

Title of Course:

Modular advanced practical in the focal point programme "Molecular Medicine",

VZ: 209 806 / 209 852

"Analysis of pathomechanisms in retinal diseases"

Туре:			Workload	Intended for	Duration
Compulsory Course			120h	Semester 1	2 weeks
I	Module:		Hours per	Self-study	Credit Points
	Elective Practical		Week	46.5 h	4 CPs
			5.25		
2	Teaching Methods:				
Z	a) A two-week all-day practical lab course in a research group: b) Integrated seminar				
3	Group Size:				
)	I-3				
4	Learning/Course Objectives:				
•	Students work on small projects to gain insight into the different pathomechanisms of retinal diseases, such				
	glaucoma and age-related macular degeneration.				
	On the one hand the course provides the students with the theoretical background of retinal diseases and, on the				
	retinal diseases				
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	addition they learn how to write a concise informative sufficiently detailed and precise protocol. Finally, they				
	present their data in the lab seminar, thereby practicing how to present experimental data to an audience.				
5	Contents: The module focuses on several experimental techniques to study cell death mechanisms in retinal diseases, for example:				
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	I.) Preparation of retina sections				
	2.) Cultivation of porcine organ cultures				
	4.) Detection of changes in gene expression RT-qPCR				
6	Degree Courses:				
-	Master of Science Biochemistry				
7	Prerequisite(s): Knowledge of basic methods in molecular biology and protein chemistry.				
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8	Method(s) of Examination: Assessment of active and successful participation in the practical (50%) and a written project report (50%)				
9	Requirements for Acquiring Credit Points:				
	Achievement of at least the mark "sufficient" regarding the above modes of examination.				
10	Significance for Overall Grade:				
	Errorup gr				
11	Frequency: Every winter term				
12	Lecturer(s): Stephanie Joachim, Sabrina Reinehr, and teaching assistants				
12					
13	Additional Information:				
-,	This lab course is one of four courses in total to be completed in the first term, which have to be fulfille				
	different Focal Point Programs	1			