

Module title		Abbreviation
Clinical Neurobiology		o6-PSY-MA-KN-1-152-mo1
Module coordinator		Module offered by
holder of the Chair of Clinical Neurobiology		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
<p>This module provides a theoretical introduction to and in-depth study of neurobiology and clinical neurobiology. The following topics will be discussed: introduction to neurons and glial cells, ion channels and membrane potential, channelopathies, synapses, transmitter release, NMJ, myasthenia gravis, cerebellum, basal ganglia, ataxia and Morbus Parkinson, somatosensory system, touch, pain, schizophrenia and autism spectrum disorders, cognitive disorders, muscle and muscular diseases, anatomy and function of the motor system, spinal reflexes, motor neurone diseases, hippocampus, learning and memory, anterograde amnesia, visual agnosia, cortex and limbic system, emotions, disorders of conscious and unconscious mental processes, attentiveness disorders, smell, taste and hearing, sleep, EEG, epilepsy, vision and disorders of the visual system. The literature seminars are based on fundamental literature on topics relevant to the lecture and serve to document the experiments underlying our present knowledge of neurobiology.</p>		
Intended learning outcomes		
<p>After successfully completing this module, the students will have gained insights into current theoretical concepts of neurobiology. The students examine clinical aspects of neurobiology with a focus on molecular, cellular and physiological mechanisms. Additionally, they learn to evaluate and present experimental data in oral form.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>written examination (approx. 90 minutes) Language of assessment: German and/or English</p>		
Allocation of places		
max. 83 places		
Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Psychology (2015)		