



# *Entomofauna*

ZEITSCHRIFT FÜR ENTOMOLOGIE

---

Band 27, Heft 33: 405-408      ISSN 0250-4413      Ansfelden, 31. Dezember 2006

---

## **A new species of *Isolia* from Romania (Hymenoptera, Platygasteridae)**

**Ovidiu POPOVICI & Peter Neerup BUHL**

### **Abstract**

A new species, *Isolia dobrogica* **sp. nov.** (male) from Romania, is described. The genus *Isolia* is recorded for the first time from Romania. The work is illustrated by 7 text figures.

### **Zusammenfassung**

Eine neue Art, *Isolia dobrogica* **sp. nov.** (Männchen) aus Rumänien wird beschrieben. Die Gattung *Isolia* wird damit zum erstenmal aus Rumänien nachgewiesen. Die Arbeit ist mit 7 Abbildungen versehen.

### **Introduction**

Very few studies describing species of Platygasteridae from Romania have been published. By Romanian researchers only three publications have appeared, namely on species of *Inostemma*, on the species of the *Synopeas*-subgenus *Sactogaster*, and on the presence of *Fidiobia rugosifrons* CRAWFORD, 1916 in Romania, cf. FABRITIUS & GRELI-MANN (1971, 1972) and FABRITIUS (1974).

Also foreign researchers have only published little on platygasterids from Romania. KIEFFER (1914) describes a new genus, *Prosinostemma*, which hitherto has been recorded only from this country. SZELÉNYI (1938) mentions several species of *Inostemma*, collected in Romania.

The great diversity of habitats in Romania and the lack of studies in the area makes it probable that the fauna of this country is rich in hitherto undescribed species.

***Isolia dobrogica* sp. nov.** (fig. 1)

Male: Length 0.75 mm. Head and mesosoma black, metasoma yellowish brown. Legs yellow, hind femur dark yellow.

Head from above fully 2.4 times as wide as its greatest length, 1.1 times as wide as mesosoma. Ocular ocellar line:posterior ocellar line:lateral ocellar line = 4:8:4. Eyes and ocelli small, lateral ocelli on top of a hyperoccipital carina. Distance between eye and lateral ocelli 4.0 times as long as diameter of lateral ocelli. Distance between eyes, measured at anterior ocellus, twice as long as the distance between posterior ocelli. Longitudinal diameter of an eye 1.6 times as long as its transversal diameter and 1.6 times as long as gena. Head with distinct sculpture of hexagonal cells. Antennal segment 1 3.9 times as long as wide, fully 3.5 times as long as A2. A2 hardly shorter than A3, as long as A4, about 1.4 times as long as wide. A3 narrower than A2, 1.9 times as long as wide, as wide as A4 and slightly longer than this. A6-A9 of equal length. A10 2.4 times as long as wide, slightly more than 1.5 times as long as A9. Palpal formula 1:1.

Mesosoma hardly 1.2 times as long as wide. Mesoscutum without notauli, not even with impressions, faintly coriaceous. Scutellum hardly convex, almost flat, 2.9 times as wide as long, with longitudinal striation, striae broad and indistinguishable. Propodeum with long silvery hairs.

Forewing infusate, without nervature, 2.4 times as long as wide and 2.5 times as wide as mesosoma. Hindwing clear, 2.5 times as long as wide, with marginal cilia at their longest 1/7 width of wing.

Metasoma 1.25 times as long as wide, with 8 visible tergites. T1 transverse and trapezoidal, 4.5 times as wide as long, with hairs basally. T2 transverse and rectangular, twice as wide as long, smooth and shiny without sculpture, twice as long as T1. T3 strongly transverse, 6.3 times as wide as long. T4 as long as T3, 1.5 times as long as T5. T6-T8 combined as long as T3.

Material examined: Holotype female, Romania, Tulcea district, Sulucu Mare (Macin Mountain), 23.VII.2004, swept in vegetation, Mitroiu MIRCEA leg. Deposited in the collection of the "Gr. Antipa" Museum of Natural History of Bucharest, under catalogue number 183025.

Affinities: This species differs from the six hitherto described species of *Isolia* in the following way. From *I. striatitergitis* SZABÓ, 1962 and *I. hispanica* BUHL, 1999 in sculpture of scutellum. *I. mongolica* (KOZLOV, 1972) has head 3.5 times as wide as long, *I. foersteri* SZABÓ, 1959 and *I. biroii* SZABÓ, 1959 both have lateral ocelli distinctly closer to eye margin than *I. dobrogica*, and *I. longistriata* ALEKSEYEV, 1979 has more slender antenna and is twice as large as *I. dobrogica*. Cf. ALEKSEYEV (1979), KOZLOV (1978), and BUHL (1999).

Etymology: Named after Dobrogea, the part of Romania with the type locality.

