Module title: Psychiatric Neurosciences  
Abbreviation: 03-TN-PSYT1-152-m01

Module coordinator: University Hospital, Department of Psychiatry, Psychosomatics and Psychotherapy  
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:
Basic knowledge about the characteristics of various psychiatric disorders, the proposed neurobiological basis (e.g. gene by environment interaction) as well as treatment options: - anxiety disorders, - depression (uni-polar and bi-polar), - schizophrenia, - ADHD, - dementia (Alzheimer's disease), - Parkinson's disease. 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 by environment interaction; neuroadaptive mechanisms as a result of stress exposure during different periods of lifetime; resilience, epistatic load hypothesis, mis match hypothesis; anatomical, cellular/neuronal plasticity at selected brain regions, e.g. hippocampus and amygdala.

Intended learning outcomes:
Students who successfully completed this module will have gained an overview of the characteristics of diverse psychiatric disorders. They will have acquired insights into the neurobiological basis of the etiopathogenesis of these disorders (e.g. which neurotransmitter systems and brain regions are involved), how they are treated and into current concepts and experimental approaches studying these psychiatric disorders.

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):
a) written examination (30 to 60 minutes, including multiple choice questions) 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)

Allocation of places: --

Additional information: --

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)