

Linzer biol. Beitr.	48/2	1321-1326	19.12.2016
---------------------	------	-----------	------------

Cremastinae (Hymenoptera, Ichneumonidae) from Turkey and adjacent countries with description of a new species

Janko KOLAROV

Abstract: Fourteen Cremastinae species from the region investigated are reported. A new *Temelucha* species is described and figured. Two new records from Turkey and Greece are established.

Key words: Cremastinae, new species, new records, Turkey, neighbor countries.

Introduction

Cremastinae is moderately large ichneumonid subfamily with world-wide in distribution. They occur more abundantly in temperate regions, frequently in more arid regions (DASCH 1979). As larvae they are koinobiont endoparasitoids mainly on lepidopterous hosts of subfamilies Olethreutidae, Pyralidae, Gelechiidae, Phycitidae, Tortricidae, Noctuidae etc. Occasionally hosts are coleopterous larvae of Chrysomelidae, Cerambycidae etc. There are host records also of Hymenoptera and Diptera larvae. Several species are important as biological control agents.

Key for the genera was proposed by TOWNES (1971). Western Palaearctic species was revised by SEDIVY (1970 & 1971). Studies of region investigated was made by KOLAROV (1980, 1982, 1987, 1989, 1992, 1997), KOLAROV & BEYARSLAN (1999), KOLAROV et al. (2002 & 2014), KOLAROV & YURTCAN (2009) etc.

In the present paper data of 14 Cremastinae species are presented. A new *Temelucha* species is described and figured. Two new records for Turkey and Greece are established (in the text they are marked by an asterisk). The general distribution follows mainly YU et al. (2012).

List of the species

***Pristomerus armatus* (LUCAS, 1849)**

Material examined: Turkey – Erzurum, Rizeköy, 1900 m, 10.08.1999, 1♂; Erzurum, University campus, 1850 m, 10.06.2000, 1♂; 13.07.1999, 1♂; Erzurum, Kuyu, 1850 m, 10.06.2000, 1♂; Erzurum, Ilica, Altykonak, 16.06.2000, 1♂; Kars, Arpaçay, Küçük Hireli, 1800 m, 27.07.2000, 2♂♂; Erzurum, Aşkale, 1950 m, 14.07.1999, 1♂1♀; Erzurum, Uzundere, 27.06.2000, 1♀; 13.07.1999, 1♂.

Distribution: Algeria, Morocco, Europe, Georgia, Turkey, Armenia, Iran, Kazakhstan, Uzbekistan, Turkmenistan, Kyrgyzstan and Siberia.

***Pristomerus orbitalis* HOLMGREN, 1860**

Material examined: *Turkey, Erzurum, Sarkunlu Ilica, 1800 m, 10.08.1999, 1 ♀; Erzurum, University campus, 1850 m, 11.08.1999, 1 ♂.

Distribution: Europe, Georgia, Azerbaijan, Mongolia and Canada.

***Temelucha annulata* (SZÉPLIGETI, 1899)**

Material examined: Turkey – Aydın, Evcilar, Körkuyu, 28.06.1998, 1 ♂.

Distribution: Europe and Turkey.

***Temelucha arenosa* (SZÉPLIGETI, 1899)**

Material examined: Turkey – Erzurum, University campus, 1850 m, 19.07.1990, 1 ♀.

Distribution: Europe, Turkey and Iran.

***Temelucha brevipetiolata* KOLAROV, 1989**

Material examined: Turkey – Tekirdag, Isiklar, 20.06.1987, 1 ♀.

Distribution: Bulgaria and Turkey.

***Temelucha decorata* (GRAVENHORST, 1829)**

Material examined: Bulgaria – Plovdiv, apple garden, 24.08.2001, 2 ♂ ♂; Strandja Mt., Tsarevo, June 2014, 1 ♂. Turkey – Icel Tarsus, 19.08.1980, 1 ♀; Adana, Tarsus, 19.08.1979, 1 ♀; Erzurum, 1600 m, 27.07.1998, 1 ♀; Isparta, 13.07.1982, 1 ♂.

Distribution: North Africa, Europe, Turkey, Israel, Iran, Uzbekistan and USA.

***Temelucha interruptor* (GRAVENHORST, 1829)**

Material examined: Bulgaria – Rhodopi Mt., Gornoslav, 300 m, 14.05.1978, 2 ♀ ♀.
*Greece – Lithohoro, 18.04.1994, 1 ♂.

Distribution: Europe, Turkey, Iran and Mongolia, introduced into Canada and USA.

