

Title	<i>Plant Stress Physiology</i>		
Code	INTKT MN001		
Prerequisites	Plant physiology on BSc level		
Description	Interactions of plants and the environment are highlighted by treating the following subject areas: General overview of interactions between plants and their abiotic environment. Sensing of internal and external signals. Water and mineral nutrient transport in the changing environment. Signal transduction networks and physiological interactions of plant hormones. Molecular background and regulation of circadian and photoperiodic rhythms. Non-photosynthetic effects of light, consequences of extreme temperature and salt exposure. Levels and types of adjustments to external conditions, tolerance strategies. Microsymbionts and plant stress tolerance. Biotic interactions of plants. In laboratory training biochemical and physiological consequences of stress conditions will be demonstrated (stress metabolites, instrumental methods of stress detection).		
Lecturer	Dr Borbála Bíró, Kissné Dr. Erzsébet Bába, Dr. Anita Szegő, invited speakers from outside institutions		
Semester	Spring	Contact hours/week	2+2
Level	MSc	ECTS	5
Teaching and Learning Methods:			
Reading:	Compulsory readings: Eds Taiz and Zeiger, Plant Physiology, Sinauer Recommended readings: Eds Buchanan et al, Biochemistry and Molecular Biology of Plants		
Assessment:	Written exam		