

UNIVERSITA' DEGLI STUDI DI MILANO PROGRAMME DESCRIPTION - ACADEMIC YEAR 2018/19 MASTER DEGREE

Pharmaceutical Biotechnology (Classe LM-9) enrolled from 2014/15 academic year

HEADING	
Degree classification - Denomination	LM-9 Pharmaceutical, veterinary and medical biotechnologies
and code:	
Degree title:	Dottore Magistrale
Curricula currently available:	Biotechnologies in drug's research and development / Development and production
	of biotechnological drugs
Length of course:	2 years
Credits required for admission:	180
Total number of credits required to	120
complete programme:	
Years of course currently available:	1st, 2nd
Access procedures:	Open, subject to completion of self-assessment test prior to enrolment
Course code:	E51

PERSONS/ROLES

Head of Interdepartmental Study Programme

Prof.ssa Laura Calabresi

Tutors - Faculty

Per l'area biologica: prof.ssa Laura Calabresi laura.calabresi@unimi.it, prof.ssa Elisabetta Gianazza elisabetta.gianazza@unimi.it.

Per l'area chimica: dott.ssa Lucia Tamborini lucia.tamborini@unimi.it.

Degree Course website

http://www.farmacia.unimi.it

http://www.unimi.it/studenti/matricole/77648.htm

CHARACTERISTICS OF DEGREE PROGRAMME

General and specific learning objectives

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Expected learning outcomes

XXXXXXXXXXXXX

Professional profile and employment opportunities

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Notes

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EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM

The University of Milan supports the international mobility of its students, offering them the opportunity to spend periods of study and training abroad, a unique opportunity to enrich their curriculum in an international context.

Study and internships abroad

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How to participate in Erasmus mobility programs

To gain access to mobility programs for study purposes, lasting 3-12 months, the enrolled students of the University of Milan must attend a public selection that starts usually around the month of February each year through the presentation of specific competition announcements, which contain information on available destinations, respective duration of the mobility, requirements and deadlines for submitting the online application.

The selection, aimed at evaluating the proposed study abroad program of the candidate, knowledge of a foreign language, especially when this is a preferential requirement, and the motivations behind the request, is performed by specially constituted commissions.

Each year, before the expiry of the competition announcements, the University organises information sessions for the specific study course or groups of study courses, in order to illustrate to students the opportunities and participation rules.

To finance stays abroad under the Erasmus + program, the European Union assigns to the selected students a scholarship that - while not covering the full cost of living abroad - is a useful contribution for additional costs as travel costs or greater cost of living in the country of destination.

The monthly amount of the communitarian scholarship is established annually at national level; additional contributions may be provided to students with disabilities.

In order to enable students in economic disadvantaged conditions to participate in Erasmus+ program, the University of Milan assigns further additional contributions; amount of this contributions and criteria for assigning them are established from year to year.

The University of Milan promotes the linguistic preparation of students selected for mobility programs, organising every year intensive courses in the following languages: English, French, German and Spanish.

The University in order to facilitate the organisation of the stay abroad and to guide students in choosing their destination offers a specific support service.

More information in Italian are available on www.unimi.it > Studenti > Studiare all¿estero > Erasmus+

For assistance please contact: Ufficio Accordi e relazioni internazionali via Festa del Perdono 7 (ground floor) Tel. 02 503 13501-12589-13495-13502 Fax 02 503 13503

E-mail: mobility.out@unimi.it

Desk opening hour: Monday-friday 9 - 12

Learning activity		Ects	Sector
Biology of development and differentiation		6	BIO/13
Biotechnology in Pharmacology			BIO/14
Metabolic and Functional Biochemistry		6	BIO/10
MOLECULAR VIROLOGY AND INFECTIOUS DISEASES		6	(6) BIO/19, (6) MED/07
Pathophysiology			MED/04
Physiology of Integrated systems			BIO/09
Purification and formulation of biotechnological drug products		8	(8) CHIM/09, (8) CHIM/08
	Total compulsory cree	dits 46	
Further elective courses common to all curricula			
Experimental laboratory of Biotechnology		9	ND
End of course requirements common to all curric	rula		
FINAL EXAM			ND
Lab training		10	ND
	Total compulsory cree	dits 31	I

ACTIVE CURRICULA LIST

Biotechnologies in drug's research and development Course years currently available: 1st, 2nd Development and production of biotechnological drugs Course years currently available: 1st, 2nd

Procedure for choosing a curriculum

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1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features Biotechnologies in drug's research and development						
Learning activity			Sector			
Molecular basis of hormone and drug action			(8) MED/13, (8) BIO/14			
Structural Bioinformatics and Molecular Modeling		10	(10) BIO/10, (10) CHIM/06, (10) CHIM/08			
	Total compulsory credits	18				
2nd COURSE YEAR Core/compulsory courses/activities Curriculum-specific features Biotechnologies in drug's research and development						
Learning activity			Sector			
Advanced course in Biotechnology and Pharmacology			BIO/14			
Innovative biotechnological drugs			(3) CHIM/06, (6) BIO/14, (6) CHIM/08			
	Total compulsory credits	16				

CURRICULUM: [E51-D] Development and production of biotechnological drugs

1st COURSE YEAR Core/compulsory courses/activities production of biotechnological drugs	Currici	ılum-specific feature	s Deve	elopment and
Learning activity			Ects	Sector
Clinical Pharmacology and Biochemistry			9	(9) MED/03, (9) BIO/14, (9) BIO/12
Preparation and development of drugs with biotechnological methods		9	(9) CHIM/11, (9) CHIM/08	
		Total compulsory credits	18	
2nd COURSE YEAR Core/compulsory courses/activities production of biotechnological drugs	Currio	culum-specific featur	es Dev	elopment and
Learning activity			Ects	Sector
Manufacturing of biotechnological drug products			7	CHIM/09
Quality control and analysis for biopharmaceuticals		9	(6) BIO/14, (3) CHIM/06, (6) CHIM/08	
		Total compulsory credits	16	

COURSE PROGRESSION REQUIREMENTS

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