

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
11:30-12:00	Philippe De Deurwaerdere , Institut des Neurosciences Cognitives et Intégratives d'Aquitaine. CNRS Unité Mixte de Recherche, Bordeaux, France. 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

17th JULY

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	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, Zurig, 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
8th JULY	

16th JULY

Morning	Lecture
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Morning Lecture

Cognitive comorbidities of absence seizures 09:00-10:00

Sandra Vaz, Instituto de Medicina Molecular João Lobo Antunes, Faculty of Medicine, University of Lisbon, Portugal.

- Interactive discussion 10:00-10:30
- 10:30-11:30 Memory & dementia: A role for GLT-1-mediated hypereccitability

Fiorenzo Conti, Department of Medicine Experimental and Clinical, Polytechnic University of Marche; and Center for Neurobiology of Aging, IRCCS INRCA, Ancona, Italy.

Interactive discussion 11:30-12:00

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.

- Interactive discussion 16:30-17:00
- General discussion 17:00-18:00

Under the auspices of:











	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 Græcia of Catanzaro, Italy.
11:30-12:30	Presentation of the research projects by participants
12:30-13:00	Closing remarks