

IOBC/wprs Bulletin Vol. 26 (1), 2003

Working Group „Insect Pathogens and Insect Parasitic Nematodes“, Proceedings of the 8th European Meeting “Entomopathogens and Insect Parasitic Nematodes: Current Research and Perspectives in Pest Biocontrol” at Athens (Greece), 29 May - 2 June 2001. Edited by: Bernard Papierok. ISBN 92-9067-149-8 [xviii + 278 pp.]

Microbial control in Greece – Forty years history <i>Christias Yamvrias</i>	1
Future needs in risk assessment of fungal Biological Control Agents <i>Hermann Strasser</i>	5
New challenges for fungal bioinsecticides <i>Jacques Fargues</i>	9
Fungus infection of the chicken mite <i>Dermanyssus gallinae</i> <i>Tove Steenberg, Ole Kilpinen</i>	23
Entomopathogenic fungi – Mycoinsecticides useful against lepidopteran pests in pulses <i>Mukund Deshpande, Ajit Chandele, Pallavi Nahar, Ashok Hadapad, Ganesh Patil, Vandana Ghormade, Siegfried Keller, Urs Tuor</i>	27
Impact of <i>Beauveria brongniartii</i> and <i>Metarhizium anisopliae</i> (Hyphomycetes) on <i>Lumbricus terrestris</i> (Oligochaeta, Lumbricidae) <i>A. Hozzank, S. Keller, O. Daniel, Ch. Schweizer</i>	31
Growth interactions between nematophagous and entomopathogenic fungi <i>M.L. López-Serna, L.V. López-Llorca, J. Salinas</i>	35
Persistent appearance of <i>Cordyceps gracilis</i> on <i>Selatosomus</i> -larvae near Siedlce (Poland) <i>Ryszard Mietkiewski, Stanislaw Balazy</i>	39
Brassicaceous plants and insect pathogenic fungi <i>Ingeborg Klingen, Ann Hajek1, Richard Meadow, J. Alan A. Renwick</i>	43
A molecular method to differentiate between resting spores from different members of the <i>Entomophthora muscae</i> -complex <i>Lene Thomsen, Annette Bruun Jensen</i>	45
Genetic variation among Latvian isolates of <i>Beauveria bassiana</i> <i>Eriks Jankevics, Mara Kropa, Lelde Grantina, Liga Jankevica</i>	51
Biological control of weevils (<i>Strophosoma</i> spp.) in Danish greenery plantations <i>Jørgen Eilenberg, Charlotte Nielsen, Susanne Vestergaard, Susanne Harding, Amy Frølander, Anna Augustyniuk</i>	55
Occurrence of entomopathogenic fungi in soils from different parts of Spain <i>E. A. A. Maranhão, C. Santiago-Alvarez</i>	59
On some little known epizootics in noxious and beneficial arthropod populations caused by entomophthoralean fungi <i>Stanislaw Balazy</i>	63
Investigations on entomophthoralean fungi in Latvia <i>Liga Jankevica, Zigrīda Cudare</i>	69
Survival of <i>Erynia neoaphidis</i> in aphid cadavers in a simulated winter environment <i>Tony Bonner, Simon N. Gray, Judith K. Pell</i>	73
Investigations on the occurrence of entomopathogenic fungi and entomoparasitic nematodes in soils from Lower Austria <i>A. Hozzank, R. Wegensteiner, W. Waitzbauer, A. Burnell, Z. Mráček, G. Zimmermann</i>	77
Results of preliminary investigations on the occurrence of Entomophthorales on aphids in Austria <i>Marek Barta, Mariana Stalmachová-Eliasová, Alexandra Hozzank, Ludovic Cagán, Rudolf Wegensteiner</i>	81
Occurrence of entomopathogenic fungi in soils from Central Italy under different managements <i>Cezary Tkaczuk, Giancarlo Renella</i>	85
Interaction between entomopathogenic and saprophytic fungi <i>Zigrīda Cudare, Mara Kropa</i>	91
