April 20th, 2012 (Friday)		
15.00 - 17.00	**Stem Cells and Regeneration** **Chair: Benedikt Berninger (IBRO Alumni)** /Ludwig-Maximilians-Universität München, Germany/: ***Making neurons from glia and pericytes: the wizardry of transcription factors.*** 1. **Ewa Rojczyk-Gołębiewska** : Canonical and new sites of neurogenesis in adult organisms. 2. **Piotr Łażewski-Banaszak**: Neurotrophins and their receptors influence the regeneration of a nervous tissue after multiorgan injury caused by gamma irradiation 3. **Martyna Śniegocka**: Assessment of the angiogenesis in malignant solid tumors of the brain. 4. **Ryszard Sordyl**: The role of IL-1β in the expression of the VEGF after subarachnoid hemorrhage in rats. 5. **Joanna Sordyl**: Acute transverse myelitis in children – clinical presentation and the prognostic factors.	**Hemispheric Asymmetry of Language and Vision** **Chair: Kenneth Hugdahl** /University of Bergen, Norway/ 1. **Marcin Szwed**: Lateralisation and specialisation of brain areas for reading. Evidence from fMRI and intracranial recordings in humans. 2. **Patrycja Naumczyk**: Right Ear Advantage and the Level of Hemispheric Asymmetry for Language Processing – Evidence from Functional Magnetic Resonance Imaging. 3. **Kamila Śmigasiewicz**: Is the interaction between hemispheres asymmetric during bilateral RSVP? Evidence from behavior and N2pc and P3 components of ERPs. 4. **Piotr Styrkowiec**: Visuo-motor coding in stimulus-response compatibility: A dynamic factor in interhemispheric interaction. 5. **Rob van der Lubbe**: Lateralized EEG power spectra in an endogenous cuing paradigm with to be discriminated visual targets.
17.00 - 17.30	**Coffee break**	
17.30 - 18.00	**Opening Ceremony**	
18.00 - 19.00	**PLENARY LECTURE** **Kenneth Hugdahl,** /University of Bergen, Norway/ ***Auditory laterality: From basic science to clinical applications***	
19.00	**Welcome Reception**	

April 21st, 2012 (Saturday)		
9.00 - 10.30	**Neurophysiology** **Chair: Gilles van Luijtelaar** /Radboud University Nijmegen, the Netherlands/: ***Dynamics of network interactions in a cortico-thalamo-cortical seizure model.*** 1. **Martin F.J. Perescis**: Convulsive seizures in rats chronically treated with a cannabinoid antagonist. 2. **Jeffrey Martin:** Extracranial EEG recordings of terminal depolarisation: The Wave of Death. 3. **Marianna Boros**: The role of the pontine reticular formation in conscious states.	**Cognitive Neuroscience** **Chair: Aneta Brzezicka** /Warsaw School of Social Science and Humanities, Poland/ 1. **Mateusz Gola**: EEG beta-band power as an indicator of top-down attention. 2. **Jan Kamiński**: Reaction time increase (delta RT) in Sternberg task correlate with individual gamma cycle length: Further evidence for Lisman and Idiart's STM model. 3. **Adam Chuderski**: A computational model of fronto-parietal oscillatory mechanisms underlying individual differences in working memory capacity. **Methods I:** **Katarzyna Blinowska:** Information transfer in brain estimated by means of Directed Transfer Function.
10.30 - 11.00	**Coffee break**	
11.00 - 12.30	**Neurogenetics** **Chair: Oliver Griesbeck** /Max Planck Institut für Neurobiologie, Martinsried, Germany/: ***Proteins, Biosensors, Brains.*** 1. **Marcin Szczot**: Mutation in hydrophobic residue of GABAA receptor binding site strongly influences channel gating. 2. **Piotr Chmielarz**: Gender specific behavioral and molecular changes in mice harboring glucocorticoid receptor deletion in noradrenergic system. 3. **Andrea Evinova:** Major depressive disorder: polymorphism of genes linked with dopamine metabolism in human patients.	**Emotional Functioning from Clinical and Experimental Perspective** **Chair: Sven Muller** /Ghent University, Belgium/: ***The consequences of being anxious early in life: Adolescent anxiety and its impact on the brain and cognition.*** 1. **Annekathrin Schacht**: Electrophysiological correlates of emotional stimulus processing. 2. **Mirosław Wyczesany**: Emotional responsiveness related to visual processing as revealed by EEG component clustering. 3. **Szczepan Grzybowski**: The influence of context on the processing of emotional and neutral adjectives - an ERP study.

