



UNIVERSITÀ DI PAVIA

DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY

Master's Degree Course in

MOLECULAR BIOLOGY AND GENETICS (CLASSE LM 6)

STUDY PLAN FOR STUDENTS ENROLLED IN 1ST YEAR - DM270/'04

ACADEMIC YEAR 2023/2024

to fill in online when enrollment is complete between and

The undersigned

Matr. n.....

Surname Name.....

Born in.....Country on

Resident in CountryZIP

AddressN..... Tel.

**The Master's Course in MOLECULAR BIOLOGY AND GENETICS
is organized in two curricula**

- Molecular Life Sciences

- Molecular and Digital Biology

If you intend to make different choices from the ones foreseen, the study plan becomes individual; you therefore need to attach a revenue stamp of € 16 and the plan will need to be approved by the Teaching Committee.

(Insert the new exam in the orange spaces where you want to change and mark to eliminate the substituted exam. Specify type of teaching activity and scientific disciplinary sector.)

APPROVED BY THE TEACHING COMMITTEE ON

WE DECLARE THAT THE INDIVIDUAL PLAN IS COMPLIANT WITH THE TEACHING REGULATIONS OF THE COURSE OF STUDY IN RELATION TO THE ENROLLMENT ACADEMIC YEAR OF THE STUDENT (SCHEDA RAD).

SIGNATURE OF THE PRESIDENT OF THE TEACHING COMMITTEE

CURRICULUM MOLECULAR LIFE SCIENCES

I YEAR 2023/2024 (59 CFU)

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
500802 Methods in Biochemistry		9	BIO/10	Distinctive	Disciplines of the biomolecular sector
510322 Structural Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
500810 Microbial Genetics		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
500805 Advanced Molecular Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
500190 Bioinformatics		6	ING-INF/06	Related/ supplementary	Related or supplementary training activities
500811 Human Molecular Genetics		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
500812 Molecular Pharmacology		6	BIO/14	Distinctive	Disciplines of the biomedical sector
510350 Internship for experimental thesis A		14	PROFIN_S	Language/Final exam	For the final exam

ANY EXTRA EXAMS (MAX 24 CFU)

Attività Formativa	CFU	Settore	TAF/Ambito	Anno	Tipo insegnamento

Date.....

Signature.....

CURRICULUM MOLECULAR AND DIGITAL BIOLOGY

I YEAR 2023/2024 (54 CFU)

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
500190 Bioinformatics		6	ING-INF/06	Related/ supplementary	Related or supplementary training activities
500805 Advanced Molecular Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
500812 Molecular Pharmacology		6	BIO/14	Distinctive	Disciplines of the biomedical sector
510324 Statistics and Big Data Analysis		9	BIO/11	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510327 Basic Molecular Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
<input type="checkbox"/> 510322 Structural Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510325 Basic Biochemistry		6	BIO/10	Distinctive	Disciplines of the biomolecular sector
<input type="checkbox"/> 500462 Cellular Biochemistry		6	BIO/10	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510326 Basic Genetics and Cell Biology		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
<input type="checkbox"/> 500811 Human Molecular Genetics		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510328 Basic Microbiology		6	BIO/19	Distinctive	Disciplines of the biomolecular sector
<input type="checkbox"/> 500810 Microbial Genetics		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510351 Other Activities-Soft Skills		3	NN	Other	Other skills
<input type="checkbox"/> 509536 Italian Language for Foreign Students (mandatory only for foreign student who don't know Italian language)		3	NN	Other	Additional language knowledge

ANY EXTRA EXAMS (MAX 24 CFU)

Attività Formativa	CFU	Settore	TAF/Ambito	Anno	Tipo insegnamento

Date.....

Signature.....



UNIVERSITÀ DI PAVIA

DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY

Master's Degree Course in MOLECULAR BIOLOGY AND GENETICS (CLASSE LM 6)

STUDY PLAN FOR STUDENTS ENROLLED IN 2ND YEAR - DM270/'04
ACADEMIC YEAR 2023/2024

to fill in online when enrollment is complete between and

The undersigned	
Matr. n.....	
Surname	Name.....
Born in.....	Country on
Resident in	Country ZIP
Address	N..... Tel.

