

<b>Module title</b>		<b>Abbreviation</b>
Mass-Spectrometry and Proteomics		o8-MBC-MSP-142-mo1
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Chair of Biochemistry		Chair of Biochemistry
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	graduate	--
<b>Contents</b>		
<p>This module comprises a lecture, a seminar and a lab course. The lecture will discuss the theoretical principles of, and essential methods for, the mass spectrometry of biomolecules. In the seminar, students will become familiar with different software packages and the fundamental principles of the analysis of mass spectrometry data. The lab course will give students the opportunity to independently apply to practical experiments what they have learned in theory.</p>		
<b>Intended learning outcomes</b>		
<p>Students have learned the theoretical foundations of mass spectrometry protein and proteomic analysis and are able to work with software tools for the analysis of mass spectrometry data. They have learned the steps involved in the procedure - from sample preparation through to mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometer.</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V + S + P (no information on SWS (weekly contact hours) and course language available)		
<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)		
<p>a) written examination (approx. 60 minutes) or Biochemie (Biochemistry): b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English</p>		
<b>Allocation of places</b>		
Biochemistry Master's: 6 places. Places will be allocated by lot.		
<b>Additional information</b>		
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<b>Workload</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>		
Master's degree (1 major) Biochemistry (2012)		