KEYNOTE SPEAKERS

Amir Amedi (Hebrew University of Jerusalem, Israel): TBA

Ole Jensen (University of Birmingham, UK): On the role of alpha and gamma oscillations for routing and prioritizing information in the working brain

Markus Ullsperger (Otto von Guericke University Magdeburg, Germany): Neuronal Mechanisms of Performance Monitoring and Cognitive Control

Emma Robinson (University of Bristol, UK): How new methods to study emotional behaviour in rodents have provided insights into the neurobiology of mood disorders and their treatment

Yves de Koninck (Laval University, Quebec, Canada): TBA

Thomas Kuner (University of Heidelberg, Germany): Imaging cell biology at work in the awake mouse brain

DRUGS THAT HEAL, DRUGS THAT KILL
TRIBUTE TO PROFESSORS JERZY VETULANI AND KRZYSZTOF WEDZONY

Eero Castrén (University of Helsinki, Finland): Neuronal plasticity and the antidepressant action

Johannes G. Ramaekers (Maastricht University, The Netherlands): Cannabinoids, Friends or Enemies?

Phil Skolnick (CSO Opiant Pharmaceuticals, Santa Monica, USA): Rescue By Naloxone: On the Front Lines Of The Opioid Epidemic
COGNITIVE SESSIONS

CANINE MODELS OF HUMAN NEUROCOGNITION

**ATTILA ANDICS** (Eötvös Loránd University, Budapest, Hungary): Imaging the awake dog brain

**ANNA KIS** (Hungarian Academy of Sciences): Investigation of canine brain activity during sleep using non-invasive polysomnography

**IVAYLO IOTCHEV** (Eötvös Loránd University, Budapest, Hungary): The dog as a model animal for studying sleep spindles – emerging evidence for an analogy regarding function and age-related changes between dogs and humans

**LAURA V. CUAYA** (Institute of Neurobiology, National Autonomous University of Mexico): Cerebral activity in dogs related to perception of human faces

**RAÚL HERNÁNDEZ-PÉREZ** (Institute of Neurobiology, National Autonomous University of Mexico): Decoding human emotional faces in the dog’s brain

DECISION MAKING

**WOUTER RYS** (Trinity College Dublin, Ireland): Exploring the neural basis of metacognition in decision-making

**EWA BELDZIK** (Jagiellonian University in Krakow): When three is greater than five: EEG and fMRI signatures of erroneous decisions

**MIKOŁAJ MAGNUSKI** (University of Social Sciences and Humanities, Warsaw): Advanced EEG statistics in studies of decision making

**ADRIAN FISCHER** (Otto von Guericke Universität Magdeburg, Germany): Beta power reveals the dynamics of human choice formation (to be confirmed)

PAIN IN MULTISENSORY SPACE

**JANET BULTITUDE** (University of Bath, UK): Impaired sensorimotor interaction and spatial perception in pathological pain

**MONIKA HALICKA** (University of Bath, UK): Altered spatial representations in pathological pain and how they could be targeted for treatment

**CAMILLE VANDERCLAUSEN** (Université catholique de Louvain, Belgium): Danger in the dark! Localization of nociceptive stimuli in normally sighted and congenitally blind people

**AXEL VITTERSØ** (University of Exeter, UK): Updating peripersonal space and body representation during acute pain
EMOTIONAL MODULATION OF ATTENTION AND PERCEPTION

HADAS OKON–SINGER (University of Haifa, Israel): Neural Modulation of Emotional Reactions: Focus on Attention and Personality

RUBENAZEVEDO (University of London, UK): Truth from within: physiological responses to emotionally charged photos of real-life events predicts judgments of photo authenticity

MARIA LOJOWSKA (Radboud University Nijmegen, The Netherlands): Freezing modulates early visuocortical activity in humans

MANON MULCKHUYSE (Radboud University Nijmegen, The Netherlands): The role of the right posterior parietal cortex (PPC) in emotional attention

ANTONIO SCHETTINO (Ghent University, Belgium): Independent vs. interactive effects of emotion and basic visual features during word reading

