

Topics for Student Scientific Study Group

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Primate Vision Research Group

Supervisor and lab leader: Gyula Sáry, MD, PhD, DSc

1. Primate visual system, Decision making based on visual information
2. The organization of the mental lexicon in bilingual individuals

Supervisor: Péter Kaposvari, MS, PhD

1. New information processing in the visual system

Sensory Research Group

Supervisors:

Mária Dux, MD, PhD (lab leader)

Gábor Jancsó, MD, PhD, DSc

Péter Sántha, MD, PhD

Gyöngyi Karcsúné Kis, MS, PhD

Judit Tóthné Rosta, MS, PhD

1. Pathobiology of peripheral nerve injuries
2. Study of the sensory and vascular functions of dura mater encephali in an experimental model of migraine headache
3. Peripheral pain mechanisms and selective regional analgesia
4. The role of insulin-sensitive afferent neurons in the pain perception and inflammatory reactions
5. Expression changes in primary sensory neurons in the animal models of neuropathic and inflammatory pain

Experimental Neonatology Research Group

Supervisor and lab leader: Ferenc Domoki, MD, PhD

1. Cerebrovascular regulatory mechanisms
2. Neuroprotective strategies against hypoxic/ischemic encephalopathy

Translational Behavioural Neuroscience Group

Supervisors:

Gyöngyi Horváth, MD, PhD, DSc (lab leader)

Gabriella Kékesi, PharmD, PhD

1. Characterization of a chronic schizophrenia rat model

Sensorimotor Research Group

Supervisors:

Attila Nagy, MS, PhD (lab leader)

Balázs Bodosi, MS, PhD

1. Electrophysiological and psychophysical investigation of the human brain
2. Electrophysiology of the sensory systems
3. Sensory motor functions of the basal ganglia

Sleep research

Supervisor: Zoltán Lelkes, MD, PhD

1. Sleep regulation

Neural Network Research Group

Supervisor and lab leader:

Antal Berényi, MD, PhD

Lívia Barcsai, MS

1. In-vivo electrophysiological investigation of hippocampal and neocortical oscillatory patterns