Course title: Animal mode		Workload	Credits	Frequency of occurrence	Duration	
		workioad	Creats	Frequency of occurrence	Duration	
		270h	9	WS/SS	Two semesters	
-	Type of lessons	Conta	ict times	Self-study times	Intended group size	
	a) lecture b) practice	,	2h 8h	200h (Preparation and post-processing of lectures, practical and exam)	<ul> <li>a) ca. 7 students</li> <li>b) ca. 7 students per supervisor</li> </ul>	
	Aims of the modu	le and acqui	red skills			
	neuroscie and which functions. • Students r behavior i • Extra- + in <b>Phenotyping of m</b> • Using sele	nce. Students test models need to acqu n experimen tracellular de <b>ouse mutan</b> cted example	s have to lea are availabl ire knowled tal animals. erivation teo ss: Morphol es, the stude	e for the reliable and valid t ge, related to the various lir Also, the limitations of anin chniques in vivo + in vitro <b>ogy</b>	mal behavior models in s done in experimental animals testing of learning and memory nitations of unimodal testing of nal models will be discussed. analysis of a mouse mutant	
	Contents of the module <ul> <li>Phenotyping of mouse mutants: Learning and memory</li> </ul>					
	<ul> <li>Various aspects of behavioral models:</li> <li>Anxiety</li> <li>Depression</li> </ul>					
	Locomotor activity					
	Learning and memory tests					
	Phenotyping of mouse mutants: Morphology					
	<ul> <li>Comparative anatomy and histology of selected mouse mutants</li> </ul>					
	Teaching/Learning	-				
			-	nt practical work, presentat	lon	
5	of Cologne	Master's deg	ree course '	"Experimental and Clinical N panatomy and neurophysiol	leurosciences" at the University logy is desirable.	
	Type of module examination Preliminary Examinations: Regular participation and active cooperation, sufficient preparation for the topics Final examination: one-sided writing of the module content, practice evaluation					
,	Requirement for the allocation of credits Successful practice evaluation and paper					
}	Compatibility with other Curricula none					
	Significance of the module mark for the overall grade					
	In the Master's de also appendix of t	-	-		es": 9% of the overall grade (se	

10	Module coordinatorTeaching coordinator: Dr. Thibaut Sesia,thibaut.sesia@uk-koeln.deTeachers: Dr. A. Blokland, Universiteit Maastricht, Dr. Thibaut Sesia				
11	<ul> <li>Additional information</li> <li>Literature: <ul> <li>Basso DM, Beattie MS, Bresnahan JC: A sensitive and reliable locomotor rating scale for open field testing in rats. J Neurotrauma 1992 9:S129-133</li> <li>Crusio and Gerlai: Handbook of molecular-genetic techniques for brain and behavior</li> </ul> </li> </ul>				
	<ul> <li>research</li> <li>Paxinos G, Franklin K: Mouse Brain in Stereotaxic Coordinates Academic Press</li> <li>Watson C, Paxinos G, Puelles L, The Mouse Nervous System, Academic Press</li> </ul>				