

| Module title   |                              | Abbreviation                         |
|--|------------------------------|--------------------------------------|
| Cell- and Development-Biology Master 2 B   |                              | 07-MZE2-B-121-m01                    |
| Module coordinator   |                              | Module offered by                    |
| holder of the Chair of Cell Biology and Developmental Biology  |                              | Faculty of Biology                   |
| ECTS   | Method of grading            | Only after succ. compl. of module(s) |
| 3  | (not) successfully completed | --                                   |
| Duration   | Module level                 | Other prerequisites                  |
| 1 semester   | graduate                     | --                                   |
| Contents   |                              |                                      |
| <p>The lecture <i>Signale und Differenzierung (Signals and Differentiation)</i> is not designed to merely impart textbook knowledge to students. It will rather introduce students to particularly interesting and current topics in developmental biology. Topics covered in the lecture (subject to change): - Cooperation: Development and consequences of multicellularity. - Sex: More than just ? + ? =. - On the move: Morphogenetic migration. - All-rounders?: Opportunities and limitations of stem cell research. - Growing new hearts?: Animals and their ability to regenerate. - Disasters: What do we actually know about metamorphoses? - Always the same?: Plasticity and epigenetics. - Metaorganisms: We are never alone. - Development in changing environments: Ecology and polyphenism. - Developmental biology of behaviour: Everything is learned. Or isn't it? - Evo-devo: A fad? No, been around for ages.</p> |                              |                                      |
| 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 (no information on language and number of weekly contact hours 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)  |                              |                                      |
| #REF!  |                              |                                      |
| Allocation of places   |                              |                                      |
| --   |                              |                                      |
| Additional information   |                              |                                      |
| --   |                              |                                      |
| Workload   |                              |                                      |
| --   |                              |                                      |
| Teaching cycle   |                              |                                      |
| --   |                              |                                      |
| Referred to in LPO I (examination regulations for teaching-degree programmes)  |                              |                                      |
| --   |                              |                                      |
| Module appears in  |                              |                                      |
| Master's degree (1 major) Biology (2011)<br>Master's degree (1 major) Biology (2014)<br>Master's degree (1 major) Biomedicine (2013)<br>Master's degree (1 major) Biomedicine (2012)   |                              |                                      |