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A new Phaeogenini species, *Colpognathus grandiculus*, from the Caspian region

(Insecta, Hymenoptera, Ichneumonidae, Ichneumoninae)

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Abstract

Colpognathus grandiculus sp. n. (Hymenoptera: Ichneumoninae: Phaeogenini) is described from the Caspian region: Azerbaijan, Iran and Turkey.

The new taxon, *Colpognathus grandiculus* sp. n., is clearly separable from the related species, *Colpognathus celerator* (GRAVENHORST, 1807), *Colpognathus divisus* THOMSON (1891), *Colpognathus capitatus* (BERTHOUMIEU, 1892), and *Colpognathus intermedius* SIYTAN, 1979, by morphological and colour characters, especially by its large body size and distinct striation of the postpetiolus and base of second tergite.

Introduction

Eight species of the genus *Colpognathus* Wesmael, [1845] have been described from the Western Palearctic, Eastern Palearctic and Nearctic regions so far. With the description of the new *Colpognathus* species in this paper, the number is increased to nine taxa.

Methods

Illustrations were made through an auto assembly process with analySIS soft imaging system and combineZM.

Institutional acronyms:

ZSM Zoologische Staatssammlung München
 BZL Biozentrum des Oberösterreichischen Landesmuseums Linz
 coll. Riedel Collection M. Riedel, Bad Fallingbostal.

Description

Colpognathus grandiculus sp. nov. (Figs 1-5)

Holotype: ♀, Azerbaijan Lerik, Zuvand Gosmalian, 1300m, 12.VI.1996, 38° 40' N 48° 20' E, leg. Hauser AS-ZUV (in ZSM).

Paratypes: 1 ♀, N.-Iran, Golestan N.P., N.-Iran Almehr 1700m, 37° 21' N/ 56°07' E, 26.-27.10. 2003, leg. E. Heiss (in BZL); 1 ♀, N.-Iran, Golestan N.P., N.-Iran Almehr 1700m, 37° 21' N/ 56°07' E, 26.-27.10. 2003, leg. E. Heiss (in coll. Riedel); 1 ♀, Iran, 2500m, Boyer-A. o Kohg. prov. Kuh Gol near Sisakht, N30, 84°E51,53', 9.6.2010, Mi. Halada leg. (in BZL); 1 ♂, Ichneumoninae /19(2)A, Malaise trap, Kerman [Iran], 2013/V/27, Moheban (in coll. Riedel); 1 ♂, Turkey, Hakkari prov. 25km E. Gözeldere, N 37°32' E 43°49', 930m, Mi Halada lg. 22.6.2010 (in BZL); 1 ♂, UKR, - Crimea, Eupatoria, 13.VII.2000, coll. V. Gurko (in BZL); 1 ♂, Iran, Azer. Sh. prov. Sis, 10km E Shabestar, N 38° 26' E 45° 86', 1540m, M. Halada lg. 19.6.2010 (in BZL); 1 ♂, 10.VII.1967, Istanbul/TR, Coll. R. Hinz (in ZSM).

Female (Figs 1- 3): Body length 11,2-12,5 mm.

Head. Shining. Supra-antennal fovea concave, smoothly shining. Frons densely punctate, with weak striae. Frontal orbit separated from facial orbit by a shallow transverse groove. Face densely punctate. Supraclypeal area strongly convex, weakly punctate, clearly separated from clypeus by a groove. Clypeus convex, shining, sparsely punctate. Mandible very broad, with a sharp sub-basal constriction. Malar space distinctly shorter than base of mandible. Vertex broad, punctate. Temple broad, shining, sparsely punctate. Genal carina meeting hypostomal carina far away from the base of the mandible and below the mandible.

Flagella. 25-26 segments, basal segments of flagella more slender, flagellar segments 1-5 longer than broad.

Thorax. Pronotal collar long. Mesoscutum shining, punctate. Notauli short, very weakly impressed. Scutellum without lateral carinae, shining, at apex densely punctate and with striae. Pronotum shining, punctate, apical part with scarce transverse striae. Mesopleura shining, densely reticulate and punctate. Specula smoothly shining. Sternauli with shallow impression on anterior half of mesopleura. Prepectus and Propleurum shining, scarcely punctate.

Propodeum. Shining. Area basalis very short or non-existent. Area superomedia about as wide as long, reticulate with foveolae. Costulae reaching about the middle of area superomedia. Area petiolaris limited by significant lateral carinae, broad, shallowly concave with strong transverse striae. Areae superoexternae and areae dentiparae reticulate with foveolatae, smooth, scarcely punctate. Areae dentiparae shining, reticulate-punctate. Areae posteroexternae strongly reticulate. Areae spiraculiferae reticulate. Spiracula small, oval. Areae metapleurales densely reticulate-punctate. Areae coxales densely reticulate-punctate.

