Module title
Developmental Biology of Animals

Abbreviation
07·3A3EBIOTI-152-m01

Module coordinator
Dean of Studies Biologie (Biology)

Module offered by
Faculty of Biology

ECTS
4

Method of grading
numerical grade

Only after succ. compl. of module(s)
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Duration
1 semester

Module level
undergraduate

Other prerequisites
Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.

Contents
In this module, students will acquire theoretical and practical background knowledge on animal developmental biology. The following topics will be covered: early embryonic development of various model organisms (amphibians, nematodes, Drosophila, mouse) and relevance for the systematics of animals, gametogenesis (production of spermatozoa and ova), differential gene expression, cell growth and molecular regulation of cell development, organogenesis, pattern formation, carcinogenesis, stem cell research and cloning, metamorphosis (amphibians, insects), eco-devo, evo-devo.

Intended learning outcomes

Courses
(V (1) + Ü (3))

Method of assessment
written examination (approx. 60 minutes)

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
Bachelor' degree (1 major) Biology (2015)
Bachelor' degree (1 major) Mathematics (2015)
Bachelor' degree (1 major) Biomedicine (2015)
Bachelor' degree (1 major) Computational Mathematics (2015)
Bachelor’s degree (1 major, 1 minor) Biology (Minor, 2015)
Bachelor’ degree (1 major) Biology (2017)
Bachelor’ degree (1 major) Biomedicine (2018)