

Final Program of the NEURONUS 2015 IBRO & IRUN Neuroscience Forum

April 17-19 2015

Auditorium Maximum of the Jagiellonian University, Krakow, Poland

APRIL 17, 2015 (Friday)			
10.00	- Main Hall - Registration opens		
11.00 – 13.00	- Large Aula A - Anthony Newman <i>How to Write a Great Research Paper, and Get It Accepted by a Good Journal</i> (Life Sciences Department, Elsevier, Amsterdam, the Netherlands)		
13.00 – 13.30	Coffee break		
13.30 – 13.45	- Large Aula A - Opening Ceremony		
13.45 – 14.45	- Large Aula A - Opening lecture: Dame Pamela J. Shaw <i>A translational neuroscience approach to the problem of motor neurone disease</i> (University of Sheffield, UK)		
15.00 – 16.30	- Large Aula A - Session I Neuroimmunology chaired by: Asya Rolls (Israel Institute of Technology, Haifa, Israel) 1. Asya Rolls : It takes a nerve to control immunity (<i>IBRO Alumni Lecture</i>)	- Medium Aula A - Session I Neuroeconomics - neural mechanisms of decision-making chaired by: Barbara Fryzel (Jagiellonian University, Krakow, Poland) & Jan Rodriguez Parkitna (Polish Academy of Sciences, Krakow, Poland)	- Medium Aula B - Session II Advanced EEG Signal Analyses chaired by: Boris Gutkin (Ecole Normale Superieure, Paris, France) 1. Boris Gutkin : Selective roles of multiple oscillatory

	<p>2. Magdalena Kostrzewa: Endocannabinoid system and pain due to osteoarthritis pain</p> <p>3. Daria Gendosz: Pre-Chiasmatic Subarachnoid Hemorrhage leads to disintegration of Blood-Brain Barrier, by Tight Junctions proteins disassemblance</p> <p>4. Dominika Luptáková: Neurodegeneration, blood-brain barrier disruption and neuroinflammation as a consequence of hypoxic-ischemic insult to newborn rats</p>	<p>1. Philippe Tobler: Separating reward from salience in the brain</p> <p>2. Zsofia Hangebrauk: Combined effects of cortisol and noradrenaline cause decreased loss aversion</p> <p>3. Tina Strombach: The neural underpinnings of performance-based incentives</p> <p>4. Marcin Jaracz: Economic decision-making and neurocognitive performance in schizophrenia and bipolar disorder</p> <p>5. Jan Rodriguez Parkitna: The role of neuronal plasticity in the dopamine system in reward-driven learning</p>	<p>bands in flexible control of working memory</p> <p>2. Paweł Matusz: Learning occurs in multisensory environments: Individual differences, developmental trajectories, consequences</p> <p>3. Dania Gutierrez: Modeling a learning process through functional analysis-of-variance of brain rhythms</p> <p>4. Rob van der Lubbe: Two sides of the same coin: ERP and wavelet analyses in a Go\NoGo paradigm with emotional facial expressions</p>
<p>16.30 – 18.00</p>	<p>Coffee break</p>		
<p>16.30 – 18.00</p>	<p>- Exhibition Room - Poster Session I</p>	<p>- Medium Aula - Commercial presentation: <i>Current and future applications of non-invasive and invasive BCIs</i> (Neuro Device)</p>	
<p>18.15 – 19.45</p>	<p>- Large Aula A - Plenary lectures:</p> <p>Tom Johnstone <i>The neural basis for a balanced emotional system</i> (University of Reading, UK)</p> <p>Paul Whalen <i>Face to Face with the Emotional Brain</i> (Dartmouth College, USA & Leverhulme Trust Visiting Professor at the University of Reading, UK)</p>		
<p>20.00</p>	<p>Welcome Reception</p>		

APRIL 18, 2015 (Saturday)

