

Module title		Abbreviation
Genetic Engineering and Biosafety		03-98-FSQ-GEN-152-m01
Module coordinator		Module offered by
Institute of Molecular Infection Biology and Graduate School of Life Sciences		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
1	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The lecture imparts knowledge in the following sub-areas:</p> <p>1) Theoretical fundamentals of genetic engineering and genetic engineering safety requirements as well as an overview of the areas of application of genetic engineering. Introduction to the legal framework and regulations that must be observed when handling biomaterials, genetically modified organisms and pathogens.</p> <p>2) Learn and reflect</p> <ul style="list-style-type: none"> • principles of good scientific practice • genesis and worldwide establishment of principles • individual people, (societal) groups and institutions involved, their roles and interests • specific regulations and procedures of dealing with misconduct, especially those of JMU 		
Intended learning outcomes		
<p>Ad 1) The students have knowledge of methods of genetic engineering as well as the relevant regulations of the Infection Protection Act and the Genetic Engineering Safety and Biological Substances Ordinance. They can categorize biomedical work with regard to its hazard potential. The students remember safety-relevant rules of conduct in the laboratory and are able to apply them in practice.</p> <p>Ad 2) Factual competencies: Knowledge of rules, knowledge of the current discussion on GSP worldwide Self-competencies: Ability to understand GSP as a process in science and starting point to develop one's own awareness of and attitude towards GSP.</p>		
Courses (type, number of weekly contact hours, language – if other than German)		
V (1)		
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>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) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes).</p> <p>Students will be informed about the type and length of assessment at the beginning of the course.</p>		
Allocation of places		
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Additional information		
Students MUST take this module.		
Workload		
30 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Biomedicine (2015)		

Master's degree (1 major) Experimental medicine (2015)
Supplementary course Translational Medicine (2018)
Bachelor' degree (1 major) Biomedicine (2018)
Master's degree (1 major) Translational Medicine (2018)