

Title of Course: Advanced Practical in the Focal Point Programme "Molecular Medicine" - "Title of Practical": Experimental Allergology and Immunology"				
Type: Mandatory practical with choices		185881	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 8 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 credits			
3	Group Size: Individual training			
4	Learning/Course Objectives: Students practice experimentation on a small, closely supervised project in a research lab. They also practice how to properly evaluate and document experimental data. Finally they practice how to write a concise, informative, sufficiently detailed and precise protocol. Finally, they show their data in the lab seminar of their supervisor, typically in an oral presentation, thereby practicing how to present experimental data to an audience.			
5	Contents: After completion of the course the students will have acquired practical skills in protein chemical and immunological techniques depending on the specific current depending on the current topic of the project in which the student is involved. The following are examples: whole blood assay including cytokine release and cytokine quantification or the establishment of a sandwich ELISA for the determination of allergic proteins e.g. in dust samples. Seminar: Summary and presentation of a scientific publication; furthermore, summary, presentation and critical reflection of the results achieved during the practical course.			
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 practical work and engagement during the laboratory work, preparation and quality of the result report, lecture and presentations within the framework of the seminar.			
9	Requirements for Acquiring Credit Points: Regular working in the laboratory, preparation of a final report, presentation of the results in the seminar of the working group, summary and presentation of a scientific publication related to the project			
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			

I1	Frequency: Every summer or winter semester (depending on the projects and capacity)
I2	Supervisor(s): Prof. Dr. Monika Raulf, Eva Zahradnik or Dr. Verena Liebers (or others scientist of the department),
I3	Additional Information: not every semester has the possibility to offer this course