<p>8.30</p>	<p>- Main hall - Registration opens</p>		
<p>9.00 – 10.30</p>	<p>- Large Aula A -</p> <p>Session II <u>Learning and Memory</u> chaired by: Katarzyna Radwańska (Nencki Institute of Experimental Biology, Warsaw, Poland)</p> <p>1. Katarzyna Radwańska: A mechanism for long-term memory formation when synaptic strengthening is impaired</p> <p>2. Magdalena Robacha: The role of CamKII autophosphorylation in fear memory extinction</p> <p>3. Joanna Gołębiowska: Effects of acute and chronic pharmacological manipulations of the serotonergic system on cognitive judgment bias in rats</p> <p>4. Adrian Podkowa: The comparison of the effects of donepezil and rivastigmine on memory and learning abilities using Morris water maze and two-day radial-arm water maze in mice</p>	<p>- Medium Aula -</p> <p>Session III <u>Pain and the Brain</u> chaired by: Tineke van Rijn (Radboud University Nijmegen, the Netherlands) & Emanuel Van den Broeke (Catholic University of Louvain, Belgium)</p> <p>1. André Mouraux: Neuroimaging of pain: current concepts and misconceptions</p> <p>2. Giulia Liberati: Is the posterior insula specifically involved in pain perception?</p> <p>3. Elisa Carlino: Event-related potential and placebo effect</p> <p>4. Flavia Mancini: Mapping spatial acuity for pain</p>	<p>- Seminar Room -</p> <p>Session VI <u>Multisensory Processing in Clinical and Healthy Population</u> chaired by: Salvatore Campanella (CHU Brugmann-Université Libre de Bruxelles, Belgium)</p> <p>1. Salvatore Campanella: The P300 and the NoGo-P300 event-related potentials: biological markers of abstinence vs. relapse in alcohol dependence?</p> <p>2. Katarzyna Żarnowiec: Encoding of temporal regularity in the human auditory brainstem</p> <p>3. Bartosz Michałowski: The goal within the grasp: an fMRI study of intention-dependent modulations of grasp-related cortical activity</p> <p>4. Elisabeth Colon: EEG frequency-tagging to explore the crossmodal links in spatial attention between vision and touch</p> <p>5. Sylvie Nozaradan: Isolating the neural entrainment to segregated sound streams with frequency-tagging</p>

10.45 – 11.45	<p align="center">- Large Aula A – Plenary lecture:</p> <p align="center">Kia Nobre <i>Premembering Perception</i> (Oxford Centre for Human Brain Activity, UK)</p>		
11.45 – 12.15	Coffee Break		
12.15 – 13.45	<p align="center">- Large Aula A -</p> <p align="center">Session III <u>Neuroplasticity</u> chaired by: Gilles van Luijtelaar (Radboud University Nijmegen, the Netherlands)</p> <p>1. Annemie Van der Linden: Magnetic Resonance Imaging of Brain Plasticity in Songbirds</p> <p>2. Patrycja Brzdak: Matrix metalloprotease 3 inhibitor differentially affects long-term NMDARs function in basal vs apical dendrites of CA1 hippocampal region</p> <p>3. Rosanne Rietveld: Mapping the cortical motor areas with EEG-source localization: developing an alternative for fMRI and TMS</p> <p>4. Nikolaos Priovoulos: Structural changes in the corticospinal tract as a predictor of behavioral changes in adolescents with unilateral Cerebral Palsy: an fMRI informed probabilistic tractography approach</p>	<p align="center">- Medium Aula -</p> <p align="center">Session V <u>Affective Neuroscience</u> chaired by: Gilles Pourtois (Ghent University, Belgium)</p> <p>1. Gilles Pourtois: Early sensory processing in V1 waxes and wanes depending on mood and attention</p> <p>2. Valentina Rossi: Reward and punishment associations show plasticity in visual cortex at different processing stages</p> <p>3. Annekathrin Schacht: Modulation of visual sensory processing by associated valence – Evidence from event-related brain potentials</p> <p>4. Matthias Wieser: Sensory facilitation of threat-predictive (social) cues – Evidence from steady-state visual evoked potentials</p>	<p align="center">- Seminar Room -</p> <p align="center">Session I <u>Interactive Session of Medical Case Reports</u> chaired by: Dame Pamela J. Shaw (University of Sheffield, UK)</p> <p>1. Alena Škutchanová: Bedside consciousness: Evaluation of patients with chronic disorders of consciousness – goals and possible traps in search for purposeful behaviour (case series)</p> <p>2. Kamila Miętkiewska: Diagnostic difficulties in Susac syndrome patient resulting from cognitive impairment</p> <p>3. Agata Średnicka: Neurologic involvement in patient with Localized Scleroderma</p> <p>4. Bartosz Kapustka: MoCap method in the assesment of common symptoms presented in patients with Parkinson’s Disease treated with deep brain stimulation (DBS) surgery</p>
13.45 – 14.30	Lunch		

