

## A new species of *Grypocentrus* from Tunisia and Israel (Hymenoptera: Ichneumonidae: Tryphoninae)

D.R. Kasparyan & W.S. Kuslitzky

Kasparyan, D.R. & Kuslitzky, W.S. 2008. A new species of *Grypocentrus* from Tunisia and Israel (Hymenoptera, Ichneumonidae, Tryphoninae). *Zoosystematica Rossica*, **17**(2): 83-84.

A new ichneumonid species, *Grypocentrus sawoniewiczzi* sp. n. is described from Israel and Tunisia. *G. sawoniewiczzi* differs from other species of the genus by modifications of scutellum and of the last abdominal tergite.

D.R. Kasparyan, Zoological Institute, Russian Academy of Sciences, Universitetskaya nab. 1, St. Petersburg 199034, Russia. E-mail: [hymenopt@zin.ru](mailto:hymenopt@zin.ru)

W.S. Kuslitzky, Tel Aviv University, Department of Zoology, Ramat Aviv, Tel Aviv 69978, Israel. E-mail: [wkuslitzky@yahoo.com](mailto:wkuslitzky@yahoo.com)

*Grypocentrus* Ruthe, 1855 is a Holarctic genus with about 20 described species (Yu & Horstmann, 1997). All species of *Grypocentrus*, as far as is known, are koinobiont ectoparasitoids of sawfly miners of the tribe Fenusini (Tenthredinidae). Palaearctic species of *Grypocentrus* were reviewed by Kasparyan (Kasparyan & Tolkanitz, 2000); Nearctic fauna of the genus also was revised (Townes et al., 1992). Recently senior author have received 5 specimens of a new species of genus from Tunisia. Later the authors found in Museum of Tel Aviv University two additional specimens of this species from Israel. A new species can easily be distinguished from all known ones by unusual modifications of scutellum (Fig. 1) and apical tergite of abdomen (Figs 3-5).

### *Grypocentrus sawoniewiczzi* sp. n.

**Holotype.** ♀, "Tunisia, Hammamet, 28.11.2007 (13) leg. J. Sawoniewicz" [Zoological Institute, St. Petersburg].

**Paratypes.** **Tunisia:** 2♀ with same labels as in holotype, and 3 ♂ Nabeul, 5 December 2003, 18 and 24 November 2007, leg. J. Sawoniewicz. **Israel:** 1♀ 1♂, Tel Aviv, dunes, 12 III 2001 (L. Friedman) (Department of Zoology of Tel Aviv University).

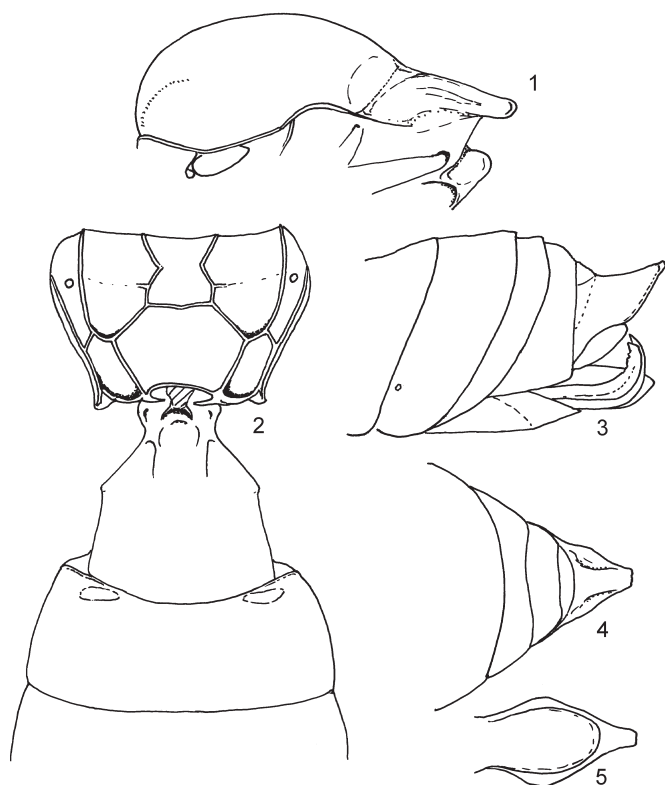
**Diagnosis.** The new species differs from all other congeners in having strong dorsoapical projection on scutellum (Fig. 1) and unusual modification of tergite 8 (Figs 3-5).

