### Module description

**Module title**

Cell and Developmental Biology Master 2

**Abbreviation**

07-MS2ZE2-152-m01

**Module coordinator**

holder of the Chair of Cell Biology and Developmental Biology

**Module offered by**

Faculty of Biology

**ECTS**

10

**Method of grading**

numerical grade

**Only after succ. compl. of module(s)**

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**Duration**

1 semester

**Module level**

graduate

**Other prerequisites**

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## Contents

The module consists of the lecture **Signale und Differenzierung** (Signals and Differentiation) and the seminar **Entwicklungsbiologie - Meilensteine und Perspektiven** (Milestones and Perspectives of Developmental Biology). The lecture Signals and Differentiation does not attempt to impart pure textbook knowledge. Instead, historically important as well as particularly interesting and important trend-setting topics in developmental biology are presented. The topics range from classical developmental subjects such as tissue regeneration and morphogenetic cell migration to molecular stem cell biology, epigenetic plasticity, origins of multicellularity and development within changing environments. In the seminar Milestones and Perspectives of Developmental Biology, classic ground-breaking publications in the field of developmental biology are discussed from an unusual point of view.

## Intended learning outcomes

Participants possess a knowledge of the theoretical and molecular biological principles underlying developmental biology and are able to put this into the broader context of cell and developmental biology research.

### Courses

**Type, number of weekly contact hours, language — if other than German**

V (1) + S (2)

Module taught in: English

### 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 (30 to 60 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) FOKUS Life Science (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)