



4th INTERNATIONAL SYMPOSIUM ON BIOLOGICAL CONTROL OF ARTHROPODS

Pucón, Chile - March 4th to 8th, 2013

Poster Program

Posters will be displayed throughout the meeting. During poster sessions authors are asked to be by their work according to the following schedule:

Poster session 1: Tuesday March 5, 5 to 7 pm → Posters 1 to 29 and 57 to 69

Poster session 2: Thursday March 7, 5 to 7 pm → Posters 30 to 56 and 70 to 88

Poster Number	Title	Presenter (institution, country)
Session 1	Risk Assessment in Arthropod Biological Control: Where are we?	
1	<i>Heringia calcarata</i> (Diptera: Syrphidae) – a potential biocontrol agent for Woolly Apple Aphid in New Zealand	John G Charles (The New Zealand Institute for Plant and Food Research Ltd, New Zealand)
2	Prediction of non-target impacts: can results be generalised between related species?	Sarah Mansfield (University of Sydney, Australia)
3	Risk assessment of the egg-parasitoid <i>Trissolcus Halyomorphae</i> (Scelionidae) for biocontrol of the Brown Marmorated Stink Bug <i>Halyomorpha halys</i> (Pentatomidae) in the USA	Julio Medal (Florida Department of Agriculture and Consumer Services, USA)
Session 3	Recent classical biological control projects against forest pests	
4	Classical biological control program against the chestnut gall wasp <i>Dryocosmus kuriphilus</i> (Hym., Cynipidae) in France: objectives and issues	Nicolas Ris (INRA, France)
5	Long-term monitoring of the biological control of the European shoot moth <i>Rhyacionia buoliana</i> Den. et Schiff. (Lepidoptera: Tortricidae) in Central Chile.	Luis Devotto (INIA, Chile)
6	Classic Biological Control and <i>Rhyacionia buoliana</i> (Schiff.) (Lepidoptera: Tortricidae): What we did, what we do and what we need to do?	Dolly Lanfranco (Universidad Austral, Chile)
7	<i>Anaphes tasmaniae</i> , parasitoid of <i>Gonipterus platensis</i> (Coleoptera: Curculionidae) introduced in	Sandra Ide (Servicio Agrícola y Ganadero, Chile)

	Chile	
8	Quarantine and rearing of <i>Cleruchoides noackae</i> (Hymenoptera: Myamridae), parasitoid of <i>Thaumastocoris peregrinus</i> (Hemiptera: Thaumastocoridae)	Sandra Ide (Servicio Agrícola y Ganadero, Chile)
Session 6	Mass production of Natural Enemies: Challenges and Opportunities	
9	Infectivity of <i>Aphidius ervi</i> on different aphid host: Does source matter?	Sebastián Ortiz-Martínez (Universidad de Talca, Chile)
10	Morphometric characterization of host and habitat associated <i>Aphidius ervi</i> populations	Cinthya Villegas González (Universidad de Talca, Chile)
11	Development of an artificial diet for the leaf beetle larvae to facilitate mass rearing of larval and pupal parasitoid wasps	Mika Murata (National Institute for Agro-Environmental Sciences, Japan)
Session 7	Strategies to Increase the Adoption of Biological Control in Greenhouses	
12	Alternating temperatures regimes affect development rates of <i>Phytoseiulus persimilis</i> Athias-Henriot and its target pest <i>Tetranychus urticae</i> Koch	Dominiek Vangansbeke (Ghent University, Belgium)
13	Evaluation of different food sources to improve the larval ectoparasitoid <i>Dineulophus phtorimaeae</i> (Hymenoptera:Eulophidae) fitness as a potential candidate for conservation biological control against <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae)	María Gabriela Luna (Centro de Estudios Parasitológicos y de Vectores – CONICET, Argentina)
14	Telematic tools as driving forces to adoption of sustainable practices in Greenhouses	Alexandre Bout (INRA, France)
15	Can food supplements improve polyphagous predator establishment in vegetable crops?	Judit Arnó (IRTA, Spain)
16	<i>Orius</i> banker plants, worth the investment?	Rosemarije Buitenhuis (Vineland Research and Innovation Centre, Canadá)
17	Has tiger-fly a role in biological control of protected crops?	Elisabete Figueiredo (Instituto Superior de Agronomia, Portugal)
18	Preliminary studies of positive and negative effects of brown lacewings on the control of foxglove aphids by parasitoids in sweet pepper	Nancy Greco (Centro de Estudios Parasitológicos y de Vectores – CONICET, Argentina)
Sesión 8	Augmentative and conservation biological control techniques in forestry IUFRO working group	
19	Formosan Subterranean termites and their interaction with entomopathogenic fungi	Abid Hussain (King Faisal University, The Kingdom of Saudi Arabia)
20	Biological control agents of cypress aphid present in Chile	Cristian Montalva (Universidad Austral de Chile, Chile)
21	Will climate change affect biological control in	Marc Kenis (CABI, Switzerland)

