

Department of Physiology

Topic list (2022/2023):

Supervisor	Topic
Gyula Sáry, MD, PhD, DSc	Primate visual system, Decision making based on visual information The organization of the mental lexicon in bilingual individuals
Gábor Jancsó, MD, PhD, DSc Péter Sántha, MD, PhD	Pathobiology of peripheral nerve injuries Peripheral pain mechanisms and selective regional analgesia The role of insulin-sensitive afferent neurons in the pain perception and inflammatory reactions
Mária Dux, MD, PhD, DSc	Study of the sensory and vascular functions of dura mater encephali in an experimental model of migraine headache
Gyöngyi Horváth, MD, PhD, DSc Gabriella Kékesi, PharmD, PhD	Characterization of a chronic schizophrenia rat model
Péter Sántha, MD, PhD Orsolya Oszlács, MS, PhD	Studies on nociceptive mechanisms using in-vitro and ex-vivo experimental models
Ferenc Domoki, MD, PhD	Cerebrovascular regulatory mechanisms Neuroprotective strategies against hypoxic/ischemic encephalopathy
Attila Nagy, MS, PhD Balázs Bodosi, MS, PhD	Electrophysiological and psychophysical investigation of the human brain Electrophysiology of the sensory systems Sensory motor functions of the basal ganglia
Antal Berényi, MD, PhD Lívía Barcsai, MS	In-vivo electrophysiological investigation of hippocampal and neocortical oscillatory patterns
Péter Kaposvari, MS, PhD	New information processing in the visual system
Zoltán Lelkes, MD, PhD	Sleep regulation
Judit Tóthné Rosta, MS, PhD	Examination of the pathomechanism of headache and intracranial pain Experimental approach to subarachnoid hemorrhage
Gyöngyi Kis, MS, PhD	Expression changes in primary sensory neurons in the animal models of neuropathic and inflammatory pain