



# TORINO 2025

OCTOBER 29 • 30 • 31, 2025

## PRELIMINARY SCIENTIFIC PROGRAM

Last update May 07, 2025

**8<sup>th</sup>** BRAINSTORMING RESEARCH ASSEMBLY  
FOR YOUNG NEUROSCIENTISTS

**AULA MAGNA “GIOVANNI AGNELLI”**  
**POLITECNICO DI TORINO • C.SO DUCA DEGLI ABRUZZI 24**

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Medical University of Graz (Austria)

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University of Messina (Italy)

Department of Neurosciences, Biomedicine and Movement  
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(Italy)

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Dep. of Biomedical Sciences, University of Lausanne (Switzerland)

Axxam SpA, Bresso, Milan (Italy)

Humanitas University, Rozzano (Italy)

University of Genoa (Italy)

Italian National Research Council, Milan (Italy); Humanitas  
Research Hospital, Rozzano (Italy)

## MENTORS

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<b>Martin Chalfie</b>	Department of Biological Sciences, Columbia University, New York (USA)
<b>Monica M.G. Diluca</b>	University of Milan (Italy)
<b>Michela Fagiolini</b>	CNR Istituto di Neuroscienze (Italy); Boston Children's Hospital Harvard Medical School (USA)
<b>Michela Matteoli</b>	Humanitas University, Rozzano (Italy)
<b>Thomas C. Südhof</b>	Nobel Laureate • Department of Molecular and Cellular Physiology, Howard Hughes Medical Institute, Stanford University School of Medicine (USA)
<b>Antonio Uccelli</b>	IRCCS San Martino Hospital, Genoa (Italy)

## INVITED SPEAKERS

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<b>Burkhard Becher</b>	Institute of Experimental Immunology, Universität Zürich (Switzerland)
<b>Benjamin Deneen</b>	Baylor College of Medicine, Houston, Texas (USA)
<b>Michael Heneka</b>	LCSB – Luxembourg Centre for Systems Biomedicine, The University of Luxembourg (Luxembourg)
<b>Simona Lodato</b>	Humanitas University, Rozzano (Italy)
<b>Edvard Ingjald Moser</b>	Kavli Institute for Systems Neuroscience, Norwegian University of Science and Technology (Norway)
<b>Marzia Munafò</b>	European Molecular Biology Laboratory (EMBL), Rome (Italy)
<b>Gaia Olivo</b>	Psykologiska Institutionen, Göteborgs Universitet (Sweden)
<b>Tommaso Pizzorusso</b>	Scuola Normale Superiore, Pisa (Italy)

## BRAYNIACS

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<b>Federica Anastasi</b>	BarcelonaBeta, Brain Research Center (BBRC) (Spain)
<b>Ingrid Battistella</b>	Department of Cellular, Computational & Integrative Biology, Università degli studi di Trento (Italy)
<b>Elisabetta Battocchio</b>	Neuroscience Institute - National Research Council of Italy, Milan (Italy)
<b>Alessandro Bombaci</b>	IRCSS Policlinico San Donato, San Donato Milanese (Italy); Vita-Salute San Raffaele University, Milan (Italy)
<b>Sveva Bonomi</b>	Department of Science and High Technology, University of Insubria, Busto Arsizio, Varese (Italy); Escuela de Doctorado, Universidad Católica de Valencia, San Vicente Mártir (Spain)

**Giulia Borgonovo**

**Marta Bottero**

**Elena Cerutti**

**Ludovica Iovino**

**Umberto Manera**

**Noemi Marino**

**Elisabetta Mori**

**Samuele Negro**

**Gabriele Sansevero**

**Erica Tagliatti**

Scuola Normale Superiore (Italy)

Department of Molecular Medicine, «Sapienza»  
University of Rome (Italy)

IRCCS San Martino Hospital, Genoa (Italy)

Neuroscience Institute, National Research Council, Pisa (Italy)

“Rita Levi Montalcini” Department of Neuroscience,  
University of Turin (Italy)

