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| Title of Course: Advanced Practical in the Focal Point Programme "Molecular Medicine" "Biochemistry of Neurodegenerative Diseases " | | | | | |
| 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 learn how to properly evaluate and document experimental data and how to write a concise, informative, sufficiently detailed and precise protocol. Finally, they present 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: Expression and purification of recombinant proteins; Cultivation and transfection of mammalian cells; Western blotting; Immunofluorescence analyses using Super-Resolution Microscopy. Seminar: Presentation of the research project | | | | |
| 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: Oral presentation | | | | |
| 9 | Requirements for Acquiring Credit Points: Active and successful participation in the practical and oral presentation of the results | | | | |
| 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 semester | | | | |

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| I2 | Supervisor(s): Prof. Jörg Tatzelt and team members |
| I3 | Additional Information: |