

Georg-August-University Göttingen

Master Program „Crop Protection“

Module M.Agr. 0010 „ Biotechnological Applications in Plant Breeding"

Contents, Objectives		C/H PER SW
<p>Contents: Students will gain advanced knowledge in theory and practice of the application of biotechnology and molecular genetics in plant breeding. The main topics in the lecture and practical are:</p> <ul style="list-style-type: none">- application of in vitro propagation- production and use of haploids- interspecific sexual and somatic hybridization- direct and indirect gene transfer- biochemical and molecular characterization of transgenic plants- present use in gene technology and risk assessment- quality and use of different types of markers in plant breeding <p>In the seminar the application of biotechnology in plant breeding and agriculture today will be presented and critically discussed.</p> <p>Objectives: Students are able to use their knowledge of biotechnological methods to solve present problems. They learn to critically analyze, evaluate and report complex scientific papers.</p>		6 C/4 H PER SW Workload : 180 h Contact time: 56 h Self study time: 124 h
Type of instruction and examination		
Lecture 28 h , practical 22 h, seminar 6 h		
Examination: Written test 90 minutes		
Prerequisite for the examination: Seminar presentation 20 minutes		
Type of module	Entrance requirements	
Elective module	none	
Frequency	Duration	
Summer	One semester	
Language	Number of students	
English	12	
Coordinator		
Dr. C. Möllers		