



Life Sciences PhD Day 2025



UNIVERSITÀ
DI SIENA
1240

Official programme

08:30-08:45 Registration

08:45-09:00 Opening session

- Prof. Simona Maccherini - coordinator PhD programme in Life Sciences

09:00-12:00 First session: Third Year students - Cell Biology, Pathophysiology and Pharmacology

Maria Teresa Marrocco - Advanced in vitro human Immune Profiling of GMMA-based vaccines

Lucia Vizzoni - Cyclodextrin-based stabilization of inhalable plasminogen: a hospital-friendly strategy for ARDS therapy under oxygen support

Antonio Ricciarini - New GPR55 modulators bearing a 3-benzylquinolin-2(1H)-one scaffold: synthesis, evaluation of affinity/selectivity and assessment of neuroprotective action

Vittoria Forconi - Development and characterization of viral pseudotypes as safe tools for investigating WHO Priority Pathogens

Giovanna Milano - Methodologies for the Detection of SARS-CoV-2 Antibodies: From the Gold Standard to Multiplex Approaches

Maria Giovanna Marotta - Pseudotyped virus-based platform and structural analysis to study the cross-reactivity between influenza C and influenza D viruses

10:30-11:00 Coffee break

Simone De Meo - Functional, histological and biomolecular changes caused by hyperoxia exposure in a preterm rabbit model of Bronchopulmonary Dysplasia

Rossana De Salvo - Food and Health: Uncovering the Molecular Basis of Nutrition, Immunogenicity, and Safety in a Changing Food Landscape

Marco Taddei - Characterisation of the exoproteome fraction in some economically relevant fungi

12:00-16:00 Second session: Third Year students - Biodiversity, Conservation and Environmental Quality

Chiara Vitillo - Citizen Science and Environmental Monitoring: the Ombrone River Basin case study

Chiara Sciandra - Optical and electron microscopy in plant protection: insights into spermiogenesis and centriolar region organization in *Halyomorpha halys* under X-Irradiation

Giovanni Fini - Structure and interspecific dynamics in mammalian communities

Silvia Cannucci - Farmland ponds as unique aquatic islands

13:00-14:00 Lunch

Martina Calosi - Insights on wild boar behaviour, ecology and impacts in Mediterranean areas

Alice Lenzi - Research on saproxylic beetles: from community studies to protected species monitoring, by adopting canonical and participatory methods

Noemi Pallari - Adaptive strategies of large mammals in global change-threatened communities

Emilia Pafumi - Plant diversity and habitats on coastal dunes: prioritisation and mapping approaches

Irene Belardi - Effects of predator recovery on prey and competitors: wolves, wild boar and red foxes

Nazanin Azarnejad - Legacy herbicide bound to PLA-PBAT and LDPE plastic mulch film fragments in soil can induce phytotoxicity to subsequent crops

Lisa Grifoni - Integrated Chemical and Magnetic Biomonitoring of Airborne Particulate Matter for the Preventive Conservation of Cultural Heritage

16:00-16:05 Third session: Second Year students - Biodiversity, Conservation and Environmental Quality

Samuele Pignedoli - Yeasts and pollinators communities in *Onosma* spp. Nectar

16:05-17:05 Fourth session: Second Year students - Cell Biology, Pathophysiology and Pharmacology

Leandro Marzuoli - PLK1 controls cytotoxic T lymphocyte motility by orchestrating cytoskeletal dynamics and LFA-1 trafficking

Vanessa Tatangelo - Taginostat, a new quinolone-based HDAC6 inhibitor, promotes apoptosis of chronic lymphocytic leukemia cells by activating STAT4: in vitro and in vivo evidences

Ilaria Liverani - An integrated in vitro approach to enhance the predictive capabilities of preclinical studies on the balance of human toxicity VS "good reactivity"

Giulia Soggiu - Inter-Laboratory Technology Transfer and Validation of a Microneutralization ELISA-based assay for Pandemic Emergency Preparedness

Barbara Brunelli - AI based classification of erythrocytes morphology from scanning electron microscopy images as a biomarker candidate for autism spectrum disorder

Alessia Bichicchi - New insight into the cardiovascular toxicity of Norbormide, a Rattus-selective toxicant

Cinzia Del Gaudio - Environmental Particulate Matter Impairs Early Placentation Through Cellular Mechanisms

Roberta Rovelli - Bioengineered Colon-Targeted Microcontainer for Two-Phase Treatment of Stress-Related Chronic Gut Inflammation

Massimiliano Mirabeni - Study of nutraceutical compounds of foods and processing waste

Tiziana Tamborrino - Rejuvenation of intestinal microbiota via microbiota transfer in aged mice: effects on local expression of proteins and function

Francesco Cei - Microbiota-Immune Axis: Functional Food for the Modulation of Inflammation and Muscle Damage in Gastrointestinal Diseases

Antonia Napoletano - Effects of a chronotype-adapted diet on body composition and cardiometabolic risk parameters in a sample of overweight/obese subjects