## Drug Targets

**Module name:** Drug Targets  
**In Semester:** BTB 6 und 7  
**ETCS-Points:** 2  
**Working hours:**  
<table>
<thead>
<tr>
<th>Sum</th>
<th>Contact time</th>
<th>Self-study time</th>
<th>Exam preparation</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>30</td>
<td>20</td>
<td>10</td>
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</table>
**Duty mark:** elective  
**Teaching language:** German / English  
**Offered:** Summer term  
**Usability for other courses or studies:** none  
**Conditions for participation:** Lectures: Biochemistry, Cell biology

### Targets of the module
- Students will be able to:
  1. give examples of disease-relevant proteins (‘drug targets’) and to describe their cellular function and physiological role.
  2. summarize pharmaceutical small chemical compounds and biotechnological drugs.
  3. present current technologies for the identification of novel ‘drug targets’.
  4. analyze and present reports and articles from scientific journals.

### Content
- The lecture provides an overview of disease-relevant proteins, so-called ‘drug targets’, used by the pharmaceutical industry to develop chemical and biological agents for the treatment of e.g. cancer, diabetes, inflammation and cardiovascular disorders.
- The lecture includes individual classes of ‘drug targets’, such as kinases, receptor tyrosine kinases (RTKs), G-protein coupled receptors (GPCRs), ion channels, ligands.
- The lecture includes biological agents, so-called ‘biotech drugs’, e.g. monoclonal antibodies and recombinant proteins.
- The lecture provides an overview of technologies for the identification of novel ‘drug targets’.

### Literature
- Lecture notes and scientific journals

### Responsible person
- Cristina Sirrenberg-Cruicat

### Efficiency statements

<table>
<thead>
<tr>
<th>Form of instruction</th>
<th>SWS</th>
<th>Targets</th>
<th>Examination form</th>
<th>Working hours</th>
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<tbody>
<tr>
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<td>- See above</td>
<td>Oral presentation</td>
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