OVERVIEW CHANGES OF THE STUDY DOCUMENTS MOLECULAR BIOENGINEERING
Study documents of 10.12.2014

Changes of 16 February 2022 - Change of module responsible via CMCB WR	
Old version	**New version**
Genomes and Evolution	
Prof. Francis Stewart	Prof. Henrik Bringmann
Biophysics	
Prof. Francis Stewart	Prof. Alf Honigmann
Genome and Stem Cell Engineering	
Prof. Francis Stewart	Prof. Konstantinos Anastassiadis
Lab Project	
Prof. Francis Stewart	Prof. Konstantinos Anastassiadis

Changes of 16 February 2022 - Change of recommended literature via CMCB WR	
	New version
Biophysics	
	o R. Cotterill: Biophysics o R. Glaser: Biophysics o H.C. Berg: Random Walks in Biology. o P.W. Atkins: Physical Chemistry o D.H. Boal: Mechanics of the Cell
Genome and Stem Cell Engineering	
	o Genome Editing and Engineering: From TALENs, ZFNs and CRISPRs to Molecular Surgery. (2018) Krishnarao Appasani ISBN-13: 978-1107170377 o Developmental Biology (12th Edition – 2019) Englisch Ausgabe von Michael J. F. Barresi (Autor), Scott F. Gilbert (Autor) ISBN-13: 978-1605358222 o Stem Cell Engineering: Principles and Practices (1st Edition - 2012), David Schaffer, Joseph D. Bronzino, Donald R. Peterson, ISBN-13: 978-1439872048 o Handbook of Stem Cells (2nd Edition - 2013) Vol. I: Pluripotent stem cells Vol. II: Adult and Fetal stem cells Robert Lanza, Anthony Atala ISBN: 978-0-12-385942-6 o Principles of Regenerative Medicine (2nd Edition – 2010), Anthony Atala ISBN-13: 978-0123694102
Protein Networks and Protein Engineering	

	o Molecular Biology of the Cell (Bruce Alberts et al.) o Biochemistry (John Tymoczko et al.) o Principles of Biochemistry (Lehninger et al.) o Bioanalytics (Lottspeich and Engels) o Synthetic Biology - A Primer (Baldwin et al.)

Changes of 21 April 2021 - Change of module responsible - via CMCB WR	
Old version	**New version**
Introduction to Proteomics	
Prof. Bernard Hoflack	Prof. Simon Alberti
Protein Networks and Protein Engineering	
Prof. Bernard Hoflack	Prof. Simon Alberti
Biophysics	
Prof. Jochen Guck	Prof. Francis Stewart

Changes of 10 August 2018 - Study Regulations	
Old version	**New version**
Chemistry with Biomolecules	
2 written examinations 1 lab protocol	1 written examination (120 min) 75% 1 lab protocol 25 %
Structural and computational biology	
	For the module to be passed, the written examination has to be evaluated with a min of sufficient (4.0)
Lab Project	
1 manuscript	1 manuscript 2/3 1 oral examination (15 min) 1/3
Study Regulations -overall in the text	
BIOTEC	CMCB

Changes of 10 August 2018 - Examination Regulations	
Old version	**New version**
§ 12, Art. 1 -one sentence added	
	In individual cases that are defined in the module descriptions passing of the module requires passing individual exams or assignments.

§ 16 - composition of the Examination Committee	
4 professors, 1 scientific assistant and 2 students are members of the Examination committee.	3 professors, 1 scientific assistant and 1 student are members of the Examination committee.
§ 19, Art. 10 - one sentence added	
	A failed master's thesis can be repeated once within one year. After this deadline has elapsed, it is deemed as failed again. A 2nd repetition is possible until the next examination date; after this it's considered as definitively failed. Another repetition or a repetition of a passed master's thesis is not permitted.
Examination Regulations -overall in the text	
BIOTEC	CMCB

Changes of 18 March 2018 - Examination Regulations	
Old version	**New version**
§ 11 Art. 5 added	
	If the student declares to the examination office in written form that he renunces to take an examination, this examination is considered as failed (5,0) in this attempt. The renunciation is irrevocable and requires the admission according to §4.
§ 12, Art 3 (2)	
	deleted
§ 14, Art 1 (4 to 6)	
	deleted
§ 24 Art 2 added	
	The professional requirements, fulfilled due to renunciation according to § 11 (5), are considered as met if the Examination Committee approves them on basis on the student's application.

Changes of 14 Feb 2017 - Study Regulations - valid as of 1 April 2017	
Old version	**New version**
Introduction to Proteomics	
Oral examination	Oral examination (max. 15 students) or written examination (more than 15 students) 75% Lab protocol 25 %

Genome and Stem Cell Engineering	
Essay 40%, & Presentation 40% Lab protocol 20%	2 presentations, 40% each lab protocol 20 %
Protein Networks and Protein Engineering	
4 SWS lecture and 6 SWS lab classes 2 oral examinations, 50% each	4 SWS lecture and 3 lab classes 2 presentations, 40% each lab protocol 20%
8 ECTS	7 ECTS
Lab Project	
15 SWS	18 SWS
15 ECTS	16 ECTS