**Description.** Fore wing 2.5 mm (male) – 3.5 mm (female). Antenna with 14-15 flagellar segments, about 0.65 times as long as hind wing. Head with temples in dorsal view more or less parallel behind eyes; their length about 0.8 times as long as transverse diameter of eye. Anterior orbits of eyes subparallel on the face and distinctly diverge on frons.

Clypeal fovea rather small. Malar space very short, 0.07 times as long as basal width of mandible. Upper tooth of mandible much longer than lower tooth. *Scutellum dorso-apically projecting as a long lobe* (Fig. 1). All areas of propodeum distinct, but costulae usually obsolescent (Fig. 2). Fore wing with areolet; distal part of radial vein almost 3 times as long as its proximal part. Hind femur 3.6-4.0 times as long as wide; ratio of segments 1-5 of hind tarsus in female about 3.5 : 1.4 : 1.1 : 0.7 : 1.0, in male segment 3 shorter than segment 5. Tarsal claws usually with 1 high tooth at base. First tergite as long as wide, sharply tapered to base basad of spiracles, and with subparallel lateral margins beyond the spiracles (Fig. 2). Tergite 2 in female about 0.45 times as long as maximum width. Tergites 2-4 smooth, with fine postmedian transverse impression. *Tergite 8 of both sexes with its hind margin strongly projecting medioapically* (Figs 3-5). Hypopygium of female large, acute at apex, its median fold translucent and membranous, its margins sclerotized. Ovipositor sheath about 2.2 times as long as wide; ovipositor (from base to apex) about as long as hind tarsus, slightly arched in middle part and sharply curved up at apex (Fig. 3).

Body smooth and shiny, with moderately fine punctures; punctures are denser on frons, pronotum, postpetiole, and on basal 0.6 of tergites 2-4. Mesopleurum and mesoscutum polished, finely and sparsely punctate; scutellum almost impunctate dorsally; apical area of propodeum entirely impunctate. Tergites 2-4 on apical 0.4 polished. Tergites 5-7 punctate to hind margin.

Antennae blackish with apical margin of pedicel and extreme base of flagellar segment 1 rufous.



**Figs 1-5.** *Grypocentrus sawoniewiczzi* sp. n., female. **1**, mesoscutum, scutellum and postscutellum, dorsolateral view; **2**, propodeum and tergites 1-2, dorsal view; **3**, apical part of abdomen, lateral view; **4**, tergites (5)6-8, dorsal view; **5**, tergite 8, ventral view.

Head black; mandibles reddish brown with teeth and usually at base blackish. Thorax black, tegulae reddish. Abdominal tergite 1 black; tergites 2-5(6) black dorsally with lateral and hind margin broadly pale (reddish or yellowish) brown, but again brownish on epipleurae of tergites 4-7; tergites (6)7-8 sometimes completely pale brownish. Sternites pale yellow with a pair of lateral sclerotized brown spots; hypopygium of female with median longitudinal translucent fold and with sclerotized brown apicolateral margin (Fig. 3). Coxae and trochanters I black; all trochanters II and legs beyond them vary from reddish brown to dark brown with blackish spot at basal part of femora; hind tarsi grayish. Pterostigma brownish black. Wings infusate.

#### Acknowledgements

The authors are grateful to J. Sawoniewicz (Poland, Bialostok) and A. Freidberg (Israel, Tel Aviv) for providing

the material for examination. This work is supported by Tel-Aviv University and by a grant of the Russian Foundation for Basic Research (No. 07-04-00454).

#### References

- Kasparyan, D.R. & Tolkanitz, V.I.** (1999) 2000. *Ichneumonidae. Subfamily Tryphoninae: tribes Sphinctini, Phytodietini, Oedemopsini, Tryphonini (addendum), Idiogrammatini. Subfamilies Eucerotinae, Adelogathinae (addendum), Townesioninae*. Nauka, St. Petersburg. 404 p. (Fauna of Russia and neighbouring countries. Insecta Hymenoptera, **3**(3). (In Russian).
- Townes, H.K., Gupta, V.K. & Townes, M.** 1992. The ichneumon-flies of America north of Mexico Part 11. Tribes Oedemopsini, Tryphonini and Idiogrammatini (Hymenoptera: Ichneumonidae: Tryphoninae). *Memoirs of the American Entomological Institute*, **50**: 1-296.
- Yu, D.S. & Horstmann, K.** 1997. A catalogue of world Ichneumonidae (Hymenoptera). *Memoirs of the American Entomological Institute*, **58**(1-2): 1-1558.

Received 10 June 2008, accepted 15 December 2008.