JOURNAL OF ENTOMOLOGICAL SOCIETY OF IRAN 2018, 38(2), 247-251

نامه انجمن حشره شناسی ایران ۲۵۱-۲۵۷ (۲) ۱۳۹۷, ۳۸



Short communication

First report of *Camponotidea saundersi* (Hemiptera, Heteroptera, Miridae) from Iran

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Camponotidea saundersi (Hemiptera, Heteroptera, Miridae) اولین گزارش از

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چکیده

مطالعهٔ فونستیک روی سنهای میریده در بخش غربی استان کردستان طی سالهای ۲۰۱۲-۲۰۱۷ انجام شد. از نمونه-های جمع آوری شده گونه (Camponotidea saundersi (Puton, 1874) برای اولین بار در ایران گزارش می شود. در این مطالعه، توصیف جنس نر و ماده این گونه و کلید شناسایی برای گونه های گزارش شده جنس Camponotidea از ایران ارائه شده است. نمونه های جمع آوری شده در کلکسیون حشرات موزه تاریخ طبیعی دانشگاه گیلان نگه داری می شوند. واژگان کلیدی: فون، ایران، کلیدی شناسایی، سن های برگی

دریافت: ۱۳۹۲/۱۰/٦. پذیرش: ۱۳۹۷/۳/۵.

Plant bugs of Miridae (Hemiptera: Heteroptera) are one of the most species rich families of insects, with nearly 11020 described species (Cassis & Schuh, 2012). This family includes eight subfamilies. The subfamily Mirinae comprises many species and genera. The genus *Camponotidea* belongs to the subfamily Mirinae, with the following taxonomic characteristics; body shape elongated, like a large ant, similar to the *Messor* Forel or *Camponotus* Mayr (Hymenoptera: Formicidae) (Wagner,1974), abdomen oval, rostrum short, reaches to the front or middle coxa, body color black or brownish. Only two species, including *C. fieberi* and *C. saundersi* has been recognized so far in this genus around the world, occurring in the Mediterranean region (Puton, 1874, Reuter, 1879, Tamanini, 1981, Wagner, 1974). Linnavuori in 2009 reported *C. fieberi* from the Azerbaijan-e Gharbi, Iran (Linnavuori, 2009). This is the first report of *C. saundersi* from Iran.

Received: 27 December 2017, Accepted: 28 May 2018 Subject Editor: Shahab Manzari

Subject Editor: Shahab Manzari

248 Short communication...

The collected specimens were killed by ethyl acetate, transferred to the laboratory, and mounted on triangular card. Male genitalia were dissected in glycerol. Photographs of specimens were taken using a Canon EOS 70D camera equipped by a canon EF 100mm f/2.8 Macro USM macro lens. All photos were combined in Helicon Focus software (ver. 6.7.1). Collected specimens were deposited at the Natural History Museum of the University of Guilan.

Key to the species of Camponotidea found in Iran

- **1.** The apex of labium reaches to the mesocoxa. Body Size (\Im) 7.05 mm, first and second antennal segment (\Im) 0.7: 3.33mm. Body color black. Hind tibia (\Im) 5.13× as long as pronotum at the base. *Camponotidea saundersi*
- **2.** The labium extends to procoxa or slightly beyond it. Body size (\circlearrowleft) 9.15 mm, first and second antennal segment (\circlearrowleft) 0.83: 3.67mm. Body color brown. Hind tibia (\circlearrowleft) 6.4× as long as pronotum at the base. *Camponotidea fieberi*

Camponotidea saundersi (Puton, 1874)

Material examined. Kurdistan province: Dezli; Sarvabad 3♂, 2♀ (35°22′N 46°12′E, 1299m), 15.5.2017. Bahram Abad; Sarvabad 3♂, 5♀ (35°22′N 46°14′E, 1,199m), 28.5.2017. Daraki; Sarvabad 4♂, 4♀ (35°19′N 46°10′E, 1,765m), 31.5.2017.

