



Master Program in
Molecular Biotechnology

Academic Year 2018/19

October 2, 2018
1 p.m.

Leonardo Room

MBC, Via Nizza 52,
10126 Torino



University of Torino

Master Program in Molecular Biotechnology

What is Molecular Biotechnology?

In its broadest sense, molecular biotechnology is the use of laboratory techniques to study and modify nucleic acids and proteins for applications in areas such as human and animal health, agriculture, and the environment.

Master Program in Molecular Biotechnology

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graph TD; A[Master Program in Molecular Biotechnology] --> B[Translational Biotechnology]; A --> C[Diagnostics & Drug Discovery];
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Translational
Biotechnology

Diagnostics & Drug
Discovery

Duration: 2 years
ECTS: 120

Where?



MBC, Via Nizza 52, Torino

Class Schedule

First semester: from October 1, 2018 to January 18, 2019

Second semester: from March 4, 2019 to June 14, 2019

Translational Biotechnology

	TUESDAY	ROOM
4.00 - 6.00 p.m.	PHYSIOLOGY	COPERNICO
	THURSDAY	ROOM
09.00 - 11.00 a.m.	INTERACTION AND GENE NETWORKS	ERACLITO
11.00 a. m. - 1.00 p.m.	GENOMICS AND EPIGENOMICS OF GENE REGULATION	ERACLITO
2.00 - 5.00 p.m.	COMPUTATIONAL GENOMICS AND EPIGENOMICS	ARISTOTELE
	FRIDAY	ROOM
09.00 - 11.00 a.m.	THE GENETIC BASIS OF CANCER	ERACLITO
11.00 a.m. - 1.00 p.m.	GENOMICS AND EPIGENOMICS OF GENE REGULATION	COPERNICO
2.00 - 4.00 p.m.	MOLECULAR DYNAMICS OF CELLULAR PROCESSES	COPERNICO
4.00 - 6.00 p.m.	PHYSIOLOGY	COPERNICO

Diagnostics & Drug Discovery

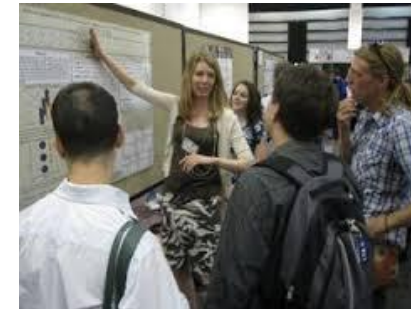
	MONDAY	ROOM
2.00 - 6.00 p.m.	SPECTROSCOPY OF BIOMOLECULES	ADENINA
	TUESDAY	ROOM
3.00 - 4.00 p.m.	BIOCHEMISTRY	TIMINA
4.00 - 6.00 p.m.	PHYSIOLOGY	COPERNICO
	THURSDAY	ROOM
09.00 - 11.00 a.m.	INTERACTIONS AND GENE NETWORKS	ERACLITO
11.00 a.m. - 1.00 p.m.	DRUG DISCOVERY: BASIC PRINCIPLES	ADENINA
2.00 - 5.00 p.m.	COMPUTATIONAL GENOMICS AND EPIGENOMICS	ARISTOTELE
	FRIDAY	ROOM
09.00 - 11.00 a.m.	DRUG DISCOVERY: BASIC PRINCIPLES	ADENINA
2.00 - 4.00 p.m.	BIOCHEMISTRY	TIMINA
4.00 - 6.00 p.m.	PHYSIOLOGY	COPERNICO

Thinking



Set and perform
an experiment

SCIENTIST



Discuss data



Present data

Laboratory activity

The parts of a scientist



Laboratory activity

Question 1: How much time do I have to spend in lab?

Answer: All time I have

Question 2: Which are the labs where can I get my internship?

Answer:

Academia:

- Molecular Biotechnology Center – MBC <https://www.mbc.unito.it/it/il-centro>
- Candiolo Cancer Institute – IRCCS <http://www.ircc.it/irccit/>
- Neuroscience Institute Cavalieri Ottolenghi – NICO <http://www.nico.ottolenghi.unito.it/>
- CeRMS– Centro di Ricerca in Medicina Sperimentale <http://www.cerms.it/>

Industry:

- Bioindustry Park Silvano Fumero, Colletterto Giacosa (TO) (Bracco, Merck-Serono)
- DiaSorin
- Chiesi Farmaceutici

Laboratory activity: ECTS

Study Plan

1.st Year	ECTS
Stage I	6
Thesis I	5

2.nd Year	ECTS
Stage II	6
Thesis II	14

Laboratory activity: Administrative Procedure

Stage I and Stage II

Before starting the internship, contact the Job Placement office (jobplacement.medicina@unito.it) and fill-in the requested forms

Thesis I and Thesis II

Before starting the internship, contact the Job Placement office (jobplacement.medicina@unito.it) and fill-in the requested form

Exam sessions

From January, 21 to February, 28, 2019

April 11-17, 2019

From June, 17 to July, 31, 2019

September, 2-30, 2019

November, 11-15, 2019

International Exchange: Erasmus Project

<https://en.unito.it/international-relations/students-mobility>

Erasmus Committee

Prof. Valeria Poli valeria.poli@unito.it

Prof. Giulia Caron giulia.caron@unito.it

International Exchange

University of Torino, Dept. Molecular Biotechnology and Health Sciences (Italy) and **University of Grenoble Les Alpes (France)**:

Prof. Emanuela Tolosano emanuela.tolosano@unito.it

University of Torino, Dept. Molecular Biotechnology and Health Sciences (Italy) and **University of Minnesota (USA)**:

Prof. Claudio Medana claudio.medana@unito.it

Contacts

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Tutor: Dr. Cristian Albergo cristian.albergo@edu.unito.it

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Segreteria Studenti:

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WELCOME