



Life sciences PhD Day 2026

Program | 5 October 2026



UNIVERSITÀ
DI SIENA
1240

8:30-9:00: Registration and opening session

9:00-10:55: First session (3rd-year)

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

Vanessa Tatangelo - Targeting molecular vulnerabilities in Chronic Lymphocytic Leukemia and Richter Transformation

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

Antonia Napoletano - Effects of a chronotype-adapted diet on body composition and gut microbiota-immunity axis in a sample of overweight/obese subjects

Francesco Cej - Microbiota-Immune Axis: Nutritional Modulation, Inflammation, and Skeletal Muscle in Gastrointestinal and Cardiovascular Diseases

Tiziana Tamborrino - Microbiota rejuvenation in aged mice: effects on colonic protein expression, intestinal function and immune response

Leandro Marzuoli - Polo-like kinase 1 promotes cytotoxic T lymphocyte migration and invasion by orchestrating cytoskeletal dynamics and LFA-1 recycling

11:00-11:45: Coffee break

11:45-13:15: Second session (3rd-year)

Cinzia Del Gaudio - Particulate matter impairs early trophoblast function: from HTR8/SVneo cells to hTSC-derived EVT

Massimiliano Mirabeni - Study of Nutraceutical Compounds in Functional Foods and Agri-Food By-products from Tuscany

Roberta Rovelli - Bioengineering strategies for targeted modulation of the stress-altered colonic microenvironment

Samuele Pignedoli - Pollinators, microbes and nectar chemistry in *Onosma* spp.

Annachiara Miccoli - The killing machinery of cytotoxic T lymphocytes: from emerging weapon to novel targets of immune evasion in CLL

Giulia Soggiu - Integrated Structural Characterization of Conserved Monoclonal Antibody Epitopes on Influenza Hemagglutinin

13:15-14:30: Lunch break

14:30-15:30: Third session (2nd-year)

Andrea Bellini - Root for Root: Biodegradable Substrates for Sustainable Hydroponic Cultivation

Cinzia De Benedictis - Rice straw management practices and GHG emission

Giulio Tremori - Integrated metabolomic fingerprinting of pumpkins: biochemical insights into fruit quality and responses to biostimulant

Lucrezia Lorenzetti - Effects of temperature on red deer interactions with roe deer and chamois

Sara Amoriello - Symbiotic bacteria as a novel biocontrol strategy against the Invasive Japanese Beetle

Letizia Conti - Ecophysiological dynamics and soil respiration in a young Tuber magnatum Picco orchard: a case study in Tuscany

Matteo Dal Cin - From soil to nectar: serpentine-driven variation in floral traits of two *Onosma* species (*Boraginaceae*)

Mirko Legnaro Diamanti - Are terricolous (soil inhabiting) and epiphytic (tree inhabiting) fruticose lichens equally suitable for biomonitoring the deposition of airborne potentially toxic elements and microplastics?

15:30-15:50: Break

15:50-16:40: Fourth session (2nd-year)

Sara Desideri - Gas exchange analysis provides new insights into the mechanism of action of wood vinegar

Roberta Vanni - Application of a ViroSpot Microneutralization Assay for Influenza Virus Titration and Evaluation of Vaccine-induced Antibody Response

Valentina Costa - A colorimetric readout based on the PrestoBlue® dye as an objective method for measuring neutralizing antibodies against influenza virus in human serum samples

Stella Nappi - The U373 glioma cell line releases perforin-1 positive proteinaceous particles that promote migration and immunosuppression

Francesco Vannucci - Genetics and environment interplay in the Amyotrophic Lateral Sclerosis - FrontoTemporal Dementia spectrum: a Multi-Omics approach in Twin patients

Giacomo Panza - ANN-PROSAIL model to estimate quality and digestibility of alfalfa forage from Sentinel-2 imagery

Eva Landucci - Design and Synthesis of Novel MAGL Inhibitors and GPR55 Modulators

16:40-17:00: Closing remarks and acknowledgements