Course title: Clinical Neurosciences I					
Identification number	**Workload**	**Credits**	**Frequency of occurrence**	**Duration**	
M-Neuro-AM11 a-d	180h	6	SS	one semester	
1	**Type of lessons** a) Lectures b) Practical c) Seminar	**Contact times** a) 30 h b) 45 h c) 15 h	**Self-study times** 90 h (Preparation and post-processing of lectures, practical and exam)	**Intended group size** a) ca. 20 b) ca. 20 c) ca. 20	
2	**Aims of the module and acquired skills** **Main educational objective** is to provide neurobiological knowledge of psychiatric disturbances and disease models taking various neuroscientific methods into account. **After finishing the module,** students will have acquired knowledge about i) how to obtain a psychopathological status in patients, ii) operationalised classification systems, iii) typical neuropsychological deficits associated with psychiatric disturbances, and iv) neurobiological foundations of psychiatric disturbances. Neuroscientific methods will be taken into account including approaches from genetics, animal studies and cognitive neuroscience. **Methods /Models** Psychopathology, Operationalised classification criteria, electrophysiological methods (Electroencephalography, EEG; evoked potentials EVP), structural and functional neuroimaging, animals studies, deep brain stimulation				
3	**Contents of the module** • Psychopathological status and operationalised classification of psychiatric disturbances • Dimensional and categorical disease models • Neuroscientific methods including genetics, animal studies, cognitive neuroscience methods • Neurobiological Models of psychiatric disturbances (e.g. schizophrenia, dementia, affective diseases, autism spectrum disorder)				
4	**Teaching/Learning Methods** Seminar; Guidance to independent research; presentation				
5	**Requirements for participation** Enrollment in the Master's degree course "Experimental and Clinical Neurosciences" at the University of Cologne **Additional:** Basic knowledge in neuroanatomy, neurophysiology and biology				
6	**Type of module examination** Regular participation, preparation of a scientific talk during the seminar, writing an essay about another topic of the seminar **Examination:** presentation, essay				
7	**Requirement for the allocation of credits** Regular participation, successful presentation, successful essay				
8	**Compatibility with other Curricula** none				
9	**Significance of the module mark for the overall grade** In the Master´s degree course "Experimental and Clinical Neurosciences": 6 % of the overall grade (see also appendix of the examination regulations)				

10	**Module coordinator** Prof. Dr. Dr. Kai Vogeley, Tel. 478-87155, kai.vogeley@uk-koeln.de
11	**Additional information** **Literature:** • Relevant Peer-Review Literature (Selected by Faculty) • Bear MF, Connos BW, Paradiso MA: Neurowissenschaften. Spektrum Verlag, 3. Aufl. 2016; • Schneider F, Fink GR: Funktionelle MRT in Psychiatrie und Neurologie, Springer Verlag, Heidelberg 2. Aufl., 2012;

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