**Module title**  
Developmental Neuroimaging

**Abbreviation**  
03-TN-DI-172-m01

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

**Module offered by**  
Faculty of Medicine

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
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<td>5</td>
<td>numerical grade</td>
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<tr>
<th>Duration</th>
<th>Module level</th>
<th>Other prerequisites</th>
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<td>1 semester</td>
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**Contents**

Fundamentals of fMRI signal (BOLD response), preprocessing of fMRI data and the definition of single-subject models, the analysis of behavioural data of the experimental paradigm and its implementation into first-level analyses, group (second-level) analyses of fMRI data, ANOVA models, multiple regression models.

**Intended learning outcomes**

Students who successfully completed this module will have acquired insights into the basics of fMRI data analysis, preprocessing of functional and anatomical MR data. Behavioural data during an attentional paradigm will be analysed and implemented into the statistical analysis of brain activation patterns from patients with and without ADHD.

**Courses**  
(type, number of weekly contact hours, language — if other than German)

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**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)

Language of assessment: English

**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 (2017)
Master’s degree (1 major) Translational Neuroscience (2018)
Supplementary course Translational Neuroscience (2018)