

6th Edition of Global Experts Meeting on

FRONTIERS IN NEUROSCIENCES



Jun 18-19, 2026



Prague, Czech Republic



 <https://neurosciences-research.org/>

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Meeting Hall: Salon 2+3

Registrations Open (08:30-09:00)

Opening Ceremony (09:00-09:10)

Moderator: Clara Wolfe, *University of California, USA*

Keynote Talks

09:10-09:40

Title: Human immunodeficiency virus 1 glycoprotein gp120 Induces amyloid pathology in neurons

Italo Mocchetti, *Georgetown University Medical Center, USA*

09:40-10:10

Title: Concentration Disorder

Stephen E Nadeau, *University of Florida College of Medicine, USA*

10:10-10:40

Title: CYLD deletion in parvalbumin interneurons drives hippocampal neuron microglia crosstalk and impairs contextual fear memory of mice

Cheng Long, *South China Normal University, China*

Group Photo & Refreshment Break (10:40-11:00)

Scientific Session I

Session Chairs: Pavla Jendelova & Yangming Ou

- 11:00-11:20**
Title: Alpha-Synuclein: The spark that flames dopaminergic neurons, *in vitro* and *in vivo* evidence.
Noëlle Callizot, *Neuro-Sys, France*
-
- 11:20-11:40**
Title: Monoamine neurochemistry, behavior, and microhabitat contribute to male coquí frog modes: silent, territorial, and paternal
Gary R Ten Eyck, *NYU Grossman Long Island School of Medicine, USA*
-
- 11:40-12:00**
Title: Advances in steroid research from the pioneering neurosteroid concept to metabolomics: New insights into pregnenolone function for cannabis-related disorders
Monique Vallee, *University Bordeaux, INSERM, Neurocentre Magendie, France*
-
- 12:00-12:20**
Title: Consortium Effort of Big data and AI for Neonatal Brain Injury Biomarker Development
Yangming Ou, *Harvard Medical School, USA*
-
- 12:20-12:40**
Title: Gene therapy strategies to enhance axonal regeneration after spinal cord injury via PI3K δ signaling and integrin-mediated mechanisms
Pavla Jendelova, *Institute of Experimental Medicine, CAS, Czech Republic*
-
- 12:40-13:00**
Title: Early Tau Sets the Stage: Lifelong Environmental Shaping of Locus Coeruleus Vulnerability
Qi Yuan, *Memorial University of Newfoundland, Canada*

Lunch Break @ Restaurant(13:00-14:00)

Scientific Session II

Session Chairs: Gary R Ten Eyck & Stephen E Nadeau

- 14:00-14:20**
Title: Chronic stress alters neurotransmitter co-expression in the medial septum of female mice
Ryan Kenly Betters, *University of New Mexico School of Medicine, USA*
-
- 14:20-14:40**
Title: Common and contrasting effects of serotonergic signaling in pyramidal cells and SOM interneurons of the mouse cortex
Therese Riedemann, *Paracelsus Medical University, Austria*
-
- 14:40-15:00**
Title: 7 Tesla MRI and Multiple Sclerosis
Med Siegfried Trattnig, *Hochfeld MR Zentrum Medizinische Universität Wien, Austria*
-
- 15:00-15:20**
Title: Obtaining personalized predictions from a randomized controlled trial on Alzheimer's disease
Dennis Shen, *University of Southern California, USA*
-
- 15:20-15:40**
Title: Multi-Head Trajectory Prototypical Networks for Myasthenia Gravis Detection from Eye-Tracking Data
Seokbum Ko, *University of Saskatchewan, Canada*

Refreshment Break (15:40-16:00)

- 16:00-16:20**
Title: A dual-diagnostic multimodal agent-based system for Alzheimer's and epilepsy detection using 3D brain interpretation
Baraa Rayed, *Istanbul University-Cerrahpaşa, Turkey*

Title: Panksepp's Emotions Theory and Ritualization of the Mechanism of Play. A case study: Damanhur Ecospiritual Community

16:20-16:40

Patrizia Rosso, *Synchronic Lines Foundation & N.G.o. - Morosini Foundation, Milano, Italy*

