

**Program of the NEURONUS 2014 IBRO & IRUN Neuroscience Forum**  
**April 25-27 2014, Krakow, Poland**

<b>APRIL 25, 2014 (Friday)</b>			
<b>13.30 - 14.30</b>	<b>Guilherme A. Zimeo Morais,</b> <b>fNIRS: a cost-effective and robust technique for measuring neuroactivation</b> (NIRx Instrumentation and Application Engineer)		
<b>14.45</b>	Opening Ceremony		
<b>15.00 - 16.00</b>	Opening Lecture: <b>David Colquhoun</b> <b>Inference of mechanisms from single ion channel observations. New light on the mechanism of partial agonism.</b> (University College London, UK)		
<b>16.15 - 17.45</b>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p align="center">Session I  <b><u>Basic Neuroscience</u></b>            chaired by: <b>Laura Cancedda</b>            (Italian Institute of Technology, Genova, Italy)</p> <p>1. <b>Laura Cancedda:</b> Modulation of intracellular chloride to regulate synaptic plasticity and rescue cognitive functions in Down Syndrome.</p> <p>2. <b>Joanna Szczurkowska:</b> Negr1 is required for transition of migrating pyramidal neurons from layer V to layer II/III of the mouse cerebral cortex.</p> <p>3. <b>Magdalena Kisiel:</b> Mutations of a position alpha1F64 in GABAA receptor binding site differently influence modulation GABA-ergic currents by basic and acidic pH.</p> <p>4. <b>Urszula Górska:</b> Cholesterol determines fusion pore properties.</p> </td> <td style="width: 50%; vertical-align: top;"> <p align="center">Session I  <b><u>Neural Correlates of Language Processing</u></b>            chaired by: <b>Marcin Szwed</b>            (Jagiellonian University, Poland)</p> <p>1. <b>Marcin Szwed:</b> Understanding learning to read through fMRI of rapid letter detection in skilled adult readers and dyslexic 10-year old children.</p> <p>2. <b>Anna Beres:</b> Translanguaging: a way to facilitate new knowledge acquisition.</p> <p>3. <b>Szymon Biduła:</b> Modulations within the right temporal lobe differentiate between typically and atypically organized language.</p> <p>4. <b>Katarzyna Siuda:</b> Reading with eyes closed: the preliminary effects of tactile Braille reading course for sighted measured with fMRI.</p> <p>5. <b>Łukasz Bola:</b> When the sighted brain goes tactile: neuroplasticity in sighted Braille learners.</p> </td> </tr> </table>	<p align="center">Session I  <b><u>Basic Neuroscience</u></b>            chaired by: <b>Laura Cancedda</b>            (Italian Institute of Technology, Genova, Italy)</p> <p>1. <b>Laura Cancedda:</b> Modulation of intracellular chloride to regulate synaptic plasticity and rescue cognitive functions in Down Syndrome.</p> <p>2. <b>Joanna Szczurkowska:</b> Negr1 is required for transition of migrating pyramidal neurons from layer V to layer II/III of the mouse cerebral cortex.</p> <p>3. <b>Magdalena Kisiel:</b> Mutations of a position alpha1F64 in GABAA receptor binding site differently influence modulation GABA-ergic currents by basic and acidic pH.</p> <p>4. <b>Urszula Górska:</b> Cholesterol determines fusion pore properties.</p>	<p align="center">Session I  <b><u>Neural Correlates of Language Processing</u></b>            chaired by: <b>Marcin Szwed</b>            (Jagiellonian University, Poland)</p> <p>1. <b>Marcin Szwed:</b> Understanding learning to read through fMRI of rapid letter detection in skilled adult readers and dyslexic 10-year old children.</p> <p>2. <b>Anna Beres:</b> Translanguaging: a way to facilitate new knowledge acquisition.</p> <p>3. <b>Szymon Biduła:</b> Modulations within the right temporal lobe differentiate between typically and atypically organized language.</p> <p>4. <b>Katarzyna Siuda:</b> Reading with eyes closed: the preliminary effects of tactile Braille reading course for sighted measured with fMRI.</p> <p>5. <b>Łukasz Bola:</b> When the sighted brain goes tactile: neuroplasticity in sighted Braille learners.</p>
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<b>17.45 - 18.15</b>	Coffee Break		
<b>18.15 - 19.15</b>	Plenary lecture: <b>Nikos Logothetis</b> <b>Hippocampal-cortical interactions during periods of subcortical silence.</b> (Max Planck Institute for Biological Cybernetics, Tübingen, Germany)		
<b>19.15 - 20.15</b>	Meet Your Speaker		

	with special lecture by <b>David Colquhoun</b> <b>The crisis of reproducibility. Why is so much published science wrong?</b>
<b>20.15</b>	Welcome Reception

