

УДК 595.792(55)

TWO NEW SPECIES OF THE GENUS EURYTOMA (HYMENOPTERA, EURYTOMIDAE) FROM IRAN

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Accepted 8 May 2003

Two New Species of the Genus *Eurytoma* (Hymenoptera, Eurytomidae) from Iran. Zerova M. D., Mehrnejad M. R., Gharaei B., Seryogina L. Ya. — *Eurytoma iranica* Zerova, sp. n. (type locality: Sirjan, Iran) and *Eurytoma ghazvini* Zerova, sp. n. (type locality: Ghazvin prov., Iran) are described.

Key words: Hymenoptera, Eurytomidae, new species, Iran.

Два новых вида рода *Eurytoma* (Hymenoptera, Eurytomidae) из Ирана. Зерова М. Д., Мернеджад М. Р., Гхарей Б., Серегина Л. Я. — Описаны два новых вида хальцидоидных наездников из Ирана: *Eurytoma iranica* Zerova, sp. n. (типовая местность: Иран, Сержен) и *E. ghazvini* Zerova, sp. n. (типовая местность: Иран, пров. Гезвин).

Ключевые слова: Hymenoptera, Eurytomidae, новые виды, Иран.

Two new forms of chalcidoid wasps of the family Eurytomidae were found in materials, collected in Iran in 2002. *Eurytoma iranica* Zerova, sp. n. was reared from twigs and branches of almond tree (*Amygdalus*) infested by beetle larvae *Osphrantheria coerulescens* Redtenbacher, 1850 (Coleoptera, Cerambycidae). Material was collected by Dr. M. Reza Mehrnejad in Sirjan.

Eurytoma ghazvini Zerova, sp. n. was reared from pods of *Glycyrrhiza glabra* L. in Ghazvin (= Qazvin) Province of Iran. Material was sent by Mr. Babak Gharaei.

The holotypes and paratypes of new species are deposited in the collection of the Schmalhausen Institute of Zoology, National Academy of Sciences of Ukraine (Kyiv).

***Eurytoma iranica* Zerova, sp. n.**

Material. Holotype ♀: Iran, Sirjan, June 2000, ex *Osphrantheria coerulescens* Redtenbacher (Coleoptera, Cerambycidae) on almond trees (*Amygdalus*), M. Reza Mehrnejad leg. Paratypes: 5 ♀, 2 ♂ with the same labels as holotype.

Female (holotype) (fig. 1). Length 4–4.6 mm, holotype 4.6 mm. Body black, coxae black, femora black with yellow tips, the fore tibiae yellow, mid and hind tibiae, brownish-yellow, tarsi yellow with brown last segments; antennae yellow, including scape and pedicel; fore wing hyaline, veins light, yellowish; tip of ovipositor brown.

Head from above stout, massive, wider than long in ratio 55 : 26; wider and longer than pronotum, POL longer than OOL in ratio 11 : 5. Head in frontal view wider than high in ratio 55 : 41; frons prominent, eyes bare, with high carina some distant from longitudinal eye margin, the upper brim of carina makes a keel across the upper face behind the mid ocellus (fig. 1, 4, 5), gena short, 2/3 longitudinal eye diameter, external clypeus margin straight; face with dense white pubescens, occiput without pubescens. Antennae inserted somewhat lower the middle of face, the face cavity with thin border on the sides; scape long, thin, reaching the mid ocellus, anellus very short, pedicellus short not longer than the half of the first flagellar segment; all flagellar segments longer than wide, the first almost 3 times as long as wide, the fifth some longer than wide as

