

Program of the NEURONUS 2016 IBRO & IRUN Neuroscience Forum

April 22-24 2016

Auditorium Maximum of the Jagiellonian University, Krakow, Poland

APRIL 22, 2016 (Friday)			
12.00	Registration opens		
13.15	- Large Aula A - Opening Ceremony		
13.30 - 14.30	- Large Aula A - Opening Lecture: Christian Büchel <i>How memory guides decision making</i> (University Medical Center Hamburg-Eppendorf, Germany)		
14.30 - 15.15	- Large Aula A - FlashTalks		
15.15 - 15.30	Refreshment Break		
15.30 - 17.00	- Large Aula A - <u>Neurode(re)generation</u>	- Medium Aula A - <u>Affective Neuroscience</u>	- Medium Aula B - <u>Neurology</u>

	<p>chaired by: Walker Jackson (German Center for Neurodegenerative Diseases, Bonn, Germany)</p> <p>1. Walker Jackson: Selective vulnerability to neurodegenerative diseases: the curious case of Prion Protein</p> <p>2. Lech Kaczmarczyk: The “Grabber” - a knock-in mouse line developed for in vivo, cell-type specific, multi-level gene expression analysis of the brain</p> <p>3. Lukasz Szewczyk: Myelin impairment and axonal degeneration in ST8SIA2-deficient mice, a genetic model for schizophrenia research</p> <p>4. Marcelina Szczerba: Neural differentiation of neural epithelial-like stem cells derived from Alzheimer's disease patient pluripotent stem cells</p>	<p>chaired by: Gilles Pourtois (Ghent University, Belgium)</p> <p>1. Paul Whalen: The Surprising Utility of Surprise</p> <p>2. Monika Riegel : Wolf in sheep’s clothing or wolf in wolf’s clothing? Effects of emotional congruency and basic emotions on associative memory in communicative context – fMRI preliminary results</p> <p>3. Didier Grandjean: Neuronal dynamics between amygdalae and orbitofrontal regions in emotion perception</p> <p>4. Matthias Wieser: Disentangling attentional mechanisms during predictable and unpredictable threat: A frequency-tagging ssVEP approach</p>	<p>chaired by: Tomasz Dzedzic (Jagiellonian University Medical College, Krakow, Poland)</p> <p>1. Natalia Gawron: Older age along with lower CD4 cell count nadir, education, and social support are associated with cognitive decline in men aging with HIV infection</p> <p>2. Ahnjili ZhuParris: Experienced Drug Users Report the Nootropic Properties of Subperceptual Dosages of Psychedelic Drugs: A Web-Based Survey</p> <p>3. Jan Miodoński: Modern instrument to transect peripheral nerves and soft tissues - knife coated in bioactive nanolayer</p> <p>4. Zofia Ślosarek: Neurosurgical treatment of brain metastases from lung cancer – analysis of benefits</p> <p>5. Magdalena Doregowska: DBS-STN surgery for Parkinson's disease patients - results of 10 years experience</p>
<p>17.00 – 17.30</p>	<p>Coffee Break</p>		
<p>17.30 – 18.45</p>	<p>- Exhibition Room -</p> <p>Poster Session I</p>	<p>- Large Aula A -</p> <p>Commercial Presentation:</p> <p><i>Advanced EEG/ERP signal recording</i> (Elmiko)</p>	

18.45 – 19.45	<p>- Large Aula A -</p> <p>Plenary Lecture:</p> <p>Miguel Maravall <i>Response heterogeneity and temporal encoding in the rodent whisker system</i> (University of Sussex, UK)</p>
20.00	<p>Welcome Reception</p>

APRIL 23, 2016 (Saturday)

8.30	<p>Registration opens</p>	
9.00 – 10.30	<p>- Large Aula A -</p> <p><u>Neurophysiology</u> chaired by: Karl Farrow (Neuro-Electronics Research Flanders VIB, KU Leuven, imec, Belgium)</p> <ol style="list-style-type: none"> 1. Karl Farrow: Dissecting neural circuits of the visual system 2. Cagatay Aydin: Impact of locomotion on population activity of visual thalamus and cortex 3. Jan Bielecki: Vision made easy: Box jellyfish is a unique model for visual information processing 4. Katalin Major: Investigation of epileptic seizures following chronic 4-aminopyridine treatment in entorhinal cortex of rat brain slices using MEA (multi electrode array) system 	<p>- Medium Aula -</p> <p><u>Multisensory Integration, Body Representation and Pain</u> chaired by: Tineke van Rijn (Radboud University Nijmegen, the Netherlands) & Emanuel Van den Broeke (Catholic University of Louvain, Belgium)</p> <ol style="list-style-type: none"> 1. Valéry Legrain: Mapping pain in a multisensory space 2. Elia Valentini: Representation of potentially noxious events in the brain: quest for a pre-attentive nociceptive sensory trace 3. Daniele Romano: Body representation shapes responses to painful stimuli 4. Casper van Heck: Pain, empathy, and control; an ERP study
10.45 –	<p>- Large Aula A -</p>	

