Final Conference Program

5.09, Thursday

14:00	**Conference opening**
	Session I **Chair – Marian Lewandowski, Krzysztof Wędzony** **Keynote lecture:**
14:00-15:00	**Peter Somogyi,** University of Oxford, United Kingdom *Behaviour-dependent GABA release to hippocampal pyramidal cells*
15:00–15:30	**Jerzy Mozrzymas,** Wroclaw Medical University, Poland *Synaptic agonist transient and binding-gating cross-talk – powerful determinants of GABAergic synapse function*
15:30-16:00	**Malgorzata Skup,** Nencki Institute of Experimental Biology, Warsaw, Poland *GABAergic contribution to inhibitory deficits after spinal cord injury: the effects of BDNF treatment on GABAergic signaling*
16:00-16:30	**Coffee break**
	Session II **Chair – Marian Lewandowski, Krzysztof Wędzony**
16:30-17:00	**Wolf Singer,** Max Planck Institute for Brain Research, Frankfurt, Germany *The changing face of inhibition: From gain control to the backbone of dynamic coordination*
17:00–17:30	**Jan Konopacki,** University of Lodz, Poland *Gap junctions and rhythmic oscillations in the limbic cortex*
17:30-18:00	**Karri Lamsa,** University of Oxford, United Kingdom *Long-term plasticity in excitatory connections onto hippocampal GABAergic interneurons in acute brain slices and in urethane anesthetized rat*
19:00	**Welcome reception (Collegium Maius)**

6.09, Friday

	Session III **Chair – Jolanta Skangiel-Kramska, Grzegorz Hess**
09:00-09:45	**Michael Stryker,** University of California, San Francisco, USA *Mechanisms of plasticity of visual cortex after transplantation of embryonic inhibitory neurons*
09:45–10:30	**Istvan Katona,** Institute of Experimental Medicine, Budapest, Hungary *Endocannabinoid-mediated regulation of synaptic plasticity*

10:30-11:00	**Malgorzata Kossut,** Nencki Institute of Experimental Biology, Warsaw, Poland *GABAergic contribution to learning-dependent brain plasticity*
11:00-11:30	**Coffee break**
11:30-12:15	**Lamberto Maffei,** Accademia Nazionale del Lincei, Rome, Italy *Plasticity, environment and endogenous pharmacology*
12:15–12:45	**Monika Liguz-Lecznar,** Nencki Institute of Experimental Biology, Warsaw, Poland *GABA-dependent plasticity in the aging brain*
12:45-14:00	**Lunch**
14:00-16:00	**Poster session Coffee break**
	Session IV **Chair – Elżbieta Pyza, Leszek Kaczmarek** **Bioimaging session: imaging brain plasticity**
16:00-16:45	**Elly Nedivi,** MIT, USA *In vivo imaging of coordinated excitatory and inhibitory synaptic dynamics in the visual cortex*
16:45–17:30	**Antoine Triller,** INSERM, Paris, France *Plasticity of inhibitory synapses: quantitative nanoscopy and physical chemistry of receptor scaffold interactions*
17:30-18:15	**Carl Petersen,** Brain Mind Institute Lausanne, Switzerland *Gating of sensory perception by neocortical GABAergic neurons*
07.09, Saturday	
	Session V **Chair – Irena Nalepa, Władysław Lasoń**
09:00-09:45	**Jean Marc Fritschy,** University of Zurich, Switzerland *$GABA_A$ receptors regulating adult neurogenesis*
09:45–10:30	**Takao Hensh,** Harvard University, USA *Lifting brakes on adult brain plasticity*
10:30-10:45	**Coffee break**

10:45-11:30	**Kai Kaila,** University of Helsinki, Finland *Ionic plasticity of GABAergic signaling*
11:30-12:00	**Adam Plaznik,** Institute of Psychiatry & Neurology, Warsaw, Poland *Why do rats differ in the strength and persistence of learned fear?*
12:00-12:45	**Enrico Cherubini,** SISSA, Trieste, Italy *GABAergic signaling at immature mossy fibers-CA3 synapses: regulation by endocannabinoids*
13:00-14:00	**Lunch**
14:00-15:00	**Short communications - selected from the abstracts** **Abstract 13** **Klaus Funke,** Neurophysiology, Ruhr-University Bochum, Germany *Modulation of inhibition in cortical processing of sensory activity by repetitive transcranial magnetic stimulation (rTMS)* **Abstract 34** **Thomas Mittmann,** Institute of Physiology, UMC of the Johannes-Gutenberg University Mainz, Germany *Homeostatic regulation of GABAergic synaptic transmission following focal cortical lesions* **Abstract 11** **Laura Cancedda,** Neuroscience and Brain Technologies, Italian Institute of Technology, Italy *Early depolarizing GABA controls critical period plasticity in the rat visual cortex* **Abstract 25** **Alice Polenghi,** Neuroscience and Brain Technologies, Fondazione Istituto Italiano di Tecnologia, Italy *Excitatory activity-dependent regulation of synaptic GABAA receptor lateral mobility probed with optogenetic tools*
15:00-16:30	**Round table discussion** **Chairs: Jerzy Vetulani, Enrico Cherubini, Elly Nedivi**