

WORKSHOP

AMFITEATRUL MĂRGINEANU /
MĂRGINEANU AMPHITHEATER

Perspective și frontiere actuale în neuroștiințele cognitive: Creierul uman în cogniție și sănătate (Current Perspectives and Frontiers in Cognitive Neuroscience: The Human Brain in Cognition and Health)

Facultatea de Psihologie și Științele Educației (FPSE), Universitatea Babeș-Bolyai, Str. Sindicatelor nr. 7

Înregistrarea participanților are loc în Amfiteatrul Mărgineanu

Miercuri, 5 noiembrie 2025

09:00-09:10

Opening statements

Chairs: Monica Baciú, MD PhD (Université Grenoble Alpes, Grenoble, France), Ioana Mindruță, MD PhD (University Emergency Hospital of Bucharest, Bucharest, Romania), & Andrei C. Miu, PhD (Babeș-Bolyai University, Cluj-Napoca, Romania)

09:10-09:20

Cajal Symposium (organized with the Embassy of Spain in Romania)

Introduction

09:20-10:10

Juan Lerma, PhD

Instituto de Neurociencias, Consejo Superior de Investigaciones Científicas, Universidad Miguel Hernández, Sant Joan d'Alacant, Spain

Decoding amygdala circuits in anxiety and depression

10:10-11:00

Santiago Canals, PhD

Instituto de Neurociencias, Consejo Superior de Investigaciones Científicas, Universidad Miguel Hernández, Sant Joan d'Alacant, Spain

Non-synaptic basis of alcohol addiction

11:00-11:30

Pauză cafea / FPSE

11:30-12:00

Monica Baciú, MD PhD

LPNC-UMR CNRS 5105, Université Grenoble Alpes, France

Strategies and neurocognitive mechanisms of language production during normal aging

12:00-12:30

Betina Korka, PhD

Leibniz Institute of Neurobiology & Zander Labs GmbH, Magdeburg, Germany

Human motor learning: Insights from healthy and clinical populations

12:30-14:00

Prânz / FPSE

14:00-14:30

Ioana Mindruță MD PhD¹, Irina Oane PhD¹, Andrei Barborică MD PhD²

¹University Emergency Hospital of Bucharest, Epilepsy Monitoring Unit, Bucharest, Romania; ²Physics Department, University of Bucharest, Bucharest, Romania

Use of intracranial EEG to map cognitive processes in pre-surgical evaluation of epilepsy patients

14:30-15:00

Irina Oane, MD PhD¹, Andrei Barborică, PhD², Ioana Mindruță, MD PhD¹

¹University Emergency Hospital of Bucharest, Epilepsy Monitoring Unit, Bucharest, Romania; ²Physics Department, University of Bucharest, Bucharest, Romania

Functional mapping and connectivity of the human cingulate cortex

15:00-15:30

Bogdan Pavel, MD PhD

Department of Physiology, Faculty of Medicine, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

Brain stimulation: What options do we have?

15:30-16:00

Pauză cafea / FPSE

16:00-16:30

Vasile Vlad Moca, PhD

Transylvanian Institute of Neuroscience, Department of Experimental and Theoretical Neuroscience, Romania

Hunting for neural oscillations

16:30-17:00

Miralena I. Tomescu, PhD

Department of Psychology and Educational Sciences, University Ștefan cel Mare of Suceava, Suceava, Romania; Department of Research, Development and Innovation - CINETIC, National University of Theatre and Film "I.L. Caragiale", Bucharest, Romania; Department of Psychology - Cognitive Sciences, University of Bucharest, Bucharest, Romania

EEG microstates as markers of brain network dynamics in mental health and resilience

17:00-17:30

Iulia Călugăr, MD¹, Anca Dobrea, PhD^{2,3}, Raluca Georgescu, PhD^{4,5}, Roxana Șipoș, MD PhD⁶, Elena Predescu, MD PhD⁶, Guy Nagels, MD PhD^{7,8,9}, Jeroen VanSchependom, PhD^{7,10}

¹ Doctoral School, "Evidence-Based Assessment and Psychological Interventions," Babeș-Bolyai University, Cluj-Napoca, Romania; ² Department of Clinical Psychology and Psychotherapy, Babeș-Bolyai University, Cluj-Napoca, Romania; ³ International Institute for the Advanced Studies of Psychotherapy and Applied Mental Health, Babeș-Bolyai University, Cluj-Napoca, Romania; ⁴ Department of Rehabilitation Medicine, University of Washington, Seattle, USA; ⁵ Department of General Psychology, University of Padova, Padova, Italy; ⁶ Department of Neuroscience, Iuliu Hațieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania; ⁷ AIMS Lab, Center for Neurosciences, Vrije Universiteit Brussel, Brussels, Belgium; ⁸ UZ Brussel, Department of Neurology, Brussels, Belgium; ⁹ St. Edmund Hall, University of Oxford, Oxford, United Kingdom; ¹⁰ Department of Electronics and Informatics (ETRO), Vrije Universiteit Brussel, Brussels, Belgium