Title: Functional Brain Connectivity Changes Following Masterson Psychotherapy in Borderline Personality Disorder

16:40-17:00

Meral Aydın, *Masterson Institute Turkey*

Pannel Discussions & Day-1 Concludes

Meeting Hall: Salon 2+3

Moderator: Sophia Jeanne, *Think Neuro, USA*

Keynote Talks

10:00-10:30

Title: Rodent models of AUD and PTSD show altered brain PPAR- α expression and signaling in stress- and addiction-related neuroadaptations

Graziano Pinna, *University of Illinois at Chicago, USA*

Scientific Session III

Session Chair: Graziano Pinna

10:30-10:50

Title: Transcranial electric field stimulation targeting iron deposition cures multiple pathologies of A β , tau, and microglia and improves cognitive impairment in Alzheimer's mouse model

Jong-Ki Kim, *Kocaeli University, Turkey*

10:50-11:10

Title: Glutamatergic synapses as a hub for intellectual disability

Derek Bowie, *McGill University, Canada*

11:10-11:30

Title: Pre-clinical validation of a new drug candidate to halt the progression of Parkinson's Disease based on NOX1 inhibition to target oxidative stress

Mariana Bernardo Fiadeiro, *University of Beira Interior, Portugal*

11:30-11:50

Title: Brain Magnetic Resonance Imaging in Adolescents with Primary Hypertension

Madalina E Tivarus, *University of Rochester, USA*

Poster Presentations (11:50-13:00)

Poster Judge: Jong-Ki Kim & Madalina E Tivarus

PP-I

Title: Immunohistochemical characterisation of dopaminergic and cholinergic alterations in the prefrontal cortex and hippocampus of MPTP-treated marmosets

Sanaa Khosla, *King's College London, UK*

PP-II

Title: Spinal NLRP3 inflammasome attenuates trigeminal neuropathic pain via HIF-1 α pathway in rats

Yumi Kim, Joyoung Son & Dongkuk Ahn, *Kyungpook National University, South Korea*

PP-III

Title: Magnetoencephalographic analysis of system consolidation in configuration learning

Alice Semenova, *Moscow State University/MEG-Center for Neurocognitive Research, Russia*

PP-IV

Title: Behavioral and cognitive effects of chronic isolation in rats of different social statuses

Tamar Matitaishvili, *Ivane Beritashvili Center of Experimental Biomedicine, Georgia*

PP-V

Title: Stress-related behavioral and monoamine alterations in dominant and submissive adult rats

Tamar Domianidze, *Ivane Beritashvili Center of Experimental Biomedicine, Georgia*

PP-VI

Title: A stage-dependent model of human neurodevelopment for ketamine exposure in cortical organoids

Clara Wolfe, *University of California, San Diego, USA*

PP-VII **Title: Characterization of the expression and activity of kynurenine pathway enzymes in the brain during gestational, early postnatal, and adult stages in mice.**

Jorge Ivan Botello Rueda, *National Autonomous University of Mexico, Mexico*

PP-VIII **Title: Higher protein-to-carbohydrate energy ratio is associated with better cognitive performance in type 2 diabetes**

Pilar Sanchis Cortes, *University of Balearic Islands, Spain*

PP-IX **Title: Iron chelation and protein aggregation control by phytate (IP6): a dual strategy against neurodegeneration**

Miquel Adrover Estelrich, *University of Balearic Islands, Spain*

PP-X **Title: Slow wave sleep dynamics may not be a reliable marker of dissipation of homeostatic sleep pressure in adulthood**

Sareh Panjeh, *Universidade Federal de São Paulo, Brazil*

PP-XI **Title: The Contribution of Ferroptosis Cell Death to Progressive Neurodegeneration in Amyotrophic Lateral Sclerosis: a Bibliometric Analysis**

Richardson Sarfo-Yeboah, *ThinkNeuro LLC, New York University, USA*

PP-XII **Title: Disciplinary siloing at the neuroimmune-decoder interface: a bibliometric analysis of chronic brain-computer interface literature and structural inference gaps in neuroprosthetic biomarker stability across sixteen years of chronic bci research**

