

Coordinator: Prof. Filippo Drago

SYNAPTIC FUNCTION AND DYSFUNCTION: NEW TARGETS FOR BRAIN DISEASES PHARMACOLOGY

**Hotel Villa Paradiso dell'Etna
Catania, Italy - 16-20 July, 2018**

PROGRAM

16th July - Synaptic function and neuronal plasticity (1)

- 09.00-09.30 Opening
Filippo Drago, Fabrizio Gardoni, Monica Di Luca
- 09.30-11.00 **Synapse to nucleus signalling in health and disease**
Monica di Luca, Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy
- 11.00-12.00 Interactive discussion
- 12.00 Light lunch
- 15.30-17.00 **Molecular dynamics of the postsynaptic density in disease**
Michael R. Kreutz, RG Neuroplasticity, Leibniz Institute for Neurobiology, Magdeburg, Germany
- 17.00-18.00 Interactive discussion
- 18.00-19.00 General discussion
- 19.00 Dinner

17th July - Synaptic function and neuronal plasticity (2)

- 09.00-10.30 **Role of the scaffolding molecules Bassoon and Piccolo in presynaptic organization and plasticity in health and disease**
Eckart D. Gundelfinger, Department Neurochemistry and Molecular Biology, Leibniz Institute for Neurobiology Magdeburg, Germany
- 10.30-11.30 Interactive discussion
- 12.00 Light lunch
- 15.30-17.00 **Role of the signaling molecules in the dynamic organization of synapses: from basic mechanisms to pathophysiological consequences**
Nathalie Sans, INSERM, Neurocentre Magendie, Unité U1215, Bordeaux, France
- 17.00-18.00 Interactive discussion
- 18.00-19.00 General discussion
- 19.00 Dinner

18th July - Synaptic dysfunction in neurological disorders (1)

- 09.00-09.30 **Amyloid and synapses: an inner dialogue in the frame of Alzheimer's Disease**
Elena Marcello, Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy
- 10.30-11.30 Interactive discussion
- 12.00 Light lunch

- 15.30-17.00 **Synaptic function: from physiological mechanisms to neurodegenerative disorders**
Fabrizio Gardoni, Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy
- 17.00-18.00 Interactive discussion
- 18.00-19.00 General discussion
- 19.00 Dinner

19th July - Synaptic function: from physiology to pathology

- 09.00-10.30 **Emotional responses upon blockade of juvenile NMDA receptors**
Isabel Perez-Otano, Cellular Neurobiology and Neurophysiology Laboratory, Center for Applied Medical Research (CIMA) and University of Navarra Medical School, Pamplona, Spain
- 10.30-11.30 Interactive discussion
- 12.00 Light lunch
- 15.30-17.00 **Synaptic dysfunction in Alzheimer's disease**
Christophe Mulle, University of Bordeaux, Interdisciplinary Institute for Neuroscience, CNRS UMR 5297, Bordeaux, France
- 17.00-18.00 Interactive discussion
- 18.00-19.00 General discussion
- 19.00 Dinner

20th July - Synaptic dysfunction in neurological disorders (2)

- 09.00-10.30 **Rescuing epilepsy and cognitive dysfunctions by eEF2K inhibition**
Carlo Sala, CNR Institute of Neuroscience and Department of Biotechnology and Translational Medicine, University of Milan, Milan, Italy
- 10.30-12.00 **Understanding pathophysiological mechanisms underlying PCDH19**
Maria Passafaro, Institute of Neuroscience, CNR, Milan, Italy
- 12.00-13.00 Interactive discussion
- 13.00 Light lunch
- 15.30-17.00 **Synaptic dysfunction in neurodegenerative diseases: focus on Alzheimer's disease**
Tiziana Borsello, Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy
- 17.00-18.00 Interactive discussion
- 18.00-19.00 General discussion
- 19.00 Closing remarks - Filippo Drago