

<b>Module</b>	<b>Title</b>	<b>Abbr.</b>
<b>Term</b>		
<b>Lecturer</b>		
<b>Sort of Course</b>		
<b>Course Achievement</b>		
<b>Examination</b>		
<b>ECTS/Credit points</b>		
<b>Study objectives:</b>		
<b>Qualification aims:</b>		
<b>Content:</b>		
<b>Entry requirements/required previous knowledge:</b>		
<b>Basic Literature:</b>		
<b>Didactic means:</b>		
<b>Examination requirements:</b>		
<b>Study effort:</b>		

## Example:

<b>Module</b>	<b>Immunology</b>
<b>Term</b>	<b>1<sup>st</sup> term</b>
<b>Lecturer/s</b>	<b>Förster, R., Pabst, O., Bernhardt, G., Schwinzer, R., Krüger, A., Prinz, I., Seth, S.</b>
<b>Sort of Course/ Semester hours</b>	<b>Lecture (2 semester hours), practical training (3 semester hours)</b>
<b>Course Achievement</b>	<b>Regular participation, protocols of practical training</b>
<b>Examination</b>	<b>Written exam</b>
<b>ECTS/Credit points</b>	<b>6</b>
<b>Study objectives:</b> Teaching of in-depth knowledge of the structure of the immune system of mammals. Understanding of the basic processes in the immune system, implementation of state-of-the-art research techniques of immunology using materials derived from mice.	
<b>Qualification aims:</b> Teaching of knowledge and skills, which enable for working in biomedical (basic) research as well as analytics and diagnostics.	
<b>Content:</b> <ul style="list-style-type: none"> <li>- Introduction to the basic concepts and processes in immunology</li> <li>- Innate immunity</li> <li>- Antigen recognition by B and T cell receptors</li> <li>- Generation of receptor diversity of B and T cell receptors</li> <li>- Antigen presentation</li> <li>- Development of lymphocytes in the primary lymphoid organs</li> <li>- Adaptive T cell mediated response</li> <li>- Adaptive B cell mediated humoral immune response</li> <li>- Limits of the immune response</li> <li>- Errant immune responses: allergy, hypersensitivity, autoimmunity</li> <li>- Standard experimental techniques in immunology</li> </ul>	
<b>Practical training:</b> <ul style="list-style-type: none"> <li>- Isolation of immune cells from blood and secondary lymphoid organs from mice</li> <li>- Analysis of immune cell types by flow cytometry</li> <li>- Determination serum immunoglobulins in mice using ELISA</li> <li>- Proliferation of T cells <i>in vitro</i> and <i>in vivo</i></li> </ul>	
<b>Entry requirements/required previous knowledge:</b> Basic knowledge in chemistry/biochemistry and molecular biology	
<b>Basic Literature:</b> "Immunobiology" by C.A. Janeway	
<b>Didactic means:</b> PowerPoint presentation, practical instructions	
<b>Examination requirements:</b> Knowledge in immunology	
<b>Study effort (in hours):</b> <ol style="list-style-type: none"> <li>1. Compulsory attendance: 70 hours</li> <li>2. Individual study: 110 hours</li> </ol>	