

RAPID COMMUNICATIONS

Rapid discrimination of two cryptic species within *Brontispa longissima* (Gestro) (Coleoptera: Chrysomelidae) by PCR–RFLP

S. Takano · A. Mochizuki · K. Takasu · K. Konishi · J.C. Alouw · D.S. Pandin · S. Nakamura 151

First report in Italy of the dusky sap beetle, *Carpophilus lugubris*, a new potential pest for Europe

F. Marini · F. Mutinelli · F. Montarsi · A.R. Cline · E. Gatti · P. Audisio 157

ORIGINAL PAPERS

Interaction of spittlebug and forage grass under different carbon dioxide concentrations

R.B. Ferreira · J.C. Moraes · A.M. Auad · M.G. Fonseca 161

Effect of temperature on the biology of *Acyrtosiphon gossypii* Mordvilko (Homoptera: Aphididae) on cotton

G.-Z. Gao · L.E. Perkins · M.P. Zalucki · Z.-Z. Lu · J.-H. Ma 167

Population genetic structure and ecological niche modelling of the leafhopper *Hishimonus phycitis*

M. Shabani · C. Bertheau · M. Zeinalabedini · A. Sarafrazi · M. Mardi · S. Mohajeri Naraghi · H. Rahimian · M. Shojaee 173

Geographic distribution of chestnut feeding insects in Greece

D.N. Avtzis · C. Perlerou · S. Diamandis 185

Temporal synchrony of *Thaumetopoea processionea* egg hatch and *Quercus robur* budburst

E. Wagenhoff · R. Blum · K. Engel · H. Veit · H. Delb 193

Comparison of spinosad with three traditional grain protectants against *Prostephanus truncatus* (Horn) and *Ephestia kuehniella* (Zeller) at different temperatures

E. Pozidi-Metaxa · C.G. Athanassiou 203

Initial and residual efficacy of insecticides on different surfaces against rice weevil *Sitophilus oryzae* (L.)

D. Jankov · D. Indić · P. Kljajić · R. Almaši · G. Andrić · S. Vuković · M. Grahovac 211

Isolation and identification of entomopathogenic fungi and their evaluation against *Tribolium confusum*, *Sitophilus zeamais*, and *Rhyzopertha dominica* in stored maize

P. Barra · L. Rosso · A. Nesci · M. Etcheverry 217

The use of water traps and presence of spermatophores to evaluate mating disruption in the almond moth, *Ephestia cautella*, during exposure to synthetic sex pheromone

P. Trematerra · S. Savoldelli 227

Influence of nonhost plant diversity and natural enemies on the potato leafhopper, *Empoasca fabae*, and pea aphid, *Acyrtosiphon pisum*, in alfalfa

C.S. Straub · N.P. Simasek · M.R. Gapinski · R. Dohm · E.O. Aikens · S. Muscella 235

Host discrimination ability in the tephritid parasitoid *Psytalia concolor* (Hymenoptera: Braconidae)

G. Benelli · G. Gennari · A. Canale 245

Reproductive strategies and food sources used by *Acerophagus* n. sp. near *coccois*, a new successful parasitoid of the invasive mealybug *Phenacoccus peruvianus*

A. Beltrà · A. Tena · A. Soto 253

Diversity of entomopathogenic bacteria associated with the white grub, *Brahmina coriacea*

A. Sharma · D.R. Thakur · S. Kanwar · V.K. Chandla 261

Pathogenicity of three entomopathogenic fungi on pupae and adults of the Mediterranean fruit fly, *Ceratitis capitata* (Diptera: Tephritidae)

E.I. Beris · D.P. Papachristos · A. Fytrou · S.A. Antonatos · D.C. Kontodimas 275

Transfer of inoculum of *Metarhizium anisopliae* between adult *Glossina morsitans morsitans* and effects of fungal infection on blood feeding and mating behaviors

N.K. Maniania · M.A. Okech · J.O. Adino · J.O. Opere · S. Ekesi 285

Joint action of *Beauveria bassiana* and the insect growth regulators diflubenzuron and novaluron, on the migratory locust, *Locusta migratoria*

N. Bitsadze · S. Jaronski · V. Khasdan · E. Abashidze · M. Abashidze · A. Latchinsky · D. Samadashvili · I. Sokhadze · M. Rippa · I. Ishaaya · A.R. Horowitz 293

Plant-derived essential oils affecting settlement and oviposition of *Bemisia tabaci* (Genn.) biotype B on tomato

E.L.L. Baldin · A.E.M. Crotti · K.A.L. Wakabayashi · J.P.G.F. Silva · G.P. Aguiar · E.S. Souza · R.C.S. Veneziani · M. Groppo 301

Continued on inside back cover

Behavioral responses of *Aedes aegypti* and *Culex quinquefasciatus* (Diptera: Culicidae) to four essential oils in Thailand

K. Suwansirisilp · S. Visetson · A. Prabaripai ·
S. Tanasinchayakul · J.P. Grieco · M.J. Bangs ·
T. Chareonviriyaphap **309**

Lethal and sublethal effects of spirotetramat on the mealybug destroyer, *Cryptolaemus montrouzieri*

L. Planes · J. Catalán · A. Tena · J.L. Porcuna · J.A. Jacas ·
J. Izquierdo · A. Urbaneja **321**

Acute toxicity in laboratory tests of fresh and aged residues of pesticides used in citrus on the parasitoid *Aphytis melinus*

P. Vanaclocha · C. Vidal-Quist · S. Oheix · H. Montón · L. Planes ·
J. Catalán · A. Tena · M.J. Verdú · A. Urbaneja **329**

Defensin (TvD1) from *Tephrosia villosa* exhibited strong anti-insect and anti-fungal activities in transgenic tobacco plants

S. Vijayan · N.K. Singh · P. Shukla · P.B. Kirti **337**

Relative competitiveness of glyphosate-resistant and glyphosate-susceptible populations of hairy fleabane, *Conyza bonariensis*

I.S. Travlos · D. Chachalis **345**

Synthesis of *N*-substituted dimethylmaleimides and their antifungal activities against *Sclerotinia sclerotiorum*

Z. Shen · Y. Fan · F. Li · X. Chen · Y. Shen **353**