



25th **NOVEMBER**
26th **2020**
WEB CONFERENCE



3rd BRAINSTORMING RESEARCH ASSEMBLY
FOR YOUNG NEUROSCIENTISTS

ONLINE CONGRESS

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SCIENTIFIC COMMITTEE

Giovanni Ferrara	IRCCS San Martino Hospital, Genoa (Italy)
Stefano Angiari	Division of Immunology and Pathophysiology, Otto Loewi Research Center, Medical University of Graz (Austria)
Barbara Bettegazzi	San Raffaele Scientific Institute, Milan (Italy)
Enrica Boda	Neuroscience Institute «Cavalieri Ottolenghi», Dept. of Neuroscience, University of Turin (Italy)
Giovanna Calabrese	University of Messina (Italy)
Giuseppina D'Alessandro	«Sapienza» University of Rome (Italy)
Manuela Medelin	University of Verona (Italy)
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Giovanni Nardo	«Mario Negri» Institute, Milan (Italy)
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Rosa C. Paolicelli	University of Lausanne (Switzerland)
Matteo Tamborini	Humanitas Research Hospital, Rozzano (Italy)
Elisabetta Volpe	Santa Lucia Foundation Scientific Institute, Rome (Italy)

MENTORS

Maria Chiara Carrozza	Biorobotics Institute Scuola Superiore Sant'Anna, Pisa (Italy); Fondazione Don Carlo Gnocchi, Milan (Italy)
Antonino Cattaneo	Scuola Normale Superiore, Pisa (Italy); Rita Levi-Montalcini EBRI, Rome (Italy)
Giovanni Cioni	IRCCS Fondazione Stella Maris, Calambrone (Italy)
Luca Ramenghi	IRCCS «Giannina Gaslini» Institute Genoa (Italy)
Antonio Uccelli	IRCCS San Martino Hospital, Genoa (Italy)

INVITED SPEAKERS

Emiliano Biasini	Dipartimento di Biologia Cellulare, Computazionale e Integrata - CIBIO, Università di Trento (Italy)
Cesare Montecucco	CNR Neuroscience Institute Padova (Italy); Department of Biomedical Sciences, University of Padova (Italy)
Alessandra Pierani	Institute of Psychiatry and Neuroscience of Paris, Université Paris Descartes (France)
Lucas Schirmer	University of Heidelberg (Germany)
Manuel Valiente	Brain Metastasis Group, CNIO-Centro Nacional de Investigaciones Oncológicas, Madrid (Spain)

SCIENTIFIC SECRETARIAT

Jose Lifante Cañavate	Universidad Autónoma de Madrid (UAM), Madrid (Spain)
Valentina Petrosino	IRCCS San Martino Hospital, Genoa (Italy)
Margherita Romeo	Institute of Clinical Chemistry and Laboratory Diagnostic Medical Faculty, Heinrich Heine University and the IUF- Leibniz Research Institute for Environmental Medicine, Düsseldorf (Germany)
Maria Chiara Trolese	«Mario Negri» Institute, Milan (Italy)

ORGANIZING SECRETARIAT

Symposia Organizzazione Congressi Srl

Piazza Campetto 2/8 - 16123 Genova, Italy

tel. (+39) 010 25 51 46 • fax (+39) 0102770565 • www.symposiacongressi.com

Contact person **Alessandra Crippa** a.crippa@symposiacongressi.com, brayn@symposiacongressi.com

BRAYNIACS

Ganna Balagura	University of Genoa(Italy); IRCCS G. Gaslini Institute, Genoa (Italy)
Giulia D'Arrigo	SISSA, Trieste (Italy); Neuroscience Institute - National Research Council of Italy, Milan (Italy)
Mattia Di Paolo	University of l'Aquila (Italy)
Placido Illiano	University of Miami (USA)
Pellegrino Lippiello	University of Naples (Italy)
Samuele Negro	University of Padova (Italy)
Simona Paglia	University of Bologna (Italy)
Simona Schiavi	University of Verona (Italy)
Elisabetta Stanzani	Humanitas Research Hospital, Rozzano (Italy); Fondazione Umberto Veronesi, Milano (Italy)
Maria Velasco	Trinity College, Dublin (Ireland)

LOCAL ORGANIZING COMMITTEE

Eleonora Vannini	Neuroscience Institute - National Research Council of Italy, Pisa (Italy)
Stefano Amoretti	University of Pisa (Italy)
Gabriele Sansevero	Neuroscience Institute - National Research Council of Italy, Pisa (Italy); Fondazione Umberto Veronesi, Milan (Italy)
Elena Tantillo	Neuroscience Institute - National Research Council of Italy, Pisa (Italy)

Abstract submission opens **September 1st**.

