

<b>Course title: Molecular Neuroimmunology</b>				
<b>Identification number</b>	<b>Workload</b>	<b>Credits</b>	<b>Frequency of occurrence</b>	<b>Duration</b>
M-Neuro-AM11 a-d	180h	6	WS	1 Semester
1	<b>Type of lessons</b> a) <b>lecture</b> (VL) b) <b>seminar</b> c) <b>exercise</b> (Ü)	<b>Contact times</b> a) 2 h b) 36 h c) 4 h	<b>Self-study times</b> 138h (Preparation and post-processing of lectures, practical and exam)	<b>Intended group size</b> a) ca. 14 students b) ca. 14 students c) max 2 students per supervisor
2	<b>Aims of the module and acquired skills</b> 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	<b>Contents of the module</b> <ul style="list-style-type: none"> <li>• An Introduction to Immunobiology and Innate Immunity</li> <li>• Recognition of Antigen</li> <li>• Development of Mature Lymphocyte Receptor Repertoires</li> <li>• Adaptive Immune Response</li> <li>• Immune System in Health and Disease</li> </ul>			
4	<b>Teaching/Learning Methods</b> lecture, seminar, group discussion, presentation			
5	<b>Requirements for participation</b> 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	<b>Type of module examination</b> Prerequisite: Regular participation (max. one missed appointment), proper preparation Final exam: Own presentation about a neuroimmunological topic with in-depth discussion			
7	<b>Requirement for the allocation of credits</b> Successful presentation			
8	<b>Compatibility with other Curricula</b> Drug Discovery and Development / medicine / biology			
9	<b>Significance of the module mark for the overall grade</b> In the Master's degree course "Experimental and Clinical Neurosciences": 6% of the overall grade (see also appendix of the examination regulations)			
10	<b>Module coordinator</b> Prof. Dr. Manuel Montesinos-Rongen, Tel.: 0221-478-5260, manuel.montesinos-Rongen@uk-koeln.de Lecturer: Prof. Dr. Manuel Montesinos-Rongen, Dr. Monica Sánchez-Ruiz			

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**Additional information**

**Literature:**

- Janeway's Immunobiology, K. Murphy et al., 10th ed., W.W. Norton & Company, 2022
- Paul's Fundamental Immunology, M.E. Flajnik et al., 8th ed., Wolters Kluwer Health, 2022