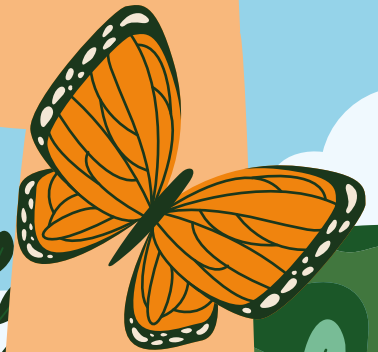


Biodiversity PhD Day

June 3-5
2024

University of Padova
Botanical Garden of Padova

Programme



Monday, June 3rd

Auditorium Sala delle Colonne

13.00 Registration

13.45 **Institutional Greetings**
Luigi Bubacco and Telmo Pievani

14.00 - 17.00 **Keynote Lectures**
Chairpersons: Telmo Pievani (Chiara Anzolini, Fabio De Pascale)

14.00 - 14.45 **Biodiversity genomics to catalogue, monitor, and explore the richness of life on Earth**
Robert Waterhouse, University of Geneva,
SIB Swiss Institute of Bioinformatics, Geneva

14.45 - 15.30 **Climate-induced sex-based differences in aquatic and terrestrial ecosystems**
Elena Gissi, CNR Istituto di Scienze Marine, Italy

15.30 - 16.15 **Biodiversity in marine restoration**
John Griffin, Swansea University, United Kingdom

16.15 - 17.00 **Historical botanical collections and (ancient-) DNA to reconstruct the history of introduction of tulip species in Europe**
Anastasia Stefanaki, Utrecht University, Netherlands

17.00 - 17.30 Coffee break

17.30 - 18.30 **Round table on the Biodiversity Report**
Chairperson: Francesco Frati

19.00 Aperiti-dinner

Tuesday, June 4th

Auditorium Sala delle Colonne, Teatro Botanico

9.30 - 13.00 **Monitoring 1** Auditorium Sala delle Colonne
Moderator: Tomaso Patarnello

Valorisation Teatro Botanico
Moderator: Elena Canadelli

9.30 - 10.45 **Oral presentations**
Auditorium Sala delle Colonne, Teatro Botanico

10.45 - 12.00 **Coffee break & Poster session 1**
Sala delle Colonne

12.15 - 13.00 **Round tables**
Auditorium Sala delle Colonne, Teatro Botanico

13.00 - 14.00 Light lunch
Sala delle Colonne

14.15 - 16.45 **Monitoring 2** Auditorium Sala delle Colonne
Moderator: Maria B. Rasotto

Restoration Teatro Botanico
Moderator: Alberto Barausse

14.15 - 15.30 **Oral presentations**
Auditorium Sala delle Colonne, Teatro Botanico

15.30 - 16.45 **Group picture, Coffee break & Poster session 2**
Sala delle Colonne

17.00 - 17.45 **Round tables**
Auditorium Sala delle Colonne, Teatro Botanico

17.45 - 19.00 **Free visit to the Botanical Garden and the Botanical Museum**

Wednesday, June 5th

Auditorium Sala delle Colonne, Teatro Botanico

9.30 - 13.00 **Monitoring 3** Auditorium Sala delle Colonne
Moderator: Tomaso Patarnello

Conservation Teatro Botanico
Moderator: Andrea Pilastro

9.30 - 10.45 **Oral presentations**
Auditorium Sala delle Colonne, Teatro Botanico

10.45 - 12.00 **Coffee break & Poster session 3**
Sala delle Colonne

12.15 - 13.00 **Round tables**
Auditorium Sala delle Colonne, Teatro Botanico

13.00 - 14.00 Light lunch
Sala delle Colonne

14.15 - 15.30 **Plenary Session | Closing remarks**
Sala delle Colonne

Monitoring 1

Davide Bongiovanni

The correlation between varying degrees of urbanisation and soil antibiotic resistance

Chiara Bottaro

Exploring spectral and thermal response of forest habitats through satellite imagery

Angela Carfora

Differential expression of genes involved in biotic and abiotic stress in raphanus plants collected in urban and extra-urban areas

Francesco Dattilo

Plankton biodiversity in the Mediterranean Sea: a trait-based model

Filippo Drigo

Integrating morphological, physiological, and molecular approaches to monitor photosynthetic biodiversity in the Venice Lagoon

Monitoring 2

Roberta Ferrante

Developing a comprehensive biodiversity index for sustainable forest ecosystem management

Francesco Ferraro

Advances in the modelling of ecological communities: a theoretical physics approach

Irene Gregori

Microbial responses in Venice lagoon salt marshes: diel insights

Roberto Magnolini

Biodiversity of neglected animals: taxonomy and distribution of a lineage of soil centipedes

Monitoring 3

Naomi Massaccesi

Identify sources, sinks and pathways of microbial pathogens and antibiotic resistance in aquaculture environments and aquaculture setting

Alessio Polvani

Novel citizen science methods for freshwater quality monitoring

Rosa Ranalli

Monitoring pollinators to enhance biodiversity in Italian cities

Jorge Sánchez Navarro - Remote

Monitoring and modelling of pathogen spillover from honey bees to bumblebees and wild bees

Anna Piquet

Changes in foliage-dwelling spider communities along an urbanisation gradient

Conservation

Silvia Cannucci

Agricultural intensity and local factors affect plant diversity of farmland ponds

Giulia Daniele

The problem of invasive alien plants in Italian cities: the role of the floriculture industry

Aya Mortada

Ex situ conservation of plant biodiversity with an innovative and integrated approach.
Orchid germplasm conservation in a seed bank

Jacopo Iaria

The ecological dynamics of Italian protected areas network project: updates, ongoing activities and future developments

Marisa Spampinato

Does long-term exposure to neodymium affect marine diatom populations?

