



Research Doctorate in Biology, University of Pisa

PHD RESEARCH PROJECT PRESENTATIONS

28th January 2025

Venue: POLO DIDATTICO SAN ROSSORE AULA SRB

Speakers:

1) 14,00 **FRANCESCA MANCONI** (Project presentation, 15 minutes+ 5 discussion)

Title: "Biosystematics and integrated taxonomy of the *Polygala nicaeensis* (Polygalaceae)".

Tutors Prof. Lorenzo Peruzzi, Prof. Gianni Bedini

2) 14,20 **BENEDETTA BIANCHI** (Project presentation, 15 minutes+ 5 discussion)

Title: "Behavioural responses of Mediterranean loggerhead sea turtles to warm temperatures".

Tutor: Prof. Paolo Luschi, Dr. Sandra Hochscheid

3) 14,40 **GIULIAN CAPASSO** (Project presentation, 15 minutes+ 5 discussion)

Title: "Foraging performance and strategies among different cetacean species using bio-logging technology".

Tutors: Dott. Francesco Caruso, Prof. Paolo Luschi

4) 15,00 **LORENZO DA PALMATA** (Project presentation, 15 minutes+ 5 discussion)

Title: "Exploring the Role of Microtubules in Neuronal Mechanotransduction".

Tutors: Prof. Vittoria Raffa, Prof. Ranieri Bizzarri

5) 15,20 **ALESSANDRO FUSCO** (Project presentation, 15 minutes+ 5 discussion)

Title: "Characterisation of Phages for Treating Antibiotic-Resistant *Mycobacterium tuberculosis* and *Mycobacterium abscessus* Infections"

Tutors: Prof. Mariagrazia Di Luca, Prof. Laura Rindi

6) 15,40 **ALICE GALOTTI** (Project presentation, 15 minutes+ 5 discussion)

Title: "Exploring Social Living and Sleeping Dynamics in Wild and Domestic Equids: From Physiology to Cognition".

Tutors: Prof. Elisabetta Palagi, Prof. Paolo Baragli

7) 16,00 **MARGHERITA ALLOTTA** (Project presentation, 15 minutes+ 5 discussion)

Title: "Exploring long-term evolution dynamics in the ciliate model system *Euplotes*: how conjugation may shape mitochondrial and nuclear genes evolution".

Tutor: Prof. Giulio Petroni, Dr. Valentina Serra

8) 16,20 **LUCA NATUCCI** (Project presentation, 15 minutes+ 5 discussion)

Title: "Interactions within large mammal communities across spatial and temporal scales in anthropogenic landscapes".

Tutor: Prof. Alessandro Massolo, Dr. Dimitri Giunchi

9) 16, 40 **GIUSEPPE NERI** (Project presentation, 15 minutes+ 5 discussion)

Title: "Shedding lights on Sotos syndrome exploiting multiple CRISPR/Cas approaches in zebrafish".

Tutors: Prof. Chiara Gabellini, Prof. Vittoria Raffa

10) 17, 00 **DOLAPO SALIM OLATOYE** (Project presentation, 15 minutes+ 5 discussion)

Title: "Evaluating Ecosystem Resilience in Complex Habitat Networks Using Emerging Imaging Technology".

Tutors: Prof. Lisandro Benedetti Cecchi, Prof. Iacopo Bertocci

11) 17, 20 **SARA OMETTO** (Project presentation, 15 minutes+ 5 discussion)

Title: "Microthermal mosaics maintained by habitat-forming species and effects on associated biodiversity".

Tutors: Prof. Iacopo Bertocci, Prof. Lisandro Benedetti Cecchi

12) 17, 40 **FILOMENA REA** (Project presentation, 15 minutes+ 5 discussion)

Title: "Advancing Treatment in Acute Leukemia: Development of Bone Marrow 3D Model to Test New Therapies Against Chemoresistance".

Tutors: Prof. Fabio Beltram, Dr. Marianna Vitiello

13) 18, 00 **FRANCESCA REMONDINO** (Project presentation, 15 minutes+ 5 discussion)

Title: "Decoding Pitt-Hopkins Syndrome with zebrafish: mechanisms and therapeutic approaches".

Tutors: Prof. Michela Ori, Prof. Massimiliano Andreazzoli

14) 18, 20 **VIRGINIA SCHIANINI** (Project presentation, 15 minutes+ 5 discussion)

Title: "Uncovering the effects of social perturbations in animal societies: a network approach".

Tutors: Dr. Alessandro Cini, Prof. Elisabetta Palagi

29th January 2025

Venue: POLO DIDATTICO SAN ROSSORE AULA SRB

Speakers:

1) 14,00 **TAMARA SMITH** (Project presentation, 15 minutes+ 5 discussion)

Title: "Nested microbial interactions in seagrass ecosystems".

Tutor: Prof. Fabio Bulleri, Dr. Ulisse Cardini

2) 14,20 **ALESSIO TERENCE** (Project presentation, 15 minutes+ 5 discussion)

Title: "Dissecting the molecular circuit triggering Programmed cell death events during root development".

Tutors: Prof. Riccardo Di Mambro, Dr. Elena Salvi

3) 14,40 **GIORGIO VICARI** (Project presentation, 15 minutes+ 5 discussion)

Title: "Exploring the difficult relationship between social wasps and human society: an eco-ethological approach".

Tutors: Dr. Alessandro Cini, Prof. Leonardo Dapporto

4) 15,00 **TIANSI LI** (Project presentation, 15 minutes+ 5 discussion)

Title: "Towards Open Biodiversity: Unlocking Data through Advanced Databases and Integrative Methods".

Tutor: Prof. Gianni Bedini, Prof. Giulio Petroni

5) 15,20 **ROBERTA LACORTE** (Project presentation, 15 minutes+ 5 discussion)

Title: "ALEX – the impact of Artificial Light at night on coastal marine resources: an EXperimental approach in natural and farming systems"

Tutors: Prof. Elena Maggi, Dr. Francesca Rossi

6) 15,40 **ALLIEVI ALESSANDRO** (III year, 20 minutes+ 5 discussion)

Title: "Next Generation Taxonomy of Ciliophora and their symbionts, with special attention to ciliates from Pistoia province and Orbetello lagoon (Tuscany, Italy)".

Tutors: Prof. Sergey Fokin, Dr. Valentina Serra

7) 16,05 **CANANZI GABRIELE** (III year, 20 minutes+ 5 discussion)

Title: “ Barcoding and environmental DNA metabarcoding as novel tools for monitoring the biodiversity of the Serchio river, Tuscany (IT).”.

Tutor: Prof. Giulio Petroni

8) 16,30 **CONSTANTINESCU VLAD-STEFAN** (III year, 20 minutes+ 5 discussion)

Title: “Neuroanatomical and functional characterization of wiring-transmitting serotonin neurons”.

Tutor: Prof. Massimo Pasqualetti, Prof. Armen Saghatelyan