

Title of Course:

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

VZ: 209 806 / 209 852

"Current methods in animal physiology"

Type: Compulsory Course			Workload 120h	Intended for Semester I	Duration 2 weeks
I	Module: Elective Practical		Hours per Week 5.25	Self-study 46,5 h	Credit Points 4
2	Teaching Methods: a) A two-week all-day practical lab course in a research group; b) Integrated seminar				
3	Group Size: 2				
4	Learning/Course Objectives: Students will acquire practical skills in experimental techniques of modern animal physiology, they will learn to evaluate their results and get insights into mouse models of human diseases applied for translational research				
5	Contents: The module focuses on methods in animal physiology: isolation of organs and blood vessels, bronchoalveolar lavage, generation of paraffin and cryosections, histological stainings, functional measurements, data analysis				
6	Degree Courses: Master of Science Biochemistry				
7	Prerequisite(s): Knowledge of basic methods in molecular biology and protein chemistry.				
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: Weighted according to CPs				
11	Frequency: Every winter term				
12	Lecturer(s): Prof. Daniela Wenzel, Dr. Michaela Matthey and teaching assistants				
13	Additional Information: This lab course is one of four courses in total to be completed in the first term, which have to be fulfilled in different Focal Point Programs				