Module Seminar			elopmental G	enetics							
Type of	Modu	le			Module Code						
o Basic Module					Genetics Seminar						
Identification Number		Workload	Credit Points	Term		Offered Every		Start		Duration	
MN-B-G 2		180 h	6 CP		1 st term of studying		r term	Winter term only		1 term	
1	Course Types Seminar (incl. Tutorial)			Conta	act Time	Private Stu		ıdy	Planned Group		
				60 h	60 h		120 h	Siz 24		e students	
										students	
2	Module Objectives and Skills to be Acquired										
	Students who successfully completed this module										
	 have acquired detailed knowledge of molecular genetics and the cellular repertoire to respond to stress, environmental signals and developmental programs operating at different levels in the cell from gene expression to protein function and signaling. 										
	 are able to independently address and solve biological problems, including choice of accurate methods, appropriate data analysis and processing of data for publication. 										
	 have learned how to present research results in oral and written form and to critically discuss scientific publications related to the topic of the module on a professional level. 								ally discuss		
	are able to transfer skills acquired in this module to other fields of biology										
3	Module Content										
	Genetic screens, mutant selection and gene targeting in model organisms										
	 Spatial control of protein localization Transcriptional and post-transcriptional regulation, post-translational regulation by protein modification 										
									protein		
	Selective proteolysis and protein quality control										
	Addressing and solving scientific problems										
4	Teaching Methods										
	 Interactive tutorials; Seminar; Guidance to independent research, Training on presentation techniques in oral and written form 										
5	Prerequisites (for the Module)										
	Enrollment in the Master´s degree course "Biological Sciences"; Simultaneous participation in the lecture module "Principles of Molecular Genetics, Development and Aging"										
6	Туре	of Examination	on								
	Oral p	Oral presentation with written elaboration (100 % of the total module mark)									
7	Credits Awarded Regular and active participation; Oral presentation with written elaboration at least "sufficient"										
								nt"			

8	Compatibility with other Curricula							
	None							
9	Proportion of Final Grade							
	7.5 %							
10	Module Coordinator							
	Prof. Dr. Niels Gehring, phone 470 3873, e-mail: ngehring@uni-koeln.de							
11	Further Information							
	Participating faculty: Dr. V. Böhm, Prof. Dr. J. Dohmen, Prof. Dr. N. Gehring, Prof. Dr. M. Hammerschmidt, Prof. Dr. K. Hofmann, Dr. M. Kroiher, Dr. HM. Pogoda, Prof. Dr. S. Roth, Prof. Dr. K. Schnetz							
	Literature:							
	 Information about textbooks and other reading material will be given on the ILIAS representation of the course (https://www.ilias.uni-koeln.de/ilias/goto_uk_cat_2815610.html) 							
	General time schedule: Weeks 1-14: Seminars/tutorials and oral presentations (starting at 2:00 p.m. at different dates, more details will be given in the introduction to the module).							
	Introduction to the module: October 18, 2021 at 2:00 p.m., online (further information/link will be sent to your Smail-Account); for preparation to the module before this introduction see ILIAS link under literature.							