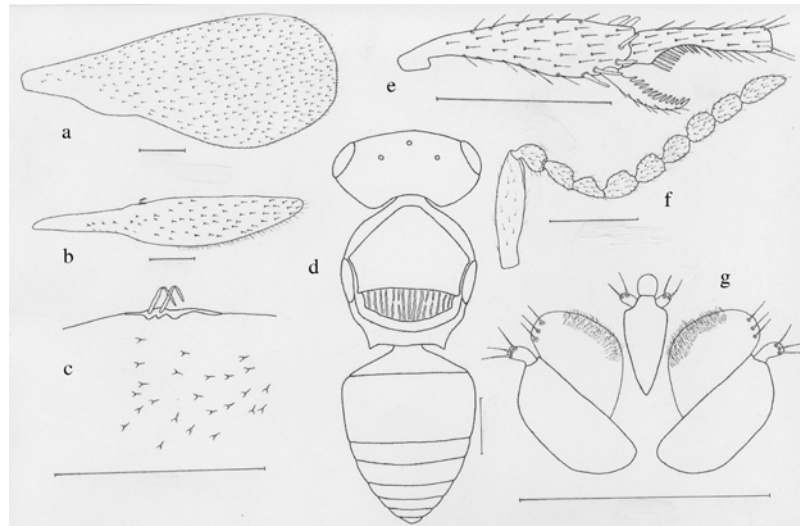


Fig. 1 *Isolia dobrogica* sp. nov. male: a) forewing; b) hindwing; c) hamuli; d) habitus, dorsal view; e) fore tibia; f) antenna; g) maxillo-labial complex. Scales = 0,1 mm.

#### Literature

- ALEKSEYEV, V.N. 1979: A new species of the genus *Isolia* (Hymenoptera, Platygasteridae) from middle Asia. - Zoologicheskyy Zhurnal 58: 763-764.
- BUHL, P.N. 1999: Platygasteridae (Hymenoptera) species of a *Juniperus thurifera* L. forest of Los Monegros region (Zaragoza, Spain). - Zapateri, Revista Aragonesa de Entomologia 8 (1998): 11-42.
- FABRITIUS, K. & GRELMANN, D. 1971: Contribuții la studiul inosteminelor din România (Hymenoptera, Platygasteridae, Inostemminae). - Lucrări Științifice. Științe naturale II, Institutul pedagogic de 3 ani, Constanța, pp. 5-14.
- FABRITIUS, K. & GRELMANN, D. 1972: Speciile genului *Sactogaster* FORSTER, 1856 și *Urocyclops* MANEVAL, 1939 din România (Platygasteridae, Hymenoptera). - Lucrări Științifice. Științe naturale II, Institutul pedagogic de 3 ani, Constanța, pp. 53-60.
- FABRITIUS, K. 1974: Sceliotrachelinae BRUES, 1908 (Hymenoptera, Platygasteridae) neu fur die Fauna Rumaniens. - Travaux du Museum d'Histoire Naturelle «Grigore Antipa» 15: 293-295.
- KIEFFER, J.J. 1914: Proctotrypidae (3e partie). In ANDRÉ, E.: Species des Hyménoptères d'Europe et d'Algérie. Vol. 11: 305-448.
- KOZLOV, M.A. 1978: Superfamily Proctotrupeoidea. In MEDVEDEV, G.S.: Identification of the insects of the European part of the USSR. Vol. 3, part 2: 538-664, Nauka, Leningrad.
- SZELÉNYI, G. von 1938: Über Paläarktische Scelioniden. I. Zur Systematik der Gattung

*Inostemma* WALK. - Annales historico-naturales Musei nationalis hungarici, Pars  
zoologica 31: 108-128.

Authors' addresses:

Ovidiu POPOVICI  
University A.I.Cuza  
Faculty of Biology  
Carol The First Avenue No. 11  
Jassy  
700506 Romania

Peter Neerup BUHL  
Trolldhøjvej 3  
DK-3310 Ølsted  
Denmark  
e-mail: [pnbuhl@zsnm.ku.dk](mailto:pnbuhl@zsnm.ku.dk)

---

Druck, Eigentümer, Herausgeber, Verleger und für den Inhalt verantwortlich:  
Maximilian SCHWARZ, Konsulent für Wissenschaft der O.Ö. Landesregierung,  
Eibenweg 6, A-4052 Ansfelden, E-Mail: [maxschwarz@inode.at](mailto:maxschwarz@inode.at)  
Redaktion: Erich DILLER (ZSM), Münchhausenstrasse 21, D-81247 München, Tel.(089)8107-251  
Fritz GUSENLEITNER, Lungitzerstrasse 51, A-4222 St. Georgen a.d. Gusen  
Wolfgang SCHACHT, Scherrerstrasse 8, D-82296 Schöngeising, Tel. (089) 8107-302  
Erika SCHARNHOP, Himbeerschlag 2, D-80935 München, Tel. (089) 8107-102  
Emma SCHWARZ, Eibenweg 6, A-4052 Ansfelden  
Dr. Wolfgang SPEIDEL, Museum Witt, Tengstrasse 33, D-80796 München  
Thomas WITT, Tengstrasse 33, D-80796 München, E-Mail: [thomas@witt-thomas.com](mailto:thomas@witt-thomas.com)  
Postadresse: Entomofauna (ZSM), Münchhausenstrasse 21, D-81247 München,  
E-Mail: [erich.diller@zsm.mwn.de](mailto:erich.diller@zsm.mwn.de) oder: [wolfgang.schacht@zsm.mwn.de](mailto:wolfgang.schacht@zsm.mwn.de)

# ZOBODAT - [www.zobodat.at](http://www.zobodat.at)

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Entomofauna](#)

Jahr/Year: 2006

Band/Volume: [0027](#)

Autor(en)/Author(s): Popovici Ovidiu Alin, Buhl Peter Neerup

Artikel/Article: [A new species of \*Isolia\* from Romania \(Hymenoptera, Platygasteridae\).  
405-408](#)