<p>14.30 – 15.45</p>	<p>- Exhibition Room -</p> <p>Poster Session II</p>		<p>- Medium Aula –</p> <p>Commercial presentation: <i>fNIRS: a cost-effective and robust technique for measuring neuroactivation</i> (Elmiko)</p>
<p>16.00 – 17.30</p>	<p>- Large Aula A -</p> <p>Session IV <u>Neurophysiology</u> chaired by: Christian Henneberger (University of Bonn Medical School, Germany)</p> <p>1. Christian Henneberger: Astrocyte control of NMDA receptor signalling in the hippocampus</p> <p>2. Vadim Grubov: Intrinsic frequency of sleep spindles in EEG in WAG/Rij rats with absence epilepsy</p> <p>3. Konrad Juczewski: Bad Touch: Somatosensory Processing Studies on a Mouse Model of Disease</p> <p>4. Steffen Kandler: Population activity in mouse primary visual cortex during explorative behavior</p>	<p>- Medium Aula -</p> <p>Session VI <u>Aged 50 and still to be explored yet:</u> <u>The P3 component of event-related potentials</u> chaired by: Rolf Verleger (University of Lübeck, Germany)</p> <p>1. Rolf Verleger: Bridging events and actions: P3b reflects activation of stimulus-response links</p> <p>2. Siri-Maria Kamp: P300 and episodic encoding – under which conditions do we observe a P300 “subsequent memory effect”?</p> <p>3. Eligiusz Wronka: Relationship between P3 and individual differences in cognitive abilities</p> <p>4. Francisco Barceló: Putting P300 in context: Its role in the updating of sensory versus sensorimotor representations during cognitive task-set switching</p> <p>5. Tristan Bekinschtein: Surfing a wave of attention: The P3 as a neuroboard for conscious access</p>	<p>- Seminar Room -</p> <p>Session II <u>Neurology</u> chaired by: Wojciech Turaj (Jagiellonian University Medical College, Krakow, Poland)</p> <p>1. Harjot Kaur Grewal: Illicit Drug Use in Hospitals</p> <p>2. Katarzyna Kowalska: Acute post – stroke/TIA depression and anxiety impair executive functioning</p> <p>3. Zofia Ślosarek: Risk factors of cerebral vasospasm after aneurysmal subarachnoid hemorrhage – how to predict the forthcoming silent killer</p>
<p>17.30 - 18.00</p>	<p>Coffee break</p>		

18.00 - 19.00	<p style="text-align: center;">- Large Aula - Plenary lecture:</p> <p style="text-align: center;">Mark Hübener</p> <p style="text-align: center;"><i>Learning to See: How Sensory Experience and Learning Change Neurons in the Visual Cortex</i></p> <p style="text-align: center;">(Max Planck Institute of Neurobiology, Germany)</p>
19.00 – 20.00	<p style="text-align: center;">- Large Aula A -</p> <p style="text-align: center;">Meet Your Speaker – Future of Neuroscience</p>
21.00	<p style="text-align: center;">Social Event: party for all participants</p>

APRIL 19, 2015 (Sunday)

