

Accepted Manuscript

Oviposition preference of aphidophagous hoverflies toward oviposition site quality: The presence of intra- and interspecific competitor, glucosinolate content and prey species

Ali Reza Amiri-Jami, Hussein Sadeghi, Francis Gilbert, Gholamhossein Moravvej, Ahmad Asoodeh

PII: S1226-8615(15)30192-8
DOI: doi: [10.1016/j.aspen.2016.02.002](https://doi.org/10.1016/j.aspen.2016.02.002)
Reference: ASPEN 752

To appear in: *Journal of Asia-Pacific Entomology*

Received date: 28 October 2015
Revised date: 13 February 2016
Accepted date: 23 February 2016



Please cite this article as: Amiri-Jami, Ali Reza, Sadeghi, Hussein, Gilbert, Francis, Moravvej, Gholamhossein, Asoodeh, Ahmad, Oviposition preference of aphidophagous hoverflies toward oviposition site quality: The presence of intra- and interspecific competitor, glucosinolate content and prey species, *Journal of Asia-Pacific Entomology* (2016), doi: [10.1016/j.aspen.2016.02.002](https://doi.org/10.1016/j.aspen.2016.02.002)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Oviposition preference of aphidophagous hoverflies toward oviposition site quality: the presence of intra- and interspecific competitor, glucosinolate content and prey species

Ali Reza Amiri-Jami ¹, Hussein Sadeghi ¹, Francis Gilbert ², Gholamhossein Moravvej ¹ and Ahmad Asoodeh³.

¹Department of Plant Protection, Faculty of Agriculture, Ferdowsi University of Mashhad, Mashhad, Iran,

²School of Life Sciences, Nottingham University, Nottingham NG7 2RD, U.K.

³Department of Chemistry, Faculty of Science, Ferdowsi University of Mashhad, Mashhad, Iran

Correspondence: Hussein Sadeghi, Department of Plant Protection, Faculty of Agriculture, Ferdowsi University of Mashhad, Mashhad, Iran, Tel.: +98 9155255583; fax: +98 511 87888757. E-mail: Sadeghin@um.ac.ir.

Abstract

The selection of oviposition sites by aphidophagous insects is complex because of tritrophic interactions among host plant, aphid and natural enemies. Several factors are known to affect the choice of oviposition site by aphidophagous hoverflies. The decisions of ovipositing females about where to lay their eggs are even more important in insects whose newly hatched offspring have limited dispersal ability, such as most aphidophages. In this study we focused on the oviposition responses of two generalist aphidophagous syrphids (*Eupeodes luniger* and *Episyrphus balteatus*) towards host plant-aphid combinations differing in sinigrin content and the

Download English Version:

<https://daneshyari.com/en/article/6379985>

Download Persian Version:

<https://daneshyari.com/article/6379985>

[Daneshyari.com](https://daneshyari.com)