Type of Module					Module Code					
• Basic Module					Biochemistry Lecture					
Identification Number		Workload Credit Points		Term		Offered Every	Start	Duration		
MN-B-I	B 1	180 h	6 CP	1 <sup>st</sup> term o	f studying	Winter term	Winter term only	1 term		
1	Course Types			Contact Time			Private Study			
	Lectu	Lecture		49 h	49 h 131 h		131 h			
2	Module Objectives and Skills to be Acquired									
	Students who successfully completed this module will have acquired knowledge of									
	the molecular basis of diseases									
	the mechanisms of key bodily processes									
	cutting edge technologies in molecular and medical research									
3	Module Content									
	The lecture series is organized into 6 blocks (see below) consisting of 4-5 lectures with a review tutorial at the end of each block.									
	Structure and proteomics									
	Extracellular matrix and trans			d transport						
	Metabolism and hereditary disease									
	Mitochondria and death, immunity, cancer									
	Regulation and proteostasis									
	Engineering and tools									
4	Teaching Methods									
	Lecture									
5	Prerequisites (for the Module)									
	Enrollment in one of the Master's of Science degree courses of the Department of Biology or in the Master's degree course "Biochemistry"									
	Additional academic requirements									
	The knowledge of basic and specific biochemistry, cell biology and genetics at the level of general biochemistry/biology text books ( <i>e.g.</i> Voet, Stryer, Lehninger, Alberts and Lewin) is required.									
6	Type of Examination									
	Two I	Two hours written examination about topics of the lectures (100 % of the total module mark)								
7	Credits Awarded									
	Written examination at least "sufficient"									
8	Compatibility with other Curricula*									
	Obligatory lecture module in the Master's degree course "Biochemistry"									

Lecture Advanced Biochemistry and Molecular Medicine (MN-B-B 1) continued

9	Proportion of Final Grade						
	7.5 %						
10	Module Coordinator						
	Dr. Jakob Suckale, phone 478 84072, e-mail: jsuckale@uni-koeln.de						
11	Further Information						
	<ul> <li>Participating faculty: Prof. Dr. U. Baumann, Prof. Dr. E. Behrmann, Prof. Dr. T. Benzing, Prof. Dr. B. Brachvogel, Prof. Dr. U. Brandt, Prof. Dr. J. Chai, Dr. M. Escobar-Henriques, Prof. Dr. M. Gather, Prof. Dr. S. Höning, Prof. Dr. P. Huesgen, apl. Prof. Dr. K. Niefind, Prof. Dr. S. Kath-Schorr, Prof. Dr. N. Kononenko, Prof. Dr. M. Krüger, Prof. Dr. T. Langer, Prof. Dr. M. Lemberg, Prof. Dr. I. Neundorf, Prof. Dr. M. Pasparakis, Prof. Dr. J. Riemer, Prof. Dr. HG. Schmalz, Prof. Dr. G. Schwarz, Prof. Dr. G. Sengle, Prof. Dr. H. Walczak, Prof. Dr. B. Wirth</li> </ul>						
	Literature:						
	<ul> <li>Information about textbooks and other reading material will be given on the ILIAS representation of the course (see https://www.ilias.uni-koeln.de/ilias/goto_uk_cat_2815610.html).</li> </ul>						
	<b>General time schedule:</b> Weeks 1-14: Tue. and Fri. from 8:15 to 9:45 am; Week 15 (MonFri). Preparation for the written examination						
	<b>Introduction to the module:</b> October 10, 2023 at 8:15 a.m., further information/link will be sent to your Smail-Account; for preparation to the module before this introduction see ILIAS link under literature.						
	Written examination: February 13, 2024, second/supplementary examination March 12, 2024; the latter date may vary if students and module coordinator agree. More details will be given at the beginning of the module.						