !
- *longipes* Winnertz, 1864 !
- *nitidicollis* (Meigen, 1818) !

#### *Allocotocera* Mik, 1886

- *pulchella* (Curtis, 1837) !

#### *Anaclileia* Meunier, 1904

- *beshovskii* Bechev, 1990 !

#### *Azana* Walker, 1856

- *anomala* (Staeger, 1840) !

#### *Coelophthinia* Edwards, 1941

- *thoracica* (Winnertz, 1864) !

#### *Leptomorphus* Curtis, 1831

- *forcipatus* (Landrock, 1918) ! N18
- = *quadrimaculatus* sensu Matile, 1977
- *walkeri* Curtis, 1831 !

#### *Megalopelma* Enderlein, 1911

- *nigroclavatum* (Strobl, 1910) !

#### *Monoclona* Mik, 1886

- *braueri* (Strobl, 1895) ! [70]
- *rufilatera* (Walker, 1837) !

#### *Neuratelia* Rondani, 1856

- *nemoralis* (Meigen, 1818) !
- *subulata* Zaitzev, 1994 !

#### *Paratinia* Mik, 1874

- *sciarina* Mik, 1874 ! [71]

#### *Phthinia* Winnertz, 1864

- *dallaii* Zaitzev, 2001 !
- *humilis* Winnertz, 1864 !
- *mira* (Ostroverkhova, 1977) !
- *winnertzi* Mik, 1869 !

#### *Polylepta* Winnertz, 1864

- *borealis* Lundström, 1912 L
- *guttiventris* (Zetterstedt, 1852) !
- *zonata* (Zetterstedt, 1852) ! N19
- = *meridionalis* Bechev, 1990

#### *Sciophila* Meigen, 1818

- *adamsi* Edwards, 1925 ! [72]
- *arizonensis* Zaitzev, 1982 ! [73]
- *baltica* Zaitzev, 1982 !
- *corlutea* Chandler, 2001 !
- *fenestella* Curtis, 1837 ! [74]

- *geniculata* Zetterstedt, 1838 !
- *hirta* Meigen, 1818 !
- *jakutica* Blagoderov, 1992 !
- *limbatella* Zetterstedt, 1852 !
- *lutea* Macquart, 1826 !
- *modesta* Zaitzev, 1982 !
- *nigronitida* Landrock, 1925 !
- *nonnisilva* Hutson, 1979 !
- *pseudoflexuosa* Kurina, 1991 !
- *rufa* Meigen, 1830 !
- *silvatica* Zaitzev, 1982 !
- *spinifera* Zaitzev, 1982 !
- *subbicuspidata* Zaitzev & Økland, 1994 ! [75]
- *thoracica* Staeger, 1840 ! N20  
= *quadriterga* Hutson, 1979

*Speolepta* Edwards, 1925

- *leptogaster* (Winnertz, 1864) !

## Excluded species

*Exechia frigida* (Boheman, 1868)

## Notes

- N1 The genus *Katatopygia* was erected by Martinsson & Kjærandsen (2012) for a group of species formerly included in *Boletina*.
- N2 Chandler (2005) replaced *Palaeodocosia janickii* (Dziedzicki, 1923) with the senior synonym *vittata* (Coquillett, 1901).
- N3 Polevoi (2003) proposed the synonymy of *Syntemna haagvari* Økland, 1995 with *S. setigera* (Lundström, 1914).
- N4 *Leia martinovskyi* was described from a single male from Slovakia (Ševčík & Papp 2003). It was the new species of *Leia* mentioned in the 1998 Checklist by Chandler (1998 [p.124, note 4]). The Swiss males agree in structure with the figure of the holotype, but have the gonostylus (blackish brown in the holotype) brownish yellow and not different in colour from the gonocoxites.
- N5 *Brachycampta* Winnertz, previously treated as a subgenus of *Allodia* Winnertz was raised to generic rank by Magnussen et al. (2021).
- N6 Chandler (2022) recognised that the species listed in the 1998 Checklist by Chandler (1998) as *Brevicornu arcticum* (Lundström, 1913) is correctly identified as *B. canadense* (Zaitzev, 1988) and mentioned its occurrence in Switzerland.
- N7 Application of the names *canescens* Zetterstedt, 1852 and *griseolum* Zetterstedt, 1840 in the genus *Brevicornu* was corrected by Kjærandsen (2005).
- N8 *Dynatosoma bukowskii* Zaitzev, 1986 was synonymised with *D. rufescens* (Zetterstedt, 1838) by Zaitzev (2003).
- N9 The identity of the Swiss record of *Dynatosoma thoracicum* (Zetterstedt, 1838) (MHNN) requires confirmation.
- N10 Kjærandsen et al. (2007) established that *Exechia borealis* Lundström, 1912 was a distinct species that had been confused with *E. frigida* (Boheman, 1865). Swiss material identified previously as *E. frigida* has now been identified as *E. borealis*.
- N11 Chandler (2001) proposed *macula* as a replacement name for *maculipennis* Stannius, 1831, which was preoccupied in the genus *Mycetophila* by Say, 1824.
- N12 Lindemann et al. (2021) found that European specimens identified as *Exechia repanda* Johannsen, 1912 are a distinct species and proposed the name *E. neorepanda* for the European species.