Deadline **October 21th**

FREE REGISTRATION

Registration fee includes:

- Full access to the scientific program
- Certificate of attendance
- Electronic abstract book

NOVEMBER 25th

15:20 Opening ceremony | **Giovanni Ferrara**

15:45 **Marta Boccazzi** (Starting Grant 2019 Winner) (Chairmen: C. Cali)
The immune-inflammatory response of oligodendrocytes in a murine model of preterm white matter injury: the role of TLR3 activation.

16:00 Lecture | **LUCAS SCHIRMER** (Chairwoman: E. Volpe)
Multilineage vulnerability and reactivity in chronic neuroinflammation.

SESSION 1 • NEUROINFLAMMATION • ORAL COMMUNICATIONS

Chairpersons: S. Angiari, M. Campolo

16:20 **Simona Schiavi**
Non-invasive quantification of inflammation, axonal and myelin injury in multiple sclerosis.

16:35 **Giulia Cisbani**
Peripheral cytokine and fatty acid associations with neuroinflammation in AD and aMCI patients: An exploratory study.

BraYn Educational Symposia

Chairpersons: P. Illiano, G. D'Arrigo

16:50 **BraYn Educational Symposium 1 • Merck Serono**
Andrea Paolillo, *Merck heritage and commitment in the new MS era: past, present and future.*

17:10 **BraYn Educational Symposium 2 • Sanofi**
Francesca Sangalli (IRCCS Ospedale San Raffaele, Milano), *Innovation through patient needs: Bruton Tyrosine Kinase Inhibitor (BTKi) development journey.*

17:30 **Adriano Lama**
Converging mechanisms of palmitoylethanolamide on meta-inflammation and neuroinflammation: relief of anxiety-like behavior in obese mice.

17:45 **Carolina Nunes**
Cardiac drug amiodarone accumulation and neurotoxicity in the iPSC-derived human 3D model BrainSpheres.

SESSION 2 • NEURO-ONCOLOGY • ORAL COMMUNICATIONS

Chairpersons: G. D'Alessandro, M. Tamborini

18:00 **Giulia Pericoli**
Exosome-mediated inter-clonal interactions in pediatric GBM and DIPG.

BraYn Educational Symposia

Chairwomen: M. Velasco, E. Stanzani

18:15 **BraYn Educational Symposium 3 • Beckman Coulter**
Claudia Maria Radu (Università di Padova), *Extracellular vesicles as emerging biomarkers for diagnosis and therapy.*

18:35 **BraYn Educational Symposium 4 • Fujifilm VisualSonics**
Philippe Trochet, *See the Whole Mouse Brain in vivo and in Real-time.*

18:55 Elena Tantillo

Characterization of glioma microenvironment: effects of glioma growth on cortical activity.

19:10 Francesca Bufalieri

The RNA-Binding Ubiquitin Ligase MEX3A Affects Glioblastoma Tumorigenesis by Inducing Ubiquitylation and Degradation of RIG-I.

19:25 Lecture | **MANUEL VALIENTE** (Chairwoman: G. D'Alessandro)
Strategies to challenge an unmet clinical need.

20:00 Closing Remarks

NOVEMBER 26th

SESSION 3 • NEUROPHYSIOLOGY & NEURAL PLASTICITY • ORAL COMMUNICATIONS

Chairwomen: E. Boda, R.C. Paolicelli, G. Calabrese

9:30 Claudia Alia

Novel cell-based strategies to promote brain repair and motor function after stroke in mice.

9:45 Ajesh Jacob

"SynActive" - a genetic toolbox to study the proteome and connectome of learning and memory associated synapses.

BraYn Educational Symposia

Chairpersons: P. Lippiello, S. Paglia

10:00 BraYn Educational Symposium 5 • Miltenyi Biotec

Chloè Dominici (AMU, IBDM, Marseille), *3D analysis of neural network remodeling in pancreatic cancer.*

10:20 BraYn Educational Symposium 6 • Becton Dickinson

Daniela Carnevale (IRCCS Neuromed, Università Sapienza, Roma), *Neural regulation of immunity in cardiovascular diseases.*

10:40 Gabriele Nardi

Modelling focal cortical dysplasia by driving PTEN gene deletion with a novel Cre-amplifying reporter.

10:55 Giulia Nato

Astrocyte-generated neurons functionally integrate into the lesioned striatum.

11:10 Lecture | **ALESSANDRA PIERANI** (Chairwomen: E. Boda, R.C. Paolicelli, G. Calabrese)

Life and death of transient neurons in the maturation of functional and dysfunctional cortical circuits.