9.30 – 10.30	<p style="text-align: center;">- Large Aula A - Plenary lecture:</p> <p style="text-align: center;">Niels Birbaumer</p> <p style="text-align: center;"><i>Brain-Machine-Interfaces (BMI) in Paralysis and behavioral disorders</i></p> <p style="text-align: center;">(University of Tübingen, Germany)</p>	
10.45 – 12.15	<p style="text-align: center;">- Large Aula A -</p> <p style="text-align: center;">Session V <u>Neuropsychiatry</u> chaired by: David Enblom (Linköping University, Sweden)</p> <p>1. David Enblom: Feeling sick: How inflammation controls dopaminergic circuits</p> <p>2. Federico Moro: Acute and chronic N-acetylcysteine on cue-induced nicotine-seeking behavior</p> <p>3. Maria Nalberczak: The role of Arc/Arg3.1 in the regulation of alcohol-addiction related behavior</p>	<p style="text-align: center;">- Medium Aula -</p> <p style="text-align: center;">Session VII <u>Clinical Affective Neuroscience</u> chaired by: Claudia Schulz (University of Münster, Germany)</p> <p>1. Claudia Schulz: Emotional face learning in social anxiety disorder tracked by event-related potentials</p> <p>2. Artur Marchewka: Too disgusting to forget – the effect of basic emotions on directed forgetting</p> <p>3. Łukasz Okruszek: Attentional engagement with social and non-social emotional stimuli in schizophrenia</p>

	4. Magdalena Zygmunt: Identification and classification of cocaine-induced transcriptional variants and non-coding RNAs in the mouse striatum	4. Berna Sari: Processing emotional faces in relation to cognitive load: An event-related potential study 5. Jarosław Michałowski: Differentiating brain responses to phobic pictures in spider and social phobia individuals: a simultaneous EEG-fMRI study
12.15 - 13.45	Coffee break	
12.15 - 13.45	- Exhibition Room - Poster Session III	- Medium Aula - Commercial presentation: <i>New trends in neuro science translational research</i> (BioTech Europe)
13.45 - 14.30	Lunch	
14.30 - 16.00	- Large Aula A - Session VI <u>Neurode(re)generation</u> chaired by: Antonella Consiglio (University of Barcelona, Spain) 1. Antonella Consiglio: Modeling Parkinson's disease with patient-specific induced pluripotent stem (iPS) cells 2. Roger Torrent: GDNF prevents dopaminergic neurodegeneration in iPS cell-based models of familial and sporadic Parkinson's disease 3. Andrzej Cwetsch: Advantages of in vivo genetic manipulations of the rodent brain innovative by site-directed in utero electroporation with a triple-electrode probe 4. Shovan Naskar: Sequential Development of Glutamatergic and GABAergic Synapses on Principal Neurons in the Rat Neocortex	- Medium Aula - Session VIII <u>Language and Semantic Processing</u> chaired by: Marcin Szwed (Jagiellonian University, Krakow, Poland) 1. Marcin Szwed: The visual cortex is not exclusively visual, and plays a critical role in tactile Braille reading. fMRI, resting-state fMRI and TMS evidence from sighted Braille readers 2. Katarzyna Jednoróg: Neural basis of phonological awareness in beginning readers with familial risk of dyslexia - results from shallow orthography 3. Anna Beres: Electrophysiological basis of production and comprehension of words and pictures: an ERP investigation in Basque-Spanish bilinguals 4. Marianna Boros: Is the VWFA doing all the job? Dorsal stream deficit in dyslexia

		<p>5. Carsten Bundt: Automatic motor activation on the basis of spatial information: a TMS study</p>
<p>16.15 - 17.15</p>	<p>- Large Aula A - Closing lecture:</p> <p>Bassem Hassan</p> <p><i>Signalling mechanisms of axonal growth, injury and regeneration</i></p> <p>(VIB, KU Leuven, Belgium)</p>	
<p>17.15 - 17.30</p>	<p>Closing remarks</p> <p>(with awards for the best oral and poster presentations)</p>	