

Final Program of the NEURONUS 2014 IBRO & IRUN Neuroscience Forum

April 25-27 2014

Auditorium Maximumum of the Jagiellonian University Krakow, Poland

APRIL 25, 2014 (Friday)		
12.30	-Main hall_ Registration opens	
13.30 - 14.30	- Large Aula A - Lecture and interactive presentation: Guilherme A. Zimeo Morais <i>fNIRS: a cost-effective and robust technique for measuring neuroactivation</i> (NIRx Instrumentation and Application Engineer)	
14.45	- Large Aula A - Opening Ceremony	
15.00 - 16.00	- Large Aula A - Opening Lecture: David Colquhoun <i>Inference of mechanisms from single ion channel observations. New light on the mechanism of partial agonism</i> (University College London, UK)	
16.15 - 17.45	- Large Aula A - Session I Basic Neuroscience chaired by: Laura Cancedda (Italian Institute of Technology, Genova, Italy) 1. Laura Cancedda: Modulation of intracellular chloride to regulate synaptic	- Medium Aula - Session I Neural Correlates of Language Processing chaired by: Marcin Szwed (Jagiellonian University, Poland) 1. Marcin Szwed: Understanding learning to read through fMRI of rapid

	<p>plasticity and rescue cognitive functions in Down Syndrome</p> <p>2. Joanna Szczurkowska: Negr1 is required for transition of migrating pyramidal neurons from layer V to layer II/III of the mouse cerebral cortex</p> <p>3. Magdalena Kisiel: Mutations of a position alpha1F64 in GABAA receptor binding site differently influence modulation GABA-ergic currents by basic and acidic pH</p> <p>4. Urszula Górska: Cholesterol determines fusion pore properties</p>	<p>letter detection in skilled adult readers and dyslexic 10-year old children</p> <p>2. Anna Beres: Translanguaging: a way to facilitate new knowledge acquisition</p> <p>3. Szymon Biduła: Modulations within the right temporal lobe differentiate between typically and atypically organized language</p> <p>4. Katarzyna Siuda: Reading with eyes closed: the preliminary effects of tactile Braille reading course for sighted measured with fMRI</p> <p>5. Łukasz Bola: When the sighted brain goes tactile: neuroplasticity in sighted Braille learners</p>
17.45 – 18.15	Coffee Break	
18.15 – 19.15	<p>- Large Aula A -</p> <p>Plenary lecture:</p> <p>Nikos Logothetis</p> <p><i>Hippocampal–cortical interactions during periods of subcortical silence</i> (Max Planck Institute for Biological Cybernetics, Tübingen, Germany)</p>	
19.15 - 20.15	<p>- Large Aula A -</p> <p>‘Meet Your Speaker’ with special lecture by David Colquhoun</p> <p><i>The crisis of reproducibility. Why is so much published science wrong?</i></p>	
20.15	Welcome Reception	

APRIL 26, 2014 (Saturday)

8.30	Registration opens	
9.00 - 10.30	<p>- Large Aula A -</p> <p>Session II <u>Neuropathology</u> chaired by: Gilles van Luijtelaar (Radboud University Nijmegen, the Netherlands)</p> <p>1. Gilles van Luijtelaar: New outlooks on absence epilepsy</p> <p>2. Valerio D'Amore: Effects of chronic treatment with the mGluR5 (VU0360172) and the mGluR1 (RO0711401) enhancers on absence seizures</p> <p>3. Dragan Hrnčić: Modulation of NO signaling pathways in an experimental model of epilepsy: focus on ictal EEG</p> <p>4. Bálint Péter Kerekes: Simultaneous Electrophysiology and Ca-imaging of human cortical synchronous population activity in vitro</p>	<p>- Medium Aula -</p> <p>Session II <u>Affective Neuroscience</u> chaired by: Hadas Okon-Singer (University of Haifa, Israel)</p> <p>1. Hadas Okon-Singer: Are we able to ignore emotional distractors? The influence of attention, personality, and neural architecture</p> <p>2. Wojciech Zajkowski: Frustrated brain – introduction to a novel fMRI stress induction procedure</p> <p>3. Marta Jaśkiewicz: The affective aspect of music aesthetic. An ERP study</p> <p>4. Mirosław Wyczesany: EEG connectivity reveals effects of emotional state on visual and attentional systems</p>
10.30 - 11.00	Coffee Break	
11.00 - 12.30	<p>- Large Aula A -</p> <p>Session III <u>Neurophysiology</u> chaired by: Fabian Kloosterman (Neuro-Electronics Research Flanders, Leuven, Belgium)</p> <p>1. Fabian Kloosterman: Reliving your experiences: memory replay in the hippocampus</p>	<p>- Medium Aula -</p> <p>Session III <u>Visual Processing</u> chaired by: Gilles Pourtois (Ghent University, Belgium)</p> <p>1. Gilles Pourtois: Modulation of the earliest stimulus-driven wave of activation in human primary visual cortex through competition with endogenous attention</p>

