Pharma PhD-DAY
UNIVERSITY OF FLORENCE
Area of Drug and Innovative Treatments

UNIVERSITÀ DEGLI STUDI FIRENZE | Dipartimento di Neuroscienze, Psicologia, Area del Farmaco e Salute del Bambino
Eccellenza 2023-2027

PHARMA PhD-Day – Programme
January 23rd, 2026

09:00-09:15 Opening Remarks – *Lorenzo Di Cesare Mannelli*

09:15-09:45 Flash Talks – XLI cycle

Chairs: *Andrea Ammara* and *Riccardo Zecchi*

- **Alessia Benucci** - Study of the nutraceutical potential of phytocomplexes obtained from pre-germinated/germinated plant products and *microgreens*: chemical characterization and *in vitro* tests
- **Rebecca Castellacci** - Nanotechnology-based drug delivery systems for the modulation of cellular senescence and related disorders
- **Elisa Marinari** - Development of antioxidant casein kinase 1Δ inhibitors as novel therapeutic agents for amyotrophic lateral sclerosis
- **Martino Montomoli** - Drug response in movement disorders associated with developmental and epileptic encephalopathies: toward precision phenotyping and targeted treatments
- **Federica Polverini** - Gene × Environment interactions shaping neurodevelopment in SHANK3 deficiency
- **Sofia Quadrino** - Relevance of cellular senescence to the pathogenesis and treatment of multiple sclerosis

09:45-10:45 Poster Session – XLI cycle

10:45-11:15 Coffee Break

11:15-12:00 Flash Talks – XL cycle

Chairs: *Dr. Andrea Di Santo* and *Dr.ssa Chiara Sasia*

- **Carmen Gallo** - Development of new melanogenesis-modulator peptides for dermocosmetic applications
- **Elena Giulia Giugliano** - Pharmacological and functional analysis of genes involved in colorectal cancer drug resistance
- **Laura Gatti** - Prognostic role of cytofluorimetry in pediatric connective tissue diseases: a prospective study

- **Lorenzo Mattolini** - Design and synthesis of new metallo-beta-lactamase inhibitors to fight antibiotic resistance
- **Federica Panozzi** - Role of adenosine A_{2B} receptors during de- and re- myelination process in different mouse brain regions: an in vivo study
- **Sara Pisini** - Modeling mTOR pathway dysregulation in patient-derived neurons
- **Camilla Vannucchi** - Natural active-based NLC hydrogels combining pomegranate oil and *Sedum telephium* polysaccharides for paediatric burn management

12:00-13:00 Poster Session – XL cycle

13:00-14:30 Lunch Break

14:30-15:15 Flash Talks – XXXIX cycle

Chairs: *Sara Calenda* and *Paraham Farahvachi*

- **Emanuela Bocchi** - A 3D air liquid interface lung model to assess IPF epithelial-mesenchymal crosstalk
- **Irene Digiglio** - Comparison of HS-SPME, Vac-HS-SPME and HiSorb pre-concentration techniques for profiling of volatile compounds in monovarietal extra virgin olive oil using GC×GC-MS
- **Silvia Fiani** - Thermosensitive multitarget hydrogels for the treatment of infected skin ulcers: the CUTESANA project
- **Ilaria Galli** - Use of precision therapy in neurodevelopmental disorders and epileptic encephalopathies related to mutation in the *GRIN* genes
- **Maria Vincenza Mastrolia** - Epigenetic profile of Pediatric Behçet Disease
- **Alice Molli** - SARM1-driven metabolic collapse as a novel anticancer strategy
- **Gioele Renzi** - Dual inhibition of carbonic anhydrase IX and glutathione peroxidase 4 as a novel strategy for ferroptosis-Induced tumor cell death
- **Lucrezia Sforzi** - Toward eco-friendly SPPS: a case study on Argireline™ and Pal-GHK-OH peptides
- **Giulia Vagnoni** - 5,7-Diaminothiazolo[5,4-d]pyrimidine derivatives as new CK1Δ Inhibitors for the treatment of neurodegenerative diseases and cancer

15:15-16:30 Poster Session – XXXIX cycle

16:30-16:45 Closing Remarks – *Lorenzo Di Cesare Mannelli*