Developmental cognitive Neuroscience

Module coordinator
University Hospital, Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy

Module offered by
Faculty of Medicine

ECTS
5

Method of grading
Numerical grade

Duration
1 semester

Module level
Graduate

Other prerequisites
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Contents
Main topics: normal cognitive development of learning and memory processes and its associated brain circuits including the hippocampus and the prefrontal cortex, abnormal cognitive development of learning and memory processes in the context of learning disabilities and behavioural disorders, normal language processing development and its associated brain regions/abnormal language development in the context of dyslexia, normal cognitive development of attention and its associated brain circuits including the prefrontal cortex, parietal regions and the striatum/abnormal brain development, normal development of ‘theory of mind’ and its associated brain regions/abnormal development in the context of autism, normal emotional development and its associated brain regions/abnormal development in the context of anxiety and depression.

Intended learning outcomes
Students who successfully completed this module will have acquired insights into the current scientific debate of normal and abnormal cognitive skills and brain development. Developmental changes of basic cognitive skills such as learning and memory, speech, attention, theory of mind and emotion processing will be addressed via behavioural and neuroscientific studies. Abnormal development will be explained in the context of the neuropsychiatric disorders learning disabilities, reading disabilities, attention-deficit/hyperactivity disorder, autism and anxiety/depression. The influences of genes, hormones and sex will be discussed.

Courses
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Method 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 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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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)