



# SCIENTIFIC PROGRAMME

15-18 November 2017

## EUROPEAN PhD NETWORK "INSECT SCIENCE"

VIII Annual Meeting  
15-16 November 2017

## GIORNATE CULTURALI DI ENTOMOLOGIA

Accademia Nazionale Italiana di Entomologia  
Società Entomologica Italiana  
17 November 2017

## ACCADEMIA NAZIONALE ITALIANA DI ENTOMOLOGIA

General Assembly and Public Session  
18 November 2017

**FEDERICO II Convention Centre**  
Via Partenope 36, Napoli – Italy

## Wednesday 15 November 2017

### EUROPEAN PhD NETWORK "INSECT SCIENCE" - VIII Annual Meeting

08:00 – 08:55

Registration

08:55 – 09:00

Welcome Address

**Francesco Pennacchio**, *University of Napoli "Federico II" – Department of Agricultural Sciences, Italy*

09:00 – 09:40

**An insect pheromone primes plant defenses with community wide effects**

**John F. Tooker**, *The Pennsylvania State University - Department of Entomology, University Park, PA USA*

09:40 – 10:00

**Multiple symbiont acquisition and host shifts in a termite-protist mutualistic association**

**C. Michaud**, *Institut de Recherche sur la Biologie de l'Insecte, CNRS - University of Tours, France*

10:00 – 10:20

**Electrophysiological and behavioral studies in the evaluation of semiochemical attractants for *Stegobium paniceum* L. (Coleoptera: Anobiidae)**

**S. Guarino**, *University of Palermo - Dipartimento di Scienze Agrarie, Alimentari e Forestali, Italy*

10:20 – 10:40

**The larval midgut of *Hermetia illucens* is characterized by a highly complex structural organization**

**D. Bruno**, *University of Insubria - Department of Biotechnology and Life Sciences, Varese, Italy*

10:40 – 11:20

Coffee Break

11:20 – 11:40

**Molecular and functional characterization of *Hermetia illucens* larval midgut**

**M. Bonelli**, *University of Milan - Department of Biosciences, Italy*

11:40 – 12:00

**Immunological properties of engineered *Asaia* symbionts: implications for the control of mosquito-borne diseases**

**I. Varotto Boccazzi**, *University of Milan - Department of Biosciences, Italy*

12:00 – 12:20

**ABC-transporter gene silencing inhibits insecticide detoxification in Anopheline**



**malaria vector**

A. Negri, University of Rome "La Sapienza" - Department of Environmental biology, Italy

12:20 – 12:40

**Impact of *Halyomorpha halys* (Stål) on grapevine in Veneto region**

D. Scaccini, DAFNAE – Entomology, University of Padova, Italy

12:40 – 13:00

**New acquisition about the role of *Colomerus vitis* in the transmission of Grapevine Pinot gris virus**

D. Valenzano, Università degli Studi di Bari "Aldo Moro" - Dipartimento di Scienze del Suolo, della Pianta e degli Alimenti, Italy

13:00 – 14:00

Lunch

14:00 – 15:00

Poster exhibition and discussion

15:00 – 15:40

**The non-target effects of modern insecticides on natural enemies of pests**

A. Biondi, University of Catania – Department of Agriculture, Food and Environment, Italy

15:40 – 16:00

**RNA interference of *Varroa destructor* salivary genes: a tool to disclose honeybee-mite immune interactions**

A. Becchimanzi, University of Napoli "Federico II" – Department of Agricultural Sciences, Italy

16:00 – 16:20

**Bacteria expressing dsRNA as a delivery tool in RNAi-based pest control technologies**

F. Astarita, University of Napoli "Federico II" – Department of Agricultural Sciences, Italy

16:20 – 16:40

**Development of an e-trap for the monitoring of the olive fruit fly *Bactrocera oleae* (Gmelin) (Diptera: Tephritidae)**