- N13 *Mycetophila telei* Zaitzev, 1999 was described from the Altai region of Russia and this is the first European record of this species.
- N14 The subgenera *Myrosia* Tuomikoski, 1966 and *Notalopha* Tuomikoski, 1966 were raised to generic rank by Sjøli et al. (2000).
- N15 Ševčík & Papp (2001) established that *gracilis* Winnertz, 1863 was the correct name for the species previously identified as *Synplasta excogitata* (Dziedzicki, 1910). It was not clear whether *excogitata* is the same species, or a nomen dubium.
- N16 Chandler (2022) found that most specimens identified as *Trichonta terminalis* (Walker, 1856) are *T. subterminalis* Zaitzev & Menzel, 1996. Occurrence of *T. subterminalis* in Switzerland is confirmed here; presence of *T. terminalis* needs confirmation.
- N17 Koçak & Kemal (2010) proposed *Cesamya* as a replacement name for *Lycomya* Väisänen, 1984, which was preoccupied in Asilidae by Bigot, 1857.
- N18 *Leptomorphus forcipatus* Landrock, 1918 was shown to be a different species from *L. quadrimaculatus* (Matsumura, 1916) by Zaitzev & Ševčík (2002), and this was confirmed by Borkent & Wheeler (2012).
- N19 Kurina (2003) proposed the synonymy of *Polylepta meridionalis* Bechev, 1990 with *zonata* Zetterstedt, 1852.
- N20 Chandler (2001) proposed the synonymy of *Sciophila quadrirgera* Hutson, 1979 with *S. thoracica* Staeger, 1840.

### Species records

- [1] 1M, SO, Bettlach, 2001, leg. Peter Duelli (CGB)
- [2] 1M, GR, Dischmatal, 1.7.1992, leg. Peter Brodmann (CGB)
- [3] 1M, TI, Robiei, 4.7.2008, leg. Gerhard Bächli (CGB)
- [4] 1M, SO, Bettlach, 2001, leg. Peter Duelli (CGB)
- [5] 1M, GR, Nationalpark, 2006, leg. Peter Duelli (CGB)
- [6] 1M, BE, Beatenberg, 2006, leg. Peter Duelli (CGB)
- [7] 1M, GR, Alp Flix, 4.8.1978, leg. Gerhard Bächli (CGB)
- [8] 4M, GR, Alp Flix, 4.8.1975, leg. Gerhard Bächli (CGB)
- [9] GR, Zernez, 15-18.8.1978, leg. Gerhard Bächli (CGB)
- [10] 3M, VS, Riederalp, 31.7.1976, leg. Gerhard Bächli (CGB)
- [11] 1M, GR, S-chanf-Flin, 7.8.1996, leg. Bernhard Merz
- [12] 1M, ZH, Dietikon, 18.7.1999, leg. Gerhard Bächli (CGB)
- [13] 2M, GR, Zernez, 15.8.1978, leg. Gerhard Bächli (CGB)
- [14] 1M, GE, Jussy, 2000, leg. Peter Duelli (CGB)
- [15] 19M, ZH, Sihlwald, 24.5.1996, leg. Karin Schiegg
- [16] 1M, SZ, Alptal, 2000, leg. Peter Duelli (CGB)
- [17] 1M, SO, Bettlach, 2001, leg. Peter Duelli (CGB)
- [18] 1M, VD, Cudrefin, 29.6.1972, leg. Paul H. Arnaud (MNHN)
- [19] 1M, GR, Santa Maria Müstair, 29.6.2013, leg. Gerhard Bächli (CGB)
- [20] 1M, BL, Bubendorf, 3.8.2000, leg. Matthias Wolf (CGB)
- [21] 1M, ZH, Dietikon, 5.1974, leg. Gerhard Bächli (CGB)
- [22] 1M, GL, Klöntal, 11.9.1974, leg. Gerhard Bächli (CGB)
- [23] 1M, AG, Sarmenstorf, 26.6.2019, leg. Beat Wermelinger (CGB)
- [24] 2M, VS, Leuk, 7.7.1993, leg. Gerhard Bächli (CGB)
- [25] 1M, TI, Bolle di Magadino, 9.8.1997, leg. Gerhard Bächli (CGB)
- [26] 4M, BE, Weissenburg, , leg. Gustav Huguenin (ETH)
- [27] 1M, TI, Biasca, 7.8.1997, leg. Gerhard Bächli (CGB)
- [28] 2M, GR, Dischmatal, 30.5.1979, leg. Beat A. Wartmann (CGB)
- [29] 1M, GR, Davos, 2001, leg. Peter Duelli (CGB)
- [30] 1M, BE, Weissenburg, , leg. Gustav Huguenin (ETH)
- [31] 1M, BL, Bubendorf, 7.9.2000, leg. Matthias Wolf (CGB)
- [32] 1M, GR, Zernez, 4.8.1996, leg. Gerhard Bächli (CGB)