Wings. Areolet pentagonal. Nervellus of hind wing oppositus.



Fig. 1. *Colpognathus grandiculus* sp. n. ♀, Holotype, head ventro-facial view.

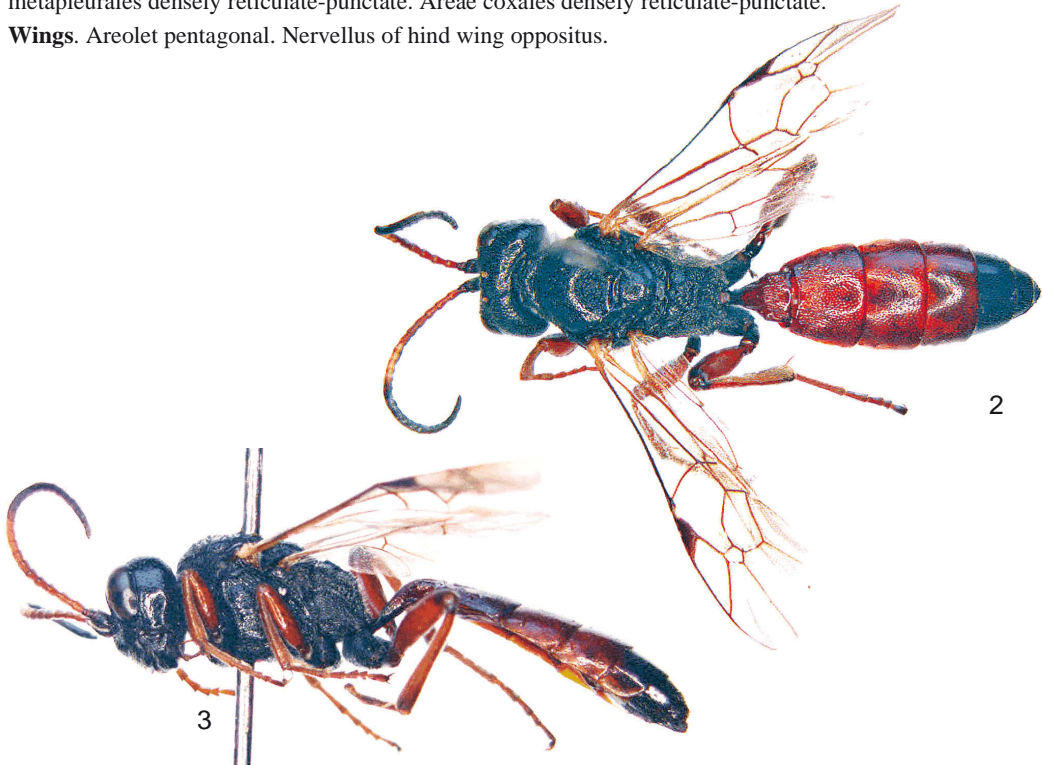


Fig. 2, 3 *Colpognathus grandiculus* sp. n. ♀, Holotype. **2:** dorsal view, **3:** lateral view.

Legs. Smoothly shining, weakly punctulate. Coxae and trochanters smoothly shining and weakly punctulate. Hind coxae smoothly shining and densely punctate, unarmed. Tibiae and tarsi dull.

Metasoma. Shining. Postpetiolus shining, with many strong longitudinal striae. Tergite 2 about as wide as long, shining, sparsely punctate, with many strong longitudinal striae on the basal half. Thyridia very weakly developed or obsolete. Tergites 3-7 transverse, shining, very sparsely punctate or almost smooth. Tergites 5-7 more smoothly shining, scarcely punctate. Hypopygium almost reaching the apex of the ovipositor.

Colour. Black. Flagella tricoloured: scape and pedicel black, flagellar segments 1-6 red, 7-10 white, apex black, base of wings white. Legs red. Coxae and trochantelli, apex of hind femora, base and apex of hind tibiae black. Postpetiolus extensively red, metasomal tergites 2-4 red. Base of petiolus and metasomal tergites 5-7 black.

Male (Figs 4, 5): Body length 11,9-15,6 mm.

Similar to ♀ in general sculpture and colour. Flagella black with 29-(30)33 segments. Metasomal tergite 2 longer than broad, metasomal tergites 3-5, depending on the drying process, as long as wide or wider than long, sometimes (5)6-7 transverse. Petiolus black, postpetiolus red, metasomal tergites 2-5(6) red, 7 black.