Istituto Romagnolo per lo Studio dei Tumori (IRST) and Univer-  
sity of Bologna (Italy)

Scuola Normale Superiore, Pisa (Italy)

University of Padova (Italy)

Neuroscience Institute - National Research Council of Italy,  
Pisa (Italy)

IRCCS Humanitas Research Hospital, Rozzano (Italy);  
University College London, London (UK)

## INTERNATIONAL BRAYNIACS

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**Pablo Blanco**

CNIO, Madrid (Spain)

**Fionä Caratis**

Medical University of Gdańsk (Poland)

**Rina Demjaha**

Medical University of Graz (Austria)

**Marta Ibáñez Navarro**

CNIO, Madrid (Spain)

**Antonio Masone**

Taub Institute - Columbia University (USA)

**Paola Pacifico**

Feinberg School of Medicine, Northwestern University,  
Chicago (USA)

**Leire Pedrosa Eguílaz**

Hospital Clínic de Barcelona (Spain)

**Aleksandra Rutkowska**

Medical University of Gdańsk (Poland)

**Maria Velasco**

CNIO, Madrid (Spain)

## STARTING GRANT COMMITTEE

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**Corrado Calì**

Department of Neuroscience, University of Torino (Italy)

**Myriam Catalano**

«Sapienza» University of Rome (Italy)

**Valerio Chiurchiù**

CNR and IRCCS Santa Lucia Foundation, Rome (Italy)

**Paola Infante**

«Sapienza» University of Rome (Italy)

**Nunzio Iraci**

Dept. BIOMETEC, University of Catania (Italy)

## LOCAL ORGANIZING COMMITTEE

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<b>Valentina Agostini</b>	Biomedical Engineering Lab, Dipartimento di Elettronica e Telecomunicazioni, Politecnico di Torino (Italy)
<b>Enrica Boda</b>	Dept. of Neuroscience “Rita Levi Montalcini”, University of Turin (Italy)
<b>Sara Bonzano</b>	Dept. of Life Sciences and Systems Biology (DBIOS), University of Turin (Italy)
<b>Alberto Botter</b>	Biomedical Engineering Lab, Dipartimento di Elettronica e Telecomunicazioni, Politecnico di Torino (Italy)
<b>Serena Bovetti</b>	Dept. of Life Sciences and Systems Biology (DBIOS), University of Turin (Italy)
<b>Valentina Cerrato</b>	Dept. of Neuroscience “Rita Levi Montalcini”, University of Turin (Italy)
<b>Francesco Ferrini</b>	Dept. of Veterinary Sciences, University of Turin (Italy)
<b>Umberto Manera</b>	Dept. of Neuroscience “Rita Levi Montalcini”, University of Turin (Italy)
<b>Marilena Marraudino</b>	Dept. of Neuroscience “Rita Levi Montalcini”, University of Turin (Italy)
<b>Letizia Marvaldi</b>	Dept. of Neuroscience “Rita Levi Montalcini”, University of Turin (Italy)
<b>Kristen M. Meiburger</b>	Biomedical Engineering Lab, Dipartimento di Elettronica e Telecomunicazioni, Politecnico di Torino (Italy)
<b>Chiara Tonda Turo</b>	Department of Mechanical and Aerospace Engineering (DIMEAS), Politecnico di Torino (Italy)
<b>Stefano Zucca</b>	Dept. of Life Sciences and Systems Biology (DBIOS), University of Turin (Italy)

## BRAYN NEWS AND SOCIAL TEAM

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<b>Ingrid Battistella</b>	Department of Cellular, Computational and Integrative Biology, Università degli studi di Trento (Italy)
<b>Sveva Bonomi</b>	Department of Science and High Technology, University of Insubria, Via Manara 7, 21052, Busto Arsizio, Varese (Italy); Escuela de Doctorado, Universidad Católica de Valencia, San Vicente Mártir, (Spain)
<b>Marco Cambiaghi</b>	Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona (Italy)
<b>Samuele Negro</b>	University of Padova (Italy)

## ORGANIZING SECRETARIAT

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### **Symposia Organizzazione Congressi Srl**

