

## Annex SFB

### Studienfachbeschreibung (subject description, SFB) for the subject Experimental medicine as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Responsible: Faculty of Medicine

Examination regulations version: 2013

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions for the modules in this SFB: Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Information on assessment procedures: Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with the general regulations governing the degree subject described in this module catalogue:

**ASPO2009**

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

**15-Jul-2013 (2013-84)**

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

Abbreviation	<b>Module title</b>						
	ECTS		Duration	(in semesters)	Method of grading		Module level
	Courses		To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y				
	Method of assessment						
	Only after successful completion of		if applicable				
	Other prerequisites		if applicable				
	Participants and allocation of places		if applicable				
	Additional information		if applicable				
	Referred to in LPO I		if applicable (examination regulations for teaching-degree programmes)				

Compulsory Courses (30 ECTS credits)							
03-EM-MVH-092-m01	<b>Microbiology, Virology, Hygiene</b>						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level   graduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	oral examination of one candidate each (approx. 25 minutes)					
03-EM-PA-092-m01	<b>Pathology</b>						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level   graduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	oral examination of one candidate each (approx. 25 minutes)					
03-EM-PT-092-m01	<b>Pharmacology and Toxicology</b>						
	ECTS	5	Duration	2 semester	Method of grading	numerical grade	Modul level   graduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	oral examination of one candidate each (approx. 25 minutes)					
03-EM-MP-132-m01	<b>Molecular biology methods</b>						
	ECTS	15	Duration	1 semester	Method of grading	numerical grade	Modul level   graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	lab course assessment part I: written elaboration of lab reports (approx. 10 to 20 pages); lab course assessment part II: presentation (20 minutes) and/or written examination (30 minutes, including multiple choice questions)					
Compulsory Electives (60 ECTS credits)							
Subfield Practical Experimental Medicine (45 ECTS credits)							
03-EM-In-lm-132-m01	<b>Infection and Immunity</b>						
	ECTS	15	Duration	1 semester	Method of grading	numerical grade	Modul level   graduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> <li>• 03-EM-InIm-1-132: P (no information on SWS (weekly contact hours) and course language available)</li> <li>• 03-EM-InIm-2-132: K (no information on SWS (weekly contact hours) and course language available)</li> </ul>					
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. <p><b>Assessment in module component 03-EM-InIm-1-132:</b> Practical Training Infection and Immunity</p> <ul style="list-style-type: none"> <li>• 10 ECTS, Method of grading: numerical grade</li> <li>• term paper (minimum 10 pages, ready-to-publish written summary of results of experiments)</li> <li>• Language of assessment: German, English</li> </ul> <p><b>Assessment in module component 03-EM-InIm-2-132:</b> Colloquium Infection and Immunity</p> <ul style="list-style-type: none"> <li>• 5 ECTS, Method of grading: numerical grade</li> <li>• oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)</li> <li>• Language of assessment: German, English</li> </ul>					

03-EM-MO-132-m01	<b>Molecular Oncology</b>							
	ECTS	15	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	<p>This module comprises 2 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> <li>03-EM-MO-1-132: P (no information on SWS (weekly contact hours) and course language available)</li> <li>03-EM-MO-2-132: K (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
Method of assessment	<p>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</p> <p><b>Assessment in module component 03-EM-MO-1-132:</b> Practical Training Molecular Oncology</p> <ul style="list-style-type: none"> <li>10 ECTS, Method of grading: numerical grade</li> <li>term paper (minimum 10 pages, ready-to-publish written summary of results of experiments)</li> <li>Language of assessment: German, English</li> </ul> <p><b>Assessment in module component 03-EM-MO-2-132:</b> Colloquium Molecular Oncology</p> <ul style="list-style-type: none"> <li>5 ECTS, Method of grading: numerical grade</li> <li>oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)</li> <li>Language of assessment: German, English</li> </ul>							
03-EM-SFP-132-m01	<b>Structure and Function of Proteins</b>							
	ECTS	15	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	<p>This module comprises 2 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> <li>03-EM-SFP-1-132: P (no information on SWS (weekly contact hours) and course language available)</li> <li>03-EM-SFP-2-132: K (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
Method of assessment	<p>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</p> <p><b>Assessment in module component 03-EM-SFP-1-132:</b> Practical Training Structure and Function of Proteins</p> <ul style="list-style-type: none"> <li>10 ECTS, Method of grading: numerical grade</li> <li>term paper (minimum 10 pages, ready-to-publish written summary of results of experiments)</li> <li>Language of assessment: German, English</li> </ul> <p><b>Assessment in module component 03-EM-SFP-2-132:</b> Colloquium Structure and Function of Proteins</p> <ul style="list-style-type: none"> <li>5 ECTS, Method of grading: numerical grade</li> <li>oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)</li> <li>Language of assessment: German, English</li> </ul>							

