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 2026/2027

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**

Students who intend to make choices that deviate from the study plan model that follows will present an individual study plan (for which a tax stamp of €16.00, generated by the offices, will be issued).

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
……

PLEASE NOTE: for students who request recognition of sport activities certified by the competent authorities (max 12 credits), the inclusion of the teaching activity 507236 RECOGNITION OF CFU FOR SPORTS MERITS is expected. The teaching activity will be included in the study plan by the U.O.C. Student Careers after validation by the teaching committee.

CURRICULUM MOLECULAR LIFE SCIENCES

I YEAR 2026/2027 (62 CFU)

Course	Parts	CFU	Scientific area	TAF/Field	Type of teaching activity
500802 Methods in Biochemistry		9	BIOS-07/A	Distinctive Disciplines of the biomolecular sector	mandatory
500810 Microbial Genetics		6	BIOS-14/A	Distinctive Disciplines of the biomolecular sector	mandatory
500805 Advanced Molecular Biology		6	BIOS-08/A	Distinctive Disciplines of the biomolecular sector	mandatory
500190 Bioinformatics		6	IBIO-01/A	Related/supplementary Related or supplementary training activities	mandatory
500811 Human Molecular Genetics		6	BIOS-14/A	Distinctive Disciplines of the biomolecular sector	mandatory
500812 Molecular Pharmacology		6	BIOS-11/A	Distinctive Disciplines of the biomedical sector	mandatory
510350 Internship for experimental thesis A		14	PROFIN_S	Language/Final exam For the final exam	mandatory
One of the following courses:					
510322 Structural Biology 510327 Basic Molecular Biology		6 6	BIOS-08/A BIOS-08/A	Distinctive Disciplines of the biomolecular sector Distinctive Disciplines of the biomolecular sector	optional optional
One of the following courses:					
510351 Other Activities-Soft Skills		3	NN	Other Other skills	optional
509536 Italian Language for Foreign Students (mandatory only for foreign student who don't know Italian language)		3	NN	Other Additional language knowledge	mandatory only for foreign student who don't know Italian language

Courses that can be moved to the first year

Year	Code	Course name	CFU	Scientific area
II	500462	Cellular Biochemistry	6	BIOS-07/A
II	502300	Developmental Biology	6	BIOS-04/A
II	504225	Plant Molecular Biology and Biotechnology	6	BIOS-02/A
II	502301	Molecular Microbiology	6	BIOS-15/A
II	502305	Advanced Microscopy	6	BIOS-04/A
II	501561	Molecular Genetics	6	BIOS-14/A
II	502314	Molecular Entomology	6	BIOS-03/A
II	501708	Immunology	6	MEDS-02/A

II	510314	Radiation Biophysics and Radiobiology	6	MEDS-22/A
II	512196	ADVANCED THERAPY MEDICINAL PRODUCTS	6	BIOS-11/A

Course catalogue

ANY EXTRA EXAMS (MAX 24 CFU)

Teaching activity	CFU	Scientific area	TAF/Field	Year

Date…… Signature……

CURRICULUM MOLECULAR AND DIGITAL BIOLOGY

I YEAR 2026/2027 (54 CFU)

Course	Parts	CFU	Scientific area	TAF Type of teaching activity Field	Type of teaching activity
500190 Bioinformatics		6	IBIO-01/A	Related/ supplementary Related or supplementary training activities	mandatory
500805 Advanced Molecular Biology		6	BIOS-08/A	Distinctive Disciplines of the biomolecular sector	mandatory
500812 Molecular Pharmacology		6	BIOS-11/A	Distinctive Disciplines of the biomedical sector	mandatory
510324 Statistics and Big Data Analysis		9	BIOS-08/A	Distinctive Disciplines of the biomolecular sector	mandatory
One of the following courses:					
510327 Basic Molecular Biology		6	BIOS-08/A	Distinctive Disciplines of the biomolecular sector	optional
510322 Structural Biology		6	BIOS-08/A	Distinctive Disciplines of the biomolecular sector	optional
One of the following courses:					
510325 Basic Biochemistry		6	BIOS-07/A	Distinctive Disciplines of the biomolecular sector	optional
500462 Cellular Biochemistry		6	BIOS-07/A	Distinctive Disciplines of the biomolecular sector	optional
One of the following courses:					
510326 Basic Genetics and Cell Biology		6	BIOS-14/A	Distinctive Disciplines of the biomolecular sector	optional
500811 Human Molecular Genetics		6	BIOS-14/A	Distinctive Disciplines of the biomolecular sector	optional
One of the following courses:					
510328 Basic Microbiology		6	BIOS-15/A	Distinctive Disciplines of the biomolecular sector	optional
500810 Microbial Genetics		6	BIOS-14/A	Distinctive Disciplines of the biomolecular sector	optional
One of the following courses:					
510351 Other Activities-Soft Skills		3	NN	Other Other skills	optional
509536 Italian Language for Foreign Students (mandatory only for foreign student who don't know Italian language)		3	NN	Other Additional language knowledge	mandatory only for foreign student who don't know Italian language

Courses that can be moved to the first year

Year	Code	Course name	Part	CFU	Scientific area
II	510330	Genomics and evolution in emerging infectious diseases	510348	6	BIOS-03/A

			Comparative genomics and metagenomics in vectors and pathogens 510349 Genomics and epidemiology of infectious diseases	6	MVET-03/B
II	510329	Laboratory of advanced bioinformatics for omics sciences		6	BIOS-08/A
II	510331	Pharmacogenomics, cancer genomics and epigenomics		6	BIOS-14/A
II	502305	Advanced Microscopy		6	BIOS-04/A
II	501561	Molecular Genetics		6	BIOS-14/A
II	502314	Molecular Entomology		6	BIOS-03/A
II	501708	Immunology		6	MEDS-02/A
II	512196	ADVANCED THERAPY MEDICINAL PRODUCTS		6	BIOS-11/A

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Course catalogue

ANY EXTRA EXAMS (MAX 24 CFU)

Teaching activity	CFU	Scientific area	TAF/Field	Year

Date…… Signature……