***Temelucha lucida* (SZÉPLIGETI, 1899)**

Material examined: Turkey – Erzurum, Azize Tabuasi, 2100 m, 19.07.1990, 1 ♂; Denizli, Çardak, 28.06.1998, 1 ♂.

Distribution: Europe, Turkey, Iran and Russia (Altayskiy kray).

***Temelucha schoenobia* (THOMSON, 1890)**

Material examined: Turkey – İzmir, Oğlananası, 24.06.1998, 1 ♀; Adiyaman Basni, Tasliyasi, 20.07.1988, 1 ♀; Adana, Belemelik, 3.08.1979, 2 ♀ ♀; Saygecit, Pamuk, 1.08.1993, 1 ♀; Adiyaman Karadag, 15.07.1983, 1 ♀; Cakirlar, Antalia, 8.08.1983, 1 ♂ 1 ♀; Antalia, Bataguz,

5.08.1983, 1♀; Gaziantep, Ogiyeli, 13-15.07.1985, 1♂1♀; Carkinrale, Adana, 26.05.1983, 1♀; Aydın, Evcilar, Korkuyu, 28.06.1998, 1♀; Antakia, Hassa, 28.06.1990, 1♂; Cevdetiye, Pamuk, 27.08.1993, 1♂; Adana, Köprüköy, 4.06.1979, 1♂; Adiyaman, Kahta, 19.07.1985, ♂; Adana, Yumurtalık, 15.08.1980, ♂; Ünlüce, Pamuk, 15.08.1993, ♂; Antalia, Merkez, 3.08.1980, 1♂; Adana, Kadirli, 4.07.1979, 1♂.

D i s t r i b u t i o n : Europe, Turkey, Iran, Turkmenistan and Pacific coast of Russia.

***Temelucha tricolorata* SEDIVY, 1968**

M a t e r i a l e x a m i n e d : Turkey Adana, Kadirli, 4.07.1979, 1♂.

D i s t r i b u t i o n : Canary Island, Spain, Turkey, Iran and Afghanistan.

***Temelucha turcata* KOLAROV & BEYARSLAN, 1999**

M a t e r i a l e x a m i n e d : Turkey – Erzurum, University campus, 1850 m, 1.06.2000, 1♀.

D i s t r i b u t i o n : Turkey.

***Temelucha variipes* (SZÉPLIGETI, 1899)**

M a t e r i a l e x a m i n e d : Turkey, Erzurum, Umudum, 26.06.2003, 1♂.

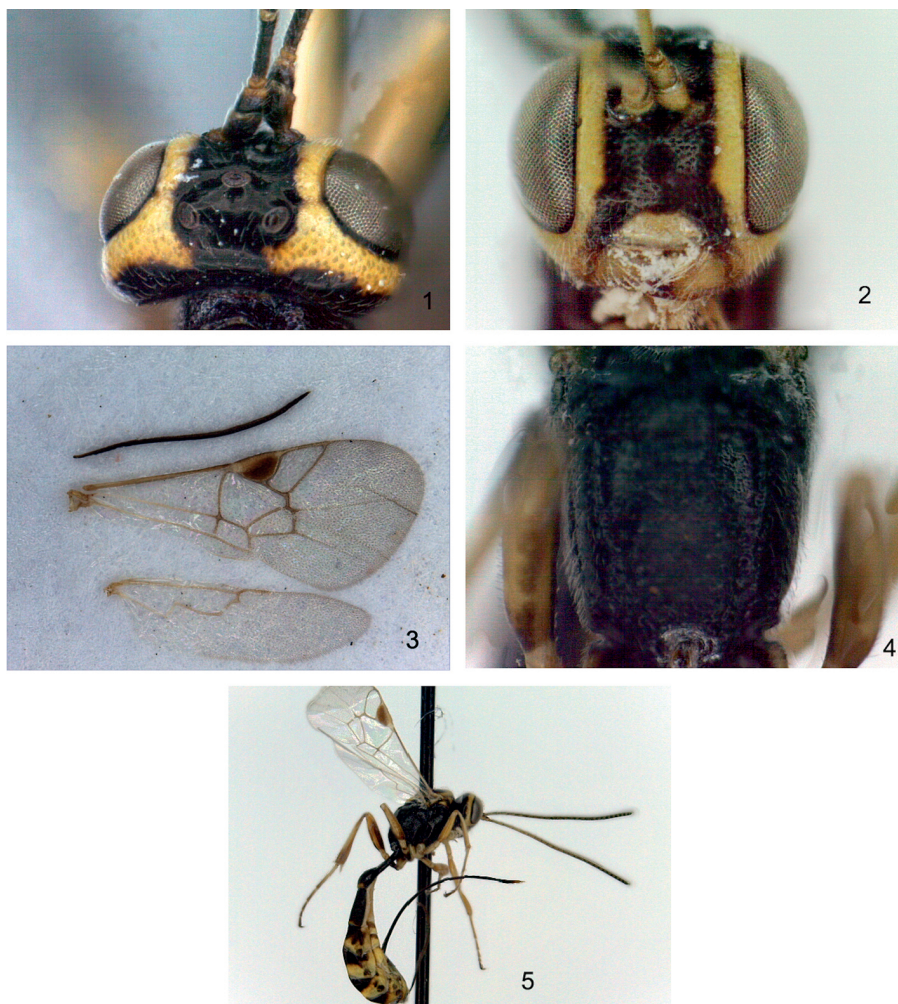
D i s t r i b u t i o n : Europe, Turkey and Mongolia.