P. Calabrese, University of Molise – Dipartimento Agricoltura, Ambiente, Alimenti, Campobasso, Italy

16:40 – 17:00

**Human based genetic tools to refine genetic populations structure of honey bees (*Apis mellifera* ssp L.) (Hymenoptera: Apoidea: Apidae) colonies at regional scale**

G. Noël, Functional and Evolutionary Entomology, Gembloux Agro-Bio Tech, University of Liege, Belgium

17:00 – 17:20

**Effect of short-term suboptimal temperature storage to assist large scale production of two dipterans**

M. Benelli, University of Bologna – Department of Agricultural Sciences, Italy

**Thursday 16 November 2017**

**EUROPEAN PhD NETWORK "INSECT SCIENCE" - VIII Annual Meeting**

09:00 – 09:40

**Forest insect invasions - the role of global change**

**A. Battisti**, DAFNAE – Entomology, University of Padova, Italy

09:40 – 10:00

**Modelling the shifts in the timing and spatial distribution of *Vitis vinifera*, *Lobesia botrana* and *Trichogramma* sp. phenology in a warming climate**

**V. Castex**, University of Geneva - Institute of Environmental Sciences, Switzerland

10:00 – 10:20

**The role of cuticular proteins located at the surface of the acrostyle, an organ at the tip of aphid stylets, in plant-aphid interactions**

**M. Deshoux**, INRA Montpellier - UMR 385 BGPI, France

10:20 – 10:40

**Molecular and functional characterization of an immune gene of *Spodoptera littoralis***

**I. Di Lelio**, University of Napoli "Federico II" – Department of Agricultural Sciences, Italy

10:40 – 11:00

**NF- $\kappa$ B signaling is impaired by neonicotinoid insecticides**

**G. Di Prisco**, University of Napoli "Federico II" – Department of Agricultural Sciences, Italy

11:00 – 11:40

Coffee Break

11:40 – 12:00

**Archaeoentomological studies provide information about the biodiversity of the Sardinian entomofauna in the last centuries**

**G. Giordani**, University of Huddersfield – Department of Biological Sciences, School of Applied Sciences, UK

12:00 – 12:20

**First records of *Synthesiomyia nudiseta* (Diptera: Muscidae) from forensic cases in Italy**

**F. Tuccia**, University of Huddersfield – Department of Biological Sciences, School of Applied Sciences, UK

12:20 – 12:40

***Drosophila suzukii* spillover from natural habitats to vineyards and cherry orchards**

**L. Tonina**, DAFNAE – Entomology, University of Padova, Italy

12:40 – 13:00

**High synchronization of *Drosophila suzukii* activity along elevational gradients**

**G. Santoiemma**, DAFNAE – Entomology, University of Padova, Italy



13:00 – 14:00

Lunch

14:00 – 14:40

Poster exhibition and discussion

14:40 – 15:20

**Gendercide symbionts in arthropods, and other stories of sex, symbiosis, and survival**

**C. Bandi**, *University of Milan - Department of Biosciences, Italy*

15:20 – 15:40

**Role of VOCs from *Brassica oleracea* in host location processes of *Bagrada hilaris*: electrophysiological and behavioral studies**

**M. A. Arif**, *University of Palermo - Dipartimento di Scienze Agrarie, Alimentari e Forestali, Italy*

15:40 – 16:00

**Inter-specific relationship among stored-product Coleoptera: role of VOC emissions**

**G. Giunti**, *Università Mediterranea di Reggio Calabria - Dipartimento di Agraria, Italy*

16:00 – 16:20

**Influence of cover crop management techniques on soil ecosystem services**

**S. Magagnoli**, *Alma Mater Studiorum University of Bologna - Dipartimento di Scienze Agrarie, Italy*

16:20 – 16:40

**Influence of landscape complexity and vineyard management on leafhoppers abundance in North-Italian vineyards**

**G. Zanettin**, *DAFNAE – Entomology, University of Padova, Italy*

16:40 – 16:50

**An innovative approach for the management of spotted wing drosophila (*Drosophila suzukii*): improve crop protection using an environmentally friendly formulation**

