

Title	Molecular genetics and gene technology of plants		
Code	3GN18NAK06M		
Prerequisites	BSc level genetics		
Description	Our primary goal is to expand the knowledge of genetics and molecular biology. In this context, the molecular genetic and genetechnology knowledge required for breeding and biotechnological applications will be presented. The genetic control of plant development, the molecular genetic basis of biotic (eg virus, bacteria, insect) and abiotic (eg heat, cold) stress reactions are treated with special emphasis. The latest methods and results of genomics and genetic engineering are also introduced.		
Lecturer	Dr. Attila Hegedűs, Dr. Júlia Halász, Dr. Zsuzsanna György		
Semester	1st, fall	Contact hours/week	2+1
Level	MSc	ECTS	3
Teaching and Learning Methods:			
Reading:	Compulsory literature: Klug, W.S., Cummings, K. (2014) Concept of Genetics. Pearson, USA		
Assessment:	exam		