

SNN2025 Conference

**The Annual National Neuroscience Society of Romania (SNN) Conference
with international participation**

Date: 29 - 31 May, 2025

Venue: Braşov, România

**ICDT, Research and Development Institute, Building L2, Transylvania University of
Braşov (<https://icdt.unitbv.ro/en/>)**

EBRAINS-Italy Brain Simulation Training Workshop (27 - 29 May, 2025)

is organized as a *joint meeting* with the **SNN2025 Conference**

<https://conf.snn.ro/>

Confirmed International Speakers

Hannah Monyer – [Department of Clinical Neurobiology, Heidelberg University Hospital, DKFZ
\(German Cancer Research Centre\)](#)

Kapil Bharti - Scientific Director, [National Eye Institute – NIH](#)

Jeffrey S. Diamond - Scientific Director, [National Institutes of Neurological Disease and Stroke - NIH](#).

Luca Leonardo Bologna - [Institute of Biophysics \(IBF\) of the Italian National Research Council \(CNR\)](#)

Michele Migliore - [SUNY Dept. of Neurology, Downstate Health Science University, Brooklyn,
USA](#) ; [Institute of Biophysics, National Research Council, Palermo, Italy](#)

Florin Amzica - [University of Montreal, Canada](#)

Mihai Moldovan - [Department of Neuroscience, University of Copenhagen](#)

Daniela Popa - [Institut de Biologie de l'École Normale, Paris, France](#)

Clément Léna - [Institut de Biologie de l'École Normale, Paris, France](#)

Andrei Ilie – [Newcastle Upon Tyne, UK](#)

Ioana Florentina Grigoraş - [Nuffield Department of Clinical Neurosciences, University of Oxford](#)

Mihai Stancu - [Faculty of Biology, Ludwig-Maximilians-Universität München](#)

SNN2025 Program

Thursday, 29 May 2025

14:00 - 17:00 Onsite registration and poster mounting

14:00 - 15:30 Workshop Session 1 - Stereotactic injection of tracer substances in mouse tectum
(location TBA).

15:30 - 16:50 Workshop Session 2 - Live imaging of cellular organelles in tissue culture.

17:00 – 17:30 Opening Ceremony

17:30 – 19:30 **Session 1** - Chair, Ana-Maria Zăgrean

Luca Leonardo Bologna (CNR-IBF, Palermo, Italy), *The EBRAINS-Italy Infrastructure ecosystem for Neuroscience Research*

Michele Migliore (CNR-IBF, Palermo, Italy), *Computational Modeling of neurons and networks: how it is done and how it can support experimental and clinical studies*

Andrei Ilie (James Cook University Hospital, Newcastle Upon Tyne, UK) - *Science 3.0*

Susan Wu (RWD Life Science, Sponsor Presentation) – *RWD Overall Solutions for Neuroscience Research*

19:45 – Welcome social event

Friday, 30 May 2025

8:30 – 9:00 Onsite registration and poster mounting

09:00 - 10:35 **Session 2** - Chair, Tudor Constantin Badea

Kapil Bharti (National Eye Institute, Maryland, USA) - *Developing Cell Therapy for age-related macular degeneration: from Bench to Bedside*

Raluca Pascalau (Transylvania University, Brasov, Romania) - *Gene expression profiles of human retinal ganglion cell types*

Mihai Stancu (Ludwig-Maximilians-Universität München, München, Germany) - *Trading speed for accuracy: the role of stress peptides at the giant synapse of the Calyx of Held*

Bernd Müller-Zülow (Miltenyi Biotec - Sponsor presentation) - *From Whole Organs to Spatial Biology – Total Tissue Characterization using Imaging Techniques*

10:35 - 10:50 Coffee break

10:50 – 12:40 **Session 3** - Chairs: Daniela Popa, Tibor Szilágyi

Hannah Monyer (Heidelberg University, Heidelberg, Germany) - *From inhibition to neurodegenerative diseases*

Daniela Popa (IBENS, Paris, France) - *The cerebellum: a new player in the emotional brain*

Clément Léna (IBENS, Paris, France) - *Taking breaks when acquiring a motor skill is not a lazy choice*

12:40 - 12:50 Coffee break

12:50 – 14:30 – **Session 4 - Young investigators blitz presentations** - Chairs: Violeta Ristoiu, Andrei Ilie (up to 5-min blitz oral presentation from participants registered for Poster & Blitz Presentation)

