







«Mario Negri» Institute Auditorium Via Mario Negri 2, Milan, Italy www.braynconference.com

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Chiara Gabbi Humanitas Medical Care, Milan (Italy)

Rossella Galli San Raffaele Scientific Institute, Milan (Italy)

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Maria Velasco Trinity College, Dublin (Ireland)

NOVEMBER 14th

13:30	Registration
14:30	Opening Ceremony GIOVANNI FERRARA
14:40	Lecture JEAN-MICHEL CIONI Axonal protein synthesis in health and disease a new role for endosomes. (Chairwoman: B. Bettegazzi)
15:10	Lecture DANIEL JAQUE GARCIA Near infrared (NIR)-II imaging for brain studies. (Chairman: J.L. Cañavate)
	SESSION 1 - NEURAL PLASTICITY • ORAL COMMUNICATIONS (Supported by European Society of Neurochemistry, ESN) Chairwomen: E. Boda, G. Calabrese, R.C. Paolicelli, E. Conti
15:40	Roberta Schellino Human medium spiny neuron progenitors grafted into an HD rat model early integrate into the host circuits, express striatal markers and support functional recovery.
15:55	Martina Lorenzati Axo-glial interplay in oligodendrocyte specification and myelination: role of JNK1.
16:10	Giulia D'Arrigo Astrocytes-derived Extracellular Vesicles in motion at the neuron surface.
	BraYn Educational Symposia 1 Chairpersons: S. Amoretti, J.L. Cañavate, M. Velasco
16:25	Luca Mazzitelli (Carlo Erba Reagents) <i>Biology at true resolution with 107 Genomics.</i>
16:45	Francesca Galbiati (Charles River Laboratories) <i>Essential Tips for new Mouse Researchers.</i>
17:05	Cristina Spalletti Robotic Rehabilitation and neuromodulation after stroke novel approaches in a mouse model.
17:20	Valentina Cerrato The ontogenesis of astrocytes diversity: a remarkably orderly process necessary for the correct cerebellar development and functioning.
17:35	Matteo Pedrazzoli Glucocorticoid receptor modulation alters dendritic spine density and microglia activation in the hippocampus of 3xTg-AD mice.
	17:50-20:00: Poster Session 1 • Coffee break mini 1 BraYn Educational Workshop Session 1 (Conference Hall B)
17:50	Stefano Fiorina (AB Sciex) Metabolomics & Lipidomics.
18:40	Marilisa Marinelli, Claudio Comunian (Bio-Rad) Extracellular Vesicles in

Francesco Biancardi (Carl Zeiss) | Beyond the Computed Tomography: X-Ray

19:15

Microscopy in Life Science.

NOVEMBER 15th

Lecture | MARCO PRINZ Myeloid cell diversity in the central nervous system.

9:00

(Chairwoman: R.C. Paolicelli) SESSION 2 - NEUROINFLAMMATION • ORAL COMMUNICATIONS Chairpersons: S. Angiari, E. Volpe, A. Musella, I. Prada, S. Raffaele 9:30 Placido Illiano Astroglial TNFR2 regulates learning, memory and anxiety. 9:45 **Laura Brambilla** Real Time Quaking Induced Conversion assay as innovative tool to investigate neurodegeneration in Multiple Sclerosis. **Alessandro Leuti** Resolution of inflammation is impaired in multiple sclerosis 10:00 and entails a loss of pro-resolving features of monocytes/macrophages. BraYn Educational Symposia 2 Chairpersons: S. Amoretti, J.L. Cañavate, M. Velasco 10:15 **Angela Guerra Alvarez** (Biogen) | *Pioneering the future of Neuroscience.* **Zsolt Iván** (Femtonics) | *Outstanding benefits of breakthrough innovations* 10:35 of 3D Acousto-Optic technology in Neuroscience. **Valentina Serpieri** Agenesis of the putamen and globus pallidus caused by 10:50 recessive mutations in the homeobox gene GSX2. 11:05 **Matteo Carlo Kaleva Ciccarese** *Role of lipid mediators in the aging process.* 11:20 Morris Losurdo Preconditioned Bone Marrow Mesenchymal Stem Cellderived Extracellular Vesicles Exert Immunomodulatory Effects in a model of Alzheimer's Disease. Workshop | CHIARA GABBI How to write a successful grant and/or a fellowship 11:35 application. (Chairwoman: M. Romeo) 12:00-14:00: Lunch box with Poster Session 2 BraYn Educational Workshop Session 2 (Conference Hall B) 12:00 Elisa Zuffi (Miltenyi Biotec) | Novel approach to study adult neural cells in vitro. Pietro Veglianese (Beckman Coulter) | Modulation of microglial cells by drug-13:00 nanovectors in spinal cord injury. **Paola Marcon** (Biogen) | *The long journey: from the bench to the bedside.* 13:30 14:00 Lecture | ROSSELLA GALLI Leveraging brain tumor stem cells for disease modeling and therapy improvement. (Chairwoman: B. Bettegazzi)

SESSION 3 - NEURO-ONCOLOGY • ORAL COMMUNICATIONS

Chairpersons: G. D'Alessandro, M. Tamborini, R. Azzarelli

- **14:30** Massimiliano Del Bene Clinical Significance of Extracellular Vesicles in Plasma from Glioblastoma Patients.
- **14:45** Paola Infante Oncogenic role of the aminopeptidase ERAP1 in Hedgehog-dependent cancer.
- **15:00 Silvia Valtorta** *Combined Positron Emission Tomography imaging approach for identification of new potential biomarkers for treatment response in glioma models.*

BraYn Educational Symposium 3

Chairpersons: S. Amoretti, J.L. Cañavate, M. Velasco

- **15:15** Philippe Trochet (Fujifilm VisualSonics) | See the Whole Mouse Brain in vivo and in Real-time
- **15:30 Prospero Civita** *Towards a 3D all human in vitro model of glioblastoma multiforme for drug screening: glioblastoma and astrocyte interactions?*
- **15:45** Carmela Serpe Microglia-Derived Microvesicles Affect Microglia Phenotype in Glioma.
- **16:00** Elena Parmigiani Notch signaling controls glioma proliferation and shapes the tumor microenvironment.

