Module title: Molecular and Chemical Plant Ecology F2  
Abbreviation: 07-MS3MCPEF2-152-m01

Module coordinator: holder of the Chair of Plant Physiology and Biophysics
Module offered by: Faculty of Biology

ECTS: 15  
Method of grading: Only after succ. compl. of module(s)

Duration: 1 semester  
Module level: graduate  
Other prerequisites: --

Contents
Students will work on projects taken from ongoing research in the supervisors' labs from the field of molecular and chemical plant ecology (e.g. cuticular barrier properties, plant-insect, and plant-fungus interactions). They will do this work to a large extent on their own responsibility by performing advanced experiments, their documentation and evaluation. Based on the results obtained, the analytical, molecular biological and/or microbiological methods applied (e.g. PCR, cloning strategies, chromatography, mass spectrometry) will be critically assessed and, where necessary, modified. The progress of the experiments and their contribution to more general projects will be documented and presented in the form of presentations, publications or logs.

Intended learning outcomes
The participants are able to independently perform scientific experiments in the field of molecular and chemical plant ecology and to modify them according to the outcome. They are able to independently address, document and interpret questions in the field of molecular/chemical plant ecology, adhering to the rules of good scientific practice. Students are also able to apply specific techniques required to answer scientific questions.

Courses
P (29) + S (1)
Module taught in: German and/or English

Method of assessment
Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes)
Language of assessment: German and/or English

Allocation of places
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Additional information
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Referred to in LPO I
(examination regulations for teaching-degree programmes)
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Module appears in
Master’s degree (1 major) Biology (2015)
Master’s degree (1 major) Biosciences (2016)
Master’s teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)
Master’s degree (1 major) Biosciences (2017)
Master’s degree (1 major) Biosciences (2018)