	forests and other natural habitats?	
Session 9	The effect of climate change on biological control	
22	Environmental conditions affect intraguild predation: implications for pest biological control in avocado orchards	Inmaculada Torres-Campos (Consejo Superior de Investigaciones Científicas, Spain)
23	Environmental warming influences the relative competitive ability between two natural enemies sharing a common prey	Celeste Guzmán (Consejo Superior de Investigaciones Científicas, Spain)
24	Potential future distribution of the Multicolored Asian lady beetle, <i>Harmonia axyridis</i> in Chile under a global warming scenario	Constanza Rodríguez (Universidad de Chile, Chile)
25	Influence of temperature on the life cycle of <i>Harmonia axyridis</i>	Tatiana de Oliveira Ramos (Universidade Estadual Paulista, Brazil)
Session 10	Use of Volatiles to Monitor or Manage Natural Enemies	
26	Natural enemies response to the sex pheromone of <i>Pseudococcus viburni</i> (Hemiptera: Pseudococcidae) in laboratory and field conditions	Fernanda Flores (Pontificia Universidad Católica de Valparaíso, Chile)
Session 11	Integrating Conservation Biological Control and Wildlife Conservation	
27	Mite diversity in shaded coffee and under full sun	Paulo Rebelles Reis (Empresa de Pesquisa Agropecuária de Minas Gerais, Brazil)
28	Native carabid beetles and salamanders as natural enemies of the invasive earthworm <i>Amyntas agrestis</i>	Anita Juen (University of Innsbruck, Austria)
Session 13	Functional implications of non-prey feeding in biological control	
29	Interactions of <i>Ricoseius loxocheles</i> (Acari: Phytoseiidae) and coffee leaf rust	Angelo Pallini (Universidade Federal de Lavras, Brasil)
Session 14	Generalist predators for plant pest control: applications, prospects and drawbacks	
30	An analysis of population structure of two <i>Orius</i> species in Japan for conservation biological control	Norihide Hinomoto (NARO Agricultural Research Center, Japan)
31	Native predators control <i>Bactericera cockerelli</i> in potato crops in New Zealand	Graham Peter Walker (Plant and Food Research, New Zealand)
32	Does predator functional richness increase the biological control of plant pests?	Abdelhak Rouabah (Université de Lorraine – INRA, France)
33	<i>Chrysoperla externa</i> (Neuroptera: Chrysopidae) as a biological control agent of pests in roses grown in an integrated production system	Brígida Souza (Universidade Federal de Lavras, Brasil)
34	Selection of candidate plants for the conservation of	Judit Arnó (IRTA, Spain)

	<i>Orius</i> predators	
35	Intraguild predation and cannibalism on eggs of native and exotic coccinellids in alfalfa fields, in central Chile	Paola Andrade (Pontificia Universidad Católica de Chile, Chile)
36	Capacity of predation of <i>Cycloneda sanguinea</i> fed on <i>Schizaphis graminum</i> (Hemiptera: Aphididae)	Laís da Conceição dos Santos (Universidade Estadual Paulista, Brazil)
37	Predatory capacity of ground beetles (Coleoptera, Carabidae) captured in agroecosystems in northeast region of São Paulo State, Brazil	Francisco Jorge Cividanes (Universidade Estadual Paulista, Brazil)
38	Diversity of ground beetles (Coleoptera, Carabidae) in forest fragments and soybean/corn crops under two tillage systems	Francisco Jorge Cividanes (Universidade Estadual Paulista, Brazil)
39	Determining ground beetle (Coleoptera: Carabidae) consumption of lowbush blueberry insect pests.	Justin M. Renkema (University of Guelph, Canadá)
40	Impact of plant structural complexity and extraguild prey density on intraguild predation	Jacques Brodeur (Université de Montréal, Canadá)
41	Do parasitized coccinellids contribute to aphid biological control?	Josée Doyon (Université de Montréal, Canadá)
42	Predatory potential of <i>Hippodamia convergens</i> and <i>Harmonia axyridis</i> on <i>Aphis gossypii</i> on okra	Terezinha Monteiro dos Santos Cividanes (Agência Paulista de Tecnologia dos Agronegócios, Brazil)
Sesión 15	Consequences of reduced-impact pesticides for biological control agents and top-down suppression of arthropods in managed landscapes	
43	<i>Diglyphus isaea</i> for leafminer management and compatible alternatives for the management of other pests on Gerbera daisies	Ronald D. Oetting (University of Georgia, USA)
44	Effects of a bifenthrin-treated net on the natural enemies <i>Aphidius colemani</i> and <i>Adalia bipunctata</i> in a cucumber crop in Central Spain. Semi-field experiments.	Elisa Viñuela (Technical University of Madrid – UPM, Spain)
45	Side effects of modern pesticides on adults of the predatory mite <i>Amblyseius swirskii</i> (Acari: Phytoseiidae) under laboratory conditions	Elisa Viñuela (Technical University of Madrid – UPM, Spain)
46	Toxicity of sulfur, mineral oil, abamectin and pyridaben on <i>Neoseiulus californicus</i> (Acari: Phytoseiidae)	Gabriela Lankin-Vega (Universidad de Chile, Chile)
47	Evaluation of neem-based formulations on <i>Harmonia axyridis</i> in okra	Terezinha Monteiro dos Santos Cividanes (Agência Paulista de Tecnologia dos Agronegócios, Brazil)
48	Survival of the parasitoid wasps <i>Cotesia glomerata</i> and <i>Copidosoma</i> sp. to natural products	Geraldo Andrade Carvalho (Federal University of Lavras, Brazil)

