

<b>Module title</b>		<b>Abbreviation</b>
Single Cell Biology		03-98-SCB-192-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Helmholtz Institute of RNA-based Infection Research Würzburg		Faculty of Medicine
<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>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.</p>		
<b>Intended learning outcomes</b>		
<p>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. They recognize the significance and areas of application of the methods for medical diagnostics and translational research.</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
<p>V (1,5) + Ü (0,5) Module taught in: Englisch</p>		
<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) Language of assessment: English creditable for bonus</p>		
<b>Allocation of places</b>		
<p>M.Sc.Biomed: 156 M.Sc. Biochem: 156 M.Sc. Biowis: 106</p>		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</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>		
<p>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) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)</p>		

