



## Updated checklist of Iranian Opiinae (Hymenoptera: Braconidae)

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### Abstract

An updated checklist of Opiinae from Iran is provided including 101 species from 11 genera (*Atormus* van Achterberg, 1997, *Biosteres* Foerster, 1862, *Eurytenes* Forster, 1862, *Fopius* Wharton, 1987, *Indiopi* Fischer, 1966, *Opius* Wesmael, 1835, *Phaedrotoma* Forster, 1862, *Pokomandya* Fischer, 1959, *Psytalia* Walker, 1860, *Utetes* Forster, 1862 and *Xynobius* Forster, 1862) belonging to two tribes (Biosterini and Opiini). Moreover, seven species *Biosteres* (*Chilotrichia*) *punctiscuta* (Thomson, 1895), *Biosteres* (*Biosteres*) *remigii* Fischer, 1971, *Eurytenes* (*Eurytenes*) *abnormis* (Wesmael, 1835), *Opius* (*Hypocynodus*) *ponticus* Fischer, 1958, *Opius* *pygmaeator* (Nees, 1811), *Opius* (*Nosopoea*) *speciosus* Fischer, 1959 and *Phaedrotoma* *nitidulator* (Nees, 1834) are recorded for the first time from Iran.

**Key words:** Hymenoptera, Braconidae, Opiinae, new records, checklist, Iran

### Introduction

Within the family Braconidae, the subfamily Opiinae is one of the largest subfamilies containing about 2,000 described species known in the world fauna (Yu *et al.* 2012). *Opius* is the largest genus in Opiinae with over 1,000 species, which has been segregated into 34 subgenera by Fischer (1987). The validity of this subgeneric classification has not been widely accepted, but some of the subgenera have now been synonymized or raised to genus level (Li *et al.* 2013).

Species of the subfamily Opiinae are solitary koinobiont endoparasitoids of larvae of cyclorhaphous Diptera, but oviposition may take place in the egg of the hosts (egg-larval parasitoids). They play an important role in the control of dipterous pests such as fruit flies (Tephritidae) and leaf-miner flies (Agromyzidae) (Wharton 1984, 1997; Schuster and Wharton 1993).

The first records of Iranian Opiinae were given by Fischer (1960, 1963, 1990, 2001) with occasional records of few species (examples are *Biosteres* (*Chilotrichia*) *blandus* (Haliday, 1837), *Eurytenes* (*Xynobiotenes*) *scutellatus* (Fischer, 1962), *Opius* (*Nosopoea*) *maculipes* Wesmael, 1835, *Opius* (*Nosopoea*) *teheranensis* Fischer, 1990, *Phaedrotoma* *exigua* or (Wesmael, 1835), among others). Since then, records of Iranian Braconidae have been published sporadically. Fallahzadeh and Saghaei (2010) recorded only seven species belonging to four genera, *Eurytenes* (1), *Fopius* (1), *Opius* (4) and *Phaedrotoma* (1). Recent studies have improved the knowledge of this subfamily in Iran with the description and record of further species (Ghahari *et al.* 2009, 2010a, b, 2011a, b, 2012a, b; Ghahari and Fischer 2011, 2012; Lashkari *et al.* 2011; Rastegar *et al.* 2012; Khajeh *et al.* 2014; Ameri *et al.* 2014). The present work provides a checklist of Opiinae from Iran with additional data about species occurrence.

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