

ERASMUS + BLENDED INTENSIVE PROGRAMME SUMMER SCHOOL "MARCELLO LA GRECA" ON **BIODIVERSITY**

CATANIA (ITALY), 23-27 SEPTEMBER 2024

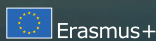
ONLINE SESSIONS: 2 AND 9 OCTOBER 2024



EUROPEAN PARTNERS:



UNIVERSITÄT GREIFSWALD
Wissen lockt. Seit 1456



Scuola Alta
Formazione
Marcello La Greca



The **Erasmus + Blended Intensive Programme and International Doctoral Summer School “Marcello La Greca” on Biodiversity**, is intended to provide postgraduate students with the latest advancements in the study, conservation and enhancement of insect biodiversity in a climate change scenario in a global perspective.

Participants will acquire both methodological, theoretical and applied knowledge of biogeography, biodiversity assessment, predictive models, and functional biodiversity.

A stimulating international environment will also provide PhD students with the opportunity to share their research interests and questions.

SESSIONS

1. Biodiversity and its conservation: the case of Orthopteroidea
2. Alien species and biodiversity
3. Biodiversity and climate change
4. Advances in biogeographic studies
5. DNA-based methods for biodiversity assessment
6. Predictive Modeling, Biodiversity and Conservation
7. Functional biodiversity

WEBPAGE

VENUE

Department of Agriculture,
Food and Environment (Di3A)
University of Catania
Via Santa Sofia, 100
95123 Catania, Italy

SCIENTIFIC COMMITTEE

Andrea BATTISTI
University of Padova, Italy

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Carmelo RAPISARDA
University of Catania, Italy

Agatino RUSSO
University of Catania, Italy

Giorgio SABELLA
University of Catania, Italy

Lucia ZAPPALÀ
University of Catania, Italy

MONDAY 23RD SEPTEMBER 2024

INTRODUCTORY SESSION

- 09:00 - 09:20 **Opening of the Summer School and institutional greetings**
- 09:20 - 10:00 Giorgio Sabella, *University of Catania, Italy*
Marcello La Greca: zoologist and biogeographer

SESSION 1 | BIODIVERSITY AND ITS CONSERVATION: THE CASE OF ORTHOPTEROIDEA

- 10:00 - 10:40 Paolo Fontana, *Fondazione E. Mach, Italy*
Orthopteroidea of Marcello La Greca and his commitment to nature conservation
- 10:40 - 11:20 Louis Cassar, *University of Malta, Malta*
Distribution and conservation of an endangered cricket: *Brachytrupes megacephalus*
- 11:20 - 11:45 Coffee break

SESSION 2 | ALIEN SPECIES AND BIODIVERSITY

- 11:45 - 12:25 François Verheggen, *University of Liege, Belgium*
Invasive Pest Risk analysis: Principles and examples
- 12:25 - 13:05 Alain Roques, *INRAE Forest Zoology Unit, Orleans, France*
How to forecast and early detect future insect invasions
- 13:05 - 13:45 Alessandro Cini, *University of Pisa, Italy*
Social life and biological invasions: the usual and the unusual suspects
- 13:45 - 15:00 Lunch
- 15:00 - 15:40 Hervé Jactel, *INRAE, Biodiversité Gènes & Communautés, France*
Effect of forest biodiversity on resistance to invasive insect pests
- 15:40 - 16:20 Jian Chen, *USDA-ARS, Stoneville, MS, USA*
Impact of imported fire ants on the biodiversity
- 16:20 - 18:00 **General discussion on "Day 1" activities (Sessions 1 + 2), animated by the speakers**
- 18:00 Free evening

TUESDAY 24TH SEPTEMBER 2024

SESSION 3 | BIODIVERSITY AND CLIMATE CHANGE

- 09:00 - 09:40 Martin Schebeck, *BoKu University, Vienna, Austria*
Climate change and forest insect diversity: an insight into bark beetles
- 09:40 - 10:20 Philipp Lehmann, *University of Greifswald, Germany*
Climate change and biodiversity: an insight into Lepidoptera
- 10:20 - 11:00 Andrea Battisti, *University of Padova, Italy*
Climate change and forest insect diversity: an insight into processionary moths
- 11:00 - 11:30 Coffee break