11.45	<p style="text-align: center;">Plenary Lecture:</p> <p style="text-align: center;">Ghislaine Dehaene-Lambertz</p> <p style="text-align: center;"><i>The infancy of the human brain: brain imaging studies reveal the roots of human cognitive successes</i></p> <p style="text-align: center;">(INSERM, Gif/Yvette, France)</p>		
11.45 - 12.15	Coffee Break		
12.15 - 13.45	<p style="text-align: center;">- Large Aula A -</p> <p style="text-align: center;"><u>NeuroGlia</u></p> <p style="text-align: center;">chaired by: Antje Grosche (University of Regensburg, Germany)</p> <ol style="list-style-type: none"> 1. Antje Grosche: The Müller cell – the glial all-rounder of the retina 2. Mykhailo Batiuk: Unraveling astrocyte heterogeneity using single cell transcriptomics 3. Ana Amaral: Metabolic remodelling during oligodendrocyte precursor cell differentiation 4. Justyna Janowska: Neonatal hypoxic-ischemic insult alters process of gliogenesis in rat brains 	<p style="text-align: center;">- Medium Aula A -</p> <p style="text-align: center;"><u>Neuroeconomics</u></p> <p style="text-align: center;">chaired by: Barbara Fryzeł (Jagiellonian University, Krakow, Poland)</p> <ol style="list-style-type: none"> 1. Tobias Kalenscher: Behavioral and neural basis of inequity aversion in rats 2. Adam Schweda: The effect of stress on thinking and decision making 3. Alexander Soutschek: How the perspective-taking brain turns the future self into a stranger: role of the temporo-parietal junction in delay gratification 4. Amber Heijne: Why we stay with our partners: Psychological and neural mechanisms of stay/leave decision-making 	<p style="text-align: center;">- Seminar Room -</p> <p style="text-align: center;"><u>Interactive Session of Medical Case Reports</u></p> <p style="text-align: center;">chaired by: Marcin Wnuk (Jagiellonian University Medical College, Krakow, Poland)</p> <ol style="list-style-type: none"> 1. Rafał Skowronek: Traumatic basal subarachnoid hemorrhage or ruptured brain aneurysm in 16-year-old boy? – case report 2. Patrycja Mołek: Misleading CT findings in patients with non-convulsive status epilepticus 3. Kamila Miętkiewska: Recurrent myelitis with fluctuating anti-aquaporin-4 autoimmunity in the course of neuromyelitis optica spectrum disorders (NMOsd) 4. Michał Fidera: Neuromyelitis optica and Sjogren Syndrome - pathophysiological relationship or comorbidity? 5. Katarzyna Sawczyńska & Wojciech Bochenek: Fiction or reality – the image

			of neurological disorders in feature films and TV series
13.45 - 14.30	Lunch		
14.30 - 15.45	- Exhibition Room - Poster Session II		
15.45 - 16.45	Meet Your Speaker at the Table / Coffee Break		
16.45 - 18.15	<p>- Large Aula A -</p> <p><u>Sleep & Circadian Rhythms</u> chaired by: Etienne Challet (INCI, CNRS & University of Strasbourg, France)</p> <p>1. Etienne Challet: Circadian clocks, feeding and metabolism</p> <p>2. Patrycja Orłowska-Feuer: Dissecting the role of melanopsin retinal ganglion cells in generation and modulation of infra-slow oscillatory activity in the mouse visual system</p> <p>3. Jagoda Jęczmień: The dorsal lateral geniculate nucleus of the thalamus responses to light are modulated by sleep-like states – in vivo electrophysiological study on urethane-anesthetized rat</p> <p>4. Magdalena Smyk: Synchrony is the key: jet lag consequences in epileptic rats</p>	<p>- Medium Aula A -</p> <p><u>Rehabilitation After Acquired Brain-Injury</u> chaired by: Luciano Fasotti (Radboud University Nijmegen, the Netherlands)</p> <p>1. Luciano Fasotti: Cognitive and Graded Activity Training for persistent fatigue after Stroke: A randomized controlled trial</p> <p>2. Dirk Bertens: A randomized controlled trial of errorless Goal Management Training in persons with brain injury</p> <p>3. Urszula Górska: Monitoring the auditory textures processing in human cortex to distinguish states of consciousness</p> <p>4. Viona Wijnen: Resting state EEG during recovery to consciousness</p>	<p>- Medium Aula B -</p> <p><u>Psychophysiology of Higher Cognitive Functions</u> chaired by: Tytus Sosnowski (University of Warsaw, Poland)</p> <p>1. Tytus Sosnowski: Patterns of brain and cardiovascular activation</p> <p>2. Ewa Ratajczak: Heart-coded. Heart rate variability as a psychophysiological marker of cognitive performance and psychological functioning – an EEG-ECG study</p> <p>3. Wojciech Zajkowski: Crucial role of right frontopolar cortex in directed exploration</p> <p>4. Ewa Beldzik: Brain activations related to saccadic reaction time and response conflict</p> <p>5. Karolina Finc: Functional</p>

