



Programme

12th meeting of the IOBC Working Group “Pesticides and Beneficial Organisms”

Zadar, Croatia, Hotel Kolovare, September 30, 2018 - October 4, 2018

All lectures are to be held at the Hotel Kolovare, *Conference room 2*

All posters are to be displayed at the Hotel Kolovare, *Conference room 3*

Coffee breaks will be served at the Hotel Kolovare, *Conference room 3*

Welcome reception (included) will be held at the Hotel Kolovare

Lunches (included) will be served at the restaurant of the Hotel Kolovare

Excursion on Wednesday, departure at 9⁰⁰ a.m. from the entrance hall of the Hotel Kolovare

Sunday, September 30	Arrival and registration from 16 ⁰⁰ to 19 ⁰⁰
Monday, October 1st	Arrival and registration, opening session, plenary talk, lunch, welcome reception
8 ⁰⁰	Registration
9 ⁰⁰ -9 ³⁰	Welcome by WG Convenor, Local organizer and Liaison-Officer Opening session with the pro-rector of the University of Zadar, Croatia, and the dean of the Faculty of Agriculture, Zagreb, Croatia
9 ³⁰ -10 ³⁰	Welcome reception (<i>sponsored by Colić</i>) on terrace of the Hotel Kolovare (depending on weather) Group IOBC photo with all delegates and officials
10 ³⁰ -11 ³⁰	Databases Registration, IPM and Beneficial arthropods other than bees: Do we assess the right species? An analysis from the IOBC database <u>Jean Pierre Jansen</u>
11 ³⁰ -13 ⁰⁰	Risk assessment from lab to field Semi-field method to evaluate effects of fresh and aged pesticide residues on adults of the tinny Hymenoptera <i>Encarsia Formosa</i> (Gahan) Antonio Magaña, Beatriz Dáder, Ángeles Adán, Pedro Del Estal, Flor Budia, Ignacio Morales, <u>Elisa Viñuela</u> , Pilar Medina Application of molecular methods in trophic ecology of useful predators within Mediterranean agriculture <u>Barbara Anđelić</u> ¹ , Lucija Šerić Jelaska ¹ , Tomislav Kos ² , Mišel Jelić ¹ , Kristijan Franin ² Pesticide compatibility in commercial pepper and tomato greenhouses when natural enemies are introduced in the nurseries <u>Beatriz Dáder</u> ¹ , <u>Elisa Viñuela</u> ¹ , Ignacio Colomer ² , Pilar Medina ¹
13 ⁰⁰ -14 ³⁰	Lunch
14 ³⁰ -15 ³⁰	Mixtures of pesticides Long-term impact of plant protection product mixtures on earthworms in agricultural fields <u>Thomas Schmidt</u> ¹ , Helena Viric Gasparic ² , Stefan Kimmel ¹ , Stefan Hoeger ¹ , Renata Bazok ²



