Module title | Clinical Neurobiology 1 | 03-TN-NB1-142-m01
Module coordinator | holder of the Chair of Clinical Neurobiology
Module offered by | Faculty of Medicine
ECTS | 5
Method of grading | numerical grade
Only after succ. compl. of module(s) | --
Duration | 1 semester
Module level | graduate
Other prerequisites | --

Contents
Students will get a theoretical introduction to neurobiology and clinical neurobiology. The following topics will be discussed: introduction to neurons and glia, ion channels and membrane potential, ion channelopathies, synapses, transmitter release, NMJ, myasthenia gravis, cerebellum, basal ganglia, ataxia and Morbus Parkinson, somatosensory system, touch, pain, schizophrenia and autism spectrum disorders, disorders of cognition, muscle and muscle diseases, anatomy and function of the motor system, spinal reflexes, motoneuron diseases, hippocampus, learning and memory, anterograde amnesia, visual agnosia, cortex and the limbic system, emotions, disorders of conscious and unconscious mental processes, attention, smell and taste and hearing, sleep, EEG, epilepsy, vision and diseases of the visual system. The literature seminars are based on fundamental literature on lecture-relevant topics to document the experiments underlying our present knowledge in neurobiology.

Intended learning outcomes
Students who successfully completed this module will have acquired insights into current theoretical concepts in neurobiology. The students will have examined clinical aspects of neurobiology with a focus on the molecular, cellular and physiological mechanisms. Additionally, they will have learned how to evaluate and present data in oral form.

Courses
V (no information on SWS (weekly contact hours) and course language available)

Method of assessment
methods of assessment: a) written examination (30 to 60 minutes; including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes); students will be informed about the method, length and scope of the assessment prior to the course
Language of assessment: English

Allocation of places
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Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
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Module appears in
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