
European PhD Network "Insect Science" - XI Annual Meeting

30 November – 4 December 2020

PROGRAMME

Monday 30 November 2020

14:25 **Welcome address**

Senior scientist lecture

14:30 Eric Conti – University of Perugia

Sustainable management of invasive species: an evaluation using herbivorous Pentatomidae as models

Oral Presentations

15:00 **R** Tugcan Alinc – University of Palermo

The impact of *Trichoderma harzianum* strain T22 on tomato plant defenses in response to stink bugs feeding

15:20 **R** Annalisa Andreani – University of Firenze

Evolutionary adaptations in hippoboscids flies, parasites of different hosts

15:40 **S** Mokhtar Abdulsattar Arif – University of Palermo

The chemical ecology of host gender discrimination in the samurai wasp *Trissolcus japonicus* Ashmed

15:45 **R** Sabina Avosani – University of Trento

Use of vibrations to study and manipulate the behaviour of the meadow spittlebug *Philaenus spumarius*

16:05 **R** Eleonora Barra – University of Napoli

Induced immunosuppression as a strategy to enhance insect biocontrol

16:25 **Break**

16:55 **R** Andrea Becchimanzi – University of Napoli

A salivary chitinase of *Varroa destructor* influences honey bee immunity and mite's survival

17:15 **S** Alessio Bellini – University of Torino

A compost treatment confers suppressiveness in *Phytophthora capsici* – *Cucurbita pepo* pathosystem modifying the rhizosphere microbiota

17:20 **S** Zineb Bennani – Institute of Bari

Side effect of new pesticides on natural enemies in organic citrus: a case study

17:25 **R** Matteo Brunetti – University of Milano

The microbiota of Chrysomelidae: composition, typical symbioses and patterns of diversity

17:45 **R** Andree Cappellari – University of Padova

Contrasting effects of exotic plant invasions and managed honeybees on plant–flower visitor interactions

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[Link](#)

R Regular Presentation (20 min, discussion included) **S** Short Presentation (5 min, discussion included)

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Tuesday 1 December 2020

Senior scientist lecture

- 14:30 Antonino Cusumano – University of Palermo
Influence of parasitoid-associated viral symbionts on plant-insect interactions

Oral Presentations

- 15:00 **S** Elena Chierici – University of Perugia
Development and application of a PCR-based analysis of carabid beetle gut-contents reveal seasonal weed predation in wheat field
- 15:05 **S** Alex Cussigh – University of Bologna
Molecular systematics and phylogenetics of the Australian stick insect genus *Candovia* Stål, 1875 (Phasmida, Necrosciinae)
- 15:10 **R** Priscilla Farina – University of Pisa
Bioactivity of the Andean aromatic plants *Aloysia citrodora* and *Bursera graveolens* essential oils against the blowfly *Calliphora vomitoria*
- 15:30 **R** Elena Eustacchio – University of Milano
Plants and flower-visiting arthropods in mountain ecosystems: the case study of the alpine species *Androsace brevis* (Primulaceae)
- 15:50 **S** Alessio Minici – University of Milano
Who are my guests? Investigating the arthropod activity on high-altitude flowers by video observations, the example of *Androsace brevis* (Primulaceae)
- 15:55 **S** Elissa Daher – University of Perugia
Laboratory and field evaluation of new commercial products against *Bactrocera oleae*
- 16:00 **Break**
- 16:45 **S** Valeria Fattoruso – University of Trento
Effectiveness of mineral oil alternatives and vibrational disturbance against *Trialeurodes vaporariorum* (Westwood) (Hemiptera: Aleyrodidae)
- 16:50 **R** Giobbe Forni – University of Bologna
Macroevolutionary analyses provide new evidences of phasmids wings evolution as a reversible process
- 17:10 **S** Antonio Franco – University of Basilicata
Innovative processes for lipid extraction from bioconverter insects, qualitative and quantitative evaluation and industrial applications for the formulation of personal care products
- 17:15 **R** Costanza Geppert – University of Padova
Contrasting response of native and non-native plants to disturbance and herbivory in mountain environments

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- 17:35 **R** Lorenzo Goglia – University of Molise
Lepidoptera Tortricidae: zoogeography of the Matese Massif and Gargano Peninsula (Central-South Italy)
- 17:55 **S** Antonio Gugliuzzo – University of Catania
Antagonistic and mycoparasitic microorganisms as potential tools for controlling the invasive ambrosia beetle *Xylosandrus compactus*

Wednesday 2 December 2020

Senior scientist lecture

- 14:30 Elena Gonella – University of Torino
Microbial symbioses in Hemiptera, a cutting-edge target for pest control

Oral Presentations

- 15:00 **S** Claire Hoarau – Harper Adams University
The use of entomopathogenic nematodes to control the cabbage stem flea beetle (*Psylliodes chrysocephala*)
- 15:05 **S** Badr-eddine Jabri – Institute of Bari
Development of smart detection tools for some honey bee pathogens and preliminary survey on the sanitary status of honey bees in Morocco
- 15:10 **R** Giovanni Jesu – University of Napoli
Effects of Smoke Waters on *Bactroera oleae*
- 15:30 **S** Ilaria Laterza – University of Bari
Pentatomoidea (Hemiptera: Heteroptera) of "Alta Murgia" National Park, Southern Italy
- 15:35 **R** Serena Malabusini – University of Milano
Inter- and intra-specific competition in Bethyloid wasps
- 15:55 **R** Marco Malfacini – University of Bologna
Development of sexing systems functional to mass production of *Aedes albopictus* Skuse sterile males
- 16:15 **R** Matteo Marchioro – University of Padova
Improving longhorn and jewel beetles trapping protocols for maximizing bark and ambrosia beetle (Coleoptera: Curculionidae, Scolytinae) catches
- 16:35 **Break**
- 17:05 **S** Alessandro Mariani – University of Perugia
Effect of soil microplastics on the behaviour of fungus gnats (Diptera: Sciaridae)
- 17:10 **S** Jacopo Martelossi – University of Bologna
Uncertainty in molecular phylogeny and incongruence of morphological taxonomy