12.30 - 13.30	**PLENARY LECTURE** **Sergey Kasparov** /University of Bristol, UK/ ***How can we understand interplay between three components of the brain: neurons, glia and blood vessels?***	
13.30 - 14.30	**Lunch**	
14.30 - 15.30	**MEDICAL CASE REPORTS**	**POSTER SESSION I**
15.30 - 17.00	**Neuropsychiatry** **Chair: Istvan Katona (IBRO Alumni)** /Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest/: ***The synaptic circuit-breaker and its breakdown in brain disorders.*** 1. **Klaudia Szklarczyk:** Susceptibility to stress and transcriptional changes in brain regions critical for fear memory – what can we learn from the mouse model of PTSD? 2. **Maria Lojowska:** Functional and volumetric changes within the fronto-striatal reward system in adolescents and adults with attention-deficit/hyperactivity disorder. 3. **Anastasia Medvid**: Compliance in the Treatment of Children with ADHD**.**	**Neural Correlates of Language Processing** **Chair: Marcin Szwed** /Psychophysiology Lab, Institute of Psychology, Jagiellonian University, Poland/: ***The metamodal brain. fMRI evidence for a reading center in the visual cortex without visual experience.*** 1. **Anna Tyborowska:** Spatial cue use in bilinguals and monolinguals: An fMRI study**.** 2. **Jakub Szewczyk:** Semantic integration and lexical access - two sides of the same coin? **Methods II:** **Agnieszka Burzyńska** Lower white matter integrity is related to higher BOLD signal in healthy adult brain: A whole-brain multivariate integration of fMRI and DTI.
17.00 - 17.30	**Coffee break**	
17.30 - 18.30	**PLENARY LECTURE** **Margaret Niznikiewicz** /Harvard Medical School, USA/ **Communication and communication dysfunction in schizophrenia.**	
18.30	**SCIENTIFIC CAREER OPPORTUNITIES**	
20.30	**SOCIAL EVENTS**	

April 22nd, 2012 (Sunday)		
9.30 - 11.00	**Neurodegeneration** **Chair: Elena Dragicevic** /Universität Ulm, Germany/: ***L-type calcium channels control age-dependent desensitization and plasticity of D2-AR function in dopamine midbrain neurons.*** 1. **Anna Czarnecka**: Role of the nitric oxide in the modulation of L-DOPA activity in the 6-OHDA model of Parkinson's disease. 2. **Joanna Stepek:** Interactions of amyloid β with RAGE (Receptor for Advanced Glycation Endproducts) – a significant phase in AD etiology that could be blocked. 3. **Karolina Krakowska**: Bradykinesia and chorea in Huntington's disease - which symptom affects daily life more?	**Sleep and Pain - Experimental Approach** **Chair: Rolf Verleger** /Universität zu Lübeck, Germany/: ***Sleep inspires insight.*** 1. **Katerina Georgopoulou**: Cortical excitability in insomnia patients. 2. **Clementina van Rijn**: We feel what we expect: Brain Evoked Potentials measured in a cued pain paradigm. 3. **Emanuel van den Broeke**: Comparing neural correlates of heterotopic facilitation induced after high frequency electrical stimulation of human skin between patients with and without persistent pain 6-7 years after inguinal hernia repair.
11.00 - 11.30	**Coffee break**	
11.30 - 13.00	**Neuroplasticity** **Chair: Jacek Jaworski** /International Institute of Molecular and Cell Biology, Warsaw, Poland/: ***Role of mTOR in neuronal development and plasticity.*** 1. **Paulina Kazmierska:** Development of glutamatergically induced oscillatory activity in hippocampal formation - miroEEG approach. 2. **Efrén Álvarez**: The excitation-inhibition balance as a gate for information propagation in the hippocampus.	**Visual and Auditory Processing** **Chair: Sumie Leung** /Universitat de Barcelona, Spain/: ***The hierarchical organization of auditory change detection in the human brain.*** 1. **Christian Kaergel**: Mismatch Negativity latency and negative symptoms in schizophrenia. 2. **Małgorzata Wrzosek & Justyna Maculewicz**: Differences between perceptual noticeable and unnoticeable changes in the human voice pitch reflected by mismatch negativity. The attempt to support dual pathway model in auditory cortex – *WITHDRAWN*

	3. **Sailaja A. Goda**: Psychedelic hallucinogens dose-dependently increase the power of high frequency oscillations (130-180 Hz) in the nucleus accumbens of freely moving rats.	3. **Michał Bola**: Neurophysiology of visual processing in subjects with optic nerve damage – a VEP study.
13.00 - 14.00	**Lunch**	
14.00 - 15.00	**POSTER SESSION II**	
15.00 - 16.00	**PLENARY LECTURE** **Tibor Harkany** /University of Aberdeen, UK/ ***Molecular dissection of cannabis sensitivity in developing neuronal networks.***	
16.00	**AWARDS FOR BEST TALKS AND POSTERS** **CLOSING REMARKS**	