

## Ditomyiidae

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

Last update: Jul 2024

**Diagnosis:** Medium sized (6-8 mm), yellowish brown gnats with long and slender legs and abdomen, and broad wings with a characteristic venation (including a long vein  $R_{2+3}$ ). Head and eyes small; three ocelli present; antenna with 2+14 segments, cylindrical or laterally compressed and/or long pubescent. Thorax humpbacked. Wings broad, clear or slightly tinged (*Symmerus* and *Ditomyia macroptera* Winnertz, 1852) or with transverse brown bands (*Ditomyia fasciata* (Meigen, 1818)); membrane bearing macrotrichia; vein Sc short, ending free; vein Rs deeply forked with both branches long, anterior branch ( $R_{2+3}$ ) ending in costa; base of M missing, vein bm-m linking  $M_{1+2}$  to base of  $M_4$  in line with m-Cu, which meets CuA well beyond its base; anal lobe weak or absent. Coxae elongate; tibiae with long apical spurs.

**Biology:** The larvae live in bracket fungi (*Ditomyia*) or in decaying wood with fungal growth (*Symmerus*). They are white, with a strongly sclerotised head capsule, and are peripneustic with the prothorax and eight abdominal segments bearing spiracles. The pupa is free, without a cocoon. The adults are found in woodland.

**Nomenclature and classification:** According to Fauna Europaea (Chandler 2005).

**Number of species:** CH: 3 (1998 Checklist: 3),  
AT: 1, BE: 2, CZ: 4, DE: 4, FR: 4, GB: 3, HU: 3, IT: 3, NL: 2, SK: 4, Europe: 4, World: 90.

**Level of faunistic knowledge in Switzerland:** Good. There have been no changes to the list in Chandler (1998). The fourth European species *Ditomyia macroptera* could also occur. It is everywhere rare, but is widespread, with records from Germany, Italy, France, Czech Republic, Slovakia, Poland and Bulgaria (Kurina & Chandler 2018).

**General references:** Chandler (2001) [characters of *Symmerus nobilis*], Hutson et al. (1980) [keys, British species], Kurina & Chandler (2018) [characters of *Ditomyia macroptera*], Sjøli et al. (2000) [keys, Palaearctic genera], Zaitzev (1994) [keys, Russian species].

**References to the Swiss fauna:** Chandler (1998).

### Checklist

*Ditomyia* Winnertz, 1846

- *fasciata* (Meigen, 1818) !

*Symmerus* Walker, 1848

- *annulatus* (Meigen, 1830) !

- *nobilis* Lackschewitz, 1937 !

## References

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