

SCIENTIFIC COMMITTEE

Giovanni Ferrara University of Genoa (Italy)
Alessandra Aldinucci University of Florence (Italy)
Stefano Angiari Trinity College, Dublin (Ireland)
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Giovanna Calabrese University of Catania (Italy)
Giuseppina D'Alessandro «Sapienza» University of Rome (Italy)
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Matteo Tamborini Italian National Research Council, Milan (Italy),
Humanitas Research Hospital, Rozzano (Italy)
Elisabetta Volpe Santa Lucia Foundation Scientific Institute, Rome (Italy)

MENTORS

Giambattista Bonanno University of Genoa (Italy)
Nicole Kerlero de Rosbo University of Genoa (Italy)
Antonio Uccelli IRCCS San Martino Hospital, Genoa (Italy)

INVITED SPEAKERS

Matthew Campbell Smurfit Institute of Genetics, Trinity College, Dublin (Ireland)
Marco Ferrazzoli Italian National Research Council, Rome (Italy)
Nunzio Iraci BIOMETEC University of Catania (Italy)
Rosa C. Paolicelli IREM – University of Zurich, Zurich (Switzerland)

SCIENTIFIC SECRETARIAT

Jose Lifante Cañavate University of Genoa (Italy)
Valentina Petrosino University of Genoa (Italy)
Margherita Romeo «Mario Negri» Institute, Milan (Italy)

ORGANIZING SECRETARIAT

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ADMINISTRATIVE SECRETARIAT

S.S. Formazione e Comunicazione
Elisabetta Rovini, IRCCS San Martino Hospital, Genoa (Italy)

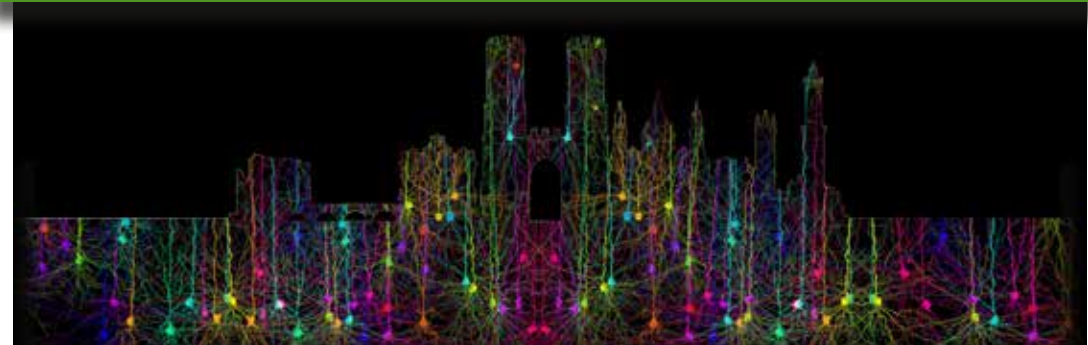
Congress Venue: Ospedale Policlinico San Martino - Auditorium IST Nord
Largo Rosanna Benzi 10, Genoa, Italy.



29th
30th
JUNE 2018
GENOA · ITALY



1st BRAINSTORMING RESEARCH ASSEMBLY
FOR YOUNG NEUROSCIENTISTS



Ospedale Policlinico San Martino - Auditorium IST Nord
Largo Rosanna Benzi 10, Genoa, Italy



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JUNE 29th

- 14:00 Registration
- 15:25 Opening Ceremony
- 15:30 **Lectio magistralis | Marco Ferrazzoli** (CNR, Rome)
The lay scientist: scientific knowledge has become an opinion.
Chairman: Elisabetta Volpe
- 16:00 **Lecture | Rosa C. Paolicelli** (IREM, Zurich)
Microglia-mediated synapse loss in neurodegeneration.
Chairmen: Giuseppina D'Alessandro and Matteo Tamborini
- 16:30 **Lecture | Matthew Campbell** (Trinity College, Dublin)
Regulation of the blood-brain barrier in health and neurodegenerative disease. *Chairman: Stefano Angiari*
- 17:00 Coffee break and POSTER SESSION 1
- Session I - Neurodegeneration • ORAL COMMUNICATIONS**
Chairmen: Manuela Medelin, Barbara Bettegazzi, Giovanni Nardo, Giulia Santamaria
- 18:15 **Eoin O'Keefe** (Trinity College, Dublin) | *Dynamic blood brain barrier regulation in sub-concussive brain injuries.*
- 18:30 **Samuele Negro** (Biomed. Sci. Dept., UniPD) | *CXCL12/SDF-1 from perisynaptic Schwann cells promotes regeneration after motor axon terminal injury.*
- 18:45 **Marina Boido** (NICO, UniTO) | *Increasing agrin function antagonizes muscle atrophy and motor impairment in a murine model of SMA.*
- 19:00 **Irma Vismara** (IRCCS, M. Negri) | *Mesenchymal stem cells encapsulated into biomimetic hydrogel scaffold gradually release CCL2 chemokine in situ preserving cytoarchitecture and promoting functional recovery in spinal cord injury.*
- 19:15 **Natalie Hudson** (Trinity College, Dublin) | *Circadian regulation of the inner retinal vasculature; a paradigm for Geographic Atrophy development.*
- 19:30 **Deborah Ferrara** (CIBIO, UniTN) | *RNA-mediated intercellular miscommunication: role of extracellular vesicle cargos in Amyotrophic Lateral Sclerosis.*
- 19:45 Closing remarks
- 20:30 Social Dinner at Castello Simon Boccanegra (walking distance 50 mt).

