

Title	Plant biotechnology and RNA techniques in global agriculture		
Code	3GN18NAK32M		
Prerequisites	BSc level genetics		
Description	<p>Within the course the techniques of plant biotechnology are reviewed, with particular emphasis on the devices used in molecular breeding. In addition to the creation, utilization, economic significance and risks of transgenic plants, the novel techniques of precision breeding, the molecular biological bases of genomics, and in particular the operation of the CRISPR system, are presented. The applicability of these techniques and their potential for plant viral resistance, modification of yeast and filamentous fungi, plant and animal breeding are shown.</p>		
Lecturer	Dr. Ervin Balázs, Dr. Attila Hegedűs, Dr. Júlia Halász, Dr. Zsuzsanna György		
Semester	4th, spring	Contact hours/week	2+2
Level	MSc	ECTS	4
Teaching and Learning Methods:			
Reading:			
Assessment:	exam		