I dentification Workloac number 360 h M-Neuro-AM		Credit points 12 CP	Frequency of occurrence Summer term, 2 nd half		Duration 7 weeks		
L	Type of lesso a) Lectures b) Practical/	ns /Lab	Contact times a) 16 h b) 100 h	Self-study times a) 44 h b) 160 h	a) b)	Intended group size max 3 max 2	
	c) Seminar		c) 10 h	c) 30 h	c)	max 3	
	 Students who successfully completed this module have acquired detailed knowledge about concepts and experimental approaches in the analysi of analyzing behavior and its neural basis 						
	 are trained in preparations and techniques to study neural network function, and rhythmic motor behavior in different model systems (see contents of the module). are able to independently design and perform small scientific projects related to topics of the module. have applied data analyses, e.g. using the programming language Matlab, the Spike2 software package or software for anatomical analysis 						
	 have learned how to present research results in oral and written form and to critically discuss scientific publications related to the topic of the module on a professional level. are able to transfer skills acquired in this module to other fields of biology. 						
	 Analysis o Behaviora Techniqu Staining t Data ana 	of motor be al and elect es in monit echniques lysis with N	havior in arthrop rophysiological a oring and recordi for neurons and r latlab	ods (e.g. cockroach, f nalysis of neuronal ne ing motor behavior in nicroscopy	ruit fly and twork perf insects	stick insect) formance	
	Teaching/Lea Lectures; Pra presentation	a rning Metl ctical/Lab (I techniques	nods Project work); Sei in oral and writte	minar; Guidance to in en form	dependent	research; Training on	
5	Requirements for Participation						
	Enrollment in the Master's degree course "Experimental and Clinical Neurosciences" at the University of Cologne						

6	Type of module examination			
	The final examination consists of two parts: oral presentation (20-30 min; 50 % of the total module mark), written report (50 % of the total module mark)			
7	Requirement for the allocation of credits			
	Regular and active participation Each examination part at least "sufficient" (see appendix of the examination regulations for details)			
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": 12% of the overall grade (see also appendix of the examination regulations)			
10	Module coordinator:			
	Prof.Dr. Ansgar Büschges, phone 470-2607, e-mail: ansgar.bueschges@uni-koeln.de			
11	Additional Information			
	Participating faculty : Prof. Dr. A. Büschges, Dr. N. Deisig, Dr. G. di Cristina, Dr. E.A. Gorostiza, Dr. M. Gruhn, Dr. G. Lundkvist, Prof. Dr. M. Nawrot			
	Literature: Information about textbooks and other reading material will be given on the ILIAS representation of the course			
	General time schedule: Week 1-6 (MonFri.): Lectures, practical/lab, analysis of self-acquired data,			
	preparation of writing written report; Week 7 (MonFri): Preparation for the oral presentation			
	Note : The module contains hands-on laboratory work conducted individually and is taught in			
	component. More details will be given at the beginning of the module.			