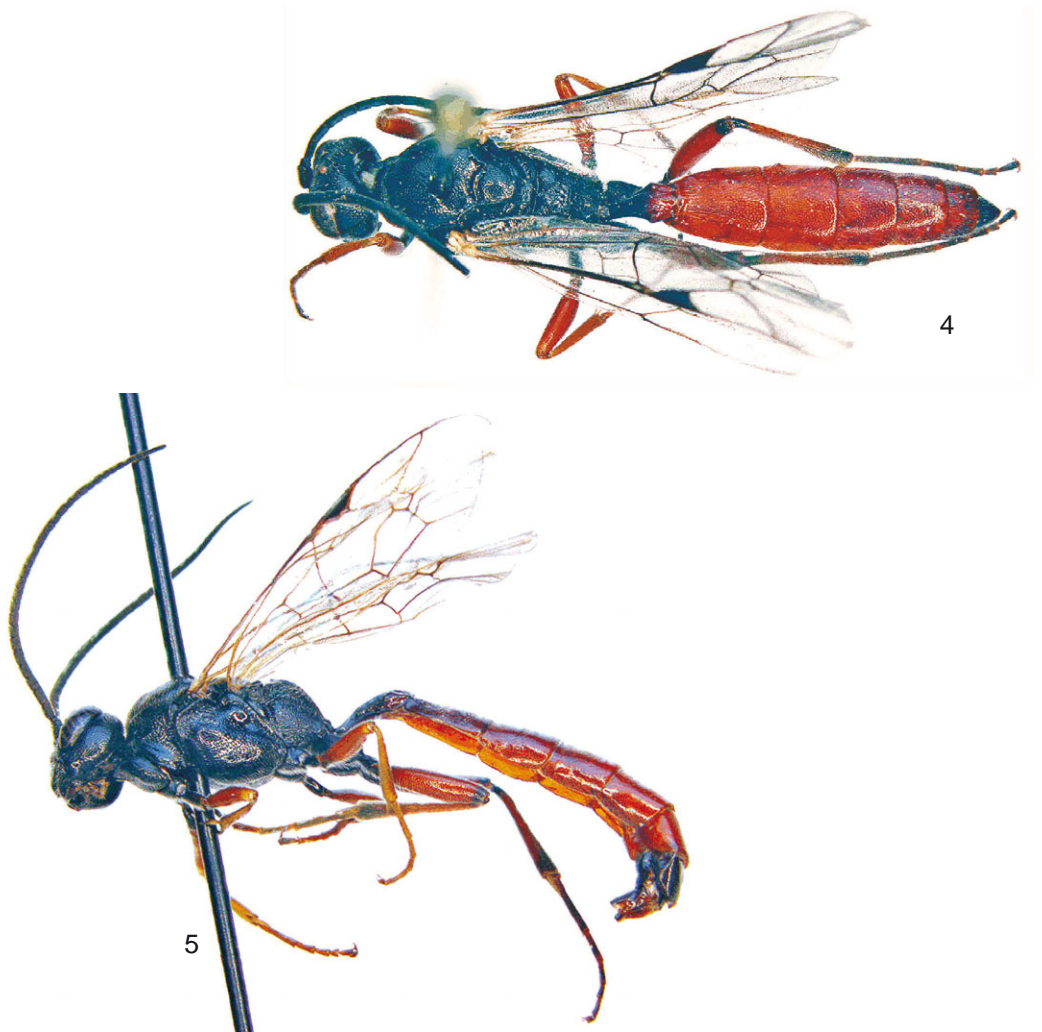


Fig. 4, 5: *Colpognathus grandiculus* sp. n. ♂, Paratype. 4: dorsal view, 5: lateral view.

Differential diagnosis

Colpognathus grandiculus sp. n. ♀, is separated from *Colpognathus celerator* (GRAVENHORST, 1807), *Colpognathus divisus* THOMSON, 1891, *Colpognathus capitatus* (BERTHOUMIEU, 1892) and *Colpognathus intermedius* SIYTAN, 1979, ♀, by the following combination of characters: strikingly by the much larger body; by strong longitudinal striae on the postpetiolus and anterior half of the second metasomal tergite; and by the different shapes of the mandible and the area superomedia.

Colpognathus grandiculus and *Colpognathus celerator* have tricoloured flagella, the flagella of *Colpognathus divisus*, *Colpognathus capitatus*, *Colpognathus intermedius* are not tricoloured. In contrast to all other *Colpognathus* species, *Colpognathus celerator* does not have distinct lateral carinae of the area petiolaris along the areae posteroexternae.

Etymology

The name *Colpognathus grandiculus* is derived from the body size of the species.

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