			network reconfiguration related to increasing cognitive effort
18.30 - 19.30	<p>- Large Aula A -</p> <p>Plenary Lecture:</p> <p>Robert Lucas</p> <p><i>Re-imagining vision following the discovery of new photoreceptors</i></p> <p>(University of Manchester, UK)</p>		
	Social Event: party for all participants		

APRIL 24, 2016 (Sunday)			
9.30 - 10.30	<p>- Large Aula A -</p> <p>Plenary Lecture:</p> <p>Benno Roozendaal</p> <p><i>Stress and emotional arousal effects on memory</i></p> <p>(Radboud University Nijmegen, the Netherlands)</p>		
10.30 - 11.00	Coffee Break		
11.00 - 12.30	<p>- Large Aula A -</p> <p><u>Neuropsychiatry</u> chaired by: Ingo Willuhn (Institute of the Royal Netherlands Academy of Arts and Sciences, the Netherlands)</p> <p>1. Ingo Willuhn: Striatal dopamine dynamics during flexible behavior and compulsive actions</p> <p>2. Justyna Papciak: Investigating affective biases in Sprague Dawley rats using</p>	<p>- Medium Aula -</p> <p><u>Brain Networks and Brain Oscillations</u> chaired by: Rob van der Lubbe (University of Twente, the Netherlands)</p> <p>1. Rob van der Lubbe: Are early ERP components the result of a phase reset of ongoing pre-stimulus oscillations?</p> <p>2. Michał Bola: Loss of inner awareness is related to hyper-correlated brain activity</p>	

	<p>hormonal manipulations</p> <p>3. Justyna Barut: Regulation of gene transcription in response to depressive-like behavior induced by morphine abstinence</p> <p>4. Joanna Danielewicz: Imipramine treatment partially reverses the effects of maternal separation stress on synaptic modification range in the rat lateral amygdala</p>	<p>3. Amir Avnit: Normalization of Abnormal Frontal Lateralization in ADHD via Deep TMS</p> <p>4. Bálint File: Resting state brain networks predict the characteristics of visual evoked potentials</p> <p>5. István Sulykos: Electrophysiological correlates of visual search asymmetry; a visual mismatch negativity study</p>
<p>12.30 – 13.15</p>	<p>Lunch</p>	
<p>13.15 – 14.30</p>	<p>- Exhibition Room -</p> <p>Poster Session III</p>	
<p>14.30 – 16.00</p>	<p>- Large Aula A -</p> <p><u>Learning and Memory</u> chaired by: Marta Moita (Champalimaud Centre for the Unknown, Lisbon, Portugal)</p> <p>1. Marta Moita: The study of defense behaviors as alarm cues</p> <p>2. Karolina Rokosz: Neural circuits underlying emotional contagion</p> <p>3. Davide Ciliberti: Closed-loop control of hippocampal memory processing in freely behaving rats</p> <p>4. Malgorzata Borczyk: Studying ultrastructure of stimulated synapses with 3D electron microscopy</p>	<p>- Medium Aula -</p> <p><u>Neural Correlates of Motor Activity</u> chaired by: Emilia Zabielska-Mendyk (John Paul II Catholic University of Lublin, Poland)</p> <p>1. Weronika Potok: The temporal involvement of the left Supramarginal Gyrus in planning functional grasps</p> <p>2. Christabel Chittick: Diminished somatosensory perception of the affected hand in children with unilateral Cerebral Palsy – an Event-Related Potential study</p> <p>3. Jesse Saris: Are mirror movements in children with unilateral cerebral palsy related to secondary degeneration of the posterior part of the corpus callosum?</p> <p>4. Witold Sławko: Connectivity of the primary motor cortex in bilateral upper limb congenitally amputated patients: a DTI study</p> <p>5. Joanna Mencil: Decrease of total power of the EEG after motor imagery training in</p>

		patient with bilateral upper limb congenital transverse deficiency
16.00 - 17.00	<p>- Large Aula A -</p> <p>Closing Lecture:</p> <p>Karl Gegenfurtner</p> <p><i>Vision and eye movements</i></p> <p>(Giessen University, Germany)</p>	
17.00 - 17.15	<p>- Large Aula A -</p> <p>Closing Remarks</p> <p>(with awards for the best oral and poster presentations)</p>	