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# BRAYN SCIENTIFIC SESSIONS

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**NEUROIMAGING & CLINICAL NEUROLOGY** is a comprehensive scientific session exploring the intersection of advanced neuroimaging techniques and clinical neurology applications. This session delves into the utilization of various neuroimaging methodologies to probe the structure, function, and physiology of the nervous system, alongside the translational aspects of clinical neurology. The session covers two primary neuroimaging approaches: structural imaging, which aids in the diagnosis of large-scale intracranial diseases and injuries, and functional imaging, crucial for diagnosing metabolic diseases like Alzheimer's and facilitating neurological and cognitive psychology research. Techniques such as Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Electroencephalography (EEG), and Positron Emission Tomography (PET) will be discussed in the context of their applications alone or in combination to investigate neurological diseases. Moreover, the session emphasizes the integration of neuroscience data and basic research with clinical neurology to enhance understanding and treatment of nervous system disorders.

**NEUROINFLAMMATION** is a scientific session focused on exploring the mechanisms the inflammatory response initiated in the central nervous system (CNS) by resident cells or triggered by infiltrating immune cells, which causes the neuronal dysfunctions observed in inflammatory and neurodegenerative disease of the CNS. The NI session mainly focuses on basic and clinical research in multiple sclerosis (MS), Neuromyelitis Optica Spectrum Disorder (NMOSD) and other inflammatory diseases of the CNS that have a significant impact on the lives of young adults. Although the scientific discoveries of recent decades have improved the therapeutic approaches used for the treatment of such pathologies, many questions still remain unanswered. The NI session aims to discuss the basic pathogenic mechanisms governing CNS inflammation, the role of immune system in CNS autoimmunity, and the importance of genetic and environmental factors in the development of neuroinflammatory diseases, with a patient-centered focus.

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**NEURODEGENERATION** is a scientific session focused on key aspects of a large number of diseases characterized by progressive damage of the nervous system that leads to irreversible neuronal death. The ND session will update on the more recent advances in the field. Specifically, the session will mainly focus on Parkinson's disease (PD), a slowly progressive syndrome that begins insidiously, gradually worsens in severity, and usually affects one side of the body before spreading to involve the other side, and Alzheimer's disease (AD), the most common type of dementia and an irreversible, neurodegenerative and progressive central nervous system disorder that slowly destroys memory and thinking skills, and, eventually, other mental abilities. Other neurodegenerative diseases, such as tauopathies, narcolepsy, depression and psychiatric disorders, will be also discussed in this session.


**NEURO-ONCOLOGY** session will cover the field of investigation that studies nervous system tumors. As many of brain tumors can cause severe nervous system damage, neuro-oncology represents a trending research area in neuroscience, which may identify the molecular mechanisms involved in tumor pathogenesis. This session will also discuss the development of novel therapeutic approaches for the treatment of life-threatening diseases such as glioma, and medulloblastoma.

**NEUROPHYSIOLOGY & NEURAL PLASTICITY** session will cover the molecular mechanisms underlying the function of the nervous system and the capacity of the nervous system to modify itself, functionally and structurally, in response to experience and injury. All levels of function and plasticity changes will be discussed, from receptors and cellular physiology to systems and behaviour. This session will delve into approaches such as molecular and cellular neurobiology, functional neuroanatomy, neurochemistry, neuropharmacology, electrophysiology, and behavioural analysis, in both in-vivo, ex-vivo and in-vitro models in invertebrate or vertebrate species, including humans.



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**NEURODEVELOPMENT** session will cover the mechanisms and the genetics underlying human and animal brain development in health and disease. This session will focus on neurodevelopmental disorders, including autism spectrum disorder, intellectual disability, and epilepsy. The session will also discuss about the contribution of both genetic and environmental factors, as well as the role of neuronal and non-neuronal cells in the etiopathology of these disorders. This session will delve into the genetics and the molecular and cellular neurobiology underlying brain development. In this session we will also discuss on the implementation of novel therapeutic strategies to tackle neurodevelopmental disorders.



