UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2026/27
IN
MEDICAL BIOTECHOLOGY AND MOLECULAR MEDICINE (Classe LM-9 R)
Immatricolati nell'Anno Accademico 2026/2027

HEADING

Degree classification - Denomination and code:	LM-9 R
Degree title:	Dottore Magistrale
Curricula currently available:	NEUROSCIENCE / MEDICAL AND EXPERIMENTAL ONCOLOGY / MOLECULAR DIAGNOSTICS FOR PERSONALIZED MEDICINE / EXPERIMENTAL IMMUNOLOGY AND TRANSPLANTATIONS / ADVANCED COMPUTATION FOR HUMAN DISEASE MODELLING
Length of course:	2 years
Credits required for admission:	180
Total number of credits required to complete programme:	120
Course years currently available:	1st
Access procedures:	Cap on student numbers,student selection based on entrance test
Course code:	DBB

PERSONS/ROLES

Head of Study Programme
prof.ssa Federica Marchesi

Tutors - Faculty
Academic guidance tutor
prof. Marco VENTURIN

Internship tutor
prof.ssa Angelisa FRASCA

Erasmus and international mobility tutor
prof.ssa Elena CHIRICOZZI

Tutor elective activities
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Degree Course website
https://medicalbiotechnology.cdl.unimi.it/en

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CHARACTERISTICS OF DEGREE PROGRAMME

General and specific learning objectives

The Master's Degree Program in Medical Biotechnology and Molecular Medicine is designed to train professionals with a strong theoretical and technical background. Graduates are expected to pursue careers involving the development of advanced scientific methodologies and the coordination of research projects in the fields of applied biotechnology and translational medicine.

The program provides students with a solid foundation in the genetic and molecular bases of disease and in the pathophysiological mechanisms underlying human disorders, with the aim of developing biotechnology-based diagnostic and therapeutic strategies. This core training is complemented by specialized training in computer science, biophysics, nanotechnology and pharmacology.

The program is organized into common and curriculum-specific learning activities, with a focus on neuroscience, oncology, molecular diagnostics, immune-biotechnology, modelling and bioinformatics. Within the common courses, students also

acquire knowledge of the economic management of scientific research projects, with particular emphasis on business plan development and cost analysis.

A substantial part of the program covering almost the entire second year is devoted to the degree internship. During this period, students attend a