

Course title: Molecular Neuroimmunology				
Identification number	Workload	Credits	Frequency of occurrence	Duration
M-Neuro-AM11 a-d	180h	6	WS	1 Semester
1	Type of lessons a) lecture b) exercise	Contact times a) 38h b) 4h	Self-study times 138h (Preparation and post-processing of lectures, practical and exam)	Intended group size a) ca. 14 students b) 2 students per supervisor
2	Aims of the module and acquired skills Basic knowledge about general immunology. In-depth knowledge about Neuroimmunology and diseases of the nervous system. In addition, an introduction to methods used in the field of molecular biology and immunological research.			
3	Contents of the module <ul style="list-style-type: none"> • An Introduction to Immunobiology and Innate Immunity • Recognition of Antigen • Development of Mature Lymphocyte Receptor Repertoires • Adaptive Immune Response • Immune System in Health and Disease 			
4	Teaching/Learning Methods lecture, group discussion, presentation			
5	Requirements for participation In Form: Enrollment in the Master's degree course "Experimental and Clinical Neurosciences" at the University of Cologne In Content: Basic knowledge in molecular biology.			
6	Type of module examination Prerequisite: Regular participation (max. one missed appointment), proper preparation Final exam: Own presentation about a neuroimmunological topic with in-depth discussion			
7	Requirement for the allocation of credits Successful presentation			
8	Compatibility with other Curricula Drug Discovery and Development / medicine / biology			
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. Manuel Montesinos-Rongen, Tel.: 0221-478-5260, manuel.montesinos-Rongen@uk-koeln.de Lecturer: Prof. Dr. Manuel Montesinos-Rongen, Prof. Dr. med. Martina Deckert, PD Dr. med. Anna Brunn			
11	Additional information Literature: <ul style="list-style-type: none"> • Janeway's Immunobiology, Kenneth Murphy and Casey Weaver, 9th ed., Garland Science, 2017 • Fundamental Immunology, William Paul, 7th ed., Lippincott Williams & Wilkins, 2013 			