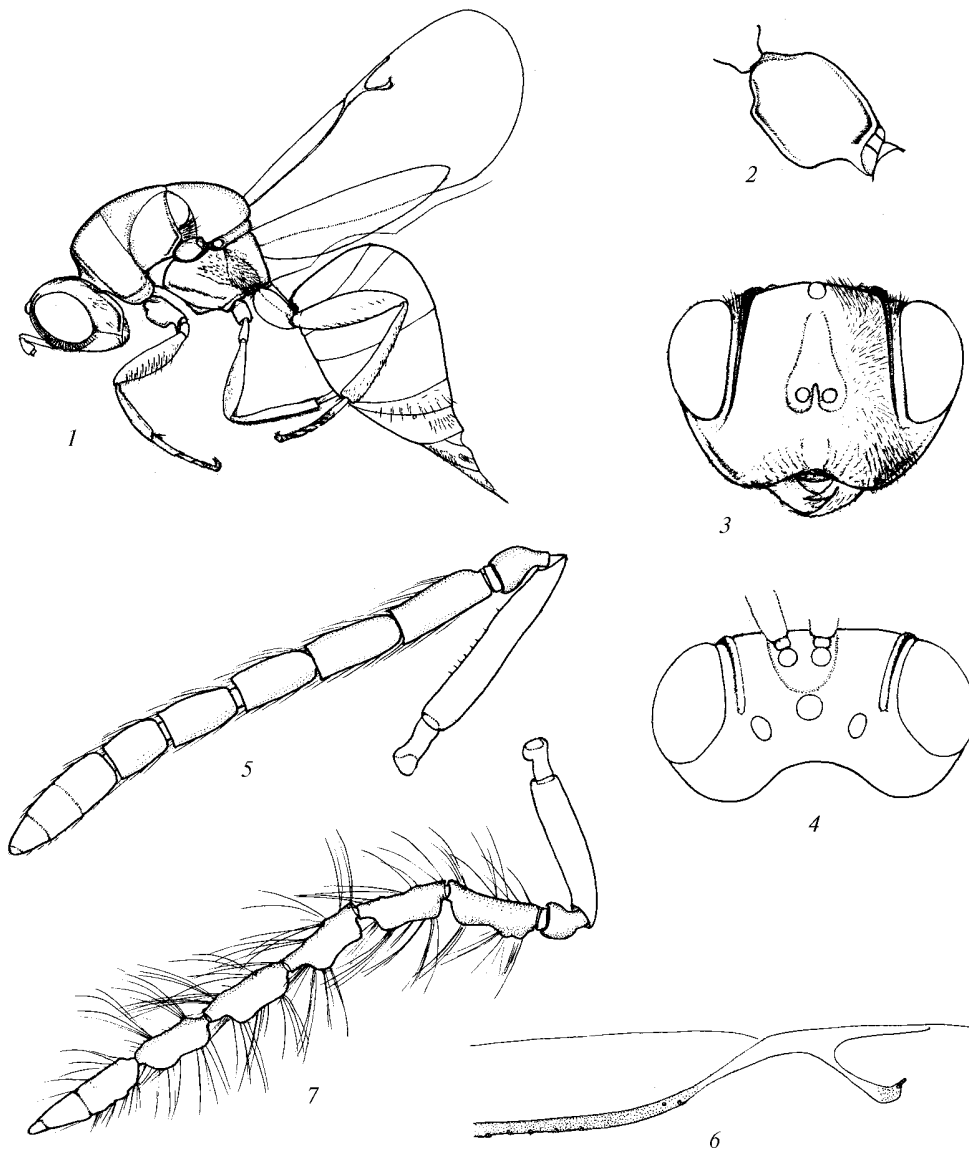


Fig. 1. *Eurytoma iranica*: 1 — female, profile; 2 — fore coxa; 3 — head, frontal view; 4 — head from above; 5 — antenna, female; 6 — forewing venation; 7 — antenna, male.

Рис. 1. *Eurytoma iranica*: 1 — профиль самки; 2 — передний тазик; 3 — голова спереди; 4 — голова сверху; 5 — усик самки; 6 — жилкование передних крыльев; 7 — усик самца.

12 : 7; club not wider than flagellum, 3-segmented, pubescens of flagellum short and hardly visible.

