

Short communication

Report of *Torymus lapsanae* (Hym.: Torymidae), a parasitoid of *Diplolepis rosae* (Hym.: Cynipidae) from Iran

S. Hesami^{1&*}, M. R. Behzadi², E. Ebrahimi³, S. S. Miresmaili² and M. Doğanlar⁴

1. Department of Plant Protection, Islamic Azad University, Shiraz Branch, P.O. Box 71475-1334, Shiraz, Iran, 2. Department of Plant Protection, Islamic Azad University, Science and Research Branch, Tehran, Iran, 3. Insect Taxonomy Research Department, Iranian Research Institute of Plant Protection, P.O. Box 1454, Tehran 19395, Iran, 4. Agriculture Faculty, Mustafa Kemal University, Antakya, Hatay, Turkey.

*Corresponding author, E-mail: hesami@iaushiraz.ac.ir

چکیده

جهت شناسایی پارازیتوئیدهای زنبور گالزای رز، *Diplolepis rosae* (L.) (Hym.: Cynipidae) نمونه برداری‌هایی از رزهای زیتنی و نسترن در نقاط مختلف استان‌های فارس و تهران صورت گرفت. این نمونه‌ها به مدت یک سال در شرایط آزمایشگاه نگه‌داری و گونه‌های مختلفی از زنبورهای خسانواده‌های Eupelmidae، Eulophidae، Pteromalidae و Torymidae جمع‌آوری شد که گونه‌ی *Torymus lapsanae* (Hoffmeyer) (Hym.: Torymidae) به عنوان گزارش جدیدی برای فون ایران معرفی می‌گردد. این گونه در ۱۷ آبان ۱۳۸۴ از نمونه‌های جمع‌آوری شده در ۱۰ فروردین ۱۳۸۴ از باغ‌های قصردشت در شیراز و در تاریخ ۱۸ شهریور ۱۳۸۴ از نمونه‌های جمع‌آوری شده در خرداد ۱۳۸۴ از منطقه‌ی دماوند تهران خارج گردید.

Several species of Hymenoptera feed on different parts of rose. Most of these species belong to Cynipidae that produce galls. *Diplolepis rosae* (L.) and *D. mayri* (Schlechtendal) have been reported as rose gall wasps in Iran (Farahbakhsh, 1961; Shojai 1998). Most gall-makers have a complex of specific natural enemies that help suppress their populations. To identify the parasitoids of rose gall wasp, *D. rosae*, samples of rose and dog rose (*Rosa canina*) were collected from different regions of Fars and Tehran provinces during spring and summer of 2005 and 2006. These samples were kept in laboratory conditions for one year and the emerged wasps collected. Various species of Chalcidoidea from Eupelmidae, Eurytomidae, Pteromalidae and Torymidae were emerged, of which the following species is newly recorded from Iran:

- *Torymus lapsanae* (Hoffmeyer)

Syn.: *Callimome lapsanae* Hoffmeyer

Torymus lapsanae (Hoffmeyer)

This species belongs to the subfamily Toryminae and tribe Torymini, and can be recognized by these characters: body length 2-2.3 mm, body blue, basal antennal segment

brown with yellow in lower side, femora and tibiae brownish-yellow, hind femora with greenish sheen outside, long spur of hind tibiae shorter than half length of first tarsal segment, ovipositor longer than abdomen.

Two specimens of *T. lapsanae* emerged on 8 November 2005 from samples collected on 30 March 2005 in Ghasrodasht orchards in Shiraz (Fars province). Also, five specimens emerged on 9 September 2005 from samples collected in June 2005 in Damavand (Tehran province). All specimens of *T. lapsanae* emerged from galls on dog rose. This species has already been reported from West Europe, Hungary and Ukraine as a parasitoid of *Timaspis lapsanae* Perr. (Hym.: Cynipidae) (Noyes, 2005). Therefore, this is the first record of the host-parasitoid relationship of *T. lapsanae* and *D. rosae*.

Specimens of *T. lapsanae* were deposited in Agriculture Faculty, Mustafa Kemal University, Antakya (Turkey) and Department of Plant Protection, Islamic Azad University, Shiraz (Iran).

References

- Farahbakhsh, Gh.** (1961) *Checklist of important insects and other enemies of plants of agriculture products in Iran*. 44 pp. Ministry of Agriculture and Natural Resources, Extension Service, Tehran.
- Noyes, J. S.** (2005) Universal Chalcidoidea database; world wide web electronic publication. Available on: <http://www.nhm.ac.uk/entomology/chalcidoids/index.html> (accessed 5 July 2005).
- Shojai, M.** (1998) *Entomology (ethology, social life and natural enemies) (biological control)*, Vol. III, 3rd ed., 550 pp. Tehran University Publication. [In Persian].

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