1. **Florian-Vintilă Armăşescu** (University of Bucharest, Bucharest, Romania) - *Mechanisms of NIR laser photobiomodulation: in vitro studies on primary sensory neurons and voltage-dependent Na⁺ channels*
2. **Alexandra Ciubotaru** (Alexandru Obregia Psychiatry Hospital, Bucharest, Romania) - *Towards general decision support systems in medicine*
3. **Constantin-Iulian Chiţă** (University of Central Lancashire, Lancashire, UK) - *Short-term face familiarity displays greater modulatory effects for neutral expressions than for emotional ones – Findings from a mixed behavioural-electrophysiological study*

4. **Claudia-Ioana Drăghici** (Horia Hulubei National Institute for Physics and Nuclear Engineering, Măgurele, Romania) - *The neuroprotective effect of naringenin on endothelial inflammation induced by lipopolysaccharide on a BBB microvasculature model*
5. **Edwin Humberto Hodelin Maynard** (Transylvania University, Research and Development Institute, Brasov, Romania) - *Mapping Brn3b+ Cell populations of the Superior Colliculus using Brn3bCre mice*
6. **Melania Magercu** (University of Bucharest, Bucharest, Romania) - *Investigating microglial migratory properties that underlie their accumulation in multiple sclerosis*
7. **Michael Bogdan Margineanu** (The Francis Crick Institute, London, UK) - *Metabolic lactate shuttle powers electrical activity of small cell lung cancer*
8. **Alexandra Mocanu** (University of Bucharest, Bucharest, Romania) – *EEG Microstates Reactivity during Social Imitation*
9. **Maria Alexandra Nuțu** (University of Bucharest, Bucharest, Romania) - *Fine Particles, Fine Damage: Cytotoxic and metabolic effects of Diesel nanoparticles on different cell components of the central nervous system*
10. **Adelina Paduraru** (University of Bucharest, Bucharest, Romania) - *Modulatory effects of Tumor suppressor candidate 5 on Transient Receptor Potential ion channels*
11. **Gisselle Fernandez Pena** (Transylvania University, Research and Development Institute, Brasov, Romania) - *Exploration of the specific role of RGC-32 gene in an Experimental Autoimmune Encephalomyelitis murine model.*
12. **Aloyma Veliz Perez** (Transylvania University, Research and Development Institute, Brasov, Romania) - *Analysis of Ret gene expression in retinal ganglion cells and their brain projections using Immunofluorescence in CFP-Reporter Mice*
13. **Diana Petre** (Transylvania University, Research and Development Institute, Brasov, Romania) - *Distribution of Retinal Ganglion Cells expressing Brn3b and Brn3c in the Area Centralis of the mouse retina and their axonal projections in the brain*
14. **Miruna Rascu** (University of Oxford, Oxford, UK) - *Transcranial Focused Ultrasound Stimulation of the Human Basolateral Amygdala Modulates Emotional Biases*
15. **Matei-Alexandru Stamate** (University of Bucharest, Bucharest, Romania) - *Attractiveness-Driven Bias in Cooperative Decision-Making: An ERP Study on Neural Signatures in Social Exchange*
16. **Matei Serban** (Carol Davila University of Medicine and Pharmacy, Bucharest, Romania) - *From Stability to Collapse: Rethinking Cognitive Decline as a Functional Transition in Brain Network Dynamics*

14:30 – 15:30 Lunch break

15:30 - 17:00 - **Poster & Networking Session**

17:00 - 19:00 **Session 5** - Chair, Beatrice Radu

Jeffrey S. Diamond (National Institute of Neurological Disorders and Stroke, Maryland, USA) - *Synaptic mechanisms in the retina that shape visual signaling at night*

Robert Haret (University Medical Center, Göttingen, Germany) - *Modelling Contrast Adaptation in Retinal Ganglion Cells*

George Oprea (University of Bucharest, Bucharest, Romania) – *TRPV1-TRPV2 interactions. Less than the sum of their parts.*

Dan Domocos (University of Bucharest, Bucharest, Romania) - *The effects of statins on temperature-gated Transient Receptor Potential ion channels*

Bogdan Amuzescu (University of Bucharest, Bucharest, Romania) - *Effects of hypothermia on brain serotonergic circuits – expression levels of serotonin transporter (SERT) and receptors 5-HT_{1A} and 5-HT_{2A}*

19:00 – 19:45 **SNN General Assembly**

Saturday, 31 May 2025

09:00 – 11:15 **Session 6** – Chair, *Mihai Moldovan*

Mihai Moldovan (Copenhagen Univ., Copenhagen, Denmark) - *To burst or not to burst – an EEG reactivity model*