16:15-18:30: Coffee break with **Poster Session 3** "Lost in the Protocol" session

18:30 Lecture | **PIERRE GRESSENS** *Neuroinflammation and encephalopathy of prematurity.* (Chairman: L. Ramenghi)

SESSION 4 - PERINATAL NEUROLOGY • ORAL COMMUNICATIONS (Supported by EuBrain)

Chairpersons: G. Ferrara, A. Carta, L. Ramenghi, M.S. Paladini

- **19:00 Eridan Rocha-Ferreira** *Repurpose of exendin-4 for the treatment of neonatal brain injury.*
- 19:15 Sara De Crescenzo Growth parameters and minor brain lesions in very low birth weight (VLBW) newborns as prognostic factors of negative neurodevelopmental outcome at two and three years of age.
- 19:30 Cristiana Pelorosso A novel double-hit mechanism involving different genes of the MTOR pathway in hemimegalencephaly with intractable childhood epilepsy.
- 20:30 BraYn Social Dinner

NOVEMBER 16th

9:00 Lecture | SONIA GAREL Microglia at the crossroads of cortical wiring and environmental signals. (Chairwoman: R.C. Paolicelli)

SESSION 5 - NEURODEGENERATION • ORAL COMMUNICATIONS Chairpersons: G. Nardo, B. Bettegazzi, M. Medelin, G. Zanetti 9:30 Bianca Barzaghini Therapeutic effect of neural progenitor cells expanded in the 3D nano-engineered Nichoid substrate in a Parkinson's disease preclinical model. 9:45 Morgane Rouault Incorporation of spatial mapping and confirmation of gene signatures by a multiplex in situ hybridization technology into single cell RNA sequencing workflows. Federica Campanelli Effects of chronic continuous theta-burst stimulation 10:00 (cTBS) on bidirectional striatal synaptic plasticity in a model of Parkinson's disease and L-Dopa- induced dyskinesia. 10:15 Loredana Leggio Astrocyte-derived extracellular vesicles and cell-to-cell communication in the nigrostriatal regions: implications for dopaminergic neuroprotection. BraYn Educational Symposia 4 Chairpersons: S. Amoretti, J.L. Cañavate, M. Velasco 10:30 Gennaro Pagano (Roche) | Translational medicine journey in neurodegeneration: focus on alpha-synuclein. Gianluca Rotta (BD Biosciences Italia) | Three intersections between flow 10:50 cytometry and multiple sclerosis. 11:10 Maria Velasco-Estevez Mechanosensation: a new horizon in the regulation of myelination? 11:25 **Cristiano Carlomagno** Raman spectroscopy as biochemical "fingerprint" of biofluids for the investigation of neurodegenerative diseases. Silvia Picciolini SPRi-based biosensor for the detection of circulating 11:40 extracellular vesicles as biomarkers of neurological diseases. 11:55 Ludovico Cantuti-Castelvetri Defective cholesterol clearance limits remyelination in the aged central nervous system. Lecture | GIACOMO RIZZOLATTI The mirror mechanism: a neural mechanism 12:10 for understanding others. (Chairman: G. Nardo) Closing Remarks • BraYn Awards (Best Oral and Poster Presentation and 12:40 BraYn Starting Grant)

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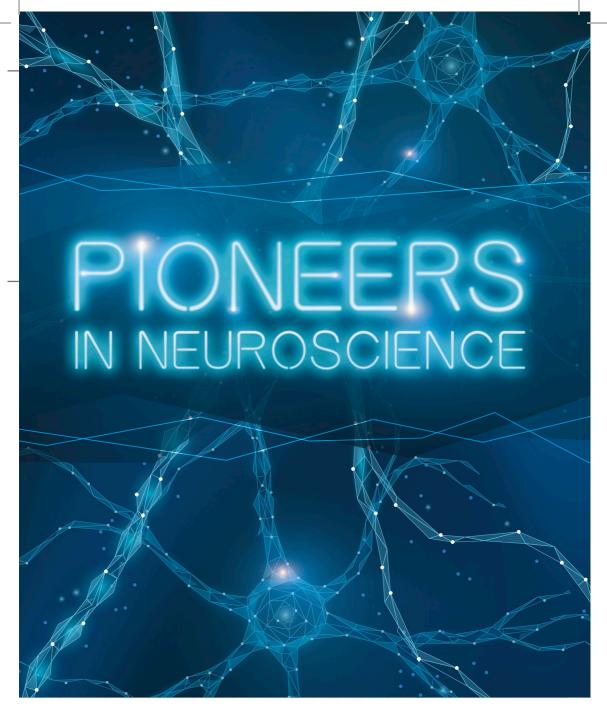






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