Sophia Jeanne, *Think Neuro, USA*

Best Poster Award Ceremony

Day-02 Concludes

Virtual Session

6th Edition of Global Experts Meeting on

FRONTIERS IN NEUROSCIENCES

Jun 18-19, 2026 at Prague, Czech Republic

Join Zoom Meeting

Meeting ID: 840 0320 1522

Passcode: 3QaP7c



Time Zone : Central European Summer Time (CEST)

Scientific Sessions

Title: HOPS disruption impairs APP trafficking and processing, promoting exosomal secretion of APP-CTFs

13:40-14:00

Derk Draper, *Utrecht University, Netherlands*

Title: Air pollutants, endocrine disruption and their association with neurodevelopmental disorders

14:00 – 14:20

Rebeca Mira Sanchez, *Instituto de Ciencias Medioambientales y Neurodesarrollo ICMYN, and University of Murcia, Spain*

Title: Microglia: Early History and Founding Concepts

14:20 – 14:40

Payam Rezaie, *The Open University, Milton Keynes, UK*

Keynote:

Overview of Ayurveda and Ashwagandha: Bioactive Phytochemicals and Potential Applications to Gliomas

14:40 – 15:10

Herbert B. Newton, *Seidman Cancer Center, University Hospitals Cleveland Medical Center, USA*

Title: Diagnosis of Reversible Cerebral Vasoconstriction Syndrome (RCVS)

15:10 – 15:30

Jonathan A. Edlow, *Harvard Medical School, USA*

15:30 –15:50	<p>Title: Brain-specific microRNA-mediated regulation of metabolic homeostasis in <i>Drosophila melanogaster</i></p> <p>Pushpa Verma, <i>Harvard Medical School, USA</i></p>
15:50 –16:10	<p>Title: NLRX1 Limits Inflammatory Neurodegeneration in the Experimental Models of Multiple Sclerosis</p> <p>Marjan Gharagozloo, <i>Johns Hopkins University, USA</i></p>
16:10 –16:35	<p>Pleanary Talk: Aberrant lipid homeostasis and acyl chain remodeling in mild cognitive impairment, depression and Apolipoprotein E4 carriers</p> <p>Laura Beth McIntire, <i>Weill Cornell Medicine, USA</i></p>
16:35 –16:55	<p>Title: Effects of Early-Life Pesticide Exposure on Neurodevelopment</p> <p>Akshaya Venkatesh, <i>University of Texas, Medical Branch, USA</i></p>
16:55 –17:20	<p>Pleanary Talk: Chromosomal aneuploidy in meningioma: two subgroups with nonrandom chromosomal gains (polysomy) or losses (hypodiploidy) with distinct methylation signature and prognosis</p> <p>Madina Sukhanova, <i>Feinberg School of Medicine, Northwestern Memorial Hospital, USA</i></p>
17:20-17:40	<p>Title: The role of a micronutrient mixture, probiotics, collagen peptides, omega3, and cannabidiol (CBD) in improving quality of life during aging, and reducing the risk and improving treatment of Alzheimer's disease</p> <p>Kedar N Prasad, <i>Engage Global, Inc, USA</i></p>

17:40–18:00 **Poster:**
**Innovative Contrast Advances ‘Big Data’ for Improved Neuroscience,
Neuropathology, Neurosurgery and Neurohealth**

Katelyn West, *Western University of Health Sciences, USA*

18:00-18:20 **Title: Transthyretin cardiac (TTR) amyloidosis, polyneuropathy and
dementia**

Rodica Elena Petrea, *CTU/Saint Joseph's Medical Center Stockton CA,
USA*

18:20-18:40 **Title: Interneuron loss and microglia activation by transcriptome
analyses in the basal ganglia of Tourette disorder**

Yifan Wang, *Mayo Clinic, USA*

Day 1 Virtual Concludes

A Data-driven approach to predicting cognitive performance in simulated spaceflight conditions

10:10-10:30

Sakura Ciara Brennan, *University of Sydney, Australia*

Title: A predictive coding account for spontaneous transitions between focus and mind wandering in humanoid robots