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throughout the systematics of four Euphasmatodea families

- 17:15 **S** [Ilaria Martino](#) – University of Torino
Stem blight and dieback of blueberry in Northern Italy
- 17:20 **R** [Cátia Martins](#) – University of Bologna
Impacts of pesticides on non-*Apis* pollinators
- 17:40 **R** [Rihem Moujahed](#) – University of Palermo
How to escape an evolutionary trap: fitness-related effects and behavioral responses of the egg parasitoid *Trissolcus basalis* developing on *Halyomorpha halys*

Thursday 3 December 2020

Senior scientist lecture

- 14:30 [Lorenzo Marini](#) – University of Padova
Species-habitat networks: a promising tool in applied entomology

Oral Presentations

- 15:00 **S** [Alberto Mele](#) – University of Padova
Riparian vegetation influences *Halyomorpha halys* egg parasitoids impact in kiwifruit orchards
- 15:05 **S** [Antonio Moretta](#) – University of Basilicata
Characterization of antimicrobial peptides deriving from insects and their application in the biomedical field
- 15:10 **S** [Francesca Napoli](#) – University of Perugia
Sub-lethal effects of industrial crops on honeybee behavior
- 15:15 **R** [Davide Nardi](#) – University of Padova
Arthropods response to forest landscape dynamics
- 15:35 **S** [Bianca Orrù](#) – University of Torino
Symbiotic control of the brown marmorated stink bug *Halyomorpha halys*
- 15:40 **S** [Giacomo Ortis](#) – University of Padova
Effect of temperatures on embryonic development of the forest pest *Barbitistes vicetinus* (Orthoptera, Tettigoniidae)
- 15:45 **R** [Marta Panella](#) – University of Milano
Effects of the plant beneficial microorganism *Trichoderma harzianum* on the microbiota of *Spodoptera littoralis* larvae
- 16:05 **R** [Martina Parrilli](#) – University of Bologna
Use of sugar dispensers to disrupt ant attendance and improve biological control against Pseudococcidae mealybugs in vineyard

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- 16:25 **S** Onofrio Marco Pistillo – University of Foggia
Chemical and electrophysiological investigations on the sex pheromone of the asparagus moth, *Parahyopta caestrum*
- 16:30 **Break**
- 17:00 **S** Sofía Victoria Prieto – University of Torino
Study of the gut microbiota in the green stink bug *Nezara viridula* for symbiont-targeted biological control
- 17:05 **S** Jovana Raičević – University of Belgrade
Structure of the bee-plant visitation network in the gradient of landscape complexity
- 17:10 **R** Michele Ricupero – University of Catania
Parasitism and phylogeny of *Dinocampus coccinellae* through native and exotic hosts in different continents
- 17:30 **S** Valeria Rossi – University of Perugia
Odorant receptor expression-related modulation in behavior during larval development in African cotton leaf worm, *Spodoptera littoralis*
- 17:35 **S** Elia Russo – University of Napoli
***In vivo* functional analysis of *Aphidus ervi* venom**
- 17:40 **R** Enrico Ruzzier – University of Padova
Jewels on the go: exotic buprestid around the world (Coleoptera: Buprestidae)

Friday 4 December 2020

Senior scientist lecture

- 14:30 Lucia Zappalà – University of Catania
Interactions among plants, essential oils and the omnivorous mirid *Nesidiocoris tenuis*

Oral Presentations

- 15:00 **S** Valerio Saitta – University of Perugia
Mechanical ecology in plant-herbivore interaction: role of insect claws of different shape in the attachment to hairy plant surfaces
- 15:05 **R** Giacomo Santoemma – University of Padova
Chemical control of *Popillia japonica* in the management of invasive populations in northern Italy
- 15:25 **R** Davide Scaccini – University of Padova
Egg parasitoids complex of *Halyomorpha halys* (Stål) in Veneto with particular emphasis on adventive populations of Asian species
- 15:45 **S** Carmen Scieuzo – University of Basilicata

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Use of organic by-products from the agri-food chain to obtain valuable products through bioconversion process

- 15:50 **R** Milos Sevarika – University of Perugia
First evidence of a female-produced pheromone in *Phlaenus spumarius*
- 16:10 **R** Chloe Start – University of Newcastle
RNAi mediated knockdown of essential Central Nervous System genes in two Lepidopteran pest insects
- 16:30 **Break**
- 17:00 **S** Elena Tafi – University of Basilicata
Use of the Black soldier fly (*Hermetia illucens* L.) as an alternative source of chitin and chitosan for the production of biopolymeric films for agro-food applications
- 17:05 **R** Simona Tortorici – University of Catania
Herbivore induced VOCs, secondary metabolites and enzymatic activity in *Solanum* spp.
- 17:25 **S** Micaela Triunfo – University of Basilicata
The black soldier fly *Hermetia illucens*: an innovative and alternative source of chitin and chitosan
- 17:30 **R** Mizuki Uemura – University of Padova
Locomotion of social caterpillars is influenced by polarised light, detected by a single pair of stemmata
- 17:50 **S** Gennaro Volpe – University of Napoli
RNAi silencing of an immune gene disrupts the embryonic development of *Spodoptera littoralis*
- 17:55 **Discussion on PhD education and future careers**
- 18:00 **Meeting closure**

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