

# XXI SUMMER SCHOOL OF NEUROSCIENCE

15-19 JULY, 2024

CATANIA, ITALY

## MEMORY DEFICIT AND DEMENTIA: ADVANCEMENTS IN PHYSIOLOGY AND TREATMENT HOPE

SCIENTIFIC DIRECTOR: Prof. Giuseppe Di Giovanni



### 15th JULY

- 08:30 **Opening**  
**Filippo Drago** and **Giuseppe Di Giovanni**  
**Morning Lecture**
- 09:00-10:00 **From memory loss to memory mastery: unveiling the power of superior memory**  
**Patrizia Campolongo**, Department of Physiology and Pharmacology, Sapienza University of Rome, Italy.
- 10:00-10:30 Interactive discussion
- 10:30-11:30 **Neurochemistry and dementia: focus on monoamines in Alzheimer's disease**  
**Philippe De Deurwaerdere**, Institut des Neurosciences Cognitives et Intégratives d'Aquitaine. CNRS Unité Mixte de Recherche, Bordeaux, France.
- 11:30-12:00 Interactive discussion
- Afternoon Lecture**
- 15:30-16:30 **The hippocampus in depth: new vistas on an old circuit**  
**Liset M de la Prida**, Instituto Cajal - CSIC, Madrid, Spain.
- 16:30-17:00 Interactive discussion
- 17:00-18:00 General discussion

### 16th JULY

- Morning Lecture**
- 09:00-10:00 **Cognitive comorbidities of absence seizures**  
**Sandra Vaz**, Instituto de Medicina Molecular João Lobo Antunes, Faculty of Medicine, University of Lisbon, Portugal.
- 10:00-10:30 Interactive discussion
- 10:30-11:30 **Memory & dementia: A role for GLT-1-mediated hyperexcitability**  
**Fiorenzo Conti**, Department of Medicine Experimental and Clinical, Polytechnic University of Marche; and Center for Neurobiology of Aging, IRCCS INRCA, Ancona, Italy.
- 11:30-12:00 Interactive discussion
- Afternoon Lecture**
- 15:30-16:30 **Chronic stress and exosome as key players in precipitation and diagnosis of Alzheimer's disease**  
**Ioannis Sotiropoulos**, Institute of Biosciences and Applications, NCSR "Demokritos", Agia Paraskevi, Greece.
- 16:30-17:00 Interactive discussion
- 17:00-18:00 General discussion

### 17th JULY

- Morning Lecture**
- 09:00-10:00 **Neurobiological links between depression and Alzheimer's disease: novel pharmacological targets for future disease-modifying strategies**  
**Filippo Caraci**, Department of Medicine and Health Sciences - University of Catania, Italy.
- 10:00-10:30 Interactive discussion
- 10:30-11:30 **Advancing brain health: integrating sex as a biological variable in Alzheimer research**  
**Laura Castro**, Women's Brain Project, Zurich, Swiss.
- 11:30-12:00 Interactive discussion
- Afternoon Lecture**
- 15:30-16:30 **FTLD - how pathology and genetics influence the development of biomarkers**  
**Ivana Delalle**, Boston University, Chobanian and Avedisian School of Medicine (BUCASM), Boston, USA.
- 16:30-17:00 Interactive discussion
- 17:00-18:00 General discussion

### 18th JULY

- Morning Lecture**
- 09:00-10:00 **Explaining the role of Tau in Neurodegeneration**  
**Rohan de Silva**, UCL Queen Square Institute of Neurology, London, UK.
- 10:00-10:30 Interactive discussion
- 10:30-11:30 **The olfactory trail in dementias**  
**Rafael Franco**, Department of Biochemistry and Molecular Biomedicine, Faculty of Biology, University of Barcelona, Spain.
- 11:30-12:00 Interactive discussion
- Afternoon Lecture**
- 15:30-16:30 **Inflammasome activation may represent the missing link between altered amyloid precursor protein metabolism and the accumulation of phosphorylated tau protein in the Alzheimer's disease brains**  
**Goran Šimić**, University of Zagreb School of Medicine, Croatian Institute for Brain Research, Zagreb, Croatia.
- 16:30-17:00 Interactive discussion
- 17:00-18:00 General discussion

### 19th JULY

- Morning Lecture**
- 09:00-10:00 **Bridging the divide: Beta-Amyloid's dual role in brain health and Alzheimer's disease**  
**Daniela Puzzo**, - Department of Biomedical and Biotechnological Sciences, University of Catania, Italy.
- 10:00-10:30 Interactive discussion
- 10:30-11:30 **Elsevier workshop on how to get published in a scientific journal**  
**Giuseppe Di Giovanni**, Cardiff University, UK; University of Malta, MT and University Magna Graecia of Catanzaro, Italy.
- 11:30-12:30 Presentation of the research projects by participants
- 12:30-13:00 Closing remarks

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