

<b>Module title</b>		<b>Abbreviation</b>
Cell Biology - Focus immunology		03-98-PZB3-172-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Institute of Experimental Biomedicine, University Hospital, Department of Dermatology, Venerology and Allergology		Faculty of Medicine
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	May not be combined with 03-98-PZB1 or 03-98-PZB2.
<b>Contents</b>		
The main topics are: Cell culture of adherent cells under sterile conditions, gene expression analysis at RNA level using quantitative real-time PCR and fluorescence reporter genes, identification and quantification of proteins using immunological techniques such as Western blot, FACS and ELISA, investigating cell migration using single cell tracking and time-lapse microscopy, as well as preparing and staining of histological sections.		
<b>Intended learning outcomes</b>		
Understanding and self-reliant application of basic cell and molecular biological techniques and generally applicable methods for the analysis of gene expression and cell migration. Analysis, evaluation and (critical) consideration of the results with error analysis. The aim of the qualification is to acquire basic specialist and methodological skills in cell and molecular biology in the context of inflammatory processes, as well as to understand and remember basic cellular and immunological principles.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
P (5) + S (1) Module taught in: German / English		
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
a) written examination (45 to 90 minutes) or c) oral examination of one candidate each (20 to 30 minutes). Students will be informed about the type and length of assessment at the beginning of the course. Language of assessment: German and/or English		
<b>Allocation of places</b>		
Biomedizin (Biomedicine) Bachelor's: 12 places.		
<b>Additional information</b>		
Additional information on module duration: 2 weeks, full time.		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
Bachelor' degree (1 major) Biomedicine (2015) Bachelor' degree (1 major) Biomedicine (2018)		