II EDITION
MORE THAN NEURONS: toward a less neuronocentric view of brain disorders
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THURSDAY, NOVEMBER 29TH

10.00 Onsite registration and badge distribution
13.30 Welcome & Introduction
14.00 LECTURE - Introduced by M.A. Sortino (Catania, Italy)
“A role for leukocyte trafficking in Alzheimer’s disease”
Gabriela Constantin (Verona, Italy)

SESSION 1 (14.45-19.00)
Focus on neurodegeneration and neuroinflammation
Chair by: C. Ghelardini (Firenze, Italy), B. Marchetti (Catania, Italy)
A. Pittaluga (Genova, Italy)

14.45 Microglia-mediated synapse loss in the pathogenesis of neurodegeneration - Rosa Paolicelli (Zurich, Switzerland)
15.15 NR4As impairment in Multiple Sclerosis patients: moving from blood to central nervous system - Francesca Montarolo (Torno, Italy)
15.30 Microglia support neurons in the earliest phases of Aβ-induced toxicity - Sara Merlo (Catania, Italy)
15.45 Proteomics of tyrosine-nitrated proteins in T cells from Alzheimer’s disease patients - Giulia Abate (Brescia, Italy)
16.00 Patient-specific iPSC-derived astrocytes contribute to non-cell autonomous neurodegeneration in Parkinson’s disease - Meribel Pons-Espinal (Barcelona, Spain)
16.15 Impact of the chemokine Ccl3 on astrocyte-derived exosomes in Parkinson’s disease - Loredana Leggio (Catania, Italy)
16.30 COFFEE BREAK
17.00 Genetic deletion of Rhes increases the susceptibility to the neuroinflammatory effects of 3,4 methylenedioxyamphetamine (MDMA) - Micaela Morelli (Cagliari, Italy)
17.30 Contrasting effect of the immune response in the central and peripheral nervous system on amyotrophic lateral sclerosis disease progression - Caterina Bendotti (Milano, Italy)
18.00 Ca2+-activated K+ channels modulate microglia affecting motor neuron survival in hSOD1G93A mice - Germana Cocozza (Rome, Italy)
18.15 Cross-talk between microglia and oligodendroglial progenitors in cerebral ischemia: implications for brain repair - Marta Fumagalli (Milano and Urbino, Italy)
18.30 Striatal astrocytes: functional evidence of A2A-D2 heterodimerization and modulation of glutamate release - Chiara Cervetto (Genova, Italy)
18.45 General discussion
19.00 LECTURE - Introduced by C. Riccardi (Perugia, Italy)
“Astrocytes in Neuroinflammatory Disorders”
Cinthia Farina (Milano, Italy)
This lecture has been made possible through an unrestricted grant from
19.45 WELCOME RECEPTION
SESSION 2 (09.00-11.55)
MTN in neurodevelopmental and neuropsychiatric disorders
Chaired by: A. Buffo (Torino, Italy), M. Memo (Brescia, Italy)

09.00 The microglial innate immune receptor TREM2 is required for synapse elimination and normal brain connectivity - Raffaella Moniti (Milano, Italy)

09.30 Perinatal oxytocin rescues developmental trajectories in a mouse model of 22q11.2 microdeletion modulating the blood-cerebrospinal fluid-barrier permeability - Francesco Papaleo (Genova, Italy)

10.00 Control of neuronal protein expression and functions by astroglial calcineurin - Dmitry Lim (Novara, Italy)

10.30 COFFEE BREAK

10.55 Cannabinoid treatment modulates neuroinflammation and behavioral abnormalities in a rat model of autism-like behaviour
Erica Zamberletti (Busto Arsizio, Italy)

11.10 Are oligodendrocyte progenitors all born equal? A lesson from a microphaly model - Erica Rondelli (Rome, Italy)

11.25 Stimulation of adenosine A2A receptor restores cell functions and differentiation in a pharmacological model of Niemann-Pick type C oligodendrocytes - Chiara De Nuccio (Rome, Italy)

11.40 Autoimmune synaptopathies: roles of antibodies targeting neurotransmitter receptors and complement
Guendalina Olivero (Genova, Italy)

11.55 LECTURE - Introduced by D. Lim (Novara, Italy)
"Principles of astrogliapathology" - Alexey Verkhratsky (Manchester, UK)

12.40 LUNCH

13.40 POSTER SESSION

15.30 LECTURE - Introduced by P.L. Canonico (Novara, Italy)
"Cognitive dysfunction in diabetes: what are the targets for intervention?" - Geert Jan Biessels (Utrecht, Netherlands)

SESSION 3 (16.15-19.00)
MTN in metabolic disorders, pain, injury and neuroplasticity
Chaired by: M. Collino (Torino, Italy), C. Patrone (Stockholm, Sweden)

16.15 Spinal microglia drives morphine hyperalgesia by disinhibiting nociceptive pathways - Francesco Maria Ferrini (Torino, Italy)

16.40 VEGF-A as a pain mediator: new evidence from stem cell secretome
Lorenzo Di Cesare Mannelli (Firenze, Italy)

17.05 Dimethyl fumarate reduces tactile allodynia in a gender dependent manner in two different models of peripheral neuropathic pain
Livio Luongo (Napoli, Italy)

17.20 COFFEE BREAK

17.45 Type 2 diabetes impairs odour detection, olfactory memory and olfactory neuroplasticity; effects partly reversed by DPP-4 inhibition
Grazyna Litzaew (Stockholm, Sweden)

18.00 Elucidating the regulation of astrocyte metabolism in physioxia and inflammation - Kaia Monsorno (Lübeck, Germany and Trento, Italy)

18.15 Neurogenic activation and lineage progression of striatal astrocytes following excitotoxic lesion - Giulia Nato (Torino, Italy)

18.30 Environmental stimuli shape microglial plasticity in glioma
Stefano Gandolfo (Rome, Italy)

18.45 ELOVL5 plays an essential role in myelin formation
Ilaria Balbo (Torino, Italy)

SESSION 5 (14.45-16.30)
Neural stem cells, neuro-glia interactions, blood-brain barrier
Chaired by: S. De Marchis (Torino, Italy), M. Grilli (Novara, Italy)

14.45 Age-dependent niche signals from the choroid plexus regulate adult neural stem cells - Violeta Silva Vargas (Basel, Switzerland)

15.15 Neuron-astroglia cell fate decision in the adult mouse hippocampal neurogenic niche is cell-intrinsically controlled by Coup-Tfi in vivo
Sara Bonzano (Torino, Italy)

15.30 In vitro modeling unravels neural progenitor/astrocyte dysfunctional homeostasis and crosstalk in Down Syndrome
Maria Elisa Salvalai (Novara, Italy)

15.45 Pharmacological induction of oxidative metabolism in neural stem cells enhances neuronal maturation - Francesco Bifari (Milano, Italy)

16.00 Beta amyloid modifies PBMCs migration through the blood-brain-barrier - Simona Spampinato (Catania, Italy)

16.30 Conclusions