

<b>Module title</b>		<b>Abbreviation</b>
Stem Cell Biology		03-98-MVSZ-152-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Chair of Developmental Biochemistry		Faculty of Medicine
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	graduate	--
<b>Contents</b>		
<p>In this module, selected current problems from the fields of stem cell biology, cellular differentiation and regenerative medicine are used to provide basic knowledge as well as analytical approaches. The current state of research is considered on the basis of the historical context. Selected examples are used to learn about topic-specific contexts. Special emphasis is placed on the methodology used to study and characterize stem cells at the molecular level in vivo and in vitro. Bioethical and legal frameworks are discussed in the course of the lecture.</p>		
<b>Intended learning outcomes</b>		
<p>Necessary basic knowledge to work on, analyze and critically interpret questions from stem cell biology, cellular differentiation and regenerative medicine on the basis of current literature. A basic methodological competence for independent scientific work in the field of stem cell biology. Development of an ethical awareness in relation to the application of stem cells in biomedicine.</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (2) Module taught in: German/English		
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes). Students will be informed about the method, length and scope of the assessment prior to the course. Assessment offered: Once a year, summer semester Language of assessment: German or English</p>		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
<p>Master's degree (1 major) Biochemistry (2015) Master's degree (1 major) Biomedicine (2015) Master's degree (1 major) Experimental medicine (2015) Master's degree (1 major) Biochemistry (2017) Supplementary course Translational Medicine (2018) Master's degree (1 major) Biomedicine (2018)</p>		



Master's degree (1 major) Translational Medicine (2018)  
Master's degree (1 major) Biochemistry (2019)