

Title of Course:

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

VZ: 209 806 / 209 852

PCR, Primer-Design, and vector cloning

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: 1-3				
4	Learning/Course Objectives: Students will work on small projects in molecular oncology.				
5	Contents: The module focuses on standard molecular biology techniques, such as generation of a recombinant plasmid vector, DNA-Isolation and quality control, PCR and primer design.				
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): S. Hahn 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				