

Module title		Abbreviation
Experimental Psychiatry		03-TN-EP-152-m01
Module coordinator		Module offered by
University Hospital, Department of Psychiatry, Psychosomatics and Psychotherapy, Molecular Psychiatry		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>Brain regions and neurotransmitter systems involved in neuronal networks involved in experiencing anxiety and fear, attentional networks, learning and memory, and their importance for emotionality in humans, analysis of gene variants and their association with various psychiatric disorders and behavioural traits; animal models for psychiatric disorders, gene x environment interaction; neuroadaptive mechanisms as a result of stress exposure during different periods of lifetime; resilience, epistatic load hypothesis, mismatch hypothesis, anatomical, cellular/neuronal plasticity at selected brain regions, e. g. hippocampus and amygdala; adult neurogenesis; immunohistochemistry/immunofluorescence using forebrain slices; neuronal reconstructions using the NeuroLucida software.</p>		
Intended learning outcomes		
<p>Students who successfully completed this module will have acquired insights into current concepts and experimental approaches in psychiatry and especially in the neurobiological basis of the etiopathogenesis and the treatment of psychiatric disorders. They will have been trained in molecular biology methods, e. g. genotyping, gene expression analysis and in various methods studying structural neuronal plasticity of the brain. Additionally, they will have learned how to evaluate and present data in oral and written form that was collected during the lab course. In addition, the students will have learned to critically read scientific publications in the field of neurobiology/neuropsychiatry.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (0) + P (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)		
a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes)		
Allocation of places		
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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) Translational Neuroscience (2015)		
Master's degree (1 major) Translational Neuroscience (2017)		
Master's degree (1 major) Translational Neuroscience (2018)		

Supplementary course Translational Neuroscience (2018)
Master's degree (1 major) Translational Neuroscience (2022)
Supplementary course Translational Neuroscience (2022)