49	Selectivity of compounds used in corn crop in Spain on larvae of <i>Chrysoperla carnea</i> (Neuroptera: Chrysopidae)	Geraldo Andrade Carvalho (Federal University of Lavras, Brazil)
50	Inoculative release of a beneficial wasp egg parasitoid, <i>Trichogramma pretiosum</i> (Hymenoptera: Trichogrammatidae) to supplement natural wasp populations for control of <i>Helicoverpa</i> in Northern New South Wales field crops.	Christopher M. Carr (New South Wales Department of Primary Industries, Australia)
Session 16	Pest Management for an Urbanizing World: Arthropod Biological Control in Ornamental Landscapes	
51	Biological control of <i>Protopulvinaria pyriformis</i> (Hemiptera: Coccidae) in urban landscapes. How to overcome its phenology and defenses?	Aleixandre Beltrà (Universitat Politècnica de València, Spain)
52	Effects of <i>Protopulvinaria pyriformis</i> host size on <i>Metaphycus helvolus</i> sex allocation patterns.	Aleixandre Beltrà (Universitat Politècnica de València, Spain)
53	Impacts of urbanization on ground beetle communities	Michael J. Raupp (University of Maryland, USA)
Session 17	Evaluation and practical application of parasitoids and predators of the tomato leaf miner <i>Tuta absoluta</i>	
54	Rapid detection of key endoparasitoids in <i>Tuta absoluta</i> , <i>Symmetrischema tangolias</i> and <i>Phthorimaea operculella</i> using multiplex PCR	Michael Traugott (University of Innsbruck, Austria)
55	Ecotoxicity of insecticides of frequent use in tomatoes on <i>Trichogramma achaeae</i> (Hymenoptera: Trichogrammatidae)	R.M. Santalices (Universidad Politécnica de Madrid, Spain)
Session 18	Compatibility of transgenic insecticidal crops with biological control	
56	Compatibility of transgenic legumes and parasitoids to control bruchids (Coleoptera: Bruchidae)	Jörg Romeis (Agroscope Reckenholz-Tänikon Research Station, Switzerland)
Session 19	Other	
	a) Classical BC in crops & others	
57	Invasive exotic pests in European vineyards: prospects for biological control?	René F.H. Sforza (USDA European Biological Control Laboratory, France)
58	Status of biological control of red imported fire ants with phorid flies in Louisiana	Seth Johnson (LSU AgCenter, USA)
59	Potential of Hymenopteran parasitoids for classical biocontrol of leafminer flies (Diptera: Agromyzidae)	Norma Mujica (International Potato Center, Perú)
	b) Augmentative BC in crops & other	
60	Bio-control efficiency of two aquatic bugs against mosquito larvae <i>Culex quinquefasciatus</i> Say	Rabindra Hazarika (Tezpur affiliated to Gauhati University, India)
61	Impact of releasing egg parasitoid <i>Telenomus</i>	Amin Nikpay (Arak Islamic Azad