<b>APRIL 26, 2014 (Saturday)</b>		
<b>9.00 - 10.30</b>	<p>Session II <b><u>Neuropathology</u></b> chaired by: <b>Gilles van Luijtelaa</b> (Radboud University Nijmegen, the Netherlands)</p> <p>1. <b>Gilles van Luijtelaa</b>: New outlooks on absence epilepsy.</p> <p>2. <b>Valerio D'Amore</b>: Effects of chronic treatment with the mGluR5 (VU0360172) and the mGluR1 (RO0711401) enhancers on absence seizures.</p> <p>3. <b>Dragan Hrnčić</b>: Modulation of NO signaling pathways in an experimental model of epilepsy: focus on ictal EEG.</p> <p>4. <b>Bálint Péter Kerekes</b>: Simultaneous Electrophysiology and Ca-imaging of human cortical synchronous population activity in vitro.</p>	<p>Session II <b><u>Affective Neuroscience</u></b> chaired by: <b>Hadas Okon-Singer</b> (University of Haifa, Israel)</p> <p>1. <b>Hadas Okon-Singer</b>: Are we able to ignore emotional distractors? The influence of attention, personality, and neural architecture.</p> <p>2. <b>Wojciech Zajkowski</b>: Frustrated brain – introduction to a novel fMRI stress induction procedure.</p> <p>3. <b>Marta Jaśkiewicz</b>: The affective aspect of music aesthetic. An ERP study.</p> <p>4. <b>Mirosław Wyczesany</b>: EEG connectivity reveals effects of emotional state on visual and attentional systems.</p>
	<b>10.30 - 11.00</b>	Coffee Break
<b>11.00 - 12.30</b>	<p>Session III <b><u>Neurophysiology</u></b> chaired by: <b>Fabian Kloosterman</b> (Neuro-Electronics Research Flanders, Leuven, Belgium)</p> <p>1. <b>Fabian Kloosterman</b>: <i>title to be announced</i></p> <p>2. <b>Anna Pitas</b>: Neuronal tuning to instantaneous stimulation interval in the barrel cortex.</p> <p>3. <b>Yaneri A. Ayala</b>: Stimulus specific adaptation and its modulation by inhibition and acetylcholine in the auditory brain.</p> <p>4. <b>Jarosław Motylewski</b>: Primary cortical neuronal cultures on graphene oxide and</p>	<p>Session III <b><u>Visual Processing</u></b> chaired by: <b>Gilles Pourtois</b> (Ghent University, Belgium)</p> <p>1. <b>Gilles Pourtois</b>: Modulation of the earliest stimulus-driven wave of activation in human primary visual cortex through competition with endogenous attention.</p> <p>2. <b>Ewa Beldzik</b>: Dissociating EEG sources associated to stimulus and response evaluation in numerical Stroop task using Independent Component Analysis.</p> <p>3. <b>Michał Bola</b>: Functional connectivity network breakdown in blindness.</p> <p>4. <b>Rob van der Lubbe</b>: The influence of Mindfulness training on EEG indices for</p>