SESSION 4 | ADVANCES IN BIOGEOGRAPHIC STUDIES

- 11:30 - 12:10 Daniele Salvi, *University of L'Aquila, Italy*
Different levels of molecular biogeographic analyses: from phylogeography to transcontinental distributions
- 12:10 - 12:50 Alessandra Riccieri, *University of Roma Tre, Italy*
Molecular biogeography of west Mediterranean beetles
- 12:50 - 15:00 Lunch
- 15:00 - 17:00 **General discussion on "Day 2" activities (Sessions 3 + 4), animated by the speakers**
- 17:00 - 17:30 **Introduction to the technical excursion of Wednesday 25th September 2024**
- 19:30 Get together dinner

WEDNESDAY 25TH SEPTEMBER 2024

08:30 - 18:30 **All day technical excursion to the Oriented Natural Reserve (RNO) of Vendicari**
Organized in collaboration with the "Ente Fauna Siciliana" and the Sicilian Region



THURSDAY 26TH SEPTEMBER 2024

SESSION 5 | DNA-BASED METHODS FOR BIODIVERSITY ASSESSMENT

- 09:00 - 09:40 Michal Grabowski, *University of Lodz, Poland*
Matteo Montagna, *University of Napoli, Italy*
DNA barcoding
- 09:40 - 10:20 Michal Grabowski, *University of Lodz, Poland*
Matteo Montagna, *University of Napoli, Italy*
DNA metabarcoding
- 10:20 - 11:30 Piotr Gadawski, *University of Lodz, Poland*
Matteo Montagna, *University of Napoli, Italy*
Practical session: "How to plan a successful biodiversity survey using DNA (meta)barcoding"
- 11:30 - 12:00 Coffee break

SESSION 6 | PREDICTIVE MODELING, BIODIVERSITY AND CONSERVATION

- 12:00 - 12:40 Francesco Cerasoli, *University of L'Aquila, Italy*
Ecological Niche Modelling
- 12:40 - 13:20 Mattia Iannella, *University of L'Aquila, Italy*
Post-modelling techniques
- 13:20 - 15:00 Lunch
- 15:00 - 16:30 Francesco Cerasoli, Mattia Iannella, *University of L'Aquila, Italy*
Practical session: "Species Distribution Modelling lab techniques"
- 16:30 - 18:00 **General discussion on "Day 4" activities (Sessions 5 + 6), animated by the speakers**
- 18:00 Free evening

FRIDAY 27TH SEPTEMBER 2024

SESSION 7 | FUNCTIONAL BIODIVERSITY

- 09:00 - 09:45 Panagiotis Theodorou, *Martin-Luther-Universität Halle-Wittenberg, Germany*
Functional biodiversity - theoretical and methodological aspects
- 09:45 - 10:30 Costanza Geppert, *University of Padova, Italy*
Functional traits in relation to ecosystem properties and functions
- 10:30 - 11:15 Serena Magagnoli, *University of Bologna, Italy*
Agroecological strategies at field and farm level to enhance biological control: how to learn agroecological principles through playing an online serious game (SEGAE)
- 11:15 - 11:45 Coffee break
- 11:45 - 12:25 Roberto Mannu & Arturo Cocco, *University of Sassari, Italy*
Quantification of ecosystem services (biological control, pollination)
- 12:25 - 13:05 Roberto Mannu & Arturo Cocco, *University of Sassari, Italy*
Sampling methods for arthropod fauna in agricultural, forestry and natural fields
- 13:05 - 13:45 Roberto Mannu & Arturo Cocco, *University of Sassari, Italy*
Analysis of community data using NETWORK
- 13:45 - 15:00 Lunch
- 15:00 - 16:30 Fabio Sgolastra, *University of Bologna, Italy*
Impact of pest control methods on biodiversity
- 16:30 - 18:00 **General discussion on "Day 5" activities (Sessions 7), animated by the speakers**
- 19:00 - 23:00 Visit to the University of Catania Botanical Garden and farewell party

ONLINE SESSIONS

WEB LINK

WEDNESDAY 2ND OCTOBER 2024

- 09:00 - 10:30 Alexander Weigand, *Musée National d'Histoire Naturelle Luxembourg, Luxembourg*
Validation of alternative species identification techniques for studies on biodiversity
- 11:00 - 12:30 Axel Hochkirch, *Musée National d'Histoire Naturelle Luxembourg, Luxembourg*
Invertebrate conservation and protection of biodiversity

WEDNESDAY 9TH OCTOBER 2024

- 09:00 - 10:30 Maria Augusta Lima Siqueira, *Universidade Federal de Viçosa, Brazil*
Side effects of agricultural practices on non-target Brazilian bees: wild biodiversity under risk
- 11:00 - 12:30 Gustavo Ferreira Martins & Rodrigo Bernardes, *Universidade Federal de Viçosa, Brazil*
Ethoflow: a digital tool to assess behavioral modifications

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