

<b>Module title</b>		<b>Abbreviation</b>
Advanced Biochemistry and Molecular Biology		03-98-BCHF-152-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holders of the Chairs of Physiological Chemistry, Developmental Biochemistry, Biochemistry and Molecular Biology		Faculty of Medicine
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
10	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	Admission prerequisite to assessment: presentations.
<b>Contents</b>		
Enhanced insight into functional biochemical and molecular biological relationships. Examples of the molecular control of cell and organ functions. Application of molecular biology and genetic engineering methods to investigate cellular parameters such as gene expression patterns, protein expression or growth and apoptosis. Review of current literature on selected topics.		
<b>Intended learning outcomes</b>		
After participating in the module courses, the students have internalized advanced knowledge of biochemistry and are able to present and use it (professional competence). In addition, they have learned to acquire new knowledge from the primary literature (self-competence), to process this knowledge and to communicate it to people with a comparable level of knowledge (social competence). They have acquired practical routine in circumscribed experiments (methodological competence) and can plan and develop their own experimental analyses on this basis.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (4) + S (1) + Ü (6) Module taught in: German and/or 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)		
written examination (60 to 90 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (20 to 30 minutes) or an oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate). creditable for bonus		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
300 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>		
Bachelor' degree (1 major) Biomedicine (2015) Bachelor' degree (1 major) Biomedicine (2018)		