DEVELOPMENTAL AFFECTIVE NEUROSCIENCE

JISKA S. PEPER (Leiden University, The Netherlands): Neuro–endocrinological correlates of adolescent risk–taking and impulsivity: a longitudinal study

ANNA T YBOROWSKA (Radboud University Nijmegen, The Netherlands): Pubertal testosterone shifts neural social emotional action control during adolescence

CORINNA LAUBE (Max Planck Institute for Human Development, Germany): Teens, Testosterone and Time: Endocrinological and neural correlates of adolescent impatience

JEROEN VAN DESSEL (KU Leuven, Belgium): Developmental changes in neural response towards certain and conditional monetary loss anticipation in attention–deficit/hyperactivity disorder

AUDITORY NEUROSCIENCE

INGA GRISKOVA–BULANOVA (Vilnius University, Lithuania): Processing of periodic sounds in the brain: importance and practical applications of auditory steady–state responses

MAREK BINDER (Jagiellonian University in Krakow): How the level of consciousness can affect auditory steady–state responses

MARTIN ANDERMANN (University Hospital Heidelberg, Germany): Assessing auditory steady state responses by means of magnetoencephalography

ANNA SAMS EL (KU Leuven, Belgium): Auditory steady state responses in cochlear implant users

CECILE PACORET (University of Geneva, Switzerland): Implication of synchronous spiking to the auditory steady–state response interpretation: an EEG study
FACTORS AFFECTING EMOTIONAL PROCESSING

Johanna Kissler (Bielefeld University, Germany): A social brain: How attributed social context modulates verbal emotional feedback processing (to be confirmed)

Constantin Winker (University of Münster, Germany): Noninvasive stimulation of the ventromedial prefrontal cortex enhances pleasant scene and face processing

Markus Junghöfer (University of Münster, Germany): Emotional picture processing in major depression before and after successful treatment: Magnetoencephalographic correlates (to be confirmed)

Tomasz Ligeza (Jagiellonian University in Krakow): How much reappraisal is in reappraisal? The role of unspecific factors in attenuating emotional response

Agnieszka Adamczyk (Jagiellonian University in Krakow): Uninstructed emotional regulation: implicit reappraisal attenuates emotional processing

MOTOR ACTIVITY

Rob van der Lubbe (University of Twente, The Netherlands): How to demonstrate a normal contralateral organization of hand-motor areas at an individual level for children affected by Cerebral Palsy?

Dalina Delfing (Radboud University Nijmegen, The Netherlands): Examining the motor observation and motor imagery capacity of typically developing children and children with unilateral cerebral palsy – an EEG study

Mikołaj Buchwald (Adam Mickiewicz University in Poznań): Decoding functional grasps of tools from brain activity: An fMRI Multi-Voxel Pattern Analysis study

Maciej Raś (Adam Mickiewicz University in Poznań): Neural underpinnings of actions involving complex tools: an fMRI study

NEUROSCIENCE OF LANGUAGE

Agnieszka Debska (Nencki Institute of Experimental Biology, Warsaw): Neural signatures of reading and spelling deficits in children

Magdalena Łuniewska (Nencki Institute of Experimental Biology, Warsaw): Phonological awareness in children developing dyslexia – a longitudinal fMRI study

Agnieszka Kacprzak (Nencki Institute of Experimental Biology, Warsaw): Voxel and surface based morphometry in elementary school late talking children with and without developmental dyslexia

Clara Kuper (Freie Universität Berlin, Germany): Functional changes during the acquisition of spoken and written Greek
MOTIVATIONAL NEUROSCIENCE

**Marek Wypych** (Nencki Institute of Experimental Biology, Warsaw): Attenuated brain activity during error processing and punishment anticipation in procrastination – monetary Go/No-go fMRI study

**Bertille Somon** (ONERA The French Aerospace Lab): Out-of-the-loop pilots: Study of an applied phenomenon through performance-monitoring EEG measures

