Module title			Abbreviation
Practical Course in Molecular Infection Biology			03-98-PMIB-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

Fundamental principles of the interaction of bacterial pathogens and multicellular parasites with host organisms; invasion of mammalian cells by intracellular bacteria as well as the regulation and mode of action of bacterial virulence factors; fundamental principles of microbial diagnostics.

Intended learning outcomes

Students will acquire theoretical and practical knowledge on bacterial virulence factors, their regulation and mode of action in the context of infectious disease, including the invasion of eukaryotic host cells by bacterial pathogens and the multiplication and persistence of bacteria within host cells. The students will learn fundamental principles of the cultivation of bacteria and multicellular parasites under laboratory conditions as well as the utilisation of these cultivation systems for the development of novel antiinfectives. The students will learn the principles of microbial diagnostics, including microbial cultivation as well as DNA-based, microscopical, serological and physiological methods of diagnostic differentiation.

Courses (type, number of weekly contact hours, language — if other than German)

P (5) + S (1)
Module taught in: German / English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

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)

Allocation of places

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Additional information

Duration: 2 weeks

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Bachelor' degree (1 major) Biomedicine (2020)