



UNIVERSITÀ DEGLI STUDI DI TORINO

SCUOLA DI MEDICINA  
DIPARTIMENTO DI BIOTECNOLOGIE MOLECOLARI E SCIENZE PER LA SALUTE  
CORSO DI LAUREA MAGISTRALE IN MOLECULAR BIOTECHNOLOGY

<b>MASTER PROGRAM IN MOLECULAR BIOTECHNOLOGY CURRICULUM DIAGNOSTICS AND DRUG DISCOVERY AA 2021/2022</b>		
<b>FIRST YEAR</b>		
<b>First semester</b>		
<b>BIO0108</b>	Physiology and Biochemistry	10 ECTS
	Physiology	5
	Biochemistry	5
<b>BIO0154</b>	Computational genomics and Gene Networks	10 ECTS
	Computational genomics and epigenomics	5
	Interactions and Gene Networks	5
<b>BIO0214</b>	Principles of drug discovery	5 ECTS
<b>BIO0153</b>	Supramolecular chemistry and Spectroscopic methods	8 ECTS
	Supramolecular and Bioinorganic Chemistry	3
	Spectroscopy of biomolecules	5
<b>Second semester</b>		
<b>BIO0155</b>	In vivo diagnostics	11 ECTS
	In vivo diagnostics: PET/SPECT/CT	5
	In vivo diagnostics: MRI/OI/US/PAI	6
<b>BIO0157</b>	Data analysis	6 ECTS
<b>SECOND YEAR</b>		
<b>First semester</b>		
<b>BIO0160</b>	Advanced materials and methods for health sciences	10 ECTS
	Mass Spectrometry	5
	Nanomaterials	5
<b>BIO0161</b>	Advanced Drug Discovery	5 ECTS
<b>BIO0163</b>	Immuno-based assays for translational medicine	7 ECTS
	Immuno-based assays for translational medicine I	5
	Immuno-based assays for translational medicine II	2
<b>Second semester</b>		
<b>BIO0162</b>	In vitro diagnostics: proteomics, interactomics and metabolomics	5 ECTS
<b>BIO0164</b>	Biotech Companies Management	4 ECTS



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<b>MASTER PROGRAM IN MOLECULAR BIOTECHNOLOGY FREELY CHOSEN COURSES (for both curricula) A.Y. 2021/2022</b>			
<b>SECOND YEAR</b>			
I sem	<b>BIO0185</b>	Cancer Metabolism	4 ECTS
I sem	<b>BIO0218</b>	Metals in Medicine and biological systems	4 ECTS
I sem	<b>BIO0178</b>	Image Analysis for Biotechnologists	4 ECTS
I sem	<b>BIO0192</b>	Molecular Pharmacology	2 ECTS
I sem	<b>BIO0213</b>	Imaging of brain disease and therapy	4 ECTS
II sem	<b>BIO00221</b>	Methods in computational biology	6 ECTS
		Methods in computational biology I	2
		Methods in computational biology II	2
		Methods in computational biology III	2
II sem	<b>BIO0186</b>	Molecular Medicinal Chemistry	6 ECTS
II sem	<b>BIO0187</b>	Genetic Models of Human Pathology	6 ECTS
II sem	<b>BIO0188</b>	In vivo Imaging of Cancer Therapy	4 ECTS
II sem	<b>BIO0189</b>	Enabling technologies in drug synthesis and processing	4 ECTS
II sem	<b>BIO0219</b>	Pathologic basis of disease	4 ECTS
II sem	<b>BIO0120</b>	Scientific Communication	4 ECTS
		Scientific Communication 1	1
		Scientific Communication 2	2
		Scientific Communication 3	1
II sem	<b>BIO0191</b>	The Hallmarks of Ageing: molecular basis of ageing-associated syndromes	4 ECTS
II sem	<b>BIO0217</b>	Advanced Mass Spectrometry	4 ECTS
II sem	<b>BIO0220</b>	Computational Drug Discovery	4 ECTS