11:30 BraYn Educational Workshop • Vincenzo Di Ruocco (Beckman Coulter) (Chairman: G. Sansevero)

Innovation in Flow Cytometry: evolutions of the CytoFLEX platform.

11:45 Poster Session 1

13:05 Poster Session 2

SESSION 4 • PAEDIATRIC NEUROSCIENCE & PERINATAL NEUROLOGY • ORAL COMMUNICATIONS

Chairpersons: G. Balagura, L. Ramenghi

14:30 Luigi Balasco

Sensory abnormalities in Cntnap2-deficient mice, a genetic model of autism spectrum disorders.

14:45 Roberta De Rosa

A novel role of CDKL5 at inhibitory synapses and a possible therapeutic strategy for CDKL5-related defects.

SESSION 5 • NEURODEGENERATION • ORAL COMMUNICATIONS

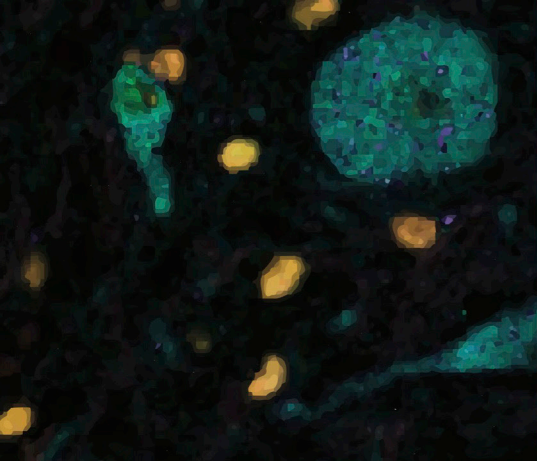
Chairpersons: G. Nardo, B. Bettegazzi, M. Medelin

- 15:00** Lecture | **EMILIANO BIASINI** (Chairman: G. Nardo)
Targeting Protein Folding Intermediates in Neurodegenerative Diseases.
- 15:20** **Alessandro Falconieri**
Axonal regeneration and magnetic nanoparticles: a new scenario in regenerative medicine?
- 15:35** **Ambra Del Grosso**
Brain-targeted polymeric nanoparticles: A breach through the blood-brain barrier for enzyme replacement therapy in Krabbe disease.
- 15:50** **Marco Stazi**
Melatonin promotes regeneration of injured motor axons via MT1 receptors.

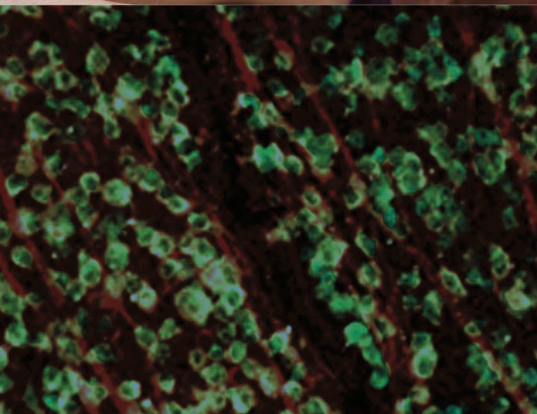
BraYn Educational Symposia

Chairpersons: M. Di Paolo, S. Schiavi

- 16:05** **BraYn Educational Symposium 7 • Biogen**
Amalia Cecilia Bruni (Centro Regionale di Neurogenetica, Lamezia Terme), *Alzheimer: from gene's discovery to the first therapeutic chance.*
- 16:25** **BraYn Educational Symposium 8 • PerkinElmer**
Mara Colzani, *A journey into neuroscience: how can PerkinElmer support your research?*
- 16:45** **Rebecca Piccarducci**
Red blood cells α -synuclein heteroaggregates in Alzheimer's Disease and Lewy Body Dementia patients.
- 17:00** **Samuele Negro**
Hydrogen peroxide: a key signal in nerve regeneration?
- 17:15** **Serenella Anzilotti**
Maintenance of NCX1 and NCX2 activation in a mouse model of familiar ALS prevents misfolded SOD1 accumulation, reduces neuroinflammation, ameliorates motor behavior and prolongs survival rate.
- 17:30** Lecture | **CESARE MONTECUCCO** (Chairmen: S. Angiari, S. Negro)
Neurodegeneration and Neuroregeneration in the Peripheral Nervous System.
- 18:00** Closing Remarks • BraYn Awards (Best Oral and Poster Presentation and BraYn Starting Grant)
(Chairpersons: E. Vannini, I. Gallo, V. Chiurchiù, N. Iraci, C. Calì.)



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