	Revealing an agrochemical synergy and its effect on a biocontrol insect <u>Jonathan Willow</u> ^{1,2} , Ana Silva ³ , Eve Veromann ² , Guy Smagghe ¹
15 ³⁰ -16 ³⁰	Posters + coffee break
16 ³⁰ -17 ³⁰	<i>Natural enemies and pollinators</i> <i>Pesticides and IPM for biocontrol and pollination service in fruit orchard</i> Effect of exclusion nets on spider diversity and composition in IPM apple orchard <u>Božena Barić</u> ¹ , Ferenc Samu ^{2,4} , Tomislav Kos ³ , Darija Lemić ¹ , Miklós Toth ² , Ivana Pajač Živković ¹ Analysis of pesticide residues in solitary bee-collected pollen in Belgian fruit orchards <u>Gregor Claus</u> , Michael Houbraeken, Maxime Eraerts, Matti Pisman, Guy Smagghe, Pieter Spanoghe
Tuesday, October 2nd	Sessions, poster sessions, lunch
9 ⁰⁰ -10 ³⁰	<i>Novel technologies, e.g. RNAi-based biopesticides</i> <i>GMOs effects on beneficial fauna</i> Literature review of baseline information on RNAi that could support the environmental risk assessment of RNAi-based GM plants Olivier Christiaens ¹ , Teodora Dzhambazova ² , Kaloyan Kostov ² , Salvatore Arpaia ³ , Mallikarjuna Reddy Joga ¹ , Isabella Urru ³ , <u>Jeremy Sweet</u> ⁴ , Guy Smagghe ¹
10 ³⁰ -11 ⁰⁰	Posters + coffee break (sponsored by Syngenta)
11 ⁰⁰ -13 ⁰⁰	Bioinformatic pipeline to design gene-specific and biosafe dsRNA. What do we have for non-target organisms? <u>Olivier Christiaens</u> , Nji Tizi Clauvis Taning, Guy Smagghe <i>Risk assessment in different regions, West-East, North-South</i> Effect of <i>Eucalyptus globulus</i> Labill., (Myrtaceae) essential oil on non-targeted aphidophagous species in a citrus area of the central Mitidja plain (Blidean Atlas, Algeria) <u>Leïla Allal Benfekih</u> , Amina Smaïl ² , Faïza Marniche ³ Toxicity of insecticides to <i>Macrolophus basicornis</i> (Hemiptera: Miridae), a promising predator of the South American tomato borer <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae) Andrea C. Wanumen ¹ , Angeles Ádan ¹ , Luis C. Passos ² , Marianne A. Soares ² , Fermín Amor ¹ , <u>Geraldo A. Carvalho</u> ² Acute toxicity of citrus acaricides to the armored scale predator <i>Rhyzobius lophanthae</i> <u>Roy Kaspi</u> , Reut Madar Effect of imidacloprid and emamectin benzoate on <i>Neoscona theisi</i> (Araneae: Araneidae): An implication for integrated pest management in Pakistan <u>Abida Butt</u> , Nadira Kausar, Sumera Akram
13 ⁰⁰ -14 ³⁰	Lunch



14 ³⁰ -15 ³⁰	<p>Microbial products</p> <p>The anti-fungal mechanism of glycolipids from <i>Dacryopinax spathularia</i> and its potential application in chili anthracnose disease control Kannawat Danwisetkanjana, Kamolphan Intereya, Sumalee Supothina, Patchanee Auncharoen, Wiwat Somyong, Somjit Komwijit and <u>Vanicha Vichai</u></p> <p>Influence of microbiota in the susceptibility of parasitic wasps to abamectin insecticide: deep sequencing, esterase and toxicity tests M del Mar Fernández^a, Ivan Meeus^b, Annelies Billiet^b, Filip Van Nieuwerburgh^c, Dieter Deforce^c, Peter Vandamme^d, <u>Elisa Viñuela^a</u> and <u>Guy Smagghe^b</u></p>
15 ³⁰ -16 ⁰⁰	Posters + coffee break (sponsored by BASF)
16 ⁰⁰ -17 ³⁰	Posters + flash of 1 minute per poster presenter
Wednesday, October 3rd	Excursion and Gala dinner
9 ⁰⁰ -23 ⁰⁰	<p>Departure from the Hotel at 9⁰⁰. Organized visit of the Nacional Park Krka, farm Polača and Gala dinner at Kraljevski vinogradi</p> <p>Expected time of return is approx. 23⁰⁰ at the Hotel Kolovare</p>
Thursday, October 4th	Sessions, student awards, conclusions, lunch, departure
9 ³⁰ -10 ³⁰	<p>Microbial products</p> <p>Risk assessment for microbial products: not the same as a chemical tbc</p>
10 ³⁰ -11 ⁰⁰	Posters + coffee break
11 ⁰⁰ -12 ⁰⁰	<p>Biocontrol in practice: lessons in vectoring of BCOs and pathogens?</p> <p>Potential vectors of bacterium <i>Xylella fastidiosa</i> in olive growing area of Croatia <u>Ivana Jakovljević</u></p> <p>Biocontrol organisms against fire blight (<i>Erwinia amylovora</i>) in pear flowers: population dynamics and effect on infection <u>Bart Vanhoutte¹</u>, <u>Cinzia Van Malderghem²</u>, <u>Bart Cottyn²</u>, <u>Hilde Schoofs¹</u>, <u>Martine Maes²</u>, <u>Dany Bylemans^{1,3}</u>, <u>Serge Remy¹</u></p>
12 ⁰⁰ -13 ⁰⁰	<p>Student awards</p> <p>Round table with all WG participants, H2020, ICE2020 Organization of the new meeting</p>
13 ⁰⁰ -14 ³⁰	Lunch
14 ³⁰	Departure or free time/optional visit to University
Friday, October 5th	Departure



List of posters:

P1

Fluctuating asymmetry of shape as a bio-indicator tool to detect levels of disturbance between agricultural productions.