JUNE 30th

- 8:55 Opening
- Session II - Neuroinflammation • ORAL COMMUNICATIONS**
Chairmen: Ilaria Prada, Alessandra Musella, Elisabetta Volpe, Stefano Angiari, Maria Velasco
- 9:00 **Valerio Chiurchiù** (IRCCS S. Lucia, UniRM) | *Pro-resolving lipid mediators and neuroinflammation: a novel strategy of resolution.*
- 9:15 **Giovanna Capodivento** (DINOEMI, UniGE) | *CSF Sphingomyelin concentration: a myelin biomarker for acquired demyelinating neuropathies.*
- 9:30 **Nicola Mattugini** (BMC-LMU, Germany) | *Region- and layer-specific differences in astrocytes reprogramming to neurons after brain injury.*
- 9:45 **Maria Rosito** (Kocher Inst. UniBE - IIT, Rome) | *A silicon nanomembrane-based in vitro platform to visualize immune cell trafficking across the live human blood-brain barrier.*
- 10:00 Coffee break and POSTER SESSION 2
- 11:00 **Lecture | Nunzio Iraci** (BIOMETEC, University of Catania).
Extracellular vesicles as a novel strategy of cell-to-cell communication. *Chairman: Giovanna Calabrese*
- Session III - Neural Plasticity • ORAL COMMUNICATIONS**
Chairmen: Giovanni Calabrese, Alessandra Aldinucci, Giulia Nato
- 11:30 **Corrado Calì** (BESE, Thuwal) | *Neuroanatomical basis of Energy-Dependent synaptic plasticity investigated using virtual reality tools.*
- 11:45 **Matteo Spinelli** (IHPH UniCat, Rome) | *Brain insulin resistance impairs hippocampal synaptic plasticity and memory by increasing GluA1 palmitoylation through FoxO3a.*
- 12:00 **Antonio Falace** (Meyer Hospital, Florence) | *Filamin-A regulates morphological development and functional maturation of the cortical networks by modulating the ARHGAP24/RAC1 pathway.*
- 12:15 **Brunno Rocha Levone** (UniCol. Cork) | *Specific sub-regions along the longitudinal axis of the hippocampus mediate chronic stress effects on behaviour and corticosterone effects on neurogenesis.*

JUNE 30th

12:30 Lunch box with Sponsor Symposium

- **Gianluca Rotta** (BD Biosciences Italia) | *A new protocol for the detection and absolute count of microvesicles in untouched body fluids.*
- **Enrico Gherzi** (Miltenyi Biotec) | *Improving scientific reproducibility through REAfinity recombinant antibodies.*
- **Diego Muzzini** (Carlo Erba Reagents) | *10x Genomics: Changing the definition of sequencing.*

14:00 Coffee break and POSTER SESSION 3

15:30 Sponsor Symposium

- **Francesco Moneta** (Bruker) | *Preclinical imaging solutions.*
- **Savino Lacerenza** (Fujifilm) | *High Frequency Ultrasound and Photoacoustic imaging for Small Animals.*
- **Paolo Boschi** (ZEISS) | *Microscopy Widefield Product Manager: 3D Volume Microscopy in Neuroscience.*
- **T. Claudio Bencivenga** (Sartorius Group) | *IncuCyte S3: Live-cell analysis System.*

Session IV - Neuro-Oncology • ORAL COMMUNICATIONS

Chairmen: Giuseppina D'Alessandro, Matteo Tamborini, Paola Infante

16:30 **Eleonora Vannini** (CNR, Pisa) | *Halting glioma growth and sparing neuronal function via Rho GTPase activation.*

16:45 **Marta Vuozzo** (IBFM-CNR, Segrate MI) | *Translational study of hypoxia with [18F]FAZA-PET imaging in high-grade glioma: comparison with MRI and immunohistochemical biomarkers.*

17:00 **Francesco Alessandrini** (IRCCS San Martino Hospital, Genoa) | *IL-12 armed retargeted herpes simplex virus as therapy for preclinical model of high-grade glioma.*

17:30 Round table with invited Discussants

Giambattista Bonanno, Matthew Campbell, Marco Ferrazzoli, Nunzio Iraci, Nicole Kerlero de Rosbo, Rosa C. Paolicelli, Antonio Uccelli.

Translation of animal models to clinic: the new way forward.

18:30 **BRAYN Awards Ceremony**

18:40 **Closing Ceremony**

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