

General Information			
Course name and code	Plant Biotechnology ÚBEV/BTR1/06	ECTS Credits	6
		Semester	1st (Winter) Bachelor, Master and Doctoral Degree
Aims			
To gain theoretical and practical knowledge on plant tissue culture <i>in vitro</i> .			
Contents			
Genetics and physiology of plant cell and tissue culture, protoplasts, embryoids and organs cultured <i>in vitro</i> under sterile conditions. Use of tissue culture in research and praxis. Cryopreservation of plant cells and tissues. Immobilised plant systems. Genetic transformation of plants and expression of foreign genes.			
Evaluation			
Protocols, oral examination.			
Bibliography			
Slater A. et al.: Plant Biotechnology. Oxford University Press 2008, 376 pp. Wink M. (Ed.): An Introduction to Molecular Biotechnology. Willey-Blackwell, 2011, 601 pp. Periodicals and Internet sources.			