03-EM-KVB-132-m01	<b>Cardiovascular Biology</b>							
	ECTS	15	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	<p>This module comprises 2 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> <li>03-EM-KVB-1-132: P (no information on SWS (weekly contact hours) and course language available)</li> <li>03-EM-KVB-2-132: K (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
Method of assessment	<p>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</p> <p><b>Assessment in module component 03-EM-KVB-1-132:</b> Practical Training Cardiovascular Biology</p> <ul style="list-style-type: none"> <li>10 ECTS, Method of grading: numerical grade</li> <li>term paper (minimum 10 pages, ready-to-publish written summary of results of experiments)</li> <li>Language of assessment: German, English</li> </ul> <p><b>Assessment in module component 03-EM-KVB-2-132:</b> Colloquium Cardiovascular Biology</p> <ul style="list-style-type: none"> <li>5 ECTS, Method of grading: numerical grade</li> <li>oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)</li> <li>Language of assessment: German, English</li> </ul>							
03-EM-NBP-132-m01	<b>Neurobiology and Neurophysiology</b>							
	ECTS	15	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	<p>This module comprises 2 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> <li>03-EM-NBP-1-132: P (no information on SWS (weekly contact hours) and course language available)</li> <li>03-EM-NBP-2-132: K (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
Method of assessment	<p>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</p> <p><b>Assessment in module component 03-EM-NBP-1-132:</b> Practical Training Neurobiology and Neurophysiology</p> <ul style="list-style-type: none"> <li>10 ECTS, Method of grading: numerical grade</li> <li>term paper (minimum 10 pages, ready-to-publish written summary of results of experiments)</li> <li>Language of assessment: German, English</li> </ul> <p><b>Assessment in module component 03-EM-NBP-2-132:</b> Colloquium Neurobiology and Neurophysiology</p> <ul style="list-style-type: none"> <li>5 ECTS, Method of grading: numerical grade</li> <li>oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)</li> <li>Language of assessment: German, English</li> </ul>							

03-SRM-132-m01	<b>Stem Cells and Regenerative Medicine</b>							
	ECTS	15	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> <li>• 03-SRM-1-132: P (no information on SWS (weekly contact hours) and course language available)</li> <li>• 03-SRM-2-132: K (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. <p><b>Assessment in module component 03-SRM-1-132:</b> Practical Training Stem Cells and Regenerative Medicine</p> <ul style="list-style-type: none"> <li>• 10 ECTS, Method of grading: numerical grade</li> <li>• term paper (minimum 10 pages, ready-to-publish written summary of results of experiments)</li> <li>• Language of assessment: German, English</li> </ul> <p><b>Assessment in module component 03-SRM-2-132:</b> Colloquium Stem Cells and Regenerative Medicine</p> <ul style="list-style-type: none"> <li>• 5 ECTS, Method of grading: numerical grade</li> <li>• oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)</li> <li>• Language of assessment: German, English</li> </ul>						
<b>Subfield Theoretical Experimental Medicine (15 ECTS credits)</b>								
03-EM-Sem1-132-m01	<b>Seminar Infection and Immunity</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 15 to 20 minutes) and written summary (approx. 1 page) Language of assessment: German, English						
03-EM-Sem2-132-m01	<b>Seminar Molecular Oncology</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 15 to 20 minutes) and written summary (approx. 1 page) Language of assessment: German, English						
03-EM-Sem3-132-m01	<b>Seminar Structure and Function of Proteins</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 15 to 20 minutes) and written summary (approx. 1 page)						
03-EM-Sem4-132-m01	<b>Seminar Cardiovascular Biology</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 15 to 20 minutes) and written summary (approx. 1 page)						
03-EM-Sem5-132-m01	<b>Seminar Neurobiology and Neurophysiology</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 15 to 20 minutes) and written summary (approx. 1 page)						
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03-EM-Sem6-132-m01	<b>Seminar Stem Cells and Regenerative Medicine</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 15 to 20 minutes) and written summary (approx. 1 page) Language of assessment: German, English						
03-EM-Sem7-132-m01	<b>Seminar Experimental Medical Research Methods</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 15 to 20 minutes) and written summary (approx. 1 page) Language of assessment: German, English						
<b>Thesis (30 ECTS credits)</b>								
03-EM-MA-132-m01	<b>Final Examination Experimental Medicine</b>							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	This module has 2 components; information on courses listed separately for each component. <ul style="list-style-type: none"> <li>03-EM-MA-2-132: K (no information on language and number of weekly contact hours available)</li> <li>03-EM-MA-1-132: A (no information on language and number of weekly contact hours available)</li> </ul>						
	Method of assessment	This module has the following 2 assessment components. Unless stated otherwise, students must pass all of these assessment components to pass the module as a whole.. <p><b>Assessment component to module component 03-EM-MA-2-132:</b> Kolloquium zur Masterarbeit</p> <ul style="list-style-type: none"> <li>5 ECTS credits, method of grading: numerical grade</li> <li>Abschlusskolloquium (approx. 45 minutes)</li> <li>Language of assessment: German or English</li> <li>Only after succ. compl. of module component(s): Teilmodul 03-EM-MA-2 setzt Bestehen von Teilmodul 03-EM-MA-1 voraus.</li> </ul> <p><b>Assessment component to module component 03-EM-MA-1-132:</b> Masterarbeit "Experimentelle Medizin"</p> <ul style="list-style-type: none"> <li>25 ECTS credits, method of grading: numerical grade</li> <li>written thesis</li> <li>Language of assessment: German or English</li> </ul>						
	Additional Information	Additional information listed separately for each module component. <ul style="list-style-type: none"> <li>03-EM-MA-1-132: Additional information on module duration: 6 months.</li> <li>03-EM-MA-2-132: --</li> </ul>						