

<b>Module title</b>		<b>Abbreviation</b>
Practical Course in Molecular Microbiology		03-98-PMoMi-202-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Institute of Molecular Infection Biology		Faculty of Biology
<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	undergraduate	--
<b>Contents</b>		
<p>Basic microbiological experiments are carried out. The internship includes methods of disinfection and sterilization, diagnostic determination of pathogens, staining and microscopy of grampositive and gramnegative pathogens, analysis of growth curves, determination of the cell count of bacteria, metabolic reactions in bacteria, determination of antibiotic resistance, familiarization with processes of horizontal gene transfer, generation of genetic mutations and their detection, analysis of gene regulation.</p>		
<b>Intended learning outcomes</b>		
<p>The students acquire the ability to apply microbiological and molecular methods with pathogenic bacteria. They are able to design, carry out and analyse scientific experiments. They are able to assess experimental and methodological errors. The students are able to develop strategies to solve problems. They can analyse and present own experimental data.</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
P (5) + S (1) 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 (45 to 90 minutes) or  b) log (10 to 20 pages) or  c) oral examination of one candidate each (20 to 30 minutes)  Language of assessment: German or English</p>		
<b>Allocation of places</b>		
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<b>Additional information</b>		
Duration: 2 weeks		
<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>		
Bachelor' degree (1 major) Biomedicine (2020)		
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