

Module: EW23 Bio- and gene technology in food production		
Exam: EW23 Bio- and gene technology in food production	LV.-No.:	ECTS-Points: 5 CP
Recommended Semester: A,B,C. Semester	Module: optional	Language: English and German
Responsible lecturer: Prof. Dr. Fritz Titgemeyer	Cycle: winter or summer term	Registration information:
Lecturer in charge: Prof. Dr. rer. nat. habil. Fritz Titgemeyer		
Learning outcomes	Students are able to <ul style="list-style-type: none"> • to know the basics of molecular biology, biotechnology and gene technology. • to know the legal regulations. • professionally present course-specific topics. • analyze and evaluate issues of bio- and gene technology regarding the production of food. • read and acquire knowledge from current scientific publications. 	
Form of exam	see current exam list	
Form of teaching	<ul style="list-style-type: none"> • seminar • practical course 	
Course contents	<ul style="list-style-type: none"> • course content will be specifically addressed the participating students from diverse programs • basics molecular biology und gene gechnology such as cloning procedures and gene expression • genomics, transcriptomics, proteomics, nutrigenomics • Experiments in production of recombinant protein and molecular diagnostic • legal regulations • aspects of sustainability regarding der bio and gene technology • bioinformatics • database and big data • current scientific publications 	
Workload	Presence (2 SWS): Preparation and Follow-up: Sum:	30 h 120 h 150 h
Requirements	none	
Literature	- script practical course - selected publications	