10:30-10:50

Henrique Oyama, *Okinawa Institute of Science and Technology, Japan*

Pleanary Talk:

Development and Application of the Portable Electromagnetic Navigation for Neurosurgery

10:50-11:15

Cai Meng, *Beihang University, China*

Title:Qihuang Needle Therapy for Motor Symptoms in Parkinson's Disease

11:15-11:35

Wanqing Peng, *Guangzhou University of Chinese Medicine, China*

Poster:

The identification of metabolites from gut microbiota in Parkinson's disease via network pharmacology

11:35 – 11:55

Qingyan Wang, *Guangzhou University of Chinese Medicine, China*

Title: The association between sleep quality and cognitive function in patients with non-functioning pituitary adenoma

11:55 – 12:15

Michelle Henry, *University of Cape Town, South Africa*

12:15 – 12:40	<p>Pleenary Talk: From Heterogeneity to Plasticity: How Diversity and Context-Dependent Adaptivity of Human Astrocytes Can Shape Diagnostic and Therapeutic Innovation in Neuropathology</p>
	<p>Sirko Swetlana, <i>LMU, Biomedical Centrum Munich, Germany</i></p>
12:40 – 13:00	<p>Title: Sex Specific Blood Changes in Neurodegenerative Proteins and Antioxidant Responses to Exercise</p> <p>Simona Daniele, <i>University of Pisa, Italy</i></p>
13:00 – 13:20	<p>Title: Charles Bonnet syndrome and its treatment</p> <p>Okan Ekinici, <i>Okan Ekinici Psychiatry centre, Turkey</i></p>
13:20 – 13:40	<p>Poster: Beyond calcifications: NODDI reveals widespread microstructural alterations in PBC</p> <p>Francesco Cavallo, <i>University of Padua, Italy</i></p>
13:40-14:00	<p>Title: Neurodevelopmental hijacking of oligodendrocyte lineage programs drives glioblastoma infiltration</p> <p>Federico Gaiti, <i>University Health Network, Canada</i></p>
14:00-14:20	<p>Title: Reversal of memory deficits in HIV-1 infection after osteopontin knockdown</p> <p>Amanda M. Brown, <i>Johns Hopkins University School of Medicine, USA</i></p>
14:20-14:40	<p>Title: Caveolin-1 mediated Blood-Brain barrier permeability contributes to neurologic impairment in post-acute sequelae of COVID (“Long COVID”)</p> <p>Avantika Ahiya, <i>University of Illinois, USA</i></p>
14:40-15:00	<p>Title: Status of the Everyday (Spatial) Behavioral Questionnaire (ESBQ) 11 Component model</p> <p>Mark Y. Czarnolewski, <i>Independent Scholar, USA</i></p>

15:00-15:20 **Title: Injured Inflammatory Environment Overrides the TET2 Shaped Epigenetic Landscape of Pluripotent Stem Cell Derived Human Neural Stem Cells**

Noriko Kamei, *University of California, Irvine, USA*

15:20-15:40 **Title: Leveraging microbubble labeling for image-guided advancement of oncologic therapeutic ultrasound applications**

Maneesha Rajora, *University of Toronto, Canada*

15:40-16:00 **Title: Unlocking potential targets for Obstructive sleep apnea treatment**

Irma Rukhadze, *Albany Medical College, USA*

16:00-16:20 **Title: Human iPSC 4R tauopathy model uncovers modifiers of tau propagation**

Shiaoching Gong, *Weill Cornell Medicine, USA*

16:20-16:40 **Title: Benzodiazepine and ssri co-prescription vs. monotherapy: a review of effects on adherence and anxiety relief**

Sammi Chou, *Baylor University, USA*

16:40-17:00 **Title: The Violent Brain: Media, Adolescents, and Neuroscience**

Andreas Miles-Novelo, *Fielding Graduate University, USA*

Day-02 Concludes


WE WISH TO SEE YOU AGAIN AT


7th Edition of Global Experts Meeting on


FRONTIERS IN NEUROSCIENCES

24–25 June 2027 Barcelona, Spain

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