"Integrated Control of Plant Feeding Mites"
WG Activity report
Belgrade 2019

Convenor: George Broufas
Deputy Convenor: Rostislav Zemek
Liaison Officer: Eric Palevsky
"Integrated Control of Plant Feeding Mites" WG Activity report
IOBC/WPRS Council-Convenor meeting, Belgrade November 29- December 1, 2019
Participants in WG meetings

- 2007: Jerusalem
- 2009: Firenze
- 2011: Český Krumlov
- 2013: Paphos
- 2015: Castelló de la Plana
- 2017: Chania
- 2019: Vienna

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WG "Integrated Control of Plant Feeding Mites"

Participants in WG meetings

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- 2013 Paphos
- 2015 Castelló de la Plana
- 2017 Chania
- 2019 Vienna

~ 52 participants

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Participants in WG meetings

- **77.3%** IOBC members
- **23.7%** non-IOBC members

2013 - 2019

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Number of presented papers

Posters
Orals

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Number of presented papers

- Posters
- Orals

Overall

~ 38

Posters

~ 9

Orals

~ 29

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WG "Integrated Control of Plant Feeding Mites"
Countries attending for the first time in 2019: Lebanon, Russia, Slovenia
7th IOBC WPRS WG meeting for Integrated Control of Plant-Feeding Mites

2019 (16-19 /09/2019) : BOKU, Vienna, Austria
7th IOBC WPRS WG meeting for Integrated Control of Plant-Feeding Mites

2019 (16-19/09/2019): BOKU, Vienna, Austria

Local organizers:
Andreas Walzer
Carina Doppler
Helmut Hueber
Lina Weissengruber

Scientific committee:
Andreas Walzer
Dominiek Vangansbeke
Eric Palevsky
George Broufas
Markus Knapp
Rostislav Zemek
Sauro Simoni
7th IOBC WPRS WG meeting for Integrated Control of Plant-Feeding Mites

2019 (16-19/09/2019) : BOKU, Vienna, Austria

Attendance:
- number of participants: 58 (WG Aver. ~52)
- number of IOBC members: 44 (75.9%) (WG Aver. ~86%)
- countries represented: 23 (WG Aver. ~17)

Countries attending for the first time: Lebanon, Russia, Slovenia

Scientific activities:
- number of oral presentations: 34 (WG Aver. ~29)
- number of posters: 7 (WG Aver. ~12)
**Keynote Speakers**

- **Merijn R. Kant** (Josephine H. Blaazer)  
  *Department of Evolutionary and Population Biology, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, THE NETHERLANDS*  
  “Circumventing host manipulation by spider mites as a crop protection strategy”

- **Gösta Nachman**  
  *Department of Biology, University of Copenhagen, DENMARK*  
  “The role of dispersal in acarine predator-prey interactions: Experiments and model Simulations”

- **Ralph Menzel**  
  *Humboldt-Universität zu Berlin, Ecology, Berlin, GERMANY*  
  “Dietary routing of long-chain polyunsaturated fatty acids in soil food webs and the importance of de novo synthesis by free-living nematodes and predatory mites”
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Topics

- SPIDER MITE CONTROL
- ABOVEGROUND – BELOWGROUND INTERACTIONS
- GALL MITES
- CLIMATE EFFECTS ON MITES
- BEHAVIOR AND ECOLOGY OF MITES
- MITE DIVERSITY IN EUROPE
Topics

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- Combined use of overhead UVB lamps and light reflection sheets (LRSs) with phytoseiids improved preventative control of *Tetranychus urticae* in greenhouse strawberry

- The use of pollen as supplementary food source to support preventive biological control of *Tetranychus urticae*
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**Topics**

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- Free-living nematodes (FLNs) as alternative food sources for soil predatory mites and their possible role in enhancing the efficiency of these biological control agents
- Use of beneficial soil microbes and their interactions with the host plant as a tool in integrated control of plant feeding mites
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**Topics**

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- Role of alternative food sources in enhancing phytoseiids (*Transeius montdorensis*) and tydeid (*Homeopronematus anconai* and *Pronematus ubiquitous*) abundance on tomato plants as well as their efficiency in preventive biological control of the mite pest *Aculops lycopersici*
Student awards and travel support

- Two student travel grants (300 €/student) sponsored by Koppert
  1. Sophie Le Hesran
     ‘Maternal effect as a response to drought in the predatory mite Phytoseiulus persimilis’
  2. Charikleia Kyriakaki
     ‘Plant-mediated effects of commercial beneficial microbes against herbivorous mites’

- Three student awards for the best oral presentations sponsored by Biohelp
  (1st, 2nd and 3rd prizes of 700€, 500€ and 300€)
  1. Sophie Le Hesran
     ‘Maternal effect as a response to drought in the predatory mite Phytoseiulus persimilis’
  2. Josephine H. Blaazer
     ‘Circumventing host manipulation by spider mites as a crop protection strategy’
  3. Theresa Steiner
     ‘Heat stress effects on egg number and size of the spider mite biocontrol agents Phytoseiulus persimilis and Neoseiulus womersleyi’.
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Publication of Proceedings

Expected date of submission: 30 January 2020

Future

- Increase the number of participants
- Support more students to attend the meetings (increase travel grants to 500 €/student)
- Next meeting ...
8th IOBC WPRS WG meeting for Integrated Control of Plant-Feeding Mites

Next meeting
The next meeting of the WG will be organized by Dejan Marčić in Belgrade, Serbia in September, 2021.

Institute of Pesticides and Environmental Protection
Department of Entomology
Belgrade Serbia