

Module description

Module title					Abbreviation	
Ion Channels					03-TN-IC-142-m01	
Module coordinator				Module offered by		
holder of the Chair of Clinical Neurobiology and holder of the Chair of Physiology				Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. con	succ. compl. of module(s)		
5	numei	rical grade				
Duration		Module level	Other prerequisites			
1 semester		graduate				
Contents						
ge-gated ion channels, regulation and pharmacology of ion channels, anatomical expression profiles, developmental regulation, evolution of ion channels, sensory systems, ion channelopathies, cLabs/Neuron to simulate various electrophysiological conditions, whole cell patch clamp recordings to determine ion channel properties. Intended learning outcomes						
put the molecular findings into the context of pathomechanisms in various kinds of channelopathies. They will have been trained in recording techniques to study ion channel properties on transfected/injected cell lines/oocytes as well as primary murine neurons. Additionally, they will have been trained to critically read, reflect and present scientific reports in the field of channel physiology.						
Courses (type, number of weekly contact hours, language — if other than German)						
V + S + P (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)						
methods of assessment: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or d) presentation (20 to 45 minutes); students will be informed about the method, length and scope of the assessment prior to the course						
Allocation of places						
Additional information						
Workload						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
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Module appears in						
keinem	Studie	engang zugeordnet				

JMU Würzburg • generated 18.04.2025 • Module data record 112887