

| Module title | | Abbreviation |
|--|-------------------|--------------------------------------|
| Introduction to Methods in Experimental Biomedicine | | 03-98-RVZ-202-m01 |
| Module coordinator | | Module offered by |
| holder of the Chair of Experimental Biomedicine | | Faculty of Biology |
| ECTS | Method of grading | Only after succ. compl. of module(s) |
| 5 | numerical grade | -- |
| Duration | Module level | Other prerequisites |
| 1 semester | undergraduate | -- |
| Contents | | |
| Fundamental knowledge and analytical approaches of experimental biomedicine are taught based on selected questions of platelet physiology and megakaryopoiesis. Emphasis is put on the generation and use of antibodies. Transgenic mouse models are used to elucidate the interplay underlying (patho-)physiological processes. | | |
| Intended learning outcomes | | |
| Professional competence: General knowledge on the generation and application of antibodies, generation and use of transgenic mouse models and acquisition of specialized knowledge on the study of platelet function and production. Methodological competence: Analyzing and evaluating scientific figures. Social competence: The communicative competence is promoted by independent research, analysis and presentation of current literature (in English) in the accompanying seminar. After participation in the module courses, students will be able to apply the experimental techniques learned during the course. Furthermore, they will be able to analyze and evaluate experimental data obtained using monoclonal antibodies and genetically modified mouse models. | | |
| Courses (type, number of weekly contact hours, language — if other than German) | | |
| P (6) Module taught in: German/English | | |
| Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) | | |
| a) written examination (45 to 90 minutes) or b) Log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) Language of assessment: German or English | | |
| Allocation of places | | |
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| Additional information | | |
| Duration: 2 weeks | | |
| Workload | | |
| 150 h | | |
| Teaching cycle | | |
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| Referred to in LPO I (examination regulations for teaching-degree programmes) | | |
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| Module appears in | | |
| Bachelor's degree (1 major) Biomedicine (2020) | | |