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# A new species of *Hyssopus* GIRAULT, 1916 from Germany (Hymenoptera, Chalcidoidea: Eulophidae)

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#### Abstract

Hyssopus tephridus sp. nov. is described from Germany. Diagnostic characters are illustrated.

#### Zusammenfassung

Hyssopus tephridus sp. nov. wird aus Deutschland beschrieben und seine charakteristischen Merkmale werden abgebildet.

#### Introduction

The genus *Hyssopus* GIRAULT, 1916 was described by the type species *Hyssopus thymus* from America. Since 1916 it has been regarded as a valid genus in America. In Europe all species were classified within the genus *Elachertus* SPINOLA, 1808. Recently, the two species *Elachertus nigritulus* ZETTERSTEDT, 1838 and *Elachertus geniculatus* HARTIG, 1838 were transferred to the genus *Hyssopus* by SCHAUFF (1985) and BOUČEK (1988).

Following BOUCEK (1988) we regard the new species to belong to the genus *Hyssopus*, because it has a semiglobose pronotum, only four setae on the mid lobe of the mesoscutum and a fine sculpture. At present six Palaearctic species are known within this genus. This paper is confined to the description of another, new species.

### Hyssopus tephridus YEFREMOVA sp. nov. (Figs. 1 - 3)

Female. Length 0.9 mm (Holotype). Body black with metallic reflection; head black, mandibles brown, antennae brown (second and third flagellar segments yellow), thorax

black, abdomen brown, coxae and femora brown, trochanter, tibiae and tarsi yellow. Wing

hyaline, venation pale yellow.

Head in frontal view about as long as high, postocellar line: oculoocellar line ratio 7:3. Distance between toruli about 3 times that from a torulus to an eye. Toruli situated on the line connecting middle margin of eyes level. Toruli nearer to each other than to eyes. Mouth slightly wide than malar space, eyes with very short pubescence, their ratio of length to width 2:1. Antennal formula 1 1 1 4 2 (Fig. 2). Antenna with scape 7 times as long as broad, pedicellus 2.5 times as long as broad, first funicular segment 1.5 times wider than 2nd and 4th segments. and 3.5 times wider than 3rd segment. Clava about 1.5 times as long as broad. Segments with elongate and blade-like sensilla in 2-3 rows. Thorax 1.3 times as long as wide; notauli deep throughout. Pronotum semiglobose with numerous setae, distinctly shorter than mesoscutum medially. Mesoscutum about 1.3 times as broad as long. Mid lobe of mesoscutum with 2 pairs of setae only. Scutellum about 1.1 times as broad as long, with two sublateral lines and with two pairs of setae. Propodeum about half length of scutellum with a fine median carina, callus with about 15 setae.

Forewing (Fig. 1) 2.0 times as long as broad. Ratio of length of veins submarginal: marginal: stigmal: postmarginal 2.3: 2.5: 1: 1. Speculum closed below. Gaster ovate, 1.2 times as long as wide and shorter than length of thorax. Ovipositor sheaths not exserted.

Face and frons very finely reticulated. Pronotum smooth. Mesoscutum with obsolescent sculpture being engraved reticulated. Scutellum, axillae, mesoscutum and abdomen smooth.

Male. Length 0,8 mm (Paratype). Colour of body as in female. Head in frontal aspect 1.2 times longer than wide. Antenna (Fig. 3) with scape 5 times longer than wide; pedicellus 2.0 times longer than wide. Gaster narrower than in female.

Biology: The specimens were reared as hyperparasitoids of *Pteromalus* sp. or *Eurytoma* sp. parasitizing *Tephritis crepidis* HENDEL, 1927 (Tephritidae) on *Crepis biennis* L. Most species of the genus *Hyssopus* are known as ectoparasitoids of small lepidopterous caterpillars (i.e. Tortricidae, Pyralidae, Coleophoridae, Gelechiidae) (BOUČEK & ASKEW 1968). However, within the genus *Elachertus* some species are known as hyperparasitoids via Diptera Tachinidae (BOUČEK & ASKEW 1968). The host association with Tephritidae (Diptera) for the new species is found for the first time.

Distribution: Germany.

Holotype 9: Germany, Bayreuth, Destuben, 23.08.1989; leg. H. STICKROTH; antenna brocken. Forewing and antenna embedded in microscopic slides (Zoologische Staatssammlung München).

Paratype:  $1 \, \sigma$ , same date as holotype. Right antenna in microscopic slide (Zoologische Staatssammlung München).

Comments: The new species is very near to *Hyssopus nigritulus* (ZETTERSTEDT, 1838). It differs from it in the ratio of the postmarginal to stigmal vein, which is about 1:1 in *Hyssopus tephridus* sp. nov., but 2.5:1 in *Hyssopus nigritulus*. The gaster is 1.2 times as long as broad (in *H. nigritulus* 1.5 times), and the body length is only 0.8 - 0.9 mm (in *H. nigritulus* 1.8 - 2.2 mm).

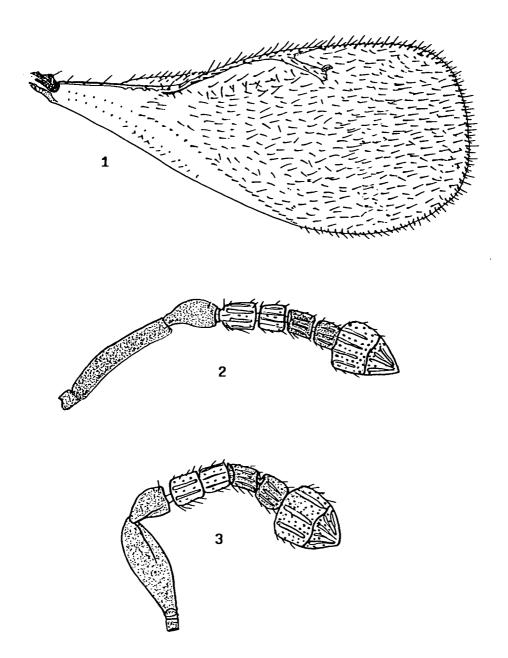


Fig. 1-3: Hyssopus tephridus sp. nov. - 1) female, right forewing; 2) female, antenna, dorsal view; 3) male, antenna, dorsal view.

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