

EDITORIAL

Editorial 2010

M. Traugott 1

ORIGINAL PAPERS

Insecticidal properties of *Thymus persicus* essential oil against *Tribolium castaneum* and *Sitophilus oryzae*

A.T. Saroukolai · S. Moharrampour · M.H. Meshkatsadat 3

Life table and population parameters of cowpea aphid, *Aphis craccivora* Koch (Homoptera: Aphididae) on five cowpea *Vigna unguiculata* (L. Walp.) varieties

M. Obopile · B. Ositile 9

Improving the floral attractant to lure *Epicometis hirta* Poda (Coleoptera: Scarabaeidae, Cetoniinae)

J. Vuts · I. Szarukán · M. Subchev · T. Toshova · M. Tóth 15

Predicting the number of nymphal instars plus new-generation adults of the Sunn Pest from overwintered adult densities and parasitism rates

H. Kutuk · R. Canhilal · M. Islamoglu · A.D. Kanat · M. El-Bouhssini 21

Effect of botanical insecticide Nimbecidine® on food consumption and egg hatchability of the terrestrial snail *Monacha obstructa*

M.A. Shoab · M.F. Mahmoud · N. Loutfy · M.A. Tawfic · M. Barta 27

Effects of age and host availability on reproduction of *Trioxys angelicae* Haliday (Hymenoptera: Braconidae) parasitizing *Aphis fabae* Scopoli (Hemiptera: Aphididae)

M. Mahmoudi · A. Sahragard · J.J. Sendi 33

Comparative data on the insecticide resistance of *Anopheles albimanus* in relation to agricultural practices in northern Belize, CA

I. Dusfour · N.L. Achee · I. Briceno · R. King · J.P. Grieco 41

Assessing the potential for biological control of potato field pests in Ardabil, Iran: functional responses of *Orius niger* (Wolf.) and *O. minutus* (L.) (Hemiptera: Anthocoridae)

S.A.A. Fathi · G. Nouri-Ganbalani 47

Field evaluation of the egg parasitoid, *Trichogramma evanescens* West. against the olive moth *Prays oleae* (Bern.) in Egypt

E. Agamy 53

ORIGINAL PAPERS

Mass rearing of *Neochrysocharis formosa* (Westwood) (Eulophidae: Hymenoptera), a parasitoid of leafminers (Agromyzidae: Diptera)

A. Saleh · T.F. Allawi · I. Ghabeish 59

Herbivory affects ovarian development in the zoophytophagous predator *Brontocoris tabidus* (Heteroptera, Pentatomidae)

W.P. Lemos · J.C. Zanuncio · F.S. Ramalho · V.V. Zanuncio · J.E. Serrão 69

Influence of five host plants of *Aphis gossypii* Glover on some population parameters of *Hippodamia variegata* (Goeze)

X.-H. Wu · X.-R. Zhou · B.-P. Pang 77

Inheritance and detoxification enzyme levels in *Tetranychus urticae* Koch (Acari: Tetranychidae) strain selected with chlorpyrifos

R. Ay · S. Yorulmaz 85

Leaves from grafted Meliaceae species affect survival and performance of *Hypsipyla grandella* (Zeller) (Lepidoptera: Pyralidae) larvae

J. Perez · S. Eigenbrode · L. Hilje · R. Tripepi · M.E. Aguilar · F. Mesén 95

Direct and admixture toxicity of diatomaceous earth and monoterpenoids against the storage pests *Callosobruchus maculatus* (F.) and *Sitophilus oryzae* (L.)

Md.S. Islam · Md.M. Hasan · C. Lei · T. Mucha-Pelzer · I. Mewis · C. Ulrichs 105

Studies on the damage potential of *Closterotomus* (= *Calocoris*) *trivialis* and *Aphanosoma italicum* (Hemiptera: Miridae) on citrus

D. Perdikis · S. Panagakis · D. Maselou 113

Effects of processed kaolin on pests and non-target arthropods in a Spanish olive grove

S. Pascual · G. Cobos · E. Seris · M. González-Núñez 121

Phylogenetic analysis of *Bemisia tabaci* (Hemiptera: Aleyrodidae) populations from cotton plants in Pakistan, China, and Egypt

M.Z. Ahmed · S.-X. Ren · N.S. Mandour · M.N. Maruthi · M. Naveed · B.-L. Qiu 135

Neem-based integrated approaches for the management of tea mosquito bug, *Helopeltis theivora* Waterhouse (Miridae: Heteroptera) in tea

