

Course in the 2nd study period (3rd – 5th Semester)

Cell Culture Technology

Description	
Objective	In the course Cell Culture Technology students learn the theoretical principles of instruments used in context with cell culture, different animal cell lines and different cell culture vessels. Among that, they learn about the parameters which influence the cultivation process and the cell growth. In addition they acquire knowledge how cell lines arise and which features different cell lines show. The lecture series takes place before the start of the complementary laboratory course.
Prerequisites	Course Cell Biology, Practical Laboratory Course Microbiology
Content	<ol style="list-style-type: none"> 1. History of cell culture technology 2. Theory of sterile working techniques 3. Sources of contamination and types of contamination 4. Media and media components 5. Laboratory equipment and sterilisation 6. Cell staining and determination of cell number 7. Cultivation vessels and - conditions 8. Cell types (adherent cells and suspension cells) 9. Different methods for transfection and selection
Course material	<ul style="list-style-type: none"> – Zell- und Gewebekultur: Einführung in die Grundlagen sowie ausgewählte Methoden und Anwendungen, Toni Lindl, 2. Auflage, ISBN 978-3827411945 – Culture of Animal Cells: A Manual of Basic Technique, R. Ian Freshney, 2. Auflage, ISBN 978-0471453291
Language	German <input type="checkbox"/> English <input checked="" type="checkbox"/>
Media	Presentation <input checked="" type="checkbox"/> Blackboard <input checked="" type="checkbox"/>
Time schedule	Weekly <input checked="" type="checkbox"/> Block schedule <input type="checkbox"/>
Cycle	Each semester <input checked="" type="checkbox"/> Annually <input type="checkbox"/>
Status	Compulsory subject <input checked="" type="checkbox"/> Optional subject <input type="checkbox"/>
Last modified	30.10.2013