***Temelucha latastigma* nov.sp.**

Female. Front wing 3.1 mm, body 4.8 mm, ovipositor sheath 2.2 mm long. Head not narrowed behind, temple swollen (Fig. 1). Occipital carina widely obsolescent above. Ocellus diameter 0.75 as long as distance between lateral ocellus and eye. Frons weakly concave above antennal sockets, mat. Antenna slightly shorter (2.8 mm long) than front wing (Fig. 3), weakly thickened apically. Flagellum with 24 segments. First segment 3.8 as long as wide, penultimate segment almost square. Inner eye orbit slightly divergent downwards (Fig. 2). Face 2.2 as high as wide, rare punctured on shine surface. Clypeus rather flat with almost right apical ridge and few long setae. Malar space 0.7 as long as basal width of mandible.

Epomia, notaulus and sternaulus faint. Scutellum not carinated laterally. Prepectal carina reaching subtegular swelling. Mesosoma coarse but rare punctured. Mesopleuron with longitudinal concavity (transversally striated) below speculum. Fore wing with very wide preostigma. Second radius curved to front margin of wing. Second recurrent vein (2m-cu) postfurcal, with single bulla. Nervulus interstitial, parallel vein connected postnervulus above its middle. Hind wing with 5 distal hamuli and not intercepted nervellus, discoideella absent (Fig. 3). Legs moderately slender, hind femur 4.0 as long as wide. Longer spur of hind tibia slightly shorter (8:9) than apical width of tibia. Correlation between hind tarsal segments as 27:14:9:6:9. Tarsal claws pectinated basally. Propodeum fully areolated. Areola hexagonal, pointed in front (Fig. 4).

First metasomal segment 1.4 as long as second tergum. Ventral margins of first segment not touching each other. First, second and basal half of third tergum longitudinal striated.



Figs 1-5: *Temelucha latastigma* nov.sp.: (1) head from above; (2) head in front; (3) flagellum, front and hind wing; (4) propodeum; (5) body, lateral view.

Ovipositor sheath as long as front wing from base to apex of radial cell (Fig. 5). Ovipositor thick with weakly curved down tip and faint subapical dorsal notch.

Black; antenna from bellow, inner and outer eye orbit widely, clypeus, malar space, mandible, palpi, large triangle spot on hind upper area of pronotum, lateral and median longitudinal stripes on mesonotum, scutellum entirely, subtegular swelling, front and middle legs, apical half of hind coxa, hind trochanters except lower basal half of hind one, hind tarsus, apical spot on first and second terga, apical half of III-VII terga and II-VII sternites yellow; pterostigma and hind femur yellow orange, hind tibia yellow on middle, unclearly darkened sub basally and apically.

Male unknown.

In Sedivy's key the species runs to *T. signata* HOLMGREN, but it differs by not touching ventral carinae of first metasomal segment, entirely yellow inner and outer eye orbit, more short area superomedia, more wide pterostigma, slightly divergent down inner eye orbit, first metasomal segment longer than second tergum, longer ovipositor sheath, smaller size and coloration of the body.

Holotype female, Bulgaria, Plovdiv, 160 m, 29.09.1999, in collection of Plovdiv University.

Etymology: The species name is derivate from Latin "lata" (= wide) associated with very wide pterostigma in front wing.

***Trathala hierochontica* (SCHMIEDEKNECHT, 1910)**

Material examined: Iran, Saghez, July, 2006, 1 ♀.

Distribution: North Africa, South Europe, Turkey, Israel and Iran.