S. Roy · G. Gurusubramanian · A. Mukhopadhyay 143

Effect of the lectin PHA on the feeding behavior of the grain aphid

I. Sprawka · S. Goławska 149

Nutritional requirements for larval development of the dry wood borer *Trichoferus holosericeus* (Rossi) in laboratory cultures

S. Palanti · B. Pizzo · E. Feci · L. Fiorentino · A.M. Torniai 157

Effect of host plants on life-history traits of *Spodoptera exigua* (Lepidoptera: Noctuidae)

S. Saeed · A.H. Sayyed · I. Ahmad 165

Acaricidal, repellent and oviposition deterrent activities of *Datura stramonium* L. against adult *Tetranychus urticae* (Koch)

N.A. Kumral · S. Çobanoğlu · C. Yalcin 173

Efficacy of *Clausena anisata* and *Plectranthus glandulosus* leaf powder against *Prostephanus truncatus* (Coleoptera: Bostrichidae) and two strains of *Sitophilus zeamais* (Coleoptera: Curculionidae) on maize

E.N. Nukenine · C. Adler · C. Reichmuth 181

Comparison of two methods of monitoring thrips populations in a greenhouse rose crop

J. Pizzol · D. Nammour · P. Hervouet · A. Bout · N. Desneux · L. Mailleret 191

ORIGINAL PAPERS

Biological invasion of European tomato crops by *Tuta absoluta*: ecology, geographic expansion and prospects for biological control

N. Desneux · E. Wajnberg · K.A.G. Wyckhuys · G. Burgio · S. Arpaia · C.A. Narváez-Vasquez · J. González-Cabrera · D. Catalán Ruescas · E. Tabone · J. Frandon · J. Pizzol · C. Poncet · T. Cabello · A. Urbaneja 197

Using plant essences as alternative mean for northern root-knot nematode (*Meloidogyne hapla*) management

O. Douda · M. Zouhar · J. Mazáková · E. Nováková · R. Pavela 217

Characterization of antibiosis and antixenosis to the whitefly silverleaf *Bemisia tabaci* B biotype (Hemiptera: Aleyrodidae) in several squash varieties

E.L.L. Baldin · R.A. Beneduzzi 223

Socioeconomic and environmental risk factors for urban rodent infestation in Sao Paulo, Brazil

E. Masi · F.A. Pino · M.d.G.S. Santos · L. Genehr · J.O.M. Albuquerque · A.M. Bancher · J.C.M. Alves 231

Effects of gamma radiation on the Mediterranean flour moth, *Ephesia kuehniella*, eggs and acceptability of irradiated eggs by *Trichogramma cacoeciae* females

M. Mansour 243

Parasitism of different *Trichogramma* species and strains on *Plutella xylostella* L. on greenhouse cauliflower

E. Tabone · C. Bardon · N. Desneux · E. Wajnberg 251

Influence of soil on the efficacy of entomopathogenic nematodes in reducing *Diabrotica virgifera virgifera* in maize

S. Toepfer · B. Kurtz · U. Kuhlmann 257

Laboratory and field evaluations of some botanical pesticides against the cedar leaf moth, *Acleris undulana*

F. Erler · H. Cetin · H. Saribasak · A. Serttas 265

Insecticidal activity of (2*n*-octylcycloprop-1-enyl)-octanoic acid (I) against three Coleopteran stored product insects from *Sterculia foetida* (L.)

P.U. Rani · P. Rajasekharreddy 273

Fitness of heat and desiccation tolerant hybrid strains of *Heterorhabditis bacteriophora* (Rhabditidomorpha: Heterorhabditidae)

J. Mukuka · O. Strauch · C. Hoppe · R.-U. Ehlers 281

Effect of cotton cultivars on the oviposition preference of pink bollworm (Lepidoptera: Gelechiidae)

A.C. Chatzigeorgiou · N.T. Papadopoulos · D.A. Prophetou-Athanasidou 289

Toxicity of synthetic and biological insecticides against adults of the *Eucalyptus* snout-beetle *Gonipterus scutellatus* Gyllenhal (Coleoptera: Curculionidae)

D. Echeverri-Molina · S. Santolamazza-Carbone 297

Antifeedant and toxic effects of acetogenins from *Annona montana* on *Spodoptera frugiperda*

