

LM-9 – MEDICAL BIOTECHNOLOGIES AND MOLECULAR MEDICINE
LM 9 – BIOTECNOLOGIE MEDICHE E MEDICINA MOLECOLARE

EDUCATIONAL PROGRAMME

1st YEAR.	CREDITS
Human molecular genetics – integrated course	
- Applied molecular genetics	6
- Bioinformatics applied to genomics and proteomics	3
Biochemical bases and analysis of proteome – integrated course	
- Cellular Biochemistry	6
- Proteomic methodologies	6
Molecular epidemiology	6
Further language skills	1
Biotechnological diagnostics – integrated course	
- clinical biochemistry	3
- Clinical microbiology	6
Molecular pathology and diagnostics – integrated course	
- cellular pathology	6
- Biomolecular diagnostics in medicine	3
Cellular biotechnologies and epigenomics – integrated course	
- Biochemical mechanisms of epigenetic processes	3
- Theory and applications of cellular modes	6
Molecular and cellular biotechnologies – integrated course	
- Cellular biology	3
- Proteomic Methodologies	3
- Molecular Biotechnologies	3
Elective	3

2nd YEAR	CREDITS
Molecular neurobiology and Neurology – integrated course	
- Molecular Neurobiology	6
- genetics of central nervous system diseases	3
- Cellular and molecular pathology of cerebrovascular diseases	3
Professional practice	4
Pharmacogenomics	6
Other educational activities	1
Biotechnological applications in medicine – integrated course	
- biotechnologies in medical oncology	3
- Biotechnological diagnostics in Endocrinology	3
- Animal models of genetic human pathologies	6
Tissue biotechnologies – integrated course	
- Biotechnologies in the substitution of organs and tissues	6
- Biomaterials , Tissue bioengineering and plastic surgery	3
Molecular pharmacology and Pharmacogenomics – integrated course	
- Cellular and molecular targets of hepatic and gastro-intestinal diseases	3
- Pharmacogenomics	3
- Biotechnologies in medical oncology	3
Elective courses	9
Final examination	12