

**Calliphoridae** (incl. Rhinophorinae, excl. Polleniidae)

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**Diagnosis:** The current circumscription of the family Calliphoridae follows that of Yan et al. (2021), including a morphologically and ecologically heterogeneous clade for which no unique autapomorphies can be identified. The family typically includes medium to large sized oestroid flies, often characterised by green or blue metallic colouration, but there are numerous exceptions (see Rognes 1991, 1998a, Cerretti et al. 2020).

**Biology:** The natural history of the family shows great diversity; calliphorids can develop as scavengers, feeding on vertebrates or other sources, or as coprophagous. They can also be parasitoids, preying on various groups including arthropods, molluscs and annelids. Adult calliphorids have a varied diet, consuming substances ranging from excrement and decaying animal and plant tissues to plant exudates, nectar and pollen.

**Nomenclature and classification:** Since the publication of the 1998 Checklist, there have been significant changes in the classification of oestroid flies, in particular in the definition of the family Calliphoridae. Currently, following the results of phylogenetic studies carried out using different types of data and different taxa, Polleniidae and Mesembrinellidae (formerly treated as subfamilies of Calliphoridae) have been elevated to family status. The remaining calliphorids now form a monophyletic group. According to the recent classification by Yan et al. (2021), this includes the subfamilies Calliphorinae, Chrysomyiinae, Ameniinae, Luciliinae, Rhiniinae and Rhinophorinae.

**Number of species:** CH: 58 (1998 Checklist: 55 [52+14-11]).

**Level of faunistic knowledge in Switzerland:** Overall good. However, a significant proportion of current species reports of Calliphoridae are based on a limited number of records, most of which date back to the last century. This presents a challenge as the current conservation status of all reported species remains unclear and the number of species that have experienced local extinctions is unknown. Identifying and prioritising this information gap is crucial for future efforts. This will enable us to accurately assess the extinction risk of recorded species and develop comprehensive and informative Red Lists.

**General references:** Rognes (1991), Cerretti et al. (2020), Gisondi et al. (2023).

**References to the Swiss fauna:** Ringdal (1957), Meisterhans & Heusser (1970), Rognes (1998b, 2008), Pape et al. (2015).



*Lucilia sericata*,  
male (CMPD3, p. 617).

## Checklist

### Ameniinae

- Eurychaeta* Brauer & Bergenstamm, 1891  
- *palpalis* (Robineau-Desvoidy, 1830) !

### Calliphorinae

- Angioneura* Brauer & Bergenstamm, 1893  
- *acerba* (Meigen, 1838) !  
- *cyrtoneurina* (Zetterstedt, 1859) L  
- *fimbriata* (Meigen, 1826) !
- Bellardia* Robineau-Desvoidy, 1863  
- *bayeri* (Jacentkovsky, 1937) !  
- *pandia* (Walker, 1849) !  
- *pubicornis* (Zetterstedt, 1838) !  
- *stricta* (Villeneuve, 1926) !  
- *vespillo* (Fabricius, 1794) !  
- *viarum* (Robineau-Desvoidy, 1830) !  
- *vulgaris* (Robineau-Desvoidy, 1830) !
- Calliphora* Robineau-Desvoidy, 1830  
- *genarum* (Zetterstedt, 1838) !  
- *loewi* Enderlein, 1903 !  
- *stelviana* (Brauer & Bergenstamm, 1891) !  
- *stylifera* (Pokorny, 1889) ! N1  
- *subalpina* (Ringdahl, 1931) !  
- *vicina* Robineau-Desvoidy, 1830 !  
- *vomitorea* (Linnaeus, 1758) !

- Cynomya* Robineau-Desvoidy, 1830  
 - *mortuorum* (Linnaeus, 1760) !
- Eggisops* Rondani, 1862  
 - *pecchiolii* Rondani, 1862 !
- Melanomya* Rondani, 1856  
 - *nana* (Meigen, 1826) !
- Melinda* Robineau-Desvoidy, 1830  
 - *gentilis* (Robineau-Desvoidy, 1830) !  
 - *viridicyanea* (Robineau-Desvoidy, 1830) !
- Onesia* Robineau-Desvoidy, 1830  
 - *floralis* Robineau-Desvoidy, 1830 !  
 - *zumpti* Schumann, 1964 !

### Chrysomyinae

- Chrysomya* Robineau-Desvoidy, 1830  
 - *albiceps* (Wiedemann, 1819) !
- Phormia* Robineau-Desvoidy, 1830  
 - *regina* (Meigen, 1826) !
- Protocalliphora* Hough, 1899  
 - *azurea* (Fallén, 1817) !  
 - *falcozi* Séguy, 1928 !  
 - *lii* Fan, 1965 !  
 - *nuortevai* Grunin, 1972 !  
 - *peusi* Gregor & Povolný, 1959 !
- Protophormia* Townsend, 1908  
 - *terraenovae* (Robineau-Desvoidy, 1830) !
- Trypocalliphora* Peus, 1960  
 - *braueri* Hendel, 1901 !

### Luciliinae

- Lucilia* Robineau-Desvoidy, 1830  
 - *ampullacea* Villeneuve, 1922 !  
 - *bufonivora* Moniez, 1876 L N2  
 - *caesar* (Linnaeus, 1758) !  
 - *illustris* (Meigen, 1826) !  
 - *pilosiventris* Kramer, 1910 ? N3  
 - *richardsi* Collin, 1926 !  
 - *sericata* (Meigen, 1826) !  
 - *silvarum* (Meigen, 1826) !

### Rhiniinae

- Stomorhina* Rondani, 1861  
 - *lunata* (Fabricius, 1805) !

### Rhinophorinae

- Melanophora* Robineau-Desvoidy, 1830

- *roralis* (Linnaeus, 1758) !

*Oplisa* Rondani, 1862

- *tergestina* (Schiner, 1861) !

*Paykullia* Robineau-Desvoidy, 1830

- *brevicornis* (Zetterstedt, 1844) L

- *maculata* (Fallén, 1815) !

*Phyto* Robineau-Desvoidy, 1830

- *angustifrons* Rondani, 1861 !

- *cingulata* (Zetterstedt, 1844) !

- *melanocephala* (Meigen, 1824) !

- *similis* Stein, 1924 !

*Rhinomorinia* Brauer & Bergenstamm, 1889

- *sarcophagina* (Schiner, 1862) !

*Rhinophora* Robineau-Desvoidy, 1830

- *lepida* (Meigen, 1824) !

*Stevenia* Robineau-Desvoidy, 1830

- *acutangula* (Villeneuve, 1910) !

- *atramentaria* (Meigen, 1824) !

- *deceptorica* (Loew, 1847) !

- *umbratica* (Fallén, 1820) !

*Tricogena* Rondani, 1856

- *rubricosa* (Meigen, 1824) !

## Excluded species

*Onesia austriaca* Villeneuve, 1920 N4

## Notes

N1 *Calliphora stylifera* occurs in Switzerland and Italy only.

N2 *Lucilia bufonivora* was mentioned for Switzerland by Meisterhans & Heusser (1970).

N3 *Lucilia pilosiventris*: the specimen cited by Ringdahl (1957: 123) from Basel, could not be found in ZMLund after a request in 2003.

N4 *Onesia austriaca* was removed from the list. In the 1998 Checklist (p. 335, 336) I kept the record because Ringdahl (1957: 123) had reported it from Arosa (Graubünden), but I had not been able to examine the specimen at the time. I have since been able to examine the specimen (in ZMLund) (7 March 2003). It was a misidentified specimen of *Onesia floralis* (KR).

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