

**"POPULATION DYNAMICS, BIOLOGICAL
CONTROL, AND INTEGRATED MANAGEMENT OF
FOREST INSECTS"**

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— **BOOK OF ABSTRACTS** —

Native species *Homalotylus flaminus* Dalman (Hymenoptera, Encyrtidae) parasitoid of *Harmonia axyridis* on Balkan Peninsula

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Alien insects could be harmful in agriculture, horticulture or forestry. Invasive alien insects are known to threaten native biodiversity and ecosystems. *Harmonia axyridis* (Pallas) harlequin ladybird (Coleoptera, Coccinellidae) is one of most invasive species in Europe. In its native range it occupies woodland forest habitats, but in invaded area besides forest habitats it also occupies coniferous woodland, cultivated agricultural, horticultural and domestic habitats, public green spaces, tree lines, gardens, buildings in urban area. It is native in East Asia, but it increased its range to North and South America, South Africa, Egypt and Europe. At the Balkan Peninsula it was for the first time observed in 2008 in Serbia. Next year on it was recorded in Albania, Bosnia and Herzegovina, Bulgaria and FRY Macedonia. In 2010 it expanded its range in Croatia and Montenegro. *H. axyridis* was introduced intentionally as biological control agent and unintentionally in trade of ornamental nursery stock.

Homalotylus flaminus Dalman (Hymenoptera, Encyrtidae) was identified as larval parasitoid of *H. axyridis* in June 2010 in Croatia. Parasitized larvae of harlequin ladybird were found in the city park of the town Duga Resa. In one larva were found 5 pupae of the parasitoid. Adults emerged in the middle of June. Parasitoid *H. flaminus* is cosmopolitan species. At Balkan Peninsula it is reported from Albania, Bulgaria, Croatia, Macedonia and Serbia. It is described as parasitoid of larvae and pupae of more than 65 species of Coccinellidae. This is the first record of parasitism of native species *H. flaminus* on invasive species *Harmonia axyridis*.