Master's Degree in Biotechnology and Medical Biology Study Plan A. Y. 2021/2022					
Year	Course	Credits	Scientific Discipliplinary Sectors	Complusory / Optional	
	Gene Expression, from single molecules to systems biology	2	FIS/07	OPT	
	Cell and Gene Therapy	6	BIO/17	СОМ	
	Chemistry-driven modern drug discovery: from chemical probes to hits, leads and drug	6	BIO/14	СОМ	
	Biotechnological drugs and targeted delivery systems	1	BIO/10	OPT	
	Cell reprogramming techniques for disease modeling and cell therapies	1	BIO/13	OPT	
	Biotecnologi in azienda: le professioni del mondo farmaceutico	1	MED/04	OPT	
	Creativity and innovation	1	M-PSI/06	OPT	
	Emerging pathogenic viruses: past, present and future	1	MED/07	OPT	
	Advanced diagnostics in oncology and internal medicine	4		OPT	
	- Advanced diagnostics in oncology and internal medicine 1	2	MED/04		
	- Advanced diagnostics in oncology and internal medicine 2	2	BIO/17		
	Diagnosis of Genetic Diseases	6	MED/05		
	Emerging Biotechnological Technologies: innate Immunity and Nucleic Acid Sensing in Human Health and Disease	3	MED/50	СОМ	
	Molecular and Cellular Neurosciences	6	BIO/09	СОМ	
	Intrinsic and extrinsic factors in tumor progression	6	MED/09	СОМ	
	Host defense and immunopathology during chronic respiratory infections	1	MED/04	OPT	
	Immunogenetics	1	MED/03	OPT	
	Metabolism in cancer and immunity	2	BIO/10	OPT	
	Immunopathogenesis of HIV infection	1	MED/04	OPT	
	General and preclinical toxicology	1	BIO/14	OPT	
1	Molecular cell biology	6	BIO/13	СОМ	
	The biocompatibility of biomedical devices	1	MED/41	OPT	
	Molecular mechanisms of diseases	10		<u> </u>	

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- Molecular mechanisms of diseases 1	6	MED/04	
- Molecular mechanisms of diseases 2	4	MED/09	
Translational research: how to create value for the patient	1	SECS-P/08	OPT
Pharmacological trials	2	BIO/14	OPT
Research Organization	4		OPT
- Research Organization 1	2	SECS-P/07	
- Research Organization 2	2	SECS-P/10	
Molecular Virology	6	MED/07	СОМ
Regulation of gene expression	6	BIO/11	СОМ
Omics data analysis and interpretation	6	BIO/11	СОМ
Beyond scientific know how: critical competences to land a job	1	MED/04	OPT
Biophysical methods in structural biology	1	BIO/10	OPT
Development and function of the lymphoid microenvironment	1	MED/04	OPT
Life on the Edge: Biology and Pathophysiology of Stress and Inflammatory Responses	1	BIO/11	OPT
Elements of oncology and Immunology of metastatic disease: towards combined therapies	2	MED/04	OPT
Drug discovery in neuropsychopharmacology	2	BIO/14	OPT
Animal Models in Biomedical Research	2	MED/50	OPT
Proteomics and Metabolomics	2	BIO/10	OPT
Logic of Scientific Discovery and Innovation	2	M-FIL/02	СОМ
Biotechnological Aspects of Assisted Reproduction	2	MED/40	СОМ
Quality in Biotechnological Processes	1	ING-IND/35	СОМ
Tissue Engineering strategies in Orthopaedics	2	MED/33	СОМ
Morphological and Functional Imaging	2	MED/37	СОМ
Thesis Intern	36	PROFIN_S	СОМ