Mesosoma some bulging, pronotum with sharp anterior margin 3 times as wide, as long, shorter than scutum which the same length as scutellum. Mesosternal keel distinct, but not high. Mesopleuron with fine reticulate sculpture especially thin on mesepisternum; prepectus flat. Propodeum with large oval impression in the middle marked of by thin brim, propodeum on the sides with distinct punctures. Forewing discus almost bare, veins light, almost white; marginal vein short, the length of marginal, postmarginal and radial veins in ratio 16 : 19 : 15. Coxae, especially hind coxa with distinct punctures, fore coxa with big dull projection on anterior side; fore femora with two distinct rows of short setal.

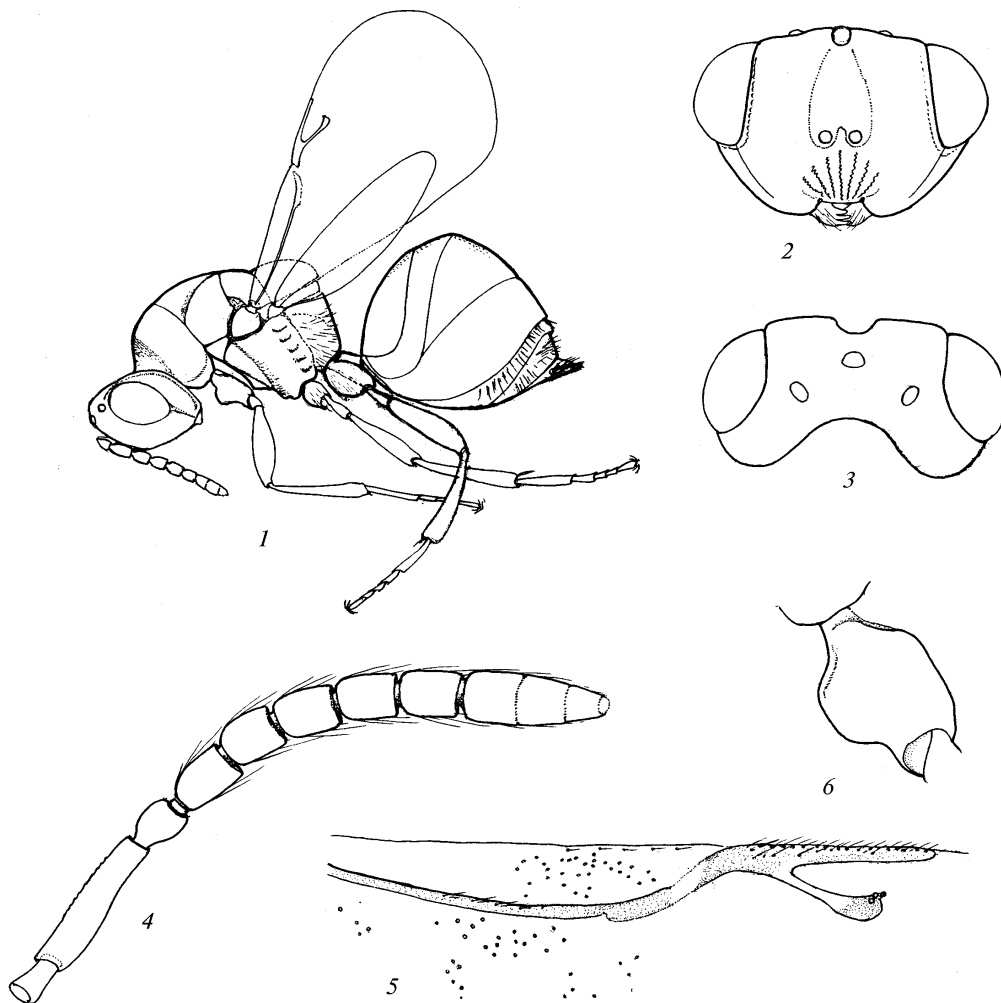


Fig. 2. *Eurytoma ghazvinii*: 1 — female, profile; 2 — head, frontal view; 3 — head from above; 4 — antenna, female; 5 — forewing venation; 6 — fore coxa.