L. Di Toto Blessing · O. Álvarez Colom · S. Popich · A. Neske · A. Bardón 307

Garlic essential oil and its major component as fumigants for controlling *Tribolium castaneum* (Herbst) in chambers filled with stored grain

F.-L. Yang · F. Zhu · C.-L. Lei 311

Larval and adult food preferences of the poinsettia thrips *Echinothrips americanus* Morgan, 1913 (Thysanoptera: Thripidae)

L. Varga · P.J. Fedor · M. Suvák · J. Kiseľák · E. Atakan 319

Blowfly (Diptera, Calliphoridae) damage on stockfish in northern Norway: pest species, damage assessment and the potential of mass trapping

A. Aak · T. Birkemoe · R. Mehl 329

Development, life history characteristics and behaviour of mealybug predator, *Spalgis epius* (Westwood) (Lepidoptera: Lycaenidae) on *Planococcus citri* (Risso) (Homoptera: Pseudococcidae)

A.S. Dinesh · M.G. Venkatesha · S. Ramakrishna 339

Environmental influence on urban rodent bait consumption

M. Patergnani · L. Mughini Gras · G. Poglayen · A. Gelli · F. Pasqualucci · M. Farina · L. Stancampiano 347

ORIGINAL PAPERS

Production of cuticle degrading enzymes by *Isaria fumosorosea* and their evaluation as a biocontrol agent against diamondback moth

S. Ali · Z. Huang · S. Ren 361

Field efficacy of a biopesticide prepared from *Clerodendrum viscosum* Vent. (Verbenaceae) against two major tea pests in the sub Himalayan tea plantation of North Bengal, India

S. Roy · A. Mukhopadhyay · G. Gurusubramanian 371

RETRACTION NOTE

Erratum to: Efficacy of inundative releases of *Trichogramma evanescens* in controlling *Lobesia botrana* in vineyards in Egypt

N.E. El-Wakeil · H.Th. Farghaly · Z.A. Ragab 379

ORIGINAL PAPERS

Pest risk analysis of *Metcalfa pruinosa* in Austria

G. Strauss 381

Efficacy of nine insecticides against shoot and fruit borer, *Leucinodes orbonalis* Guenee (Lepidoptera: Pyralidae) in eggplant

M.A. Latif · M.M. Rahman · M.Z. Alam 391

Effect of planted fallow systems on *Zonocerus variegatus* (Orthoptera: Pyrgomorphidae) abundance in the humid forest zone of Southern Cameroon

S. Kekeunou · S. Hauser · S. Weise · J. Messi · I. Moglan 399

Dynamics of resistance to organophosphate and carbamate insecticides in the cotton whitefly *Bemisia tabaci* (Hemiptera: Aleyrodidae) from Pakistan

M. Ahmad · M.I. Arif · M. Naveed 409

In vitro toxicity of alternative oxidase inhibitors salicylhydroxamic acid and propyl gallate on *Fusicladium effusum*

M. Seyran · T.B. Brenneman · K.L. Stevenson 421

Impact of geochemical composition of diatomaceous earth on its insecticidal activity against adults of *Sitophilus oryzae* (L.) (Coleoptera: Curculionidae)

H. Rojht · A. Horvat · C.G. Athanassiou · B.J. Vayias · Ž. Tomanović · S. Trdan 429

Potential use of hydroxytyrosol-rich extract from olive mill wastewater as a biological fungicide against *Botrytis cinerea* in tomato

T. Yangui · S. Sayadi · A. Rhouma · A. Dhouib 437

Temperature-dependent differences in biological traits between two strains of *Trichogramma cacoeciae* (Hymenoptera: Trichogrammatidae)

J. Pizzol · B. Pintureau · O. Khoualdia · N. Desneux 447

Activities of digestive and detoxification enzymes in multiple generations of beet armyworm, *Spodoptera exigua* (Hübner), in response to transgenic Bt cotton

J.-Y. Guo · G. Wu · F.-H. Wan 453

Relative efficacy of strobilurin formulations in the control of downy mildew of sunflower

J. Sudisha · S.R. Niranjana · S.L. Sukanya · R. Girijamba · N. Lakshmi Devi · H. Shekar Shetty 461

Bio-rational control of red flour beetle *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae) in stored wheat with Calneem[®] oil derived from neem seeds

C. Adarkwah · D. Obeng-Ofori · C. Büttner · C. Reichmuth · M. Schöller 471