Hugo A. Benitez^{1,2}, Darija Lemic³, Thomas A. Püschel⁴, Helena Virić Gašparić³, Tomislav Kos⁵, Božena Barić³, Renata Bažok³, Ivana Pajač Živković³

P2

Helicoverpa armigera (Hüb.) feeding preference for crop and weed plants.

Maja Čačija, Anita Štivičić, Helena Virić Gašparić, Ivana Pajač Živković, Darija Lemić

P3

Risk assessment of microbial preparations on beneficial insects (*Bombus terrestris*).

Ruben Vanderhaegen¹, Matti Pisman¹, Ivan Meeus¹, Tim Belien², Guy Smaghe¹

P4

Risk assessment of dimethoate in solitary bees. Experimental set-up and what do we learn for pollinators in general?

Gregor Claus, Jarne Depaepe, Lieven Vanhaecke, Ward Vannevel, Arthur Vienne, Maxime Eeraerts, Pieter Spanoghe, Guy Smaghe

P5

Assessing the safety of a dsRNA targeting the Colorado potato beetle, to the predator *Chrysoperla carnea*.

Salvatore Arpaia¹, Olivier Christiaens², Isabella Urru¹, Guy Smaghe²

P6

Sublethal effects of two reduced-risk insecticides on the predatory mite *Neoseiulus fallacis* (Garman) (Acari: Phytoseiidae).

Daniel Cormier¹, Francine Pelletier¹, Abir Hafsi²

P7

Fauna of beneficial arthropods in different managed vineyards of Zadar County (Croatia).

Kristijan Franin¹, Domagoj Grancarić Milin², Gabrijela Kuštera³, Tomislav Kos¹, Lucija Šerić Jelaska⁴, Božena Barić⁵

P8

Ants and agriculture: a preliminary study of the ant community on annual and perennial crops.

Ana Ješovnik^{1,2,3}, Ivona Blažević⁴, Darija Lemić⁴, Ivana Pajač Živković⁴

P9

The efficiency of azadirachtin and organic fertilizer as environmentally friendly products in pest control.

Martina Mrganić, Tea Arvaj, Renata Bažok, Maja Čačija

P10

MEDITERATRI project (Croatian Science Foundation) - understanding the effect of pesticide on non-target invertebrates through trophic interactions in Mediterranean Agriculture.



Lucija Šerić Jelaska¹, Tomislav Kos², Mišel Jelić¹, Barbara Anđelić¹, Vedran Bahun¹,
Kristijan Franin²

P11

Toxicity assessment of the selected insecticidal products on Asian ladybeetle (*Harmonia axyridis*, Pallas 1773).

Jana Ourednickova and Michal Skalsky

P12

Pesticide residues in carabid beetles.

Helena Viric Gasparic, Zrinka Drmic, Maja Cacija, Renata Bazok, Darija Lemic

P13

Assessment of survival, reproduction and foraging behavior in bumblebees (*Bombus terrestris*) by exposure to benzethonium chloride, a non-peptidyl agonist of myosuppressin.

Kevin Maebe, Guy Smagghe

P14

Laboratory assessment with bumblebees (*Bombus terrestris*) supports no sublethal effect of sulfoxaflor on foraging behaviour.

Kevin Maebe, Adinda Vanommeslaeghe, Guy Smagghe

P15

Introduction to the iPLANTA COST action and RNAi research and development in relation to crop protection.

Jeremy Sweet¹, Bruno Mezzetti²

P16

Toxicity of insecticides used in cotton crop to adults of *Trichogramma pretiosum* Riley, 1879 (Hymenoptera: Trichogrammatidae) through different routes of exposure

Luciano B. Moreira¹, Mariana Abreu Costa¹, Geraldo A. Carvalho²

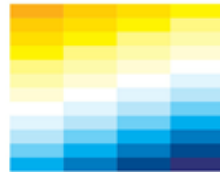
P17

Effect of insecticides on *Doru luteipes* (Scudder) (Dermaptera: Forficulidae) walking behavior

Luciano B. Moreira¹, Jander R. Souza¹, Geraldo A. Carvalho²



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