# 29 OCTOBER • Day 1

- 10:00 Registration
- 11:00 Opening Ceremony • **Giovanni Ferrara**

## BRAYN STARTING GRANT SESSION

Chairpersons

- 11:15 **Veronica Ceci** (Starting Grant 2024 Winner)  
*Specialized pro-resolving lipid mediators modulate choroid plexus inflammatory activity.*
- 11:30 **Alessandra Martello** (Starting Grant 2024 Winner)  
*Neural and Cardiac Dysfunctions in a Parkinson's Mouse Model.*
- 11:45 Lectio Magistralis | **Edvard Ingjald Moser**

- 12:45 Lunch Box with Poster Session 1

## SESSION 1 • NEURODEVELOPMENT ORAL COMMUNICATIONS

Chairpersons

- 14:45 (oral communication)
- 14:30 (oral communication)
- 14:45 (oral communication)
- 15:00 BraYn Educational Symposium
- 15:15 SpeedTalk
- 15:20 SpeedTalk
- 15:25 SpeedTalk

## SESSION 2 • NEUROINFLAMMATION ORAL COMMUNICATIONS

Chairpersons

**15:30** Lecture | **Burkhard Becher**

**16:00** *(oral communication)*

**16:15** *(oral communication)*

**16:30** BraYn Educational Symposium

**16:45** BraYn Educational Symposium

**17:00** *(oral communication)*

**17:15** *(oral communication)*

**17:30** SpeedTalk

**17:35** SpeedTalk

**17:40** SpeedTalk

**17:45** SpeedTalk

**17:50** SpeedTalk

**17:55** Closing remarks

# 30 OCTOBER • Day 2

## SESSION 3 • NEURODEGENERATION ORAL COMMUNICATIONS

Chairpersons

**9:00** (oral communication)

**9:15** (oral communication)

**9:30** (oral communication)

**9:45** (oral communication)

**10:00** (oral communication)

**10:15** (oral communication)

**10:30** (oral communication)

**10:45** BraYn Educational Symposium

**11:00** Lecture | **Michael Heneka**

**11:30** SpeedTalk

**12:00** SpeedTalk

**12:05** SpeedTalk

**12:10** SpeedTalk

**12:15** Techincal Talk (30 min) | **Marzia Munafò**

**12:45** Lunch Box with Poster Session 2

**SESSION 4 • NEURO-ONCOLOGY  
ORAL COMMUNICATIONS**

Chairpersons

**14:45**    Lecture | **Benjamin Deneen**

**15:15**    *(oral communication)*

**15:30**    *(oral communication)*

**15:45**    BraYn Educational Symposium

**16:15**    *(oral communication)*

**16:30**    *(oral communication)*

**16:45**    BraYn Educational Symposium

**17:15**    SpeedTalk

**17:20**    SpeedTalk

**17:25**    SpeedTalk

**17:30**    SpeedTalk

**17:35**    SpeedTalk

**17:40**    Closing remarks

# 31 OCTOBER • Day 3

## SESSION 5 • NEUROIMAGING & CLINICAL NEUROLOGY ORAL COMMUNICATIONS

Chairpersons

**9:30** (oral communication)

**9:45** (oral communication)

**10:00** (oral communication)

**10:15** Lecture | **Gaia Olivo**

**10:45** SpeedTalk

**10:50** SpeedTalk

**10:55** SpeedTalk

**11:00** BraYn Educational Symposium

**11:45** Poster Session 3 with Lunch Box

**SESSION 6 • NEUROPHYSIOLOGY & NEURAL PLASTICITY**  
**ORAL COMMUNICATIONS**

Chairpersons

**13:30** Lecture | **Tommaso Pizzorusso**

**14:00** *(oral communication)*

**14:15** *(oral communication)*

**14:30** *(oral communication)*

**14:45** *(oral communication)*

**15:00** BraYn Educational Symposium

**15:15** SpeedTalk

**15:20** SpeedTalk

**15:25** SpeedTalk

**15:30** SpeedTalk

**16:00** SpeedTalk

**16:05** Closing remarks & BraYn Awards

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