**I. Castellan**, *Free University of Bozen - Bolzano, Faculty of Science and Technology, Italy*

16:50 – 17:00

**New strategies in organic pest insect control by the characterization of bioactive plant volatile organic compounds of agricultural crops**

**M. Preti**, *Free University of Bozen - Bolzano, Faculty of Science and Technology, Italy*

20:00

**Dinner** at "Rossopomodoro" restaurant

Via Partenope, 11, 80121 Napoli



## Friday 17 November 2017

### GIORNATE CULTURALI DI ENTOMOLOGIA

9:20 – 9:35

**Romano Dallai**, President of “Accademia Nazionale Italiana di Entomologia”

**Francesco Pennacchio**, President of “Società Entomologica Italiana”

**Matteo Lorito**, Head Department of Agricultural Sciences - University of Napoli “Federico II”, Italy

#### I session: Insect-Plant Interactions

9:35

Introduction – Coordinators **AMR Gatehouse**, **MC Digilio**

9:40 – 10:15

**Plant Response to Stress: Can this be exploited for Crop Protection?**

**Angharad MR Gatehouse**, *University of Newcastle, UK*

10:15 – 10:40

**Host tree-insect interactions in northern forest ecosystems in a changing climate**

**Deepa Pureswaran**, *Laurentian Forestry Centre, Québec, Canada*

10:40 – 11:05

**Insect and microorganisms interactions and the induction of plant defence**

**Maria Cristina Digilio**, *University of Napoli Federico II, Italy*

11:05 – 11:30

Coffee Break

11:30 – 11:55

**Smart plants or naive insects?**

**Salvatore Cozzolino**, *University of Napoli Federico II, Italy*

11:55 – 12:20

**Signaling networks underlying plant defense responses at individual and community level**

**Rosa Rao**, *University of Napoli Federico II, Italy*

12:20 – 12:45

**From leaf-miners to gall-inducers: a continuum of plant manipulators?**

**David Giron**, *Institut de Recherche sur la Biologie de l’Insecte, CNRS - University of Tours, France*

12:45 – 13:10

**Ecology of egg parasitoids in crop protection**

**Stefano Colazza**, *University of Palermo - Dipartimento di Scienze Agrarie, Alimentari e Forestali, Italy*

13:10 – 13:30

General discussion

13:30 – 14:30

Lunch



**II session: Insects for the Court, Insects for the History: a Journey through Forensic Entomology and Funerary Archaeoentomology**

14:30 – 14:35

Introduction - **Stefano Vanin**, *University of Huddersfield, UK*

14:35 – 15:05

**PMI estimation a challenge for forensic pathologists**

**Carlo Campobasso**, *University of Campania Luigi Vanvitelli, Napoli, Italy*

15:05 – 15:35

**Hidden information within mummies and other burials**

**Gino Fornaciari**, *University of Pisa, Italy*

15:35 – 16:05

**Forensic Entomology and Funerary Archaeoentomology: a source of answers**

**Stefano Vanin**, *University of Huddersfield, UK*

16:05 – 16:30

General discussion

16:30 – 17:00

Presentation of the book: “**Il piacere delle api**” - **Paolo Fontana**

17:00 – 18.00

**ECE 2018** Organizing Committee Meeting

**Saturday 18 November 2017**

**PUBLIC SESSION AND GENERAL MEETING OF THE “ACCADEMIA NAZIONALE ITALIANA DI ENTOMOLOGIA”**

10:00 – 10:30

Welcome Coffee

10:30

General Assembly

11:30

Public Session

**“Attuali ricerche su specie di *Asphondylia* (Diptera: Cecidomyiidae) causanti galle fiorali su Lamiaceae”**

**Gennaro Viggiani**, *University of Napoli Federico II, Italy*

13:30

Lunch

