

SCUOLA
NORMALE
SUPERIORE

Ph.D Day 2024

Neuroscience

Aula Stemmi, Palazzo della Carovana

Day 1 10th January 2024

Session I

Chairperson:
Fabrizio Tonelli

Session II

Chairperson:
Letizia Brogi

Session III

Chairperson:
Marin Matic

- 11:00 Welcome - Prof. Antonino Cattaneo
- 11:15 **Stefano Guglielmo**
Exploring Episodic Memory through Brain-Wide Mapping and Chemogenetic Manipulation
- 11:45 **Francesca Chiara Latini**
Mapping memory encoding and recall using genetically encoded reporters of synaptic potentiation in physiological and pathological conditions.
- 12:15 **Giulia Palla**
Union is strength: Neurophysiological basis of the Social Facilitation process in mice
- **Coffee break**
- 14:00 **Matteo Caldarelli**
Mechanisms of emotional contagion in mice
- 14:20 **Roberta Camera**
Evolution of neurotrophins in basal vertebrates
- 14:50 **Giulia Borgonovo**
Nerve Growth Factor influences microglia cells in vivo
- **Coffee break**
- 15:40 **Francesca Damiani**
Understanding the role of the gut microbiota on postnatal neurodevelopment in health and disease
- 16:10 **Pasquale Miglionico**
Delving into the structure and evolution of signal transduction networks with deep learning
- 16:40 **Filippo Cancellotti**
Parallel evolution of girencephalization in mammalian cortex



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Day 2 -11th January 2024

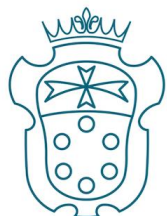
Session IV

Chairperson:
Marin Matic

- **14:00 Francesco Carli**
Learning the principles of cancer cell drug sensitivity
- **14:30 Elisabetta Mori**
An innovative therapeutic strategy to treat Glioblastoma: close to clinical translation
- **15:00 Alya Batool**
Omics analysis to explore the aberrant role of innervation pathways in cancer

Coffee break

- **15:40 Lorenzo Amir Nemati Fard**
Transcriptomics Exploration of Cell-Cell Communication Networks Rewiring and Pathway Crosstalk in Cancer
- **16:00 Licia Anna Pugliese**
Nanoscale investigation of cytokine-induced stress in beta cells via Expansion Microscopy



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Day 3 12th January 2024

Session V

Chairperson:

Chiara Giannuzzi

- 11:00 **Valentino Totaro**
Distribution of perineuronal nets in the adult mouse brain
- 11:30 **Eleonora Crocco**
Functional design of neural networks with different ratios of inhibitory and excitatory neurons
- 12:00 **Greta Ghiloni**
protocols for generating human astrocytes in vitro to study neurodegeneration and adult neurogenesis

Lunch Break

Session VI

Chairperson:

Marianna Mignanelli

- 14:00 **Giacomo Pasquini**
A diurnal rhythm of intracellular chloride in pyramidal neurons affects cortical dynamics
- 14:30 **Sezin Eyüpustaoglu**
Molecular Mechanisms of Diapause in The Annual Killifish *Nothobranchius furzeri*
- 15:00 **Martina D'Assoro**
Selection of intrabodies against hyperphosphorylated Tau protein and *in vivo* characterization of the anti-H3K9ac intrabody scFv-58F

Coffee break

Session VII

Chairperson:

Angela Bitonti

- 15:40 **Ciro Zinno**
Bioelectronic Medicine in the Autonomic Nervous System
- 16:10 **Francesco Gentile**
Autonomic Consequences of Chemoreflex and Baroreflex Dysfunction as a Guide for Feedback Modulation in Heart Failure