

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

Under the auspices of:



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