	reduced graphene oxide.	attentional orienting.	
<b>12.45 - 13.45</b>	Plenary lecture: <b>Rafael Malach</b> <b>Letting go in human brain research.</b> (Weizmann Institute of Science, Israel)		
<b>13.45 - 15.00</b>	Lunch		
<b>15.00 - 16.30</b>	<p>Session IV  <u><b>Neurogenetics</b></u>  chaired by: <b>Paul Franken</b>  (University of Lausanne,  Switzerland)</p> <p>1. <b>Paul Franken:</b> Genetic dissection of rhythmic brain activity during sleep.</p> <p>2. <b>Urszula Skupio:</b> Chronic activation of the glucocorticoid receptor induces behavioural and molecular markers of depression in mice.</p> <p>3. <b>Katarzyna Lepeta:</b> untranslated region polymorphisms of matrix metalloproteinase 9 and their role in schizophrenia. The role in the local translation.</p> <p>4. <b>Stefano Espinoza:</b> Frontostriatal dysfunction in mice lacking TAAR1.</p>	<p>Session IV  <u><b>Neural Correlates of Pain and Somatosensory Stimulation</b></u>  chaired by: <b>Tineke van Rijn</b> (Radboud University Nijmegen, the Netherlands)</p> <p>1. <b>Emanuel van der Broeke:</b> Characterizing secondary hyperalgesia induced by high frequency electrical stimulation.</p> <p>2. <b>Joukje Oosterman:</b> Cognitive correlates of pain report in the elderly.</p> <p>3. <b>Diana Torta:</b> Visuo-proprioceptive conflicts and nociception.</p> <p>4. <b>Dagmar van Rijckevorsel:</b> Altered neuronal pain processing in anterior cutaneous nerve entrapment syndrome</p>	<p><u><b>Interactive Session on Medical Case Reports</b></u>  chaired by:  <b>Krzysztof Banaszekiewicz</b>  (John Paul's Hospital in Krakow, Poland)</p> <p>1. <b>Michał Błaż:</b>  An encephalitic patient with psychiatric symptoms at onset.</p> <p>2. <b>Carmen Góralski:</b>  Recovery of a Patient with Miller-Fisher Syndrome, a Variant of Guillain-Barre Syndrome.</p> <p>3. <b>Mark-Victor Siwoski:</b>  Insidious progression of hereditary vascular dementia in a patient with migraines and stroke.</p> <p>4. <b>Natalia Pawełczyk:</b>  Pelizaeus-Merzbacher Disease - a case report.</p> <p>5. <b>Katarzyna Siuda:</b>  Emotional disorders in patients with cerebellar lesions.</p> <p>6. <b>Piotr Śliwiński:</b>  Tethered spinal cord syndrome – Usability of surgical treatment in adults - case report.</p> <p>7. <b>Piravin Kumar Ramakrishnan:</b>  Mother and son diagnosed with Tick-borne Encephalitis transmitted by consumption of unpasteurized goat milk.</p> <p>8. <b>Grzegorz Siwek:</b></p>

		Obsessive Compulsive Disorder as a complication of deep brain stimulation therapy for Parkinson's Disease: a case study.
<b>16.30 - 18.15</b>	Poster Session I & Coffee Break	
<b>18.15 - 19.15</b>	Plenary lecture: <b>Philbert Tsai</b> <b>Blood flow and the angioarchitecture of mouse cerebral cortex.</b> (University of California, San Diego, USA)	
<b>21.00</b>	Social Event: party for all participants	

<b>APRIL 27, 2014 (Sunday)</b>		
<b>9.00 - 10.30</b>	Session V <u><b>Neurode(re)generation</b></u> chaired by Patrik Verstreken (University of Leuven, VIB, Belgium)  1. <b>Patrik Verstreken:</b> <i>title to be announced</i>  2. <b>Henrike Kristen:</b> Herpes simplex virus type 2 induces the appearance of Alzheimer's disease-like neurodegenerative markers  3. <b>Mayank Chaturvedi:</b> TIMP-1 loaded nanoparticles: a therapeutic strategy for neuroprotection.  4. <b>Maciej Sułkowski:</b> Distinct neuronal differentiation of induced Pluripotent Stem Cells (iPS) into dopamine and neuromelanin producing cells.	Session V <u><b>Psychopathology in Neuroscientific Research</b></u> chaired by: <b>Adrianna Mendrek</b> (Bishop's University, Canada)  1. <b>Adrianna Mendrek:</b> Sex, drugs and the brain.  2. <b>Sven Müller:</b> Incidental threat during visuo-spatial working memory in adolescent anxiety: An emotional memory-guided saccade task.  3. <b>Ingrida Antonova:</b> Schizophrenic patients show abnormal early brain activation during lateralized visual stimulation.  4. <b>Azeez Ayodeji Adebimpe:</b> The comparison of resting state networks between normal children and adolescents with benign childhood epilepsy with centrotemporal spikes: A high density EEG study.
	<b>10.30 - 11.00</b> Coffee Break	
<b>11.00 - 12.00</b>	Plenary lecture: <b>Angela Roberts</b> <b>Neurobiological mechanisms underlying the regulation of negative emotion</b> (University of Cambridge, UK)	
<b>12.00 - 13.00</b>	Lunch	
<b>13.00 - 14.30</b>	Poster Session II	
<b>14.30 - 16.00</b>	Session VI <u><b>Learning and Memory</b></u> chaired by Ewelina Knapska (Nencki Institute of Experimental Biology, Warsaw, Poland)	Session VI <u><b>SSVEP Frequency Responses in Human EEG Studies</b></u> chaired by: <b>Jarosław Żygierewicz</b> (University of Warsaw, Poland)

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