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|-----------------------|--|--------------------------|-----------------|
| Modul                 | <b>Elective module 23 „Virology“</b>   |                          |                 |
| Lehrveranstaltungen   | Lecture: Virology lecture<br>Practical course: Practical lab work in small groups<br>Seminar: Literature addressing questions of current vaccination practices and ongoing research in the field of virology   |                          |                 |
| DozentInnen           | Dozenten der Fakultät für Medizin / Virologie  |                          |                 |
| Typ                   | Schwerpunktmodul   | Semester lt. Studienplan | 2               |
| Arbeitsaufwand        | 135h / Semester  | ECTS                     | 9               |
| Turnus                | Jedes Sommersemester   | SWS                      | V:2, S: 2, Ü: 5 |
| Voraussetzungen       | Orientierungsmodul Immun   | Dauer                    | 3 Wochen        |
| Inhalte               | <p><b>Lecture:</b><br/>The lecture will provide basic knowledge and molecular explanations of pathogen-host interactions. The focus will be on understanding the diverse replication strategies of different virus family members. Modern options for therapy and prevention of viral infections will form a second focus. We will further discuss viral strategies of immune evasion.</p> <p><b>Practical course:</b><br/>The practical course will provide an overview of methods currently used for basic research in virology. By participating actively in ongoing lab work, the students will further get to know the research projects which are currently active in Freiburg.</p> <p><b>Seminar:</b><br/>Guided by a senior person, groups of six students will discuss historically important papers that shaped the field of virology. They will further discuss the rationale behind currently recommended vaccines against virus-induced diseases in humans. Finally, state-of-the-art methods for detecting viral infections will be discussed.</p> |                          |                 |
| Lernziele             | Providing basic knowledge about medically important viral diseases of humans, modern options of viral diagnosis, and current therapeutic and prophylactic strategies. Providing basic knowledge about the replication strategies of various viruses, the antiviral responses of infected hosts, and strategies employed by viruses to evade host immune responses.   |                          |                 |
| Studienleistung       | Regular participation and active involvement in discussions. Oral report on lab work performed during practical course.  |                          |                 |
| Prüfungsleistung      | -  |                          |                 |
| Literatur             | Modrow, Molekulare Virologie 3. Auflage (Spektrum Verlag)  |                          |                 |
| Modulverantwortlicher | Prof. Martin Schwemmler  |                          |                 |