**Magdalena Matyjek** (Berlin School of Mind and Brain, Humboldt-Universität zu Berlin, Germany): The Role of Autistic Traits in Reward Anticipation

**Isabelle Klinkenberg** (University of Münster, Germany): Affective face processing under predictable and unpredictable threat

**Rashmi Gupta** (Indian Institute of Technology, Bombay, India): Learned-predictiveness but not valence modulates unconscious neural activity in early visual cortex

CORTICAL PLASTICITY AND REORGANISATION

**Katarzyna Cieśla** (World Hearing Center, Warsaw/Kajetany): Tonotopic organisation of auditory cortex in sensorineural hearing loss

**Maksymilian Korczyk** (Jagiellonian University in Krakow): Auditory cortex recruitment for visual rhythms in musicians

**Łukasz Bola** (Jagiellonian University in Krakow): Functional hierarchy for tactile processing in the visual cortex of sighted Braille readers

**Mathias Valstad** (Norwegian Centre for Mental Disorders Research, Oslo): Visual evoked potential plasticity and gamma power in the EEG of healthy participants

**Bálint File** (Pázmány Péter Catholic University, Budapest, Hungary): Reorganization of large scale functional networks during low frequency electrical stimulation of the cortical surface
BIOLOGICAL SESSIONS

SYNAPTIC PLASTICITY

JEREMY HENLEY (University of Bristol, UK): MECHANISMS AND CONSEQUENCES OF KAINEATE RECEPTOR REGULATION FOR SYNAPTIC PLASTICITY, HEALTH AND DISEASE

AGATA NOWACKA (Nencki Institute of Experimental Biology, Warsaw): ACTIVITY-DEPENDENT TRAFFICKING OF PSD-95 AFTER LTP AND LTD

ŁUKASZ BJÖCH (Nencki Institute of Experimental Biology, Warsaw): SYNAPTIC PLASTICITY OF NATURAL AND ADDICTIVE REWARDS

ZAHRA FAYYAZ (Sharif University of Technology, Iran): A MULTI-FRACTAL APPROACH FOR STUDYING NEURONAL ACTIVITY

BRAIN STATE DEPENDENT NEURONAL ACTIVITY

MAGOR LÁSZLÓ LŐRINCZ (University of Szeged, Hungary): BRAIN STATE DEPENDENT MODULATION OF PHYSIOLOGICAL AND PATHOLOGICAL THALAMIC ACTIVITY

MEHRNOUSH ZOBEIRI (Westfälische Wilhelms-Universität, Germany): OSCILLATIONS AND BRAIN CONNECTIVITY IN THALAMOCORTICAL DYSRHYTHMIA

MÁTÉ PETHŐ (Eötvös Loránd University, Budapest, Hungary): REGION-SPECIFIC ADENOSINERGIC MODULATION OF THE SLOW CORTICAL RHYTHM IN URETHANE-ANESTHETIZED AND FREELY MOVING RATS

JAGODA JECZMEN-LAZUR (Jagiellonian University in Krakow): SILENCING VISUAL CORTEX DOES NOT INFLUENCE LIGHT RESPONSIVENESS IN THE RAT DORSAL LATERAL GENICULATE NUCLEUS

NEUROPEPTIDES

CHRISTOPH SCHWARZER (Medical University of Innsbruck, Austria): NEUROPEPTIDES - FUNCTIONAL ROLE AND THERAPEUTIC OPTIONS IN EPILEPSY

IWONA Kmieć (Medical University of Innsbruck, Austria): FUNCTIONAL NEUROANATOMY OF PRODYNORPHIN

ZOFAIA HARDÁ (Institute of Pharmacology, Polish Academy of Sciences, Krakow): THE ROLE OF OPIOID MODULATION OF D1 DOPAMINOCEPTIVE CELLS IN SOCIAL CONTACT INITIATION

ALAN KANIA (Jagiellonian University in Krakow): SEARCHING FOR NEURONAL MECHANISM OF NEUROPEPTIDE’S OREXIGENIC ACTION – RELAXIN-3 SIGNALLING IN PARAVENTRICULAR NUCLEUS OF HYPOTHALAMUS
**SYSTEMS NEUROSCIENCE**