	<p>2. Anna Pitas: Neuronal tuning to instantaneous stimulation interval in the barrel cortex</p> <p>3. Yaneri A. Ayala: Stimulus specific adaptation and its modulation by inhibition and acetylcholine in the auditory brain</p> <p>4. Jarosław Motylewski: Primary cortical neuronal cultures on graphene oxide and reduced graphene oxide</p>	<p>2. Ewa Beldzik: Dissociating EEG sources associated to stimulus and response evaluation in numerical Stroop task using Independent Component Analysis</p> <p>3. Michał Bola: Functional connectivity network breakdown in blindness</p> <p>4. Rob van der Lubbe: The influence of Mindfulness training on EEG indices for attentional orienting</p>	
12.45 - 13.45	<p>- Large Aula A -</p> <p>Plenary lecture:</p> <p>Rafael Malach</p> <p><i>Letting go in human brain research</i></p> <p>(Weizmann Institute of Science, Israel)</p>		
13.45 - 15.00	Lunch		
15.00 - 16.30	<p>- Large Aula A -</p> <p>Session IV Neurogenetics chaired by: Paul Franken (IBRO Alumnus) (University of Lausanne, Switzerland)</p> <p>1. Paul Franken: Genetic dissection of rhythmic brain activity during sleep</p> <p>2. Urszula Skupio: Chronic activation of the glucocorticoid receptor induces behavioural and molecular markers of depression in mice</p> <p>3. Katarzyna Lepeta: untranslated region</p>	<p>- Medium Aula -</p> <p>Session IV Neural Correlates of Pain and Somatosensory Stimulation chaired by: Tineke van Rijn (Radboud University Nijmegen, the Netherlands)</p> <p>1. Emanuel van der Broeke: Characterizing secondary hyperalgesia induced by high frequency electrical stimulation</p> <p>2. Joukje Oosterman: Cognitive correlates of pain report in the elderly</p> <p>3. Diana Torta: Visuo-proprioceptive conflicts</p>	<p>- Conference Room -</p> <p>Interactive Session on Medical Case Reports chaired by: Krzysztof Banaszekiewicz (John Paul's Hospital in Krakow, Poland)</p> <p>1. Michał Błaż: An encephalitic patient with psychiatric symptoms at onset</p> <p>2. Carmen Góralski: Recovery of a Patient with Miller-Fisher Syndrome, a Variant of Guillain-Barre Syndrome</p> <p>3. Mark-Victor Siwoski: Insidious progression</p>

	<p>polymorphisms of matrix metalloproteinase 9 and their role in schizophrenia. The role in the local translation</p> <p>4. Stefano Espinoza: Frontostriatal dysfunction in mice lacking TAAR1</p>	<p>and nociception</p> <p>4. Dagmar van Rijckevorsel: Altered neuronal pain processing in anterior cutaneous nerve entrapment syndrome</p>	<p>of hereditary vascular dementia in a patient with migraines and stroke</p> <p>4. Natalia Pawełczyk: Pelizaeus-Merzbacher Disease - a case report</p> <p>5. Katarzyna Siuda: Emotional disorders in patients with cerebellar lesions</p> <p>6. Piotr Śliwiński: Tethered spinal cord syndrome – Usability of surgical treatment in adults - case report</p> <p>7. Piravin Kumar Ramakrishnan: Mother and son diagnosed with Tick-borne Encephalitis transmitted by consumption of unpasteurized goat milk</p> <p>8. Grzegorz Siwek: Obsessive Compulsive Disorder as a complication of deep brain stimulation therapy for Parkinson’s Disease: a case study</p>
<p>16.30 - 18.15</p>	<p>- Exhibition Room -</p> <p>Poster Session I & Coffee</p>		
<p>18.15 - 19.15</p>	<p>- Large Aula A -</p> <p>Plenary lecture:</p> <p>Philbert Tsai</p> <p><i>Blood flow and the angioarchitecture of mouse cerebral cortex</i></p> <p>(University of California, San Diego, USA)</p>		
<p>20.30</p>	<p>Social Event: party for all participants</p>		