- [33] 1M, BL, Bubendorf, 31.8.2000, leg. Matthias Wolf (CGB)  
 [34] 4M, TI, Someo, 25.7.1997, leg. Gerhard Bächli (CGB)  
 [35] 1M, SO, Messen, 15.5.2019, leg. Beat Wermelinger (CGB)  
 [36] 2M, SO, Messen, 28.3.2019, leg. Beat Wermelinger (CGB)  
 [37] 1M, ZG, Embrach, Haumühle, 9.5.1998, leg. Gerhard Bächli (CGB)  
 [38] 1M, TI, Acquarossa, 17.7.1998, leg. Gerhard Bächli (CGB)  
 [39] 1M, TI, Ravatoi/Calonico, 27.8.1981, leg. Gerhard Bächli (CGB)  
 [40] 1M, VS, Lens, 2001, leg. Peter Duelli (CGB)  
 [41] 1M, BL, Bubendorf, 13.7.2000, leg. Matthias Wolf (CGB)  
 [42] 1M, SO, Messen, 27.9.2004, leg. Beat Wermelinger (CGB)  
 [43] 1M, ZH, Zürich, 24.6.2006, leg. Thomas Sattler (CGB)  
 [44] 1M, SZ, Alptal, 2000, leg. Peter Duelli (CGB)  
 [45] 1M, BE, Weissenburg, , leg. Gustav Huguenin (ETH)  
 [46] 1M, SO, Bettlach, 2001, leg. Peter Duelli (CGB)  
 [47] 1M, VS, Leuk, 23.8.1977, leg. Gerhard Bächli (CGB)  
 [48] 1M, AG, Sarmenstorf, 2004, leg. Beat Wermelinger (CGB)  
 [49] 1M, SZ, Alptal, 2000, leg. Peter Duelli (CGB)  
 [50] 1M, AG, Habsburg, 19.4.2004, leg. Beat Wermelinger (CGB)  
 [51] 4M, TI, Someo, 25.7.1997, leg. Gerhard Bächli (CGB)  
 [52] 1M, SG, Sarmenstorf, 7.10.2019, leg. Beat Wermelinger (CGB)  
 [53] SO, Bettlach, 2001, leg. Peter Duelli (CGB)  
 [54] 2M, NE, Neuchâtel, 3.7.2010, leg. Gerhard Bächli (CGB)  
 [55] 1M, TI, Corzoneso, 17.7.1998, leg. Gerhard Bächli (CGB)  
 [56] 1M, SG, Sarmenstorf, 7.10.2019, leg. Beat Wermelinger (CGB)  
 [57] 1M, BL, Bubendorf, 3.8.2000, leg. Matthias Wolf (CGB)  
 [58] 1M, AG, Würenlingen, 6.6.1973, leg. Gerhard Bächli (CGB)  
 [59] 1M, VD, Lausanne, Bellevaux, 24.6.1976, leg. Paul H. Arnaud (MNHN)  
 [60] VS, Visperterminen, 16.12.1995, leg. Olivier Mermod (ETH)  
 [61] 1M, ZH, Dietikon, 2.8.1997, leg. Gerhard Bächli (CGB)  
 [62] 2M, JU, Delémont, 2.8.1974, leg. Gerhard Bächli (CGB)  
 [63] 1M, BE, Weissenburg, , leg. Gustav Huguenin (ETH)  
 [64] 2M, SZ, Alptal, 2006, leg. Peter Duelli (CGB)  
 [65] 1M, BE, Weissenburg, , leg. Gustav Huguenin (ETH)  
 [66] 1M, AG, Würenlingen, 6.6.1973, leg. Gerhard Bächli (CGB)  
 [67] 1M, UR, Seelisberg, 4.8.1973, leg. Gerhard Bächli (CGB)  
 [68] 6M, TI, Faido, 24.8.1981, leg. Gerhard Bächli (CGB)  
 [69] 1M, AG, Habsburg, 10.7.2019, leg. Beat Wermelinger (CGB)  
 [70] 1M, SZ, Alptal, 2000, leg. Peter Duelli (CGB)  
 [71] 2M, GR, Alp Flix, 4.8.1975, leg. Gerhard Bächli (CGB)  
 [72] 1M, BL, Bubendorf, 10.8.2000, leg. Matthias Wolf (CGB)  
 [73] 1M, TI, Angone/Anzonico, 21.8.1981, leg. Gerhard Bächli (CGB)  
 [74] 3M, AG, Sarmenstorf, 6.9.2004, leg. Beat Wermelinger (CGB)  
 [75] 1M, GR, Dischmatal, 16.6.1990, leg. Peter Brodmann (CGB)

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