Investigations on the virulence stability of <i>Verticillium lecanii</i> <i>Natalja Hetsch, Helga Sermann</i>	95
Influence of soil environment on growth and persistence of <i>Beauveria brongniartii</i> <i>Philip Kessler, Siegfried Keller</i>	99
Study on insecticidal, antifeedant and growth inhibitory properties of oosporein on selected pest organisms <i>Daniela Abendstein, Wolfgang Schweigkofler, Hermann Strasser</i>	103
Effects of various species and isolates of entomopathogenic fungi on <i>Alphitobius diaperinus</i> (Coleoptera: Tenebrionidae) <i>Elzbieta Popowska-Nowak</i>	107
Occurrence of entomopathogenic fungi in soil from apple and plum orchards <i>Anna Sapięha-Waszkiewicz, Ryszard Mietkiewski, Barbara Marjanska-Cichon</i>	113
Effect of temperature on conidia germination and vegetative growth of <i>Metarhizium anisopliae</i> <i>Hermann Strasser, Michaela Erschbamer</i>	117
Distinction of the entomopathogenic fungal species <i>Beauveria brongniartii</i> and <i>Beauveria bassiana</i> by comparing their carbon utilization patterns <i>Barbara Pernfuss, Wolfgang Schweigkofler, Hermann Strasser</i>	121
Fluorescence microscopic investigations on adhesion of spores of the entomopathogenic fungus <i>Verticillium lecanii</i> at larvae of <i>Frankliniella occidentalis</i> (Thysanoptera: Thripidae) <i>Ulrike Meyer, Helga Sermann</i>	125

Danish surveys on insects naturally infected with entomopathogenic nematodes Otto Nielsen, Holger Philipsen	131
Studies on <i>Steinernema feltiae</i> related to control of sciarids Solveig H. Salinas, Annette Sundby, Nina S. Johansen	137
Host potential of insects from cruciferous crops to entomopathogenic nematodes and augmentation of nematodes through oil seed rape growing Holger Philipsen, Otto Nielsen	141
Effect of entomopathogenic nematodes and insecticides on <i>Megaselia halterata</i> mortality Agnieszka Sznyk-Basalyga, Andrzej Bednarek	147
Impact of substrate conditions and application method on the efficacy of <i>Steinernema feltiae</i> Arne Peters, Jenny Backes	151
Desiccation survival of <i>Heterorhabditis</i> : physiological and biochemical changes following dehydration Liu Qi-zhi, Aharon Solomon, Itamar Glazer	159
Application of entomopathogenic nematodes in controlling overwintering larvae of <i>Thaumetopoea pityocampa</i> (Den. et Schiff.) (Lepidoptera: Thaumetopoeidae) Oreste Triggiani, Eustachio Tarasco	165
Effect of <i>Beauveria bassiana</i> on the invasion and proliferation of the entomopathogenic nematode <i>Heterorhabditis indica</i> inside <i>Galleria mellonella</i> larvae Omar M. Dar-Issa, Naim M. Iraki, Ralf-Udo Ehlers	169
Effect of heat shock on the penetration and development of infective juveniles of two entomopathogenic nematodes strains <i>Heterorhabditis indica</i> and <i>H. bacteriophora</i> inside <i>Galleria mellonella</i> larvae Basma Sandouka, Naim Iraki, Ralf-Udo Ehlers	173
Molecular identification of eight isolates of entomopathogenic nematodes from West Bank and Gaza Strip, Palestine Michael A. Sansour, Naim Iraki, Falah Younis, Sonja Hollmer, Ralf-Udo Ehlers	177
Identification of bacterial symbionts of entomopathogenic nematodes by the use of universally primed-PCR (UP-PCR) Otto Nielsen, Peter Stephensen Lübeck	181