The Master's Course in MOLECULAR BIOLOGY AND GENETICS is organized in two curricula

- Molecular Life Sciences
- Molecular and Digital Biology

If you intend to make different choices from the ones foreseen, the study plan becomes individual; you therefore need to attach a revenue stamp of € 16 and the plan will need to be approved by the Teaching Committee.

(Insert the new exam in the orange spaces where you want to change and mark to eliminate the substituted exam. Specify type of teaching activity and scientific disciplinary sector.)

APPROVED BY THE TEACHING COMMITTEE ON

WE DECLARE THAT THE INDIVIDUAL PLAN IS COMPLIANT WITH THE TEACHING REGULATIONS OF THE COURSE OF STUDY IN RELATION TO THE ENROLLMENT ACADEMIC YEAR OF THE STUDENT (SCHEDA RAD).

SIGNATURE OF THE PRESIDENT OF THE TEACHING COMMITTEE

CURRICULUM MOLECULAR LIFE SCIENCES

I YEAR 2022/2023 (59 CFU)

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
500802 Methods in Biochemistry		9	BIO/10	Distinctive	Disciplines of the biomolecular sector
510322 Structural Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
500810 Microbial Genetics		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
500805 Advanced Molecular Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
500190 Bioinformatics		6	ING-INF/06	Related/ supplementary	Related or supplementary training activities
500811 Human Molecular Genetics		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
500812 Molecular Pharmacology		6	BIO/14	Distinctive	Disciplines of the biomedical sector
510350 Internship for experimental thesis A		14	PROFIN_S	Language/Final exam	For the final exam

II YEAR 2023/2024 (61 CFU)

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
500462 Cellular Biochemistry		6	BIO/10	Distinctive	Disciplines of the biomolecular sector
502300 Developmental Biology		6	BIO/06	Distinctive	Disciplines of biodiversity and environment sector
504225 Plant Molecular Biology and Biotechnology		6	BIO/04	Related/ supplementary	Related or supplementary training activities
502301 Molecular Microbiology		6	BIO/19	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510351 Other Activities-Soft Skills		3	NN	Other	Other skills
<input type="checkbox"/> 509536 Italian Language for Foreign Students (mandatory only for foreign student who don't know Italian language)		3	NN	Other	Additional language knowledge
Free activities		12			
a) two courses (6+6 credits)* or b) one course (6 credits)* + 6 laboratory credits**				Optional	Optional
503357 Internship for experimental thesis b		22	PROFIN_S	Language/Final exam	For the final exam

***Courses (6 CFU) suggested as free activities**

Courses for a total of 12 or 6 credits can be chosen among the following three or among the courses offered by the University of Pavia with the exception of numerus clausus courses in the medical field on a national level

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
<input type="checkbox"/> 502305 Advanced Microscopy		6	BIO/06	Optional	Optional
<input type="checkbox"/> 501561 Molecular Genetics		6	BIO/18	Optional	Optional
<input type="checkbox"/> 502314 Molecular Entomology		6	BIO/05	Optional	Optional

****Laboratories suggested as free activities**

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
502315 Laboratory of Plant Pathology		6	AGR/12	Optional	Optional
502316 Laboratory of Botany		6	BIO/02	Optional	Optional
502317 Laboratory of Plant Physiology		6	BIO/04	Optional	Optional
502318 Laboratory of Zoology		6	BIO/05	Optional	Optional
502319 Laboratory of Comparative Anatomy and Cytology		6	BIO/06	Optional	Optional
502321 Laboratory of Ecology		6	BIO/07	Optional	Optional
502322 Laboratory of Physiology		6	BIO/09	Optional	Optional
502323 Laboratory of Biochemistry		6	BIO/10	Optional	Optional
502324 Laboratory of Molecular Biology		6	BIO/11	Optional	Optional
502325 Laboratory of Pharmacology		6	BIO/14	Optional	Optional
502326 Laboratory of Genetics		6	BIO/18	Optional	Optional
502327 Laboratory of Microbiology		6	BIO/19	Optional	Optional
502328 Laboratory of General Pathology		6	MED/04	Optional	Optional
502329 Laboratory of Immunology		6	MED/04	Optional	Optional
502330 Laboratory of Parasitology		6	VET/06	Optional	Optional
509644 Laboratory of Bioinformatics		6	BIO/11	Optional	Optional

ANY EXTRA EXAMS (MAX 24 CFU)

Attività Formativa	CFU	Settore	TAF/Ambito	Anno	Tipo insegnamento

Date.....

