

Module Name Lecture Neurobiology: Genes, Circuits and Behaviour						
Identification Number	Workload	Credit Points	Term	Offered Every	Start	Duration
M-Neuro-AM-16 a-b	180 h	6 CP	1 st term of studying	Winter term	Winter term only	1 term
1	Course Types Tutorial		Contact Time 60 h		Private Study 120 h	
2	Module Objectives and Skills to be Acquired Students who successfully completed this module <ul style="list-style-type: none"> • filled gaps in the previous knowledge of approaches in neuroscience. • acquired a broad spectrum of knowledge in neuroscience methods, theory and data evaluation. • learned how to critically read and discuss papers in the neurosciences. 					
3	Module Content <ul style="list-style-type: none"> • Electrophysiological techniques • Cellular neurophysiology • Imaging techniques • Microscopy • Staining techniques • Genetic approaches • Methods in the computational neurosciences • Statistics • How to prepare a Journal Club 					
4	Teaching Methods <ul style="list-style-type: none"> • Interactive tutorials; Introduction to techniques on devices; Training on presentation techniques 					
5	Prerequisites (for the Module) Enrollment in the Master's degree course "Master of Science in Neuroscience" or in the Master's degree course "Experimental and Clinical Neuroscience"; Simultaneous participation in the lecture module Neuroscience and in the seminar module Neuroscience					
6	Type of Examination Oral presentation (100 % of the total module mark)					
7	Credits Awarded Regular and active participation; Oral presentation at least "sufficient"					
8	Compatibility with other Curricula* Optional compulsory module in the Master's degree course "Experimental and Clinical Neuroscience"					

9	<p>Proportion of Final Grade</p> <p>7.5 %</p>
10	<p>Module Coordinator</p> <p>Prof. Dr. Henrike Scholz, phone 470 3121, e-mail: henrike.scholz@uni-koeln.de</p>
11	<p>Further Information</p> <p>Participating faculty: Prof. Dr. S. van Albada, Prof. Dr. A. Büschges, Prof. Dr. H. Endopols, Prof. Dr. K. Ito, Prof. Dr. P. Kloppenburg, Prof. Dr. M. Nawrot, Dr. T. Riemensperger, Prof. Dr. H. Scholz</p> <p>Literature:</p> <ul style="list-style-type: none"> • Information about textbooks and other reading material will be given on the ILIAS representation of the course (see https://www.ilias.uni-koeln.de/ilias/goto_uk_cat_2815610.html) <p>General time schedule: Weeks 1-14: Tutorials and oral presentations (starting at 1:00 p.m. at different dates, more details will be given in the introduction to the module).</p> <p>Introduction to the module: The date of the introduction to the module will be announced in a regularly updated module description that will be posted in the internet and in KLIPS before registration to the module starts.</p>