

Module title		Abbreviation
Microbiology		03-98-MIK-202-m01
Module coordinator		Module offered by
Institute of Molecular Infection Biology		Faculty of Biology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The theoretical basics of microbiology are introduced in the lecture. This includes historical developments and milestones in microbiological research, overview of the diversity of microbiological organisms and their role in ecosystems, classification and function of virulence factors, evolution of pathogenicity, processes of gene regulation, application of diagnostic methods, interactions of pathogens with the immune system, common infectious diseases and their causes, function of the microbiota and characteristics of parasitic pathogens.</p>		
Intended learning outcomes		
<p>Students are able to compare characteristics of prokaryotic cells and eukaryotic cells, to classify historical developments, to assess modern methods of microbiological research, to analyze the virulence potential of a pathogen, to discuss evolutionary aspects of pathogenic microorganisms, to evaluate the role of horizontal gene transfer in the emergence of new pathogenic variants. Acquisition of the ability to structure and network complex relationships.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (3)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>Written examination (approx. 60 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).</p>		
Allocation of places		
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Additional information		
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Workload		
150 h		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Biomedicine (2020)		