### Module title
Single Cell Biology

### Abbreviation
03-98-SCB-192-m01

### Module coordinator
holder of the Chair of Molecular Infection Biology I

### Module offered by
Chair of Molecular Infection Biology

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>numerical grade</td>
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<table>
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<tr>
<th>Duration</th>
<th>Module level</th>
<th>Other prerequisites</th>
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<tbody>
<tr>
<td>1 semester</td>
<td>graduate</td>
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### Contents
The Single Cell Biology course is at the interface of genomics, bioinformatics, biology and pathology. It will give an introduction of the most recent technologies for single cell analysis and an overview of the application of single cell biology across the medical field (cancer, immunology, cardiovascular diseases, and infectious diseases). Practical components will allow the students to be familiarized with the basic tools to perform data analysis.

### Intended learning outcomes
Students are familiar with fundamental concepts of single cell biology throughout the life sciences and they can apply basic procedures to analyze single cell data sets.

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

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<tbody>
<tr>
<td>Module taught in: Englisch</td>
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### 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 (approx. 60 minutes)

Language of assessment: English

creditable for bonus

### Allocation of places

<table>
<thead>
<tr>
<th>M.Sc.Biomed: 156</th>
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<td>M.Sc. Biochem: 156</td>
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<td>M.Sc. Biowis: 106</td>
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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) Biochemistry (2017)
Master's degree (1 major) Biomedicine (2018)
Master's degree (1 major) Biosciences (2018)
Master's degree (1 major) Biochemistry (2019)
Master's degree (1 major) Biosciences (2021)