



Research Doctorate in Biology, University of Pisa

PHD PROJECT REPORTS RESEARCH PROJECT PRESENTATIONS

12th January 2022

14,00 **Alessandro Allevi** (1 year, 15 minutes+discussion)

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

Tutor: Prof. Sergey Fokin

14,20 **Marilyn M.A. Salavarría** (1 year, 15 minutes+discussion)

Title: Neuronal reprogramming to comprehend psychiatric disorders

Tutor: Prof. Marco Onorati

14,40 **Gabriele Cananzi** (1 year, 15 minutes+discussion)

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

Tutor: Prof. Giulio Petroni

15,00 **Ludovica Pedicini** (1 year, 15 minutes+discussion)

Title: Biology and ecology of Mediterranean marine forests

Tutors: Profs. Fabio Bulleri and Iacopo Bertocci

15,20 **Marco Romboni** (1 year, 15 minutes+discussion)

Title: Neanderthal extinction: evaluation of evolutionary hypotheses

Tutors: Profs. Sergio Tofanelli, Damiano Marchi and Giovanni Boschian

15,40 **Xu Wenxin** (1 year, 15 minutes+discussion)

Title: Taxonomic Studies on Three Taxa Ciliates from Wastewater Treatment Plants, with the Description of New Species

Tutor: Prof. Giulio Petroni

16,00 **Francesca Merighi** (1 year, 15 minutes+discussion)

Title: Neural regeneration in spinal cord injury"

Tutors: Prof. Marco Onorati and Prof. Vittoria Raffa

16,20 **Claudia dell'Amico** (II year, 15 minutes+discussion)

Title: Neural stem cells to understand human brain disorders

Tutor: Prof. Marco Onorati

16,40 **Michele Giovannini** (II year, 15 minutes+discussion)

Title: Evolutionary and functional genome analyses of Holosporales bacteria

Tutor: Prof. Giulio Petroni

17,00 **Antea Minetti** (II year, 15 minutes+discussion)

Title: Viral vectors for the manipulation of neural circuits

Tutor: Prof. Massimo Pasqualetti, Dr. Alessandro Gozzi

17,20 **Orlando Tommasini** (II year, 15 minutes+discussion)

Title: Effects of fires on predator-prey relationships in a Mediterranean environment: the case of Monte Pisano as a study model

Tutor: Prof. Alessandro Massolo

17,40 **Soultana Konstantinidou** (II year, 15 minutes+discussion)

Title: Nanotransducer as a novel tool in genome editing: a new approach in gene therapy

Tutor: Prof. Vittoria Raffa

19th January 2022

14,30 **Martina Giordano** (III year, 20 minutes+discussion)

Title: Role of the serotonin on the dopaminergic system

Tutor: Prof. Massimo Pasqualetti

14,55 **Matteo Baggiani** (III year, 20 minutes+discussion)

Title: Human neural stem cells to uncover microcephaly

Tutor: Prof. Marco Onorati

15,20 **Valentina Falchi** (III year, 20 minutes+discussion)

Title: Pattern and processes affecting movement ecology of partial migratory birds at multiple spatial and temporal scale using the Eurasian stone-curlew *Burhinus oedicnemus* as a model

Tutor: Prof. Dimitri Giunchi

15,45 **Lucia Cenni** (III year, 20 minutes+discussion)

Title: IT-Em: the eco-epidemiology of hidden food-borne parasites at the edge of their distribution. The case of *Echinococcus multilocularis* in north-eastern Italy

Tutor: Prof. Alessandro Massolo

16,10 **Sara de Vincentiis** (III year, 20 minutes+discussion)

Title: Stretch-growth: a unified model of axonal growth?

Tutor: Prof. Vittoria Raffa

16,35 **Jonathan Tempesti** (III year, 20 minutes+discussion)

Title: Port areas as hotspots for bioinvasions: establishment and spread of alien species

Tutors: Prof. Alberto Castelli, Prof. Ferruccio Maltagliati and Prof. Claudio Lardicci

17,00 **Giancarlo Bachi** (III year, 20 minutes+discussion)

Title: Interactions between Dissolved Organic Matter and microorganisms: implications for the marine carbon cycle

Tutors: Prof. Alberto Castelli and Dr. Chiara Santinelli

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PHD RESEARCH PROJECT PRESENTATIONS

2nd February 2022

14,00 Riccardo Farinella

Title: The metagenome impact on the first 1000 days of life

Tutor: Prof. Daniele Campa

14,20 Claudia Campobasso

Title: Characterisation of staphylococcal bacteriophages and their interaction with biofilm-embedded bacteria

Tutors: Prof. Mariagrazia Di Luca and Dr Jeroen Wagemans

14,40 Jacopo Franzoni

Title: Biosystematics and integrative taxonomy of the *Dianthus virgineus* complex (Caryophyllaceae) in Central Mediterranean

Tutor: Prof. Lorenzo Peruzzi

15,00 Antonio Di Cintio

Title: The interplay between ecological benefits and socio-economic forces in regulating the establishment and functioning of marine protected areas

Tutor: Prof. Fabio Bulleri

15,20 Ana Escolano Molto'

Title: The constructive role of environmental stochasticity in ecological systems

Tutor: Prof. Lisandro Benedetti-Cecchi

15,40 Allegra Coppini

Title: Structural and functional axonal plasticity following chemical/mechanical stimulation

Tutors: Prof. Vittoria Raffa, Dr. Laura Marchetti and Dr. Valentina Cappello

16,00 Annalisa Storari

Title: Tube-worm bioconstructions: exploring novel ecological aspects, biotechnological applications and use for habitat amelioration

Tutor: Prof. Iacopo Bertocci

16,20 Sara Verni

Title: Integrative taxonomy and biogeography of Mediterranean deep-sea polychaetes

Tutor: Prof. Alberto Castelli

16,40 Matteo Digregorio

Title: Analysis and correction of neurodevelopmental disorders caused by the loss-of-function of Setd5 in a zebrafish model"

Tutor: Prof. Massimiliano Andreazzoli

17,00 Luca Petroni

Title: Top-down effects mediated by wolves in a Mediterranean ecosystem

Tutor: Prof. Alessandro Massolo

17,20 Sara Cioccarelli

Title: Spatial cognition and neural basis of familiar landmarks-based navigation in birds

Tutors: Prof. Anna Gagliardo and Prof. Dimitri Giunchi

17,40 Daria Scintu

Title: The molecular mechanisms generating differences in root patterning between *Arabidopsis thaliana* and its close relative

Tutors: Prof. Riccardo Di Mambro and Dr. Raffaele Dello Iorio

18,00 Manuel Tiburtini

Title: Biosystematics and integrative taxonomy of the genus *Armeria* (Plumbaginaceae) in Central Mediterranean

Tutor: Prof. Lorenzo Peruzzi

18,20 Vlad Constantinescu

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

Tutor: Prof. Massimo Pasqualetti