Рис. 2. *Eurytoma ghazvinii*: 1 — профиль самки; 2 — голова спереди; 3 — голова сверху; 4 — усик самки; 5 — жилкование передних крыльев; 6 — передний тазик.

Metasoma long and slender, abdomen longer than mesosoma in ratio 7 : 5; petiolus long some shorter than hind coxa; 1–5 tergits of abdomen with fine sculpture, the 6th tergite with distinct sculpture; the 5th and 6th tergits with long dorsal sparse pubescens, the 6th tergite with out dorsal keel, the 7th equal in length to 6th.

Male. Length 2.9–3.1 mm. Similar in color to female. Abdominal petiolus some longer, than hind coxa. Flagellum with 5 segments, club 2-segmented, all flagellar segments are elongate with long hairs, the first segment is the longest.

Comparative remarks. *Eurytoma iranica* Zerova, sp. n. belongs to the *robustata* group. As all species of this group, the new species has a distinct mesosternal keel, carinate eye orbite, and sharp and high postgenal keel. From all known species of this group, *E. iranica*, sp. n. differs by having a high and stout keel near eye orbite, which goes up to occiput and is interrupted there. The new species also differs by widening on fore coxa and by long and thin flagellar segments in female.

Biology. Parasite of the beetle *Osphranteria coerulea* Redtenbacher larvae (Cerambycidae) in twigs of *Amygdalus*.

Distribution. Iran.

***Eurytoma ghazvini* Zerova, sp. n.**

Material. Holotype ♀: Iran, Ghazvin province, 10 May 2000, ex pods of *Glycyrrhiza glabra* Linnaeus, Abbas Arbab leg.

Female (holotype) (fig. 2, 1–5). Length 2.3 mm. Body black, coxae black, femora and tibiae predominately black, with yellow tips, tarsi light — yellow with brown last segments; antennae black but funicle some brownish; fore wing hyalinae with light, almost white veins; tip of ovipositor black.

Head from above some wider than pronotum, width to length 55 : 27; POL to OOL 15 : 6. Head in frontal view wider than high in ratio 55 : 40; longitudinal eye diameter equal to genal length, eyes bare, carinate around eye orbite, post genal carina sharp but not high; external clypeus margin some prominent, face above clypeus with thin striation, lower and upper face with short sparse white pubescens, occiput without pubescens. Antennae inserted somewhat lower the middle of face, face cavity without sharp border on the sides, scape reaching the mid ocellus, some widening in the basal part; pedicel short, much shorter than the first flagellar segment, anellus very short, all flagellar segments longer than wide, the first some longer than 2–5 (width to length 12 : 7), other segments slightly longer than wide, equal in length, club long, distinct 3-segmented, a little stouter, than funicle, pubescens on flagellum long and light.

Mesosoma bulging, short, pronotum almost 3 times wider than long, mesopleuron with thin punctation, mesosternal keel not high, triangular. Propodeum without median carina with irregular cells. Forewing discus with very short light pubescens in the distal part, in the basal part almost bare, veins almost white, marginal, postmarginal and radial veins as 17 : 25 : 18. Coxae with thin sculpture, the fore coxa with wide dull projection on anterior side.

Metasoma with long petiolus which is equal in length with hind coxa, abdomen roundish, as long as mesosoma, 5–7th tergites with white pubescens.

Male not known.

Comparative remarks. *Eurytoma ghazvini* Zerova, sp. n. belongs to the *robusta* group. As the previous species, it has a distinct mesosternal keel, sharp postgenal keel, long petiolus in female and enlarged fore coxa. The new species fits near *Eurytoma graminicola* Zerova, but differs in shorter abdomen, shorter marginal vein and more globular head (in frontal view).

Biology. Reared from pods of *Glycyrrhiza glabra* L.

Distribution. Iran.

We are grateful to Dr. A. Gumovsky for his help in making digitalized photos.