

<b>Module title</b>		<b>Abbreviation</b>
Basic Biochemistry and Molecular Biology		03-98-BCH-202-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 Biology
<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>
2 semester	undergraduate	Admission prerequisite to assessment: Eingangstestate
<b>Contents</b>		
<p>Biochemistry: structure and function of the building blocks of life, enzyme kinetics, biochemical analytics, fundamentals of intermediate and energy metabolism, mitochondrial function.</p> <p>Molecular biology: storage, transduction and expression of genetic information, control of cell functions by hormones and signal transduction processes, basic immunology.</p> <p>Performing biochemical detection reactions and molecular biology experiments.</p>		
<b>Intended learning outcomes</b>		
<p>After successful completion of the module, students are able to describe the molecular structure of cells and organisms. They understand basic metabolic processes in humans and their regulation. They can describe molecular biological relationships of cell and organ functions and possible application examples. They possess the ability to review and present limited topics in small teams. They are proficient in the reproducible collection of simple biochemical and molecular biological measurement data and they can describe quality parameters.</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (5) + S (4) + Ü (4)		
<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 (45 to 90 minutes) and presentation (weighted 3:1)		
<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 (2020)		