
European PhD Network "Insect Science" - XII Annual Meeting

17 - 19 November 2021

PROGRAMME

Wednesday 17 November 2021

14:00 **Registration**

15:00 **Welcome address**

Senior scientist lecture

15:10 Christopher John Topping – Aarhus University

ALMaSS use to support a 'Systems Approach' to Environmental Risk Assessment

Oral Presentations

Chair:

15:40 **R** Tugcan Alinc – University of Palermo

***Trichoderma harzianum* strain T22 increases egg parasitoids attraction toward tomato plants infested by stink bugs**

15:55 **S** Andrea Arpellino – University of Turin

Investigations on the vine-feeding species complex: insect-microorganism interactions and their implications for vineyard management

16:00 **R** Daniele Bruno – University of Insubria

Characterization of the immune response of *Hermetia illucens* larvae to bacteria

16:15 **Break**

Chair:

16:45 **R** Valentina Candian – University of Turin

Impact of the diet on the expression of antimicrobial peptide genes in *Tenebrio molitor* (Coleoptera: Tenebrionidae)

17:00 **R** Andree Cappellari – University of Padua

Functional traits of plants and pollinators explain resource overlap between honeybees and wild pollinators

17:15 **S** Paul Clemencon – CNRS / University of Tours

The couple *Nemobius sylvestris*/*Pardosa sp.*: a model for analysing predator-prey interactions and their neural bases?

17:20 **S** Sara D'Arco – University of Modena and Reggio Emilia

Parasitization efficiency in relation to the female age for the pupal parasitoids of *Musca domestica*

17:25 **S** Giovanna De Leva – University of Naples

Impact of stress agents on honeybee gut microbiota and immunity

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R Regular Presentation (15 min, discussion included) **S** Short Presentation (5 min, discussion included)

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- 17:30 **S** Gwenaëlle Deconninck – CNRS/University of Tours
Thermal preference plasticity and fitness of an invasive polyphagous insect in heterogeneous environments
- 17:35 **S** Sara Boschi – University of Siena
***Popillia japonica* transcriptome analysis**
- 17:40 **S** Rebecca Funari – University of Siena
Analyses by conventional microbial methods and metagenomic approach of an enrichment culture obtained from plastic-eating *Alphitobius diaperinus* (Insecta: Coleoptera)
- 17:45 **S** Marta Ranesi – University of Naples
***Beauveria bassiana* outcompete the growth of a plant pathogen via oxalic acid excretion.**
- 17:50 **S** Onofrio Marco Pistillo – University of Foggia
Sex pheromone of the asparagus moth, *Parahypopta caestrum*: chemical analysis, electrophysiological study and preliminary field tests

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Thursdays 18 November 2021

Senior scientist lecture

- 09:00 Francesco Nazzi – University of Udine
Some little things about research that I've learnt in the past thirty years

Oral Presentations

Chair:

- 09:30 **R** Mizuki Uemura – University of Padua
Division of labour and altruism in tent construction and maintenance in a social caterpillar (*Thaumetopoea pityocampa*)
- 09:45 **R** Martin Dessart – CNRS / University of Tours
The secret of my success! Visual learning abilities in mosquito larvae (*Aedes aegypti*) are not impaired neither by light deprivation nor by turbidity.
- 10:00 **S** Matteo Dho – University of Turin
Advancements in symbiotic control of stink bug pests of hazelnut from the local to the global scale
- 10:05 **R** Elena Eustacchio – University of Milan
Plant-pollinator interactions: a study along spatial-temporal gradient in different land management types within the Stelvio National Park
- 10:20 **R** Priscilla Farina – University of Pisa
Starting with the basics: biology and European distribution of the fig weevil *Aclees taiwanensis*
- 10:35 **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
- 10:40 **Break**
- Chair:**
- 11:10 **R** Elena Gazzea – University of Padua
Quantifying the effects of insect pollination on crop quality
- 11:25 **R** Costanza Geppert – DAFNAE, University of Padua
Herbivory: a hidden player in plant responses to global change
- 11:40 **S** Anna Guarnieri – University of Basilicata
The black soldier fly *Hermetia illucens*: an innovative and alternative source of chitin and chitosan

