



UNIVERSITÀ DEGLI STUDI
DI GENOVA



UNIVERSITY OF GENOVA

PhD COURSE IN NEUROSCIENCE SUMMER SCHOOL I

DIMI room – ground floor
Viale Benedetto XV, n. 6

June 26 – June 30, 2023

Monday, June 26 - Alzheimer disease

(Tutors: Matteo Pardini, Tullio Florio)

9.00 – 12.00

Diagnostic Biomarkers in Alzheimer Disease. *Federico Massa (University of Genoa, IT)*

Imaging of amyloid-related inflammatory abnormalities in AD *Emanuele Pravata (Ospedale Regionale di Lugano)*

14.00 - 17.00

Inflammatory cerebral angiopathy. *Fabrizio Piazza (University of Milan-Bicocca, IT)*

Cognitive profile in Alzheimer Disease. *Beatrice Orso (University of Genoa, IT)*

Tuesday, June 27 - Multiple sclerosis

(Tutors: Matilde Inglese, Tiziana Vigo)

9.00 – 12.00

New advances in clinical research and therapeutic perspectives in multiple sclerosis

Introduction *Antonio Uccelli (University of Genoa, IT)*

Gut microbioma in Multiple Sclerosis: where are we? *Marinella Clerico (University of Turin, IT)*

Innate lymphoid cells in Multiple Sclerosis. *Alice Laroni (University of Genoa, IT)*

Immune reconstitution in MS: the paradigm of bone marrow transplantation. *Giacomo Boffa (University of Genoa)*

14.00 - 17.00

The role of advanced imaging tools for exploring pathogenetic mechanisms and monitoring disease progression

Decoding and modelling chronic inflammation in Multiple Sclerosis. *Martina Absinta (IRCCS San Raffaele Institute, Milan, IT)*

Predicting and monitoring disease progression: the role of high-field MRI.
Caterina Lapucci (University of Genoa, IT)

The visual pathway as a platform to assess neuroinflammation and neurodegeneration in Multiple Sclerosis. *Maria Cellerino (University of Genoa, IT)*

Technological tools for sensorimotor assessment and rehabilitation. *Maura Casadio (University of Genoa, IT)*

Wednesday, June 28 - Epilepsy

(Tutors: Fabio Benfenati, Lino Nobili)

9.00 – 12.00

Epilepsy and inflammation: therapeutic targets and biomarkers.

Annamaria Vezzani (IRCCS Mario Negri Institute, Milan, IT)

14.00 - 17.00

Seizure cycles in focal epilepsy: implications for seizures forecasting.

Maxime Baud (Bern University Hospital, CH)

Thursday, June 29 - Neuropsychiatric diseases

(Tutors: Francesco Papaleo, Gianluca Serafini)

9.00 – 12.00

"Activated immune-inflammatory response system: neurobiological underpinnings and mechanisms in mood disorders". *Michael Maes (Chulalongkorn University, Bangkok, Thailand)*

Mechanisms of the immune response in the Central Nervous System. *Antonio Uccelli*

(University of Genoa, IT)

14.00 – 17.00

Developmental wiring of prefrontal cortex in health and neuropsychiatric disorders.

Ileana Hanganu-Opatz/Mattia Chini (University of Hamburg, DE)

Neural Circuits of Social Cognition. *Francesco Papaleo (Italian Institute of Technology, Genoa, IT)*

Friday, June 30 - Motor and sports sciences

(Tutors: Piero Ruggeri, Ambra Bisio)

9.00 – 12.00

Neurofunctional correlates of complex actions: examples from lab investigation of goal-directed acts and neuro-empowerment of athletic performance. *Davide Crivelli (Catholic University of Milan, IT)*

(University of Milan, IT)

14.00 – 17.00

Adapted physical activity in elderly: recent findings. *Federico Schena (University of Verona, IT)*