Copidosoma boucheanum Ratzeburg (Hym.: Encyrtidae): new record from Iran

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Abstract: The encyrtid species Copidosoma boucheanum Ratzeburg (Hym.: Chalcidoidea, Encyrtidae) was identified and is reported for the first time from Iran. These specimens were reared from leafroller larvae (Lep.: Tortricidae) on Populus sp. as a polyembryonic endoparasitoid. Copidosoma species of Iran are listed with their distribution.

Key words: Tortricidae, Copidosoma, biological control, distribution, new record

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Noyes (2005); 2) fore coxae yellow, while Guerrieri and Noyes (2005) mentioned that they varied from completely yellow to completely brown with a metallic green sheen; 3) exerted part of ovipositor varying from 1 to 1.1 times as long as midtibia (Figure 1A), whereas it was mentioned as 0.8–1.1 times as long by Guerrieri and Noyes (2005); 4) antenna with scape long and slender, about 9 times as long as broad, F1 about 6.6 times as long as broad and about 2 times as long as pedicel (Figure 1C), while it was described as 6.4 times as long as broad by Guerrieri and Noyes (2005).

**Geographical distribution.** This is the first record of *C. boucheanum* in Iran, but it is known from Europe, Central Asia, and the Middle East (Noyes, 2013).

**Hosts.** These specimens were reared from leafroller larvae (Lep.: Tortricidae) on *Populus* sp. as a polyembryonic endoparasitoid (Figures 2A and 2B).

*Copidosoma boucheanum* is a parasitoid of different microlepidopterous families (Gelechiidae, Lymantriidae, Tortricidae, and Yponomeutidae) (Guerrieri and Noyes, 2005).

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**Table.** List of *Copidosoma* species reported from Iran and their distribution.

<table>
<thead>
<tr>
<th>Species</th>
<th>Distribution in Iran</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td><em>Copidosoma boucheanum</em></td>
<td>Alborz Province (Sirachal)</td>
<td>New record</td>
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<tr>
<td><em>Copidosoma floridanum</em></td>
<td>East Azerbaijan Province (Marand)</td>
<td>Lotfalizadeh (2010b)</td>
</tr>
<tr>
<td><em>Copidosoma varicorne</em></td>
<td>Azerbaijan, Markazi, and Tehran provinces</td>
<td>Chodjai (1968), Sabzevari (1968)</td>
</tr>
</tbody>
</table>

*: This species was originally described from Iran without exact type locality.
References


