

# Biocontrol Science and Technology

## CONTENTS

VOLUME 27 NUMBER 7 2017

### RESEARCH ARTICLES

Association of *Beauveria bassiana* with grapevine plants deters adult black vine weevils, *Otiorhynchus sulcatus* YVONNE RONDOT AND ANNETTE REINEKE 811

Effects of *Palpita unionalis* and *Galleria mellonella* larval densities on functional response, egg dispersion and progeny sex ratio of *Habrobracon hebetor* AMANY MANSOUR AND MOOSA SABER 821

Parameters affecting plant defense pathway mediated recruitment of entomopathogenic nematodes CAMILA CRAMER FILGUEIRAS, DENIS S. WILLETT, RAMOM VASCONCELOS PEREIRA, PAULO HENRIQUE DE SIQUEIRA SABINO, ALCIDES MOINO JUNIOR, MARTIN PAREJA AND DONALD W. DICKSON 833

Microbial control of cotton pests: use of the naturally occurring entomopathogenic fungus *Aspergillus* sp. (BC 639) in the management of *Bemisia tabaci* (Genn.) (Hemiptera: Aleyrodidae) and beneficial insects on transgenic cotton crops ROBERT K. MENSAH AND ALISON YOUNG 844

Immune defence components of *Spodoptera exigua* larvae against entomopathogenic nematodes and symbiotic bacteria REYHANEH DARSOUEI, JAVAD KARIMI, MOJTABA HOSSEINI AND MOHAMMAD GHADAMYARI 867

Oral insecticidal activity of new bacterial isolates against insects in two orders LUCA RUTU, BARBARA VIRDIS, MARIA ELENA MURA, IGNAZIO FLORIS, ALBERTO SATTA AND EUSTACHIO TARASCO 886

### SHORT COMMUNICATION

A native predator utilising the invasive brown marmorated stink bug, *Halyomorpha halys* (Hemiptera: Pentatomidae) as a food source DAVID J. BIDDINGER, ALEX SURCICĂ AND NEELENDRA K. JOSHI 903

**VOLUME 27 NUMBER 8 2017**

RESEARCH ARTICLES

Potential non-target effects of *Sclerodermus harmandi* (Hymenoptera:Bethylidae) on *Triaspis* sp. (Hymenoptera: Braconidae) YIJUN LIU, BOLONG ZHANG, YANMEI XIE AND SONG YANG 909

*Metarhizium microsclerotia* and hydrogel versus hydromulch: testing fungal formulations against Asian longhorned beetles SANA GARDESCU, ANN E. HAJEK, TARRYN A. GOBLE AND MARK A. JACKSON 918

Virulence of *Metarhizium anisopliae* and *Beauveria bassiana* isolates and the effects of fungal infection on the reproduction potential of *Rhiphicephalus microplus* engorged females J. ALCALÁ-GÓMEZ, C. CRUZ-VÁZQUEZ, M. FERNÁNDEZ-RUVALCABA, C. ÁNGEL-SAHAGÚN, I. VITELA-MENDOZA AND M. RAMOS-PARRA 931

Mechanical production of pellets for the application of entomopathogenic nematodes: effect of pre-acclimation of *Steinernema glaseri* on its survival time and infectivity against *Phyllophaga vetula* CARLOS INOCENCIO CORTÉS-MARTÍNEZ, EDWIN E. LEWIS, JAIME RUIZ-VEGA AND GABINO ALBERTO MARTÍNEZ-GUTIÉRREZ 940

Spruce wood degradation by *Pleurotus abieticola* in comparison with *Phlebiopsis gigantea* and *Heterobasidion parviporum*: *in vitro* experiments with isolates ANNA ŻÓŁCIAK 952

Genomic-assisted characterisation of *Pseudomonas* sp. strain Pf4, a potential biocontrol agent in hydroponics SERENA MORUZZI, GIUSEPPE FIRRAO, CESARE POLANO, STEFANO BORSELLI, ALBERTO LOSCHI, PAOLO ERMACORA, NAZIA LOI AND MARTA MARTINI 969

*Hymenoscyphus fraxineus* mitovirus 1 naturally disperses through the airborne inoculum of its host, *Hymenoscyphus fraxineus*, in the Czech Republic VENDULA ČERMÁKOVÁ, TOMÁŠ KUDLÁČEK, GABRIELA ROTKOVÁ, JIŘÍ ROZSYPÁLEK AND LETICIA BOTELLA 992

SHORT COMMUNICATIONS

Extrafloral nectar of *Hibiscus cannabinus* promotes adult populations of *Harmonia axyridis* CHUN-LI XIU, HONG-SHENG PAN, ABID ALI AND YAN-HUI LU 1009

Biological control increases the susceptibility of *melaleuca quinquenervia* to fire PHILIP W. TIPPING, MELISSA R. MARTIN AND LYN A. GETTYS 1014