



SUMMER SCHOOL 2025

*THE WORLD OF NEURODEGENERATION AND
NEUROPLASTICITY: FROM CELLS TO HUMANS*

7-11 JULY, 2025 – CATANIA, ITALY

JULY 7th

08:30 Opening

Filippo Drago

University of Catania, Italy

Tomàs Ryan

Trinity College Dublin, Ireland

Morning Lecture

09:00 – 10:00 Gaia Novarino

Institute of Science and Technology, Austria

“Genetic contributions to neurodevelopmental disorders”

10:00 – 10:30 Interactive discussion

10:30 – 11:30 Laura Cancedda

Italian Institute of Technology, Genova, Italy

“Inhibition and critical period plasticity in neurodevelopment”

11:30 – 12:00 Interactive discussion

Afternoon Lecture

15:30 – 16:30 Claudia Buss

Charité – Berlin, Germany

“Early-life adversities as predictors of aging-related neuroinflammation, neurodegeneration, and cognitive impairment”

16:30 – 17:00 Interactive discussion

JULY 8th

Morning Lecture

09:00 – 10:00 Rene Frank

University of Leeds, UK

“Cryo-electron tomography of β -amyloid and tau within postmortem human Alzheimer's disease brain”

10:00 – 10:30 Interactive discussion

10:30 – 11:30 Stefanie Poll

University of Bonn, Germany

“Alzheimer's disease and memory engram competition”

11:30 – 12:00 Interactive discussion

Afternoon Lecture

15:30 – 16:30 Gisella Vetere

EPSCI Paris, France

“Deconstruction of a memory engram reveals distinct ensembles recruited at learning”

16:30 – 17:00 Interactive discussion

17:00 – 18:00 General Discussion

JULY 9th

Morning Lecture

09:00 – 10:00 Bianca Silva

Institute of Molecular and Cellular Pharmacology, CNRS, Nice, France

“Fear memory engram attenuation in health and disease”

10:00 – 10:30 Interactive discussion

JULY 9th

Morning Lecture

10:30 – 11:30 Edwin Robertson

University of Glasgow, UK

“Memory consolidation in the human brain”

11:30 – 12:00 Interactive discussion

Afternoon Lecture

15:30 – 16:30 Rodrigo Quian Quiroga

Hospital del Mar Research Institute, Barcelona, Spain

“Concept cells and the human engram”

16:30 – 17:00 Interactive discussion

17:00 – 18:00 General Discussion

Concluding Dinner

JULY 10th

Morning Lecture

09:00 – 10:00 Michel van den Oever

University of Vrije, Amsterdam, Netherlands

“Engram structure and memory persistence”

10:00 – 10:30 Interactive discussion

10:30 – 11:30 Lisa Genzel

Radboud University, Netherlands

“Semantic memory engram networks in health and disease”

11:30 – 12:00 Interactive discussion

Afternoon Lecture

15:30 – 16:30 Monica DiLuca

University of Milan, Italy

“Synaptic dynamics in health and disease”

16:30 – 17:00 Interactive discussion

17:00 – 18:00 General Discussion

JULY 11th

Morning Lecture

09:00 – 10:00 Markus Werkle-Bergner

Max Plank Institute for Human Development, Berlin, Germany

“Unravelling connections between brain maturation and brain development in early life”

10:00 – 10:30 Interactive discussion

10:30 – 11:30 Tomàs Ryan

Trinity College Dublin, Ireland

“Forget the engram – memory expression across development”

11:30 – 12:30 Presentation of the research projects by participants

12:30 – 13:00 Filippo Drago

University of Catania, Italy

Closing remarks