Spectral power and Theta/Beta ratio differences in children and adolescents with ADHD: A meta-analysis of comparative studies

17:30-18:00

Cătălina I. Coclitu, MD

Department of Multiple Sclerosis and Neuroimmunology, CHU Grenoble, Grenoble, France

Treatment approach in multiple sclerosis - A continually changing landscape

20:00

Eveniment de networking la nivel de workshop
(Restaurant Livada, str. Clinicilor, nr. 14)

Joi, 6 noiembrie 2025

09:00-09:30

Joana B. Pereira, PhD

Department of Clinical Neuroscience, Division of Neuro, Karolinska Institutet, Stockholm, Sweden

Understanding brain connectivity: From molecular markers to brain networks

09:30-10:00

Szabolcs Horvát, PhD

Department of Computer Science, Reykjavik University, Reykjavík, Iceland

Identifying global features of the mammalian connectome

10:00-10:30

Mária Ercsey-Ravasz, PhD

Faculty of Physics, Babes-Bolyai University, Cluj-Napoca, Romania; Transylvanian Institute of Neuroscience, Cluj-Napoca, Romania

Novel methods for analyzing dynamics of functional brain networks: Complex correlation patterns defining a robust functional architecture

10:30-11:00

Balazs Pentek, MSc

Faculty of Physics, Babes-Bolyai University, Cluj-Napoca, Romania

The exponential distance rule based network model reveals general functional property of brain regions: Study of the Drosophila projectome

11:00-11:30

Pauză cafea / FPSE

11:30-12:00

Raul C. Mureşan, PhD

Transylvanian Institute of Neuroscience, Cluj-Napoca, Romania

Connecting the dots: How innovative visual stimuli can help us dissect the human visual system

12:00-12:30

Gyula Demeter, PhD

Brain Injury Rehabilitation Unit, Semmelweis University Rehabilitation Clinic, Budapest, Hungary; Department of Cognitive Science, Budapest University of Technology and Economics, Budapest, Hungary

Prospective memory functions in traumatic brain injury

12:30-14:00

Prânz / FPSE

14:00-14:30

Mădălina O. Buciuman, MSc^{1, 2, 3*}; Lana Kambeitz-Ilankovic, PhD¹³; Linda A. Antonucci, PhD^{14, 15, 1}; Theresa Lichtenstein, MD¹³; Marlene Rosen, PhD¹³; Stephan Ruhrmann, MD, PhD¹³; Joseph Kambeitz, MD¹³; Anita Riecher-Rössler, MD¹⁶; Rachel Upthegrove, MBBS, PhD¹⁷; Raimo K. R. Salokangas, MD, PhD, PsD¹⁸; Jarmo Hietala, MD, PhD¹⁸; Christos Pantelis, MD^{19, 20}; Rebekka Lencer, MD²¹; Eva Meisenzahl, MD²²; Stephen J. Wood, PhD^{10, 11, 23}; Paolo Brambilla, MD^{24, 25}; Stefan Borgwardt, MD²⁶; Alessandro Bertolino, MD, PhD¹⁴; Peter Falkai, MD^{1, 3}; Nikolaos Koutsouleris, MD^{1, 17, 22†}; Paris Lalouis, PhD^{1, 15, 16†}; for the PRONIA Consortium#

¹ Department of Psychiatry and Psychotherapy, Ludwig-Maximilian-University, Munich, Germany; ² International Max Planck Research

