Module title	Abbreviation
Developmental Physiology and Adaption of Plants (Lecture and Seminar)	07-MS3PA-102-m01

Module coordinator	Module offered by
holder of the Chair of Pharmaceutical Biology	Faculty of Biology

ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Section Developmental Physiology: The lecture will discuss the physiological processes occurring during ontogeny as well as the reaction of plants to various environmental parameters. It will focus on introducing students to the molecular components (ABA, auxin, ethylene etc.) of signalling networks and explaining their biosynthesis, regulation and functioning. Current journal articles on the topics will be presented and discussed in the seminar. Section Adaptation: The lecture will deal with the ecological and environmental constraints under which plants grow and develop (biogeography, biodiversity) and with the interactions of plants with abiotic and biotic environmental factors (e. g. plant-insect, plant-fungus interactions). The evolutionary adaptations on the physiological and organismic level will be emphasised in particular (stress and defence reactions, carnivory, plant protection). Based on selected examples from current research, the seminar will address the topics covered in the lecture in more detail. It will be complemented by topic-related guided tours in the Botanical Garden of the University of Würzburg.

Intended learning outcomes

Students are qualified to recognise ecological and physiological relations and are able to interpret and discuss these relations in the context of the current state of knowledge.

Courses (type, number of weekly contact hours, language — if other than German)

S + V (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

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) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes)

Allocation of places

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Additional information

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Workload

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Teaching cycle

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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 (2011)
Master's degree (1 major) Biology (2010)
Master's degree (1 major) Biology (2014)