| Module title | | | Abbreviation |
|---|---|---|---|
| **Endogenous Clocks B** | | | 07-MECBB-152-m01 |
| **Module coordinator** | | **Module offered by** | |
| holder of the Chair of Neurobiology and Genetics | | Faculty of Biology | |
| **ECTS** | **Method of grading** | **Only after succ. compl. of module(s)** | |
| 5 | (not) successfully completed | -- | |
| **Duration** | **Module level** | **Other prerequisites** | |
| 1 semester | graduate | -- | |

**Contents**

Introduction into endogenous clocks of unicellular organisms, fungi, plants and animals, with a focus on the neuronal organisation of the clock in the brain of mammals and insects. The biological functions of endogenous clocks and the underlying mechanisms will be discussed on the molecular, cellular and organismic levels. It will be explained how clocks adjust to a 24h day with variable photoperiods. Applied aspects regarding e. g. shift work or jetlag will also be discussed.

**Intended learning outcomes**

The students learn fundamental principles underlying chronobiology/endogenous clocks and obtain an insight into current research in the field.

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

V (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)

a) written examination (30 to 60 minutes, including multiple choice questions) 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)
Students will be informed about the method, length and scope of the assessment prior to the course.
Language of assessment: German and/or English

**Allocation of places**

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**Additional information**

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**Workload**

150 h

**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 (2015)
Master's degree (1 major) Biosciences (2016)
exchange program Biosciences (2022)