

Title of Course: Advanced Practical in the Focal Point Programme "Molecular Medicine" "Molecular Pathology"				
Type: Mandatory practical with choices		185982	Workload 240 h	Intended for Semester 2
Duration 0.5 Semester				
1	Module: Advanced Practical with seminar	Presence hours per course a) 112 h b) 14 h	Self-study 114 h	Credit Points 7.5 CP
2	Teaching Methods: a) Practical b) Seminar A five-week all-day practical lab course with a compulsory seminar presentation. Please note: A second Advanced Practical will have to be performed in the same semester to earn the full complement of 15 credits			
3	Group Size: Individual training			
4	Learning/Course Objectives: After completion of the course students will have basic knowledge in molecular and cell biology based techniques to analyze the effects of cancer related genes.			
5	Contents: Depending on the project the student joins the course will offer the opportunity to acquire hands on experience in at least one of the following fields: <ol style="list-style-type: none"> 1. Molecular pathology 2. Immunohistochemistry 3. "Next-generation sequencing"-based analysis of patient tumor samples 			
6	Degree Courses: Master of Science Biochemistry;			
7	Prerequisite(s): The four Modular Advanced Practicals of the first Master semester have to be passed			
8	Method(s) of Examination: Assessment of experimental skills during the practical (50%), a written project report (40%), and an oral presentation of experimental results (10%).			
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 the 16 CPs for two practical courses the average grade of the two practicals provides 13.3% of the overall grade			
11	Frequency: Every summer semester			
12	Supervisor(s): Prof. A. Tannapfel and teaching assistants			
13	Additional Information:			