APRIL 27, 2014 (Sunday)

<p>9.00 – 10.30</p>	<p>- Large Aula A -</p> <p>Session V Neurode(re)generation chaired by Patrik Verstreken (University of Leuven, VIB, Belgium)</p> <p>1. Patrik Verstreken: Targeting mitochondrial dysfunction in Parkinson's disease</p> <p>2. Henrike Kristen: Herpes simplex virus type 2 induces the appearance of Alzheimer's disease-like neurodegenerative markers</p> <p>3. Mayank Chaturvedi: TIMP-1 loaded nanoparticles: a therapeutic strategy for neuroprotection</p> <p>4. Maciej Sułkowski: Distinct neuronal differentiation of induced Pluripotent Stem Cells (iPS) into dopamine and neuromelanin producing cells</p>	<p>- Medium Aula -</p> <p>Session V Psychopathology in Neuroscientific Research chaired by: Adrianna Mendrek (Bishop's University, Canada)</p> <p>1. Adrianna Mendrek: Sex, drugs and the brain</p> <p>2. Sven Müller: Incidental threat during visuo-spatial working memory in adolescent anxiety: An emotional memory-guided saccade task</p> <p>3. Ingrida Antonova: Schizophrenic patients show abnormal early brain activation during lateralized visual stimulation</p> <p>4. Ingar Zielinski: Developmental Disregard in children with unilateral Cerebral Palsy - A spatial attention deficit?</p>
<p>10.30 – 11.00</p>	<p>Coffee Break</p>	
<p>11.00 – 12.00</p>	<p>- Large Aula A -</p> <p>Plenary lecture:</p> <p>Angela Roberts <i>Neurobiological mechanisms underlying the regulation of negative emotion</i> (University of Cambridge, UK)</p>	
<p>12.00 – 13.00</p>	<p>Lunch</p>	
<p>13.00 – 14.30</p>	<p>- Exhibition Room -</p> <p>Poster Session II</p>	

<p>14.30 - 16.00</p>	<p style="text-align: center;">- Large Aula A -</p> <p style="text-align: center;">Session VI <u>Learning and Memory</u> chaired by Ewelina Knapska (Nencki Institute of Experimental Biology, Warsaw, Poland)</p> <p>1. Ewelina Knapska: A cure for fear: apart or together?</p> <p>2. Alicja Puścian: Diverse patterns of behavioral deficits in subjects being genetic mouse model of Fragile X syndrome</p> <p>3. Jeffrey Martin: Delay discounting behaviour in dopamine D1 mutant and wild type rats</p> <p>4. Dominika Drulis - Fajdasz: Inhibition of glycogen metabolism in astrocytes positively influence on the synaptic plasticity in old rats</p>	<p style="text-align: center;">- Medium Aula -</p> <p style="text-align: center;">Session VI <u>SSVEP Frequency Responses in Human EEG Studies</u> chaired by: Jarosław Żygierewicz (University of Warsaw, Poland)</p> <p>1. Jarosław Żygierewicz: Quantification of SSVEP Frequency Responses in Human EEG related to BCI</p> <p>2. Anna Chabuda: SSVEP-BCI based on the phase relationship of the stimulus and response</p> <p>3. Maciej Łabecki: Habituation of Steady State Visual Evoked Potentials</p> <p>4. Maria Nowicka: Time evolution of Steady State Visual Evoked Potentials for different stimulation frequencies</p> <p>5. Aleksandra Pidde: Comparison of LDA and SVM classifiers in classification of motor imagery based on EEG</p> <p>6. Paweł Kordowski: Spatio-Temporal Dictionaries for Multivariate Matching Pursuit Decompositions of Evoked Brain Responses in MEG</p>
<p>16.15 - 17.15</p>	<p style="text-align: center;">- Large Aula A - Closing lecture: Carles Escera <i>Neural mechanisms of auditory perception: regularity encoding and deviance detection from brainstem to cortex</i> (University of Barcelona, Spain)</p>	
<p>17.15 - 17.30</p>	<p style="text-align: center;">Closing remarks (with awards for the best oral and poster presentations)</p>	