Signature.....

CURRICULUM MOLECULAR AND DIGITAL BIOLOGY

I YEAR 2022/2023 (54 CFU)

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
500190 Bioinformatics		6	ING-INF/06	Related/ supplementary	Related or supplementary training activities
500805 Advanced Molecular Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
500812 Molecular Pharmacology		6	BIO/14	Distinctive	Disciplines of the biomedical sector
510324 Statistics and Big Data Analysis		9	BIO/11	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510327 Basic Molecular Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
<input type="checkbox"/> 510322 Structural Biology		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510325 Basic Biochemistry		6	BIO/10	Distinctive	Disciplines of the biomolecular sector
<input type="checkbox"/> 500462 Cellular Biochemistry		6	BIO/10	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510326 Basic Genetics and Cell Biology		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
<input type="checkbox"/> 500811 Human Molecular Genetics		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510328 Basic Microbiology		6	BIO/19	Distinctive	Disciplines of the biomolecular sector
<input type="checkbox"/> 500810 Microbial Genetics		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
One of the following courses:					
<input type="checkbox"/> 510351 Other Activities-Soft Skills		3	NN	Other	Other skills
<input type="checkbox"/> 509536 Italian Language for Foreign Students (mandatory only for foreign student who don't know Italian language)		3	NN	Other	Additional language knowledge

II YEAR 2023/2024 (66 CFU)

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
510330 Genomics and evolution in emerging infectious diseases	510348 Comparative genomics and metagenomics in vectors and pathogens	6	BIO/05	Distinctive	Disciplines of biodiversity and environment sector
	510349 Genomics and epidemiology of infectious diseases	6	VET/06	Related/supplementary	Related or supplementary training activities
510329 Laboratory of advanced bioinformatics for omics sciences		6	BIO/11	Distinctive	Disciplines of the biomolecular sector
510331 Pharmacogenomics, cancer genomics and epigenomics		6	BIO/18	Distinctive	Disciplines of the biomolecular sector
Free activities		12			
a) two courses (6+6 credits)* <u>or</u> b) one course (6 credits)* + 6 laboratory credits**				Optional	Optional
502714 Internship for experimental thesis		30	PROFIN_S	Language/Final exam	For the final exam

***Courses (6 CFU) suggested as free activities**

Courses for a total of 12 or 6 credits can be chosen among the following three or among the courses offered by the University of Pavia with the exception of numerus clausus courses in the medical field on a national level

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
<input type="checkbox"/> 502305 Advanced Microscopy		6	BIO/06	Optional	Optional
<input type="checkbox"/> 501561 Molecular Genetics		6	BIO/18	Optional	Optional
<input type="checkbox"/> 502314 Molecular Entomology		6	BIO/05	Optional	Optional

****Laboratories suggested as free activities**

Course	Parts	CFU	Scientific area	TAF Type of teaching activity	Field
502315 Laboratory of Plant Pathology		6	AGR/12	Optional	Optional
502316 Laboratory of Botany		6	BIO/02	Optional	Optional
502317 Laboratory of Plant Physiology		6	BIO/04	Optional	Optional
502318 Laboratory of Zoology		6	BIO/05	Optional	Optional
502319 Laboratory of Comparative Anatomy and Cytology		6	BIO/06	Optional	Optional
502321 Laboratory of Ecology		6	BIO/07	Optional	Optional
502322 Laboratory of Physiology		6	BIO/09	Optional	Optional
502323 Laboratory of Biochemistry		6	BIO/10	Optional	Optional
502324 Laboratory of Molecular Biology		6	BIO/11	Optional	Optional
502325 Laboratory of Pharmacology		6	BIO/14	Optional	Optional
502326 Laboratory of Genetics		6	BIO/18	Optional	Optional
502327 Laboratory of Microbiology		6	BIO/19	Optional	Optional
502328 Laboratory of General Pathology		6	MED/04	Optional	Optional
502329 Laboratory of Immunology		6	MED/04	Optional	Optional
502330 Laboratory of Parasitology		6	VET/06	Optional	Optional
509644 Laboratory of Bioinformatics		6	BIO/11	Optional	Optional

ANY EXTRA EXAMS (MAX 24 CFU)

Attività Formativa	CFU	Settore	TAF/Ambito	Anno	Tipo insegnamento

Date.....

Signature.....