

Georg-August-University Göttingen

Master Program „Crop Protection“

Module M.Agr. 0175 „ Plant Herbivore Interactions (Experimental Course)“

Contents, Objectives Contents: The module complements the lecture of the same name and deals with the Interactions between (crop) plants and herbivorous insects. In the internship. The knowledge acquired in the lecture should be deepened and methods used chemical ecology / agricultural entomology can be learned. In particular will various defense strategies of the plant against herbivores were examined. The Importance of predators and parasitoids for population control of herbivores Pests, and thus for integrated plant protection, are treated. Literature: Schoonhoven et al. (2005) Insect-Plant Biology, 2nd Ed., Oxford University Press Experimental Course: Students present and discuss new research results in context with the topics dealt with in the lectures. Objectives: Students will learn the ability to plan and carry out experiments, to statistically evaluate, graphically display and interpret. You will be able to extract secondary metabolites with defense or signaling functions from the plant to isolate and quantify. The students learn how to carry out Bioassays that are intended to demonstrate the defensive function of secondary metabolites.		C/H PER SW 3 C/2 H PER SW Workload : 90 h Contact time: 40 h Self study time: 50 h
Type of instruction and examination Practical 40 h Examination: Documentation and interpretation of the tests carried out in accordance with the scientific standard. Seminar presentation		
Type of module Elective module	Entrance requirements Successful participation in the module “M.Agr.0058.Mp: Plant-Herbivore Interactions”.	
Frequency Summer	Duration One semester	
Language English	Number of students 12	
Coordinator Prof. Dr. M. Rostas		