School for Translational Psychiatry, Munich, Germany; ³ Max Planck Institute for Psychiatry, Munich, Germany; ⁴ Munich Center of Machine Learning (MCML); ⁵ Helmholtz Association - Munich School for Data Science (MUDS); ⁶ Department of Psychiatry, Amsterdam UMC location Vrije Universiteit Amsterdam, Amsterdam, The Netherlands; ⁷ Amsterdam Public Health, Mental Health program, Amsterdam, The Netherlands; ⁸ Amsterdam Neuroscience, Mood, Anxiety, Psychosis, Sleep & Stress program, Amsterdam, The Netherlands; ⁹ Amsterdam Neuroscience, Complex Trait Genetics, Amsterdam, The Netherlands; ¹⁰ Centre for Youth Mental Health, University of Melbourne, Melbourne, Australia; ¹¹ Orygen, the National Centre of Excellence for Youth Mental Health, Melbourne, Australia; ¹² School of Psychology, Aston University, United Kingdom; ¹³ Department of Psychiatry and Psychotherapy, Faculty of Medicine and University Hospital of Cologne, University of Cologne, Germany; ¹⁴ Department of Basic Medical Sciences, Neuroscience and Sense Organs – University of Bari “Aldo Moro”, Bari, Italy; ¹⁵ Department of Translational Biomedicine and Neuroscience (DiBrain) – University of Bari “Aldo Moro”, Bari, Italy; ¹⁶ Faculty of Medicine, University of Basel, Basel, Switzerland; ¹⁷ Institute for Mental Health, University of Birmingham, Birmingham, United Kingdom; ¹⁸ Department of Psychiatry, University of Turku, Turku, Finland; ¹⁹ Melbourne Neuropsychiatry Centre, Department of Psychiatry, University of Melbourne, Carlton South, Vic, Australia; ²⁰ NorthWestern Mental Health, Royal Melbourne Hospital, Parkville, VicMelbourne, Australia; ²¹ Department of Psychiatry and Psychotherapy, University of Münster, Germany; ²² Department of Psychiatry and Psychotherapy, Medical Faculty, Heinrich-Heine University, Düsseldorf, Germany; ²³ School of Psychology, University of Birmingham, United Kingdom; ²⁴ Department of Neurosciences and Mental Health, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, University of Milan, Milan, Italy; ²⁵ Department of Pathophysiology and Transplantation, University of Milan, Milan, Italy; ²⁶ Department of Psychiatry and Psychotherapy, University of Lübeck, Lübeck, Germany; ²⁷ Department of Psychosis Studies, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, UK. † These authors contributed equally to the work

Transdiagnostic resting-state fMRI-based patient subtypes in early stages of psychosis and depression

14:30-15:00

Oana-Georgiana Munteanu-Forij, MD^{1, 2}; Costina-Ruxandra Poetar, PhD^{3, 4}; Ondrej Zika, PhD^{3, 5}; Elena Predescu, MD, PhD²; Roxana Şipoş, MD PhD²; Anca Dobrean, PhD^{3, 4}; Kristoffer N. T. Månsson, PhD^{3, 5}

¹ Doctoral School Evidence-Based Psychological Assessment and Interventions, Babes-Bolyai University, Cluj-Napoca, Romania; ² Department of Neuroscience, Psychiatry and Pediatric Psychiatry, “Iuliu Hatieganu” University of Medicine and Pharmacy, 57 Republicii Street, Cluj-Napoca, Romania; ³ Department of Clinical Psychology and Psychotherapy, Babes-Bolyai University, Cluj-Napoca, Romania; ⁴ The International Institute for the Advanced Studies of Psychotherapy and Applied Mental Health, Babes-Bolyai University, Cluj-Napoca, Romania; ⁵ Centre for Psychiatry Research, Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden

Neuroimaging anxious children and adolescents before and after cognitive behavioral therapy: A systematic review

15:00-15:30

Iulia Ion, MSc, Camelia Chira, PhD

Department of Computer Science, Faculty of Mathematics and Computer Science, Babes-Bolyai University, Cluj-Napoca, Romania

When the brain speaks in data: How AI helps us understand mental health

15:30-16:00

Pauză cafea / FPSE

16:00-16:30

Delia Gheorghe, PhD

Transylvanian Institute of Neuroscience, Cluj-Napoca, Romania

Early adversity and brain health across the lifespan

16:30-17:00

Gabriela Marcu, PhD

Department of Psychology, “Lucian Blaga” University of Sibiu, Sibiu, Romania; Scientific Research Group in Neuroscience, “Dr. Gheorghe Preda” Clinical Psychiatry Hospital, Sibiu, Romania

The role of ERP components in assessing cognitive control dysfunctions in adolescents with complex childhood trauma

17:00-17:30

**Simina Pițur, PhD¹, Ștefania Crișan, PhD²,
Alexandra Iacob, MA¹, Robert Balázsi¹, Raul
Mureșan, PhD³, Naomi Fine, PhD⁴, Gal Sheppes,
PhD^{4, 5}, Andrei C. Miu, PhD¹**

¹ Cognitive Neuroscience Laboratory, Department of Psychology, Babeș-Bolyai University, Cluj-Napoca, Romania; ² Evidence-Based Psychological Assessment and Interventions Doctoral School, Babeș-Bolyai University, Cluj-Napoca, Romania; ³ Transylvanian Institute of Neuroscience, Cluj-Napoca, Romania; ⁴ School of Psychological Sciences, Faculty of Social Sciences, Tel-Aviv University, Tel Aviv, Israel; ⁵ Sagol School of Neuroscience, Tel-Aviv University, Tel-Aviv, Israel

*Childhood maltreatment, emotion regulation and
psychopathology: Behavioral and neural evidence*

20:00

Cină festivă (Wild Hills, E576, Juc-Herghelie)