Florin Amzica (University of Montreal, Montreal, Canada) - *Coma: How deep can it get?*

Beatrice Radu (University of Bucharest, Bucharest, Romania) - *X-rays or protons? Unraveling their impact on brain microvascular cells for smarter brain cancer therapy*

Ioana Florentina Grigoras (University of Oxford, Oxford, UK) - *Non-invasive neuromodulation of deep brain circuits using a novel ultrasound stimulation system in healthy people*

Gabriela Marcu (Lucian Blaga University, Sibiu, Romania) - *The Role of ERP Components in Assessing Cognitive Control Dysfunctions in Adolescents with Complex Trauma*

11:15 – 11:30 Coffee break

11:30 – 14:00 **Session 7** – Chairs, *Bogdan Ovidiu Popescu, Aurel Popa*

Bogdan Ovidiu Popescu (Carol Davila University of Medicine and Pharmacy, Bucharest, Romania) – *Brain cleansing system and neurodegeneration*

Aurel Popa (Craiova University of Medicine and Pharmacy, Craiova, Romania) - *Post-stroke genetic conversion of astrocytes into new neurons. Facts and Fantasies*

Dirk Hermann (University Hospital Essen, Essen, Germany) - *Role of the extracellular matrix in regulating post-ischemic brain plasticity*

Daniel Pirici (Craiova University of Medicine and Pharmacy, Craiova, Romania) - *Aquaporin 4 facilitation decreases amyloid burden in a mouse model of Alzheimer's disease*

Lubomir Traikov (Medical University-Sofia, Faculty of Medicine, Dept. Medical Physics and Biophysics, Sofia, Bulgaria) - *Complex neuro-biophysical approach for simultaneous investigation of neuronal-electrical activity and structural-functional changes in the area of the Caudate Putamen of the rat brain – in an animal model of Parkinsonian disease in vivo.*

14:00 – 14:30 **Concluding remarks, Awards, and Closing Ceremony**

Poster only

1. **Andrei Bordeianu** (Carol Davila University of Medicine and Pharmacy, Bucharest, Romania) - *Heart Rate Variability Under Conditions of Intermittent Photic Stimulation in Anesthetized Rats*
2. **Ana Maria Catrina** (Cantacuzino National Military Medical Institute for Research and Development, Bucharest, Romania) - *Preparation and Assessment of Primary Microglia Isolated from Mixed Glia Cell Culture of Newborn Rat Pups*

3. **Cristian Ciotei** (Carol Davila University of Medicine and Pharmacy, Bucharest, Romania) - *The Probiotic Usage Potential to Alleviate Depressive Behavioural Features and Anxiety in an Animal Model of Gestational Antibiotic Exposure*
4. **Vlad-Petru Moroza**n (Carol Davila University of Medicine and Pharmacy, Bucharest, Romania) - *Antibiotic exposure during gestation increases perinatal asphyxia severity in rodents*
5. **Vladimir Muzyka** (Transylvania University of Brasov, Research and Development Institute, Brasov, Romania) - *Neural sub-cellular localization of TUSC5/TRARG1 protein in TUSC5eGFP novel mouse line*
6. **Davide Ortolan** (National Eye Institute, Maryland, USA) - *Determination of non-stochastic changes of RPE organelles during cell polarization using volumetric image analysis*
7. **Ruchi Sharma** (National Eye Institute, Maryland, USA) - *Region specific iPSC-Retinal Pigment Epithelium Models Reveal Differential Sensitivity to AMD*
8. **Gontea Adina Teodora** (Transylvania University of Brasov, Research and Development Institute, Brasov, Romania) - *Retina-specific ablation of the transcription factor Pou4f1/Brn3a does not significantly impact Ipsi vs. Contralateral projection of Retinal Ganglion Cells in mice*
9. **Laurentiu Tofan** (Carol Davila University of Medicine and Pharmacy, Bucharest, Romania) - *Multimodal analysis of the networks involved in producing visual symptoms*
10. **Stefan-Alexandru Tirlea** (Carol Davila University of Medicine and Pharmacy, Bucharest, Romania) - *Democratizing Sleep Research: A Cost-Effective System for Long-Term Rodent Monitoring*
11. **Florin Zamfirache** (University of Bucharest, Romania) - *Frontal transcranial direct current stimulation in moderate to severe depression: Clinical and neurophysiological findings from a pilot study*