

<b>Module Title: Flipped Neuroanatomy I</b>				
<b>Identification-Nr.</b>	<b>Workload</b>	<b>Credit Points</b>	<b>Frequency of Occurrence</b>	<b>Duration</b>
M-MN-N-Neuro M17	200h	6/9 CP	Summer term	3 weeks
<b>1</b>	<b>Type of lessons</b> a) Lectures b) Practical/Lab c) Seminar	<b>Contact times</b> a) 42 h b) 30 h c) 30 h	<b>Self-study times</b> 100 h	<b>Intended group size*</b> a) 5-20 b) 5-20 c) 5-20
<b>2</b>	<b>Aims of the module and acquired skills</b> Students who successfully completed this module ... → have basic knowledge of the anatomy of the central and peripheral nervous system → can apply anatomical principles in clinical and experimental fields of neuroscience → gained basic knowledge about micro-and macro neuroanatomical structures and their role in different neurocircuits and clinical settings → are able to acquire unfamiliar content in a self-dependent manner → feel confident to apply acquired knowledge independently → can explain their expertise to other graduate students in an understandable way			
<b>3</b>	<b>Contents of the module</b> <ul style="list-style-type: none"> <li>• Embryology</li> <li>• Spinal Cord</li> <li>• Base of the Skull</li> <li>• Brainstem</li> <li>• Cranial Nerves</li> <li>• Thalamus</li> <li>• Hypothalamus and Pituitary Gland</li> <li>• Telencephalon</li> <li>• Cerebellum</li> <li>• Basal Ganglia</li> <li>• Systems (Motor System, Sensoric System, Limbic System, visual System, auditive System)</li> </ul>			
<b>4</b>	<b>Teaching/Learning methods</b> Lectures, 'Meet the Expert' Guest Lectures; Practical (Project work and Lab); Seminar; E-Lectures, Guidance to independent research; Training on presentation techniques.  This is a 'blended learning' module → The students are guided to acquire basic knowledge at home and in class independently, and apply their expertise in interactive activities, problem oriented exercises and a 30' 'lecture' they've created for their fellow students. Implemented in the module is one lab day, which consists of the dissection of a human brain to apply the acquired knowledge on a specimen and thus consolidate the content of this module.  Teaching Language: English/German			
<b>5</b>	<b>Requirements for participation</b> Enrollment in the Master's degree course "Biological Sciences" or in the Master's degree course "Clinical" Participation in the safety instructions lecture(First course day) <b>Additionally recommended:</b> None			
<b>6</b>	<b>Type of module examinations</b>			

	The final examination consists of one (6CP) or two (9 CP) parts: One hour written examination about topics of the lectures, the practical/lab part and the seminars (70 % of the total module mark for 9 CP, or 100% of final mark for 6 CP) and the oral presentation (30% of the total module mark for 9 CP)
7	<b>Requisites for the allocation of credits</b> Regular and active participation; Passed seminar presentation and exam Each examination part at least "sufficient" (see appendix of the examination regulations for details)
8	<b>Compatibility with other Curricula*</b> none
9	<b>Significance of the module mark for the overall grade</b> In the Master's degree course "Experimental and Clinical Neuroscience": 6/9 % of the overall grade (see also appendix of the examination regulations) <b>Subject module</b> of the Master's degree course "Biological Sciences", <b>Focus of research:</b> (N) Neurobiology <b>Elective module</b> in the Master's degree course 'Clinical and experimental Neuroscience'
10	<b>Module coordinator: Prof. Dr. Hannsjoerg Schroeder</b> <b>Participating faculty:</b> Diba Borgmann, Dr. rer. nat. Marc Tittgemeyer, Dr. med. Pantelis Stavrinou, Dr. med. Andrea Faymonville
11	<b>Additional information</b> <b>Literature:</b> Neurosciences. Galizia, C.G., Lledo, P.-M. (2013) Springer Spektrum  Kopf, Hals und Neuroanatomie (Prometheus: LernAtlas der Anatomie), Thieme Verlag, 4. Auflage, 20 14,  Sobotta, Atlas der Anatomie des Menschen Teil 3: Kopf, Hals und Neuroanatomie, Elsevier, 23. Auflage, 2010  Neuroscience, Claudia Krebs, Joanne Weinberg, Elizabeth Akesson, Lippincott Williams & Wilkins (Ed.), 2012  Pritzel, Brand, Markowitsch, Gehirn und Verhalten, Spektrum Verlag, 2009  Ulfig, Kurzlehrbuch Neuroanatomie, Thieme, 2008  <b>General time schedule:</b> 16.-19.04.2018, 23.-26.04.2018, 30.04.-03.05.2018 each 9.00-16.00 h (including independent study times), <b>Written examination:</b> 16.05.2018

1 \* Gemäß Studienverlaufsplan (s. Anlage 1 der Prüfungsordnung)

2 \* 11students from the Master's degree course „Biological Sciences” and 5 students from the Master's degree course“Klinische  
3 und Experimentelle Neurowissenschaften”