

Curriculum Master Program Molecular Life Science (WS 2018/19)

Semester	Cell Biology, Structure Biology, Neuroscience and Clinical immunology					Multidisciplinary competences			ECTS / WWH			
1.	LS4010-KP06 Basics of Cell- and Molecular Biology for Virology (Cell Biology) (Molecular Virology)		LS4030-KP06 Molecular Pathomechanisms and Strategies of Therapy			MA3400-KP05 Biomathematics	CS4440-KP05 Moleculare Bioinformatics	EW4170-KP05 System Biology				
						Chose 1 of 3						
ECTS	6		6			Each 5						
L/T/P/S	2/0/0/0	2/0/0/0	4/0/0/0			each 2/2/0/0						
	LS4020-KP6 Structure Analytics: (choose 2) A Crystallography B NMR-Spectroscopy C Single Molecule Methods D Microscopy: techniques and applications			MZ5111-KP06 Immunology	MZ5115-KP06 Neuroscience 1	MZ5117-KP06 Frontiers in Metabolic Medicine Research	LS4040-KP04 Basic Virology and Biosafety					
	Chose 2 of 4			Chose 1 of 3								
ECTS	6		Each 6			4						
L/T/P/S	Each 2/0/0/0			Each 2/0/0/2			2/0/1/0					
2.	MZ4121-KP06 Infection Biology	MZ4125-KP06 Neuroscience 2	MZ 4127-KP06 Clinical Immunology 1	LS4110-KP06 Drug Research (Pharmacology and Toxicology) (Rational Drug Design)			ME5051-KP05 Biophysics of Ionizing Radiation and Radiation Safety	ME5055-KP05 Animal Models and animal protection				
	Chose 1 of 3			Chose 1 of 2								
ECTS	Each 6		6			Each 5						
L/T/P/S	Each 2/0/0/2			2/0/0/0	2/0/0/0		Each 2/0/2/0					
	LS4101-KP08 Molecular Biomedicine A, B, C, D, E, F, G (see bottom)			LS4131-KP04 Membrane-Biophysics	LS4135-KP04 Protein-Biophysics							
	Chose 3 of 7			Chose 1 of 2								
ECTS	8		Each 4									
L/T/P/S	Each 2/0/0/0			Each 2/1/0/0								
3.	LS5111-KP16 Practical Course MLS											
ECTS	16											
L/T/P/S	0/0/24/0											
	LS5200-KP06 Consolidating in Molecular Life Science [Wahlpflicht; chose 2 courses]											
ECTS	6											
L/T/P/S	Each 0/0/0/2											
	Start of the Master Thesis MLS											
	6											
4.	LS5990 Master Thesis MLS					PS4610-KP07 Ethics in Sciences / Scientific Writing						
	24					6						
						2/0/0/0	0/0/0/2	30				
1. – 4.									120 >76			

L= lecture; T= tutorial; P= practical course; S= seminar; ECTS: credit point of the European transfer system; WWH = weekly work hours

LS4101- KP08: A Molecular Oncology, B Molecular Endocrinology, C Molecular Biology of the Cardiovascular System, D Tissue Regeneration, E Molecular Neurobiomedicine, F Clinical Immunology 2, G Neuroendocrinology

Required courses are Blue, Optional courses are Orange

