

Module title		Abbreviation
Neurology / Neurosurgery 1		03-TN-NN1-142-m01
Module coordinator		Module offered by
Department of Neurology, Department of Neurosurgery		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>Pathophysiology of movement disorders, structure, function and molecular function of the basal ganglia, motor behavioural tests in models for Parkinson's disease, functional and morphological analysis of basal ganglia, neuroimmunology: pathophysiology of multiple sclerosis, current neurobiology of stroke, stroke models and their analysis, pathophysiology of brain trauma: experimental brain trauma models and their analysis, antibody-associated CNS-diseases: in-vitro analysis of auto-antibody function, clinical neurophysiology: fundamental and practical aspects, experimental neurophysiology in disease models, genetically caused neurologic disorders: ataxias and dystonias, brain tumour immunology, tumour cell invasion and cell cycle regulation.</p>		
Intended learning outcomes		
<p>Students who successfully completed this module will have acquired insights into the current molecular and systems pathophysiology of diseases prevalent in neurology and neurosurgery. They will understand basic mechanisms of disease in the motor and sensory system and of higher functions. They will understand about brain trauma and brain tumour biology. They will know about animal models for neurological and neurosurgical diseases and will have been introduced to behavioural, neurophysiological, morphological and molecular biological analysis methods. They will have learned how to ask the appropriate questions in bed-to-bench research and how to devise study plans.</p>		
Courses (type, number of weekly contact hours, language – if other than German)		
V (no information on SWS (weekly contact hours) and course language available)		
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>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</p>		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
keinem Studiengang zugeordnet		