**Alexander Chesler** (NIH, Bethesda, USA): Under Your Skin: Molecules and Cells for Touch and Pain

**Agata Staszelis** (University of Lodz, Poland): Immunohistochemical classification of neurons in layer V of the medial entorhinal cortex with proven convergent input from the subiculum and the retrosplenial cortex

**Weronika Szadzinska** (Nencki Institute of Experimental Biology, Warsaw): Prefrontal cortex neuronal activity underlying fear extinction

**Katarzyna Zajda** (Jagiellonian University in Krakow): Prefrontal cortex catecholaminergic activity regulates cue-induced cocaine craving

**LEARNING AND MEMORY**

**Mark Walton** (University of Oxford, UK): Rapid dopamine release during decision making: waiting, acting, choosing?

**Przemysław Eligiusz Cieślak** (Institute of Pharmacology, Polish Academy of Sciences, Krakow): A role of NMDA receptor-dependent burst firing of midbrain dopamine neurons in adaptive decision-making

**Diana Legutko** (Nencki Institute of Experimental Biology, Warsaw): Where does the brain store its memories? – Comparison between appetitive and aversive experience

**Kacper Kondrakiewicz** (Nencki Institute of Experimental Biology, Warsaw): Central amygdala regulates social transfer of fear

**NEUROPATHOLOGY**

**Dagmar Ernhöfer** (BioMed X Innovation Center, Germany): Modeling Alzheimer’s disease-related tau pathology – from human brain dysfunction to in vitro models and back again

**Annika Behrendt** (BioMed X Innovation Center, Germany): Asparagine endopeptidase cleaves tau at a novel cleavage site in vivo

**Maciej Winiarski** (Nencki Institute of Experimental Biology, Warsaw): Ultrastructural rescue effects of matrix metalloproteinase 9 inhibition in Fragile X Syndrome mouse model

**Dennis van der Meer** (Norwegian Centre of Mental Disorders Research, University of Oslo, Norway): Genetic architecture of hippocampal subfield volumes: shared and specific influences
MEDICAL SESSIONS

MEDICAL SESSION I

ROBERTO FURLAN (INSPE, Milan, Italy): TBA

PAULA CHLEBANOWSKA (Jagiellonian University Medical College in Krakow, Poland): COMPARATIVE DERIVATION OF 3D HUMAN MIDBRAIN-LIKE ORGANOID FROM HUMAN INDUCED PLURIPOTENT STEM CELL (iPS) LINES OF SINGLE DONOR ORIGIN

RAFAŁ SKOWRONEK (Medical University of Silesia, Poland): TIME-RELATED MORPHOMETRIC STUDIES OF CD34 ANTIGEN EXPRESSION IN VESSELS IN BRAIN CONTUSIONS

JOANNA WÓJCIK (World Hearing Center in Kajetany, Poland): LEVELS OF GLUTAMINE AND GLUTAMATE IN TINNITUS PATIENTS ASSESSED WITH PROTON MAGNETIC RESONANCE SPECTROSCOPY

MEDICAL SESSION II

WITOLD LIBIONKA (WSS Gdańsk, Poland): NEUROSTIMULATION OF THE CNS – FROM MECHANISMS TO CLINICAL APPLICATIONS

ALEKSANDRA GALWA (Poznań University of Medical Sciences, Poland): CLINICAL ANALYSIS OF PATIENTS TREATED FOR LYMPHOMA OF CENTRAL NERVOUS SYSTEM

MARTA GRZYWACZ (College of Medicine, National University of Ireland, Galway): PROGRESSION OF THALAMIC AND THIRD VENTRICULAR VOLUME IN FIRST EPISODE PSYCHOSIS: A THREE-YEAR FOLLOW UP STUDY

KAROL WOŁOWIŃSKI (Poznan University of Medical Sciences, Poland): ENDOVASCULAR TREATMENT OF BASILAR ARTERY OCCLUSION – CASE SERIES PRESENTATION