

Dottorato in Scienze della Vita
Life Sciences



PhD

DAY



27th September 2023

Università di Siena

Polo Scientifico San Miniato - Aula 14

FULL PROGRAMME

9:00 Registration

9:30 Opening session:

- Prof. Simona Maccherini - Coordinator PhD programme in Life Sciences
- Prof. Andrea Garulli - Delegate for PhD courses
- Prof. Cosima T. Baldari - “*John Laird Telford*” PhD Award

10:00-11:20 Session 1: Cell Biology, Physiopathology and Pharmacology

Chairs: Emilia Pafumi, Antonio Ricciarini, Lucia Vizzoni, Rossana De Salvo

- **10:00-10:20 Francesca Papi** - Development of murine B cell platform for the isolation and characterization of mAbs against bacterial antigens
- **10:20-10:40 Miriana Di Stefano** - Big data analysis and artificial intelligence in hit identification and target fishing for neurodegenerative diseases
- **10:40-11:00 Luca Cerri** - Olive leaf extract for corneal wound healing
- **11:00-11:20 Dalia Corbo** - New insights on IntraFlagellar Transport (IFT): IFT-membrane interaction and IFT turnaround

11:20-11:50 Coffee break

11:50-13:10 Session 2: Biodiversity, Conservation and environmental quality

Chairs: Martina Calosi, Giovanna Milano, Lisa Grifoni, Chiara Sciandra

- **11:50-12:10 Lazzeri Lorenzo** - Interspecific relationships in a mammal community in a Mediterranean area
- **12:10-12:30 Sara Parri** - Water conservation strategy and physio-molecular responses of three Italian olive (*Olea europaea* L.) cultivars under drought stress
- **12:30-12:50 Mehriban Jafarova** - Monitoring the deposition of airborne microplastics with moss
- **12:50-13:10 Sara Boschi** - Molecular tools to study historic and recent pathways of entry and spread for the invasive Japanese beetle and development of control strategy break

13:10-14:20 Light lunch

14:20-16:00 Session 3: Cell Biology, Physiopathology and Pharmacology

Chairs: Maria Giovanna Marotta, Alice Lenzi, Chiara Vitillo, Mariateresa Marrocco, Marco Taddei

- **14:20-14:40 Chiara Goracci** - Study of lung fibrogenesis in vivo e vitro model
- **14:40-15:00 Paolo Cantaloni** - Evaluation of Monkeypox- and Vaccinia virus-neutralizing antibodies in human serum samples after vaccination and natural infection
- **15:00-15:20 Elettra Fallani** - Public health impact of influenza vaccination in Italy: barriers, benefits and interventions in the field of prevention
- **15:20-15:40 Gioia Boncompagni** - Leukemic cell-secreted interleukin-9 suppresses cytotoxic T cell-mediated killing in chronic lymphocytic leukemia
- **15:40-16:00 Ludovica Ancarani** - Profiling of the serological response to Gonococcus in healthy subjects receiving 4CmenB vaccine (ONLINE)

16:00-16:30 Plenary Lecture: Prof. DUCCIO ROCCHINI: "Spectral entropy: the holy grail of remote sensing for estimating diversity from space" Alma Mater Studiorum University of Bologna (ONLINE)

1) Biodiversity, Environmental quality and Nature conservation

Chairs: Vittoria Forconi, Irene Belardi, Emilia Pafumi, Alice Lenzi, Chiara Vitillo, Noemi Pallari, Giovanna Milano

- **Francesco De Giglio** - Reevaluation of antarctic springtails and mites systematics using molecular markers and bioinformatic analyses
- **Valerio Donini** - How to use camera traps to predict habitat selection
- **Riccardo Fedeli** - Lettuce Plants Can Grow in Saline Soils Supplemented with Biochar
- **Majid Ghorbani** - Biochar: a convenient material for circular economy and sustainable agriculture
- **Valerio Orazi** - Wolf – prey – mesocarnivore coexistence strategies in an alpine protected area
- **Rebecca Funari** - World-wide invasion of *Popillia japonica* reconstructed based on complete mitochondrial genomes and nuclear SNP markers
- **Felice Zarra** - Ingestion of polystyrene by *Alphitobius diaperinus* (Coleoptera, Tenebrionidae): optimization of rearing conditions and effects on microbiome

2) Cell Biology, Physiopathology and Pharmacology

Chairs: Rossana De Salvo, Marco Salvatore, Irene Belardi, Lucia Vizzoni, Maria Giovanna Marotta, Lisa Grifoni, Nazanin Azarnejad, Mariateresa Marrocco, Antonio Ricciarini, Marco Taddei

- **Ganesha Yanuar Arief Wijava** - Nutraceutical Fishing (Nutra-fishing) to Find New Protein Targets of Phenolic Compounds Identified in Extra Virgin Olive Oil (EVOO) and Olive Leaf Extract (OLE)
- **Denise Bonente** - Expression of CD44 and its partner Podoplanin in epiretinal membranes
- **Chiara Colangelo** - Evaluation of circulating tumor DNA (ctDNA) genetic mutation profile of patients with hormone receptor positive (HR+)/human epidermal growth factor receptor 2 negative (HER-) locally advanced/metastatic breast cancer to guide treatment decisions
- **Noemi Guerrini** - Evaluation of antibody and cell-mediated immune responses against SARS-CoV-2 in mice after intramuscular administration of an RBD-based subunit vaccine
- **Rudi Mazzinghi** - Sars-Cov-2 flow: sampling, characterization, isolation and sequencing
- **Serena Nencini** - Direct and placenta-mediated effect of Bisphenol A exposure on the oxidative status of human astrocytes
- **Alice Panti** - Sagrantino vine cv. leaves extracts and nanovesicles: chemical characterization and in vitro evaluation of vasoactive properties
- **Andrea Perrotta** - Advancing technology platforms for the development of vaccines against drug-resistant pathogens
- **Alice Pifferi** - Role of cytochrome P450 in the toxic mechanisms of xenobiotics in human neuroblastoma SH-SY5Y cells
- **Federica Rungo** - Characterization and engineering of SMAPs component Thrombospondin 1
- **Lorenzo Zavagna** - Advancing probiotic delivery and in vitro models: tailorable gellan gum microparticles and 3D bioprinted villi-like scaffold to mimic intestinal epithelium



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