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## 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**

**Chair: Enrico Ruzzier** – University of Padova

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**

**Chair: Mizuki Uemura** – University of Padova

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 mycobiota**

17:20 **S** Zineb Bennani – CIHEAM-IAMB 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

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

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

**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

**Chair: Milos Sevarika** – University of Perugia

15:00 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 Alex Cussigh – University of Bologna

**Molecular systematics and phylogenetics of the Australian stick insect genus *Candovia* Stål, 1875 (Phasmida, Necrosciinae)**

15:10 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 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 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 Elissa Daher – University of Perugia

**Laboratory and field evaluation of new commercial products against *Bactrocera oleae***

16:00 **Break**

**Chair: Michele Ricupero** – University of Catania

16:45 Valeria Fattoruso – University of Trento

**Effectiveness of mineral oil alternatives and vibrational disturbance against *Trialeurodes vaporariorum* (Westwood) (Hemiptera: Aleyrodidae)**

16:50 Giobbe Forni – University of Bologna

**Macroevolutionary analyses provide new evidences of phasmids wings evolution as a reversible process**

17:10 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**

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### products

- 17:15 **R** [Mizuki Uemura](#) – University of Padova  
**Locomotion of social caterpillars is influenced by polarised light, detected by a single pair of stemmata**
- 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

**Chair: [Antonio Gugliuzzo](#)** – University of Catania

- 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](#) – CIHEAM-IAMB 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 *Bactrocera 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** [Davide Scaccini](#) – University of Padova  
**Egg parasitoids complex of *Halyomorpha halys* (Stål) in Veneto with particular emphasis on adventive populations of Asian species**

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16:35 **Break**

**Chair: Giovanni Jesu** – University of Napoli

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 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

**Chair: Cátia Martins** – University of Bologna

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

**Arthropod 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***

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### (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**
- 16:25 **S** [Onofrio Marco Pistillo](#) – University of Foggia  
**Chemical and electrophysiological investigations on the sex pheromone of the asparagus moth, *Parahypopta caestrum***
- 16:30 **Break**
- Chair: [Andrea Becchimani](#)** – University of Napoli
- 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

**Chair: [Sofía Victoria Prieto](#)** – University of Torino

- 15:00 **S** [Valerio Saitta](#) – University of Perugia

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### Mechanical ecology in plant-herbivore interaction: role of insect claws of different shape in the attachment to hairy plant surfaces

15:05 **R** [Giacomo Sautoiemma](#) – University of Padova

**Chemical control of *Popillia japonica* in the management of invasive populations in northern Italy**

15:25 **R** [Matteo Marchioro](#) – University of Padova

**Improving longhorn and jewel beetles trapping protocols for maximizing bark and ambrosia beetle (Coleoptera: Curculionidae, Scolytinae) catches**

15:45 **S** [Carmen Scieuzo](#) – University of Basilicata

**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 *Philaenus 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**

**Chair: [Michele Ricupero](#)** – University of Catania

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** [Costanza Geppert](#) – University of Padova

**Contrasting response of native and non-native plants to disturbance and herbivory in mountain environments**

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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