

Course description		
Course	Microbial Biotechnology	
Department	Department of Microbiology and Infectious Diseases	
Language	English	
Nature	Optional	
Year/semester	1st year, spring-term	
Credits (ECTS)		2
Lectures (hour/semester)		12
Plenary lectures (hour/semester)		0
Practicals (hour/semester)		0
Responsible teacher	Dr. Forgách Petra	
Teacher(s)	Dr. Forgách Petra	
Prerequisites	Dr. Forgách Petra, Dr. Harrach Balázs, Dr. Fehér Enikő, Dr. Zádori Zoltán, Dr. Marosi András	
Learning outcome (include skills and competencies, if any)		
Knowledge about new generation methods used in microbiology including research techniques and vaccine production.		
Outcome assessment		
exam		
Weekly schedule of lectures and practicals		
WEEK	Lecture topics	
Week 1	Dr. Harrach Balázs	Molecular biology methods: PCR, nucleic acid sequencing.
Week 2	Dr. Fehér Enikő	New generation nucleic acid sequencing
Week 3	Dr. Harrach Balázs	CRISPR DNS-engineering methods
Week 4	Dr. Zádori Zoltán	Detection and analysis of protein interactions.
Week 5	Dr. Zádori Zoltán	Recombinant methods in vaccine production.
Week 6	Dr. Marosi András	Biotechnology legislations
Recommended literature		
Note(s)		