Diagnosis: Body shape antlike, elongated. Male smaller then female; body size (\circlearrowleft) 7.05mm, (\updownarrow) 8.67mm (Fig. 1 A, B, D). Both sexes brachypterus, black species. Apex of second antennal segment thick. Pronotum narrower than head width; 0.65-0.75× as long as head.

Head black. Eyes brownish black or reddish brown. Antennal segment yellowish brown to brownish black, Apex of second antennal segment black and cover by short setae. Labium black. Scutellum black and wider than posterior margin of pronotum. Brachypterus hemelytra black, distal margin with a yellow transverse stripe. Abdomen black, first abdomenal segment yellow. Legs black, tibia yellowish brown.

Body covered by long setae. Head large and elongated, oblique. Vertex flat, without groove. Eyes removed from anterior margin of pronotum. Pronotum anteriorly convex, posteriorly constricted, without collar and calli. Propleuron with deep groove, visible from dorsal view. First labium segment thick, the apex of labium reaches to the mesocoxa. Abdomen oval. Legs strong, long with slender hair, tibia covered with dark spin-like setae.

Body size (3) 7.05, (\bigcirc) 8.67mm; Ocular index (3) 2.37, (\bigcirc) 2.86; Base of pronotum 1.03-1.1mm; Base of pronotum 1× as long as interior of pronotum; Base of pronotum 0.67×- 0.72×as long as width of the head; Proportions among antennal segments (3) 0.7: 3.33: 1.66: 1.05, (\bigcirc) 0.8: 3.56: 1.86: 1.16; 2^{nd} antennal segment (3) 2.17×, (\bigcirc) 2.27× as long as width of head; 2^{nd} antennal segment 3.22- 3.25× as long as base of pronotum.

Genital segment (3) small. Lateral margin of right paramere wrinkled with bristles. Left paramere hook-shaped, apophysis with bristle like setae. Endosoma small, simple, without spicule, membranous, secondary gonopore normal.

Comment: This species has been collected on different host plants such as *Secale ciliatiglume* (Poaceae), *Echinops* sp. (Asteraceae) and *Trifoliom* sp. (Liguminous). Found in Albania, Croatia, Turkey, Greece, Slovenia, Macedonia, Montenegro and Italy (Aukema & Rieger, 1999; Josifov & Simov, 2006).

Camponotidea fieberi (Reuter, 1879)

Diagnosis: Slightly larger than previous species. Body size (♂) 9.15mm, color brown. Pronotum, scutellum, brachypterus hemelytra and legs are reddish brown (Fig1 C, E). Antennal segments brownish yellow, pale, apex of second antennal segment thick, black. Labium short, extend to procoxa or partly beyond it.

Body size (\circlearrowleft) 9.15 mm; Ocular index (\circlearrowleft) 2.5; Base of pronotum 1.03-1.1mm; Base of pronotum 1× as long as interior of pronotum; Base of pronotum 0.68× as long as width of the head; Proportions among antennal segments (\circlearrowleft) 0.83: 3.67: 1.87: 1.1; 2nd antennal segment (\circlearrowleft) 2.4× as long as width of head; 2nd antennal segment 3.49× as long as base of pronotum.

Comments: The collected specimen belongs to var. *simulans* Horváth, 1918. Found on *Salvia* sp. and *Vicia* sp. in steppes. Anatolian, known from Greece, Turkey Iraq and Iran (Linnavuori 2009).

250 Short communication...

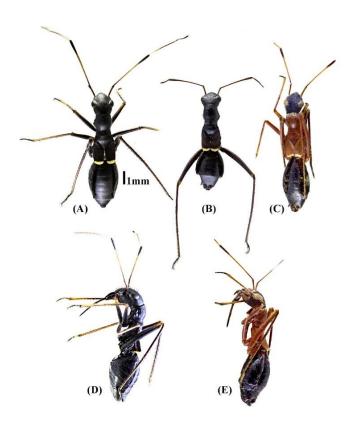


Fig. 1. Camponotidea species: (A, B, D) C. saundersi; A& D ♀, B ♂. (C, E) C. fieberi; C&E ♂, A-C dorsal view, D-E lateral view.

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