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- 11:45 **R** Mélissa Haouzi – CNRS / University of Tours
Heterogeneous venom gland composition in females of the invasive Asian hornet *Vespa velutina nigrithorax*
- 12:00 **S** Giovanni Jesu – University of Naples
Distribution of fly species of veterinary importance in Basilicata region (Italy)
- 12:05 **S** Elisa Legoratti – University of Milan
Autumn and night: the neglected side of plant-arthropod interactions
- 12:10 **S** Enrico Mirandola – University of Padua
Identification of key plant-host volatiles affecting behavior of brown marmorated stink bug *Halyomorpha halys* (Hemiptera: Pentatomidae) on commercial hazelnuts
- 12:15 **R** Giovanni Jesu – University of Naples
Smoke Waters affect behavior in the olive fruit fly *Bactrocera oleae*
- 12:30 **R** Lucrezia Giovannini - CREA
Competition among the egg parasitoids of the invasive stink bug *Halyomorpha halys*
- 12:45 **R** Mathieu Leclerc – CNRS / University of Tours
The thermal ecology of a pollinator-thermogenic plant relationship: integrating physics, chemistry and thermal biology in climate change studies
- 13:00 **Lunch**
- Senior scientist lecture**
- 14:30 Samantha Cook – Rothamsted Research
Conservation biocontrol in arable ecosystems: can we believe in beneficials?
- Oral Presentations**
- 15:00 **R** Matteo Marchioro – University of Padua
Evaluation of the dispersal capacity and colonization-risk of the Walnut Twig Beetle, *Pityophthorus juglandis*, in North-east Italy
- 15:15 **R** Alberto Mele – University of Padua
Hyperparasitism of *Acroclisoides sinicus* (Huang and Liao) (Hymenoptera: Pteromalidae) on two Biological Control Agents of *Halyomorpha halys*
- 15:30 **R** Davide Nardi – University of Padua
Landscape predisposing factors to bark beetle attacks after a severe heat wave
- 15:45 **R** Bianca Orrù – University of Turin
New insights on symbiotic control of *Halyomorpha halys* and other Pentatomoidea
- 16:00 **R** Giacomo Ortis – University of Padua
Can temperature affect diapause patterns and survival of the outbreak species *Barbitistes vicetinus* (Orthoptera: Tettigoniidae)?

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16:15 **Break**

16:45 **R** Nicola Bodino– CNR-IPSP

Matter of time: temporal dynamics of the transmission of *Xylella fastidiosa* by *Philaenus spumarius* to olive plants

17:00 **R** Louis Pailler– CNRS/ University of Tours

Vibratory behaviours are modulated by social cues in a subterranean termite species

17:15 **S** Carlotta Savio– INRAE

Impact of probiotic bacteria on *Tenebrio molitor* fitness, gut microbial composition and susceptibility to *Bacillus thuringiensis* serovar *tenebrionis* and *Metarhizium brunneum* infections

17:20 **R** Emiliano Pioltelli– University of Milano-Bicocca

Effect of urbanization and environmental stressors on the intraspecific variation of flight functional traits in two bumblebee species

17:35 **R** Nicola Tommasi– University of Milano-Bicocca

Investigating The Impact of Anthropogenic Stressors on Pollinator Insects Across Different Continents

17:50 **S** Ilaria Laterza– University of Bari Aldo Moro

***Halyomorpha halys* in newly invaded areas: habitat preference and landscape factors shaping pest occurrence.**

17:55 **S** Giulia Magoga– University of Milan

A reference database of COI sequences for insect identification through DNA-Metabarcoding

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Friday 19 November 2021

Senior scientist lecture

09:00 Davide Rassati – University of Padova
Invasions by wood-boring ambrosia beetles: patterns and mechanisms

Oral Presentations

Chair:

- 09:30 **R** Matteo Ripamonti – CNR
***Scaphoideus titanus* feeding behavior and fitness are influenced by different grapevine cultivars**
- 09:45 **S** Elia Russo – University of Naples
Host-parasitoid developmental interactions are modulated by a venom component of *Aphidius ervi* (Hymenoptera, Braconidae)
- 09:50 **R** Giacomo Santoiemma – University of Padua
Impact of the invasion of *Popillia japonica* on the community of soil entomopathogenic nematodes and native white grubs in Italy
- 10:05 **R** Lucas Sire – CNRS / University of Tours
DNA metabarcoding of passive trap collection media for forest insect biomonitoring
- 10:20 **R** Giorgio Sperandio – University of Brescia
Modelling the risk of establishment and potential impacts of the fall armyworm (*Spodoptera frugiperda*) in Europe
- 10:35 **R** Simona Maria Tortorici – University of Catania
Multilevel analyses on pest primed and not-primed solanaceous plants
- 10:50 **Break**
- 11:20 **S** Micaela Triunfo – University of Basilicata
Extraction and characterization of chitin from different developmental stages of *Hermetia illucens*
- 11:25 **R** Barbara Valle – University of Milan
Cryophilic springtails (Collembola, Isotomidae) as ecological and biogeographic indicators of past and present glacial refugia
- 11:40 **S** Gennaro Volpe – University of Naples
RNAi-mediated silencing of an immune gene in *Spodoptera littoralis* (Lepidoptera, Noctuidae) alters its embryonic development
- 11:45 **S** Ilaria D'Isita – University of Foggia
Susceptibility of ancient and modern wheat varieties to the lesser grain borer, *Rhyzopertha dominica* (F.)

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- 11:50 **R** Dona Kireta – The University of Adelaide/University of Turin
Does revegetation quality matter to Australian native bees?
- 12:05 **R** Sofía Victoria Prieto – UNITo
Study of the gut microbiota in *Nezara viridula* and other pentatomids for symbiotic control
- 12:20 **Discussion on PhD education and future careers**
- 12:50 **Meeting closure**

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