	<i>busseolae</i> (Hymenoptera: Scelionidae) for controlling of sugarcane stalk borers <i>Sesamia</i> spp in South West of Iran; a three years of experience	University, Iran)
	c) Conservation BC in crops & Other	
62	Effect of flowering trap crops on insect pests and their natural enemies	Francisco Rubén Badenes-Pérez (Institute of Agricultural Sciences, Spain)
63	Strawberries, alfalfa, and parasitoids: synergy in pest management	Charles H. Pickett (California Dept. of Food & Agriculture, USA)
64	Spontaneous weed strips associated with chili pepper agroecosystems promote the abundance and survival of aphid predators	Madelaine Venzon (Agriculture and Livestock Research Enterprise of Minas Gerais, Brazil)
65	Field boundary effect on the biological control of plant pests	Françoise Lasserre-Joulin (Université de Lorraine – INRA, France)
66	Enhancing bio-control agents of <i>Helicoverpa zea</i> and thrips through incorporating flowering resources in corn- cover crop intercropping systems	Roshan Manandhar (University of Hawaii at Manoa, USA)
67	Potential biological control agent of the desert locust, <i>Schistocerca gregaria</i> : Behavioural characteristics of the predatory beetle <i>Pimelia senegalensis</i> (Coleoptera: Tenebrionidae)	Satoshi Nakamura (Japan International Research Center for Agricultural Sciences, USA)
68	Evaluation of weed control managements on the incidence of coffee-miner <i>Leucoptera coffeella</i> (Lepidoptera: Lyonetiidae) and predatory wasps	Rogério Antônio Silva (Minas Gerais Agricultural Research Institution - EPAMIG Brazil)
69	Conservation of natural enemies a successful example in the field management of african rice gall midge, <i>Orseolia oryzivora</i> (DIPTERA: CECIDOMYIIDAE) in Nigeria	Emmanuel O. Ogah (Ebonyi State University, Nigeria)
	d) Miscellaneous	
70	Why don't biological agents mitigate the global threat of red palm weevil, <i>Rhynchophorus ferrugineus</i> ?	Aziz Ajlan (King Faisal University, Saudi Arabia)
71	Structure of tortricid-parasitoid community in blueberry crop of Buenos Aires, Argentina	Nancy Greco (Centro de Estudios Parasitológicos y de Vectores, Argentina)
72	Molecular Characterization of Parasitoids associated to new described mealybug species in Chile	Margarita Correa (Pontificia Universidad Católica de Chile, Chile)
73	Natural enemy of powdery mildew in Japan: potentials and problems	Yohsuke Tagami (Shizuoka University, Japan)
74	Complementary biological control strategies:	Birgitta Rämert (Swedish

	parasitoids, predators and entomopathogenic fungi against the Cabbage root fly, <i>Delia radicum</i>	University of Agricultural Sciences, Sweden)
75	Assessment of pathogenic fungi of the Red Palm Mite, <i>Raoiella indica</i> , in the Caribbean	Yelitza Colmenarez (CAB International)
76	Control of diapausing larvae of <i>Cydia pomonella</i> in field using two new species of entomopathogenic nematodes	Luis Devotto (INIA, Chile)
77	Apple Sawfly, <i>Hoplocampa testudinea</i> , entomopathogenic fungi, <i>Beauveria bassiana</i> , <i>Metarhizium</i> , participatory research, biological control	Weronika Swiergiel (Swedish University of Agricultural Sciences, Sweden)
78	Management of white grubs in California blueberries using entomopathogenic nematodes	David R. Haviland (University of California Cooperative Extension, USA)
79	Acaricidal activities of essential oils against <i>Oligonychus afrasiaticus</i> , an important pest of date palm	Ahmed M. AlJabr (King Faisal University, The Kingdom of Saudi Arabia)
80	Entomopathogenic nematodes as potential biocontrol agents for major potato pests	Norma Mujica (International Potato Center, Perú)
81	Parasitoidism rate and life table parameters of <i>Aphytis diaspidis</i> (Hymenoptera: Aphelinidae) and <i>Hemiberlesia lataniae</i> (Hemiptera: Diaspididae)	Paulina Bermúdez (INIA, Chile)
82	Role of microbial control in strawberry and vegetable pest management in coastal California	Surendra Dara (University of California Cooperative Extension, USA)
83	Food plants of host caterpillars affect development of the parasitoid fly <i>Compsilura concinnata</i> (Diptera: Tachinidae)	Satoshi Nakamura (Japan International Research Center for Agricultural Sciences, Japan)
84	Evaluation of biological control strategies of <i>Delia platura</i> , under laboratory conditions	Luis Alejandro Arias R. (Universidad Jorge Tadeo Lozano, Colombia)
85	Assessment of entomopathogens for biological control of <i>Tuta absoluta</i> in Tomato (<i>Solanum lycopersicum</i> L.)	Luis Alejandro Arias R. (Universidad Jorge Tadeo Lozano, Colombia)
86	Entomopathogenic fungi infecting forest pests in Brazil	Pereira, Rozimar de Campos (Universidade Federal do Recôncavo da Bahia, Brazil)
87	Biology of african rice gall midge (<i>Orseolia oryzivora</i>) and parasitism by <i>Platygaster diplosisae</i> in Nigeria	Emmanuel O. Ogah (Ebony State University, Nigeria)
88	Feasibility of SIT to control <i>Rhynchophorus ferrugineus</i> (Col.: Curculionidae): an integrated physiological, ethological and genetic approach	Massimo Cristofaro (ENEA C. R. Casaccia, Italy)