**Module title**  Advanced Biochemistry and Molecular Biology  
**Abbreviation**  03-98-BCHF-202-m01

**Module coordinator**  holders of the Chairs of Physiological Chemistry, Developmental Biochemistry, Biochemistry and Molecular Biology  
**Module offered by**  Faculty of Medicine

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Duration</th>
<th>Module level</th>
<th>Other prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>numerical grade</td>
<td>1 semester</td>
<td>undergraduate</td>
<td>Admission prerequisite to assessment: log.</td>
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**Contents**

Enhanced insight into functional biochemical and molecular biological relationships. Examples of the molecular control of cell and organ functions. Application of molecular biology and genetic engineering methods to investigate cellular parameters such as gene expression patterns, protein expression or growth and apoptosis. Review of current literature on selected topics.

**Intended learning outcomes**

Students gain an advanced knowledge of functional biochemistry and molecular biology. They develop an understanding of the driving forces of normal and misguided cell functions and acquire practical routine in circumscribed experiments. Students gain an insight into the critical interpretation of experimental data.

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

V (4) + S (1) + Ü (6)  
**Veranstaltungssprache:** Deutsch und Englisch

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

Written examination (30 to 90 minutes) and presentation (weighted 3:1)

**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) Biomedicine (2020)