Liquid culture production of biocontrol nematodes Ralf-Udo Ehlers, Arne Peters	185
Integrated control of <i>Lycoriella solani</i> (Diptera: Sciaridae) with entomopathogenic nematodes and insecticides Agnieszka Sznyk-Basalyga, Andrzej Bednarek	189
Effects of Steinernematidae and Heterorhabditidae on the lesser mealworm, <i>Alphitobius diaperinus</i> (Coleoptera: Tenebrionidae) Elzbieta Pezowicz	193
The influence of cadmium ions on the behaviour of <i>Steinernema feltiae</i> Filipjev IJs in soil Joanna Jarmul, Marta Kamionek	197
Spinosad, a non-synthetic, naturally derived insect control agent Richard Dutton, Costas Mavrotas, M. Miles, Petros Vergoulas	205
Screening <i>Bacillus thuringiensis</i> strains for activity against <i>Dociostaurus maroccanus</i> (Orthoptera: Acrididae) Enrique Quesada-Moraga, Cándido Santiago-Alvarez	209
Isolation and characterization of <i>Bacillus sphaericus</i> from soils in Greece Sophia G. Aptosoglou, Stephanos I. Koliais	215
Toxicity of wild <i>Bacillus thuringiensis</i> strains from Sardinia on <i>Lymantria dispar</i> (Lepidoptera: Lymantriidae) and comparison with commercial preparations Emanuela Bazzoni, Marcello Verdinelli	219
Characterization and insecticidal activity of <i>Bacillus thuringiensis</i> strains isolated from hazelnut fields in Turkey Remziye Nalcacioglu, Sabriye Dulger, Mustafa Yaman, Ali O. Belduz, Zihni Demirbag	223
Abortive infection of the insect parvovirus, <i>Mythimna loreyi</i> densovirus (MIDNV) in mammalian cells Mohamed El-Far, Yi Li, Gilles Fédière, Said Abol-Ela, Max Bergoin, Peter Tijssen	229
A nuclear polyhedrosis virus of the lackey moth, <i>Malacosoma neustria</i> (Lepidoptera: Lasiocampidae) in Turkey Mustafa Yaman, Remziye Nalcacioglu, Ali O. Belduz, Zihni Demirbag	233
Record of densoviral diseases occurring among the noctuid populations in lucerne fields at El-Bahareya oasis in Egypt Gilles Fédière, Mohamed A.K. El-Sheikh, Rabab El Mergawy, Moguib Salah, Maha Masri, Said Abol-Ela, Max Bergoin, Peter Tijssen	237
Preliminary results on the biological activity of a Polish isolate of nucleopolyhedrovirus against <i>Panolis flammea</i> Schiff. Iwona Skrzecz	241
Persistence of the biological effect of codling moth granulovirus in the orchard – a preliminary field trial Jutta Kienzle, Christof Schulz, Claus P.W. Zebitz, Juerg Huber	245
Codling moth granulovirus – An efficient tool for codling moth control in IPM Jutta Kienzle, Hubert Gernoth, Markus Litterst, Claus P.W. Zebitz, Juerg Huber	249
Occurrence of microsporidia and other pathogens in associated living spruce bark beetles (Coleoptera: Scolytidae) in an Austrian forest Bernhard Haidler, Rudolf Wegensteiner, Jaroslav Weiser	257
Ultrastructure and temperature sensitivity of bacteriomes in <i>Prostephanus truncatus</i> (Horn) R. G. Kleespies, C. Nansen, T. Adouhoun, A. M. Huger	261
A new canestriniid mite (Acari, Astigmata, Canestriniidae) associated with <i>Blaps polychresta</i> Forsk. (Insecta, Coleoptera, Tenebrionidae) Sh. M. O. El Bishlawy, S. F. M. Allam	267
Utilization of essential oils and chemical substances alone or in combination against Varroa mite (<i>Varroa destructor</i>), a parasite of honeybees S. F. M. Allam, M. F. Hassan, M. A. Risk, A. U. Zaki	273