Acknowledgements

I am deeply indebted to the following persons for submitting part of the material investigated: Dr. A. Beyarslan, Dr. M. Yurtcan and Dr. S. Çoruh. I am thankful also to Dr. M. Yurtcan for helping with the photos.

Zusammenfassung

Vorliegende Arbeit berichtet über 14 Cremastinae (Hymenoptera, Ichneumonidae) aus der Türkei und angrenzenden Gebieten, darunter zwei Neunachweise aus der Türkei und Griechenland. *Temelucha latastigma* nov.sp. wird beschrieben und abgebildet.

References

- DASCH C.E. (1979): Ichneumon-flies of America north of Mexico: 8. Subfamily Cremastinae. — Memoirs of the American Entomological Institute. No **29**: 702 pp.
- KOLAROV J.A. (1980): A new Cremastine genus and species from Bulgaria. — Acta Zoologica Bulgarica **16**: 90-92.
- KOLAROV J.A. (1982): On the species of the subfamily Cremastinae (Hymenoptera: Ichneumonidae) in Bulgaria with description of some new species. — Acta Zoologica Bulgarica **19**: 64-69.
- KOLAROV J.A. (1987): Taxonomic and faunistic studies on Bulgarian Cremastinae (Hymenoptera, Ichneumonidae) I. — Folia Entomologica Hungarica **48**: 87-89.
- KOLAROV J.A. (1989): Taxonomic and faunistic study on Bulgarian Cremastinae (II) (Insecta, Hymenoptera, Apocrita: Ichneumonidae). — Faunistische Abhandlungen **16** (13): 149-154.
- KOLAROV J.A. (1992): New and little known Cremastinae species in Bulgarian fauna and a key for identification of the western Palearctic genera (Hymenoptera, Ichneumonidae). — Acta Zoologica Bulgarica **44**: 75-78.
- KOLAROV J. (1997): A review of the Cremastinae of the Balkan peninsula, Turkey and Cyprus with zoogeographical notes (Hymenoptera: Ichneumonidae). — Beiträge zur Entomologie **47** (1): 169-199.

- KOLAROV J. & A. BEYARSLAN (1999): Beitrag zur Kenntnis der Türkischen Ichneumoniden 4. Cremastinae (Hymenoptera, Ichneumonidae). — Entomofauna **20** (1): 1-8.
- KOLAROV J., ÇORUH S., ÖZBEK H. & E. YILDIRIM (2002): A contribution to Ichneumonidae (Hymenoptera) fauna of Turkey: The subfamily Cremastinae. — Türkiye 5. Biyolojik Mücadele Kongresi: 275-278.
- KOLAROV J., GÜRBÜZ M.F. & O. BIROL (2014): A new species of the genus *Cremastus* GRAVENHORST (Hymenoptera: Ichneumonidae: Cremastinae) from Turkey. — Proceedings of the Russian Entomological Society. St Petersburg, 2014 **85** (1): 114-116.
- KOLAROV J. & M. YURTCAN (2009): A study of the Cremastinae (Hymenoptera: Ichneumonidae) from Turkey. — Turkish Journal of Zoology **33**: 371-374.
- SEDIVY J. (1970): Westpaläarktische Arten der Gattung *Dimophora*, *Pristomerus*, *Eucremastus* und *Cremastus* (Hym., Ichneumonidae). — Prirodovedne Prace Ustavu Ceskoslovenske Akademie Ved v Brne (N.S.) **4** (11): 38 pp.
- SEDIVY J. (1971): Revision der europäischen *Temelucha*-Arten (Hym., Ichneumonidae). — Prirodovedne Prace Ustavu Ceskoslovenske Akademie Ved v Brne (N.S.) **5** (1). 34 pp.
- TOWNES H.K. (1971): The genera of Ichneumonidae, Part 4. — Memoirs of the American Entomological Institute **17**: 372 pp.
- YU D., van ACHTERBERG C. & K. HORSTMANN (2012): Taxapad 2012, Ichneumonoidea 2011. — Database on flash-drive. www.taxapad.com, Ottawa, Ontario, Canada.

Author's address: Dr. Janko KOLAROV
Faculty of Pedagogy
University of Plovdiv
25 Tsar Assen Str.
B-4000 Plovdiv, Bulgaria
E-mail: jkolarov@uni-plovdiv.bg

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Linzer biologische Beiträge](#)

Jahr/Year: 2016

Band/Volume: [0048_2](#)

Autor(en)/Author(s): Kolarov Janko Angelov

Artikel/Article: [Cremastinae \(Hymenoptera, Ichneumonidae\) from Turkey and adjacent countries with description of a new species 1321-1326](#)