Restoration

Giulia Bellanti

Assessment of biodiversity metrics for restoration of macroalgal forests

Thomas Cabai

Building ecological pedagogies: landscape architecture as a translator

Alessandra Riga

Fungi in action against hexachlorocyclohexane: a focus on biosurfactants from fungal biodiversity

Valorisation

Leonardo Bisson

Valorisation of the Italian biodiversity: specialised metabolism in the Rosid clade

Marina Chiappi

Collecting key information for the management of Mediterranean bioinvasions: insights from a doctoral research

Giovanni Felici

Economic valuation of ecosystem services in the waste management framework

Michele Porcelluzzi

Biodiverse public space: collaborative processes, design attitudes, and hybrid practices for more-than-human communities

Elisa Toini

Which plants would you choose to study for new drug discovery? A pipeline for a phylogenetic approach

Poster Session 1

Antonino Vincenzo Alessi

Molecular biomarkers for contaminants of emerging concern in *Stenella coeruleoalba* and *Balaenoptera physalus*

Elena Aurino

Galdieria sulphuraria cell disruption by bead milling: kinetic model assessment and process optimization

Alessandro Campiotti

Indoor green walls for improving air quality and human well-being

Marta Cotti Piccinelli

The development of an impact evaluation framework to explore the nature-based solutions potential of photovoltaic farms

Emanuela De Lisa

The monitoring of ascidian biodiversity in the Venice Lagoon

Luca Di Stasio

Integrated approach for urban soil monitoring: plant-microbe interactions and antibiotic resistance in Milan (Italy)

Alice Doimo

Extinction time statistics in metapopulations with finite carrying capacity

Rosa Donadio

Ecological traits of coastal macroalgal species in a touristic area: case study of Schiaccchietello Bay (Gulf of Naples)

Alice Fossati

Toward the identification of novel natural extracts against tyrosinase-related pathologies

Federica Frigieri

Mind the gap: developing new eDNA primers and collection method enhancements to deepen the biodiversity of tardigrades in leaf litter

Sara De Benedictis

Assessing the protection effectiveness of marine protected areas in space and time along the Italian coasts

Elisa Di Martino

Chemical characterisation and analysis of variation in Sb speciation in brake dust as a source of potentially toxic elements

Poster Session 2

Carmen Cimminella

Microbial consortia as biodiverse alternatives for plant protection

Annamaria Gentile

Integrated approach for urban soil monitoring: plant-microbe interactions and antibiotic resistance in Milan (Italy)

Emanuele Giachi

Long-term landslide biodiversity monitoring: the case of Pomezzana, Tuscany

Elisabetta Soi

Ecological and microevolutionary impact of climate change on mountain hares (*Lepus timidus*)

Aliki Kalmpourtzidou

The effect of nature-based solutions on human nutrition and food security in urban settings

Alessia Lambiase

Neuroprotective effects of plant extracts on eukaryotic models of Parkinson's disease

Alice Lenzi

What aids and what hinders: the effects of forest structure and composition on saproxylic beetles community

Andrea Maccantelli

Assessment of phthalate concentrations in four edible fish species along the Italian coast

Pallab Majumder

Characterization of new bioactive molecules for the treatment of neuroinflammatory and neurodegenerative diseases

Francesca Maresca

Unravelling the pathogenesis of the mortality events affecting marine organism of the Mediterranean Sea

Simon Masson

Soil microbial diversity in Italian urban parks under different vegetation covers

Giulia Moretto

Evaluation of anti-glycative and hypoglycemic properties of twelve edible plant extracts

Maha Moussa

Extraction, structural characterization, and in vitro antioxidant and anti-inflammatory effects of alginate from Ligurian *Ericaria menatcea* var. *strica*

Poster Session 3

Ateh Ndiforngu

The agricultural soil as a sink in circular economy: presence and fate of microplastics

Emilia Pafumi - Fuzzy dunes: applying fuzzy approaches to map Natura 2000 and EUNIS habitats on coastal dunes from worldview-3 imagery

Simona Sarmati

Forty-year coastal vegetation dynamics in the Castelporziano Presidential Estate: an analysis of biodiversity changes

Cristina Ricucci

Palynology for the long-term plant biodiversity changes in Italian natural areas

Simona Rinaldi

Wildfire risk assessment in nature-based solutions planning

Chiara Samassa

Development and application of molecular markers for the description and informed management of the genetic biodiversity of Italian endemic or endangered species

Diletta Santovito

A systematic review of the toolbox for cleaning vascular plant species point-occurrence data

Marco Scaramelli

Investigate the occurrence of microplastics in urban environments and their impacts on soil microarthropods

Irene Sicignano

Nature as a common heritage of European people: a legal assessment of the EU biodiversity conservation framework

Linda Signorini

Nature-based solutions and urban farming: the impact of green barriers on air quality, soil health and food safety

Chiara Vitillo

CS4Rivers: a citizen science project for monitoring the biodiversity of riverine ecosystems

Claudia D'Emilio

Global warming and expansion of Oriental Hornet (*Vespa orientalis*) in urban areas of the Campania region

Luca Licciardi

Paramuricea clavata forests support biodiversity and ecosystem functioning