MEDIZINISCHE FAKULTÄT

Master of Science Biochemistry (M. Sc. Biochemistry)





Title of module

Modular Advanced Practical and Seminar in the Focal Point Programme "Molecular Medicine", VZ: 185780, 183781

"G Protein-mediated signaling pathways"

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Credit points	4	Available in semester(s)	1
Hours per week	5.25	Compact course	
Lecturer(s)		Rinne, Kienitz	
Teaching methods		Two-week advanced laboratory course with an	
		intergrated seminar, one of four lab courses to be completed in the first term	9
Evaluation of learning		Active participation in the laboratory tasks and seminar, feedback during the experiment	
progress		reedback during the experiment	
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Mode of examination		Assessment of active and successful participation in the practical (50%) and a written project report (50%)	
		produced (00%) and a written project report (00%)	'/
Learning objectives		Aquire standard laboratory techniques for cellular	
		experiments.	
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Soft skills			

The students will participate in current scientific Contents of module projects of the lab. The main focus will be on the analysis of G protein signaling pathways in living cells with fluorescence microscopy. Methodologies include construction of DNA plasmids, cell culture techniques, expression of recombinant proteins, modern timeresolved fluorescence – and FRET-microscopy of signaling pathways in living cells.