

<b>Module title</b>		<b>Abbreviation</b>
<b>Basics and Trends in the Biotechnologies / Biosciences (not für students of Bioscientific curricula)</b>		07-ASQ-GTB-152-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Coordinator BioCareers		Faculty of Biology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
3	(not) successfully completed	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
This module (lecture and seminar) will provide students with an overview of instrument-based methods in biotechnology and biomedicine and the underlying physical principles. It will discuss modern methods for the analysis of biological matter on the molecular and cellular level. These methods include light microscopy, fluorescence spectroscopy, electron microscopy, atomic force microscopy, flow cytometry and microfluidics.		
<b>Intended learning outcomes</b>		
Students will gain an overview of key methods in biotechnology and their respective advantages and disadvantages. They will learn to decide what method is most suitable for addressing a particular issue.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
S (2) Once a year, summer semester		
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation (10 to 15 minutes) Language of assessment: German and/or English		
<b>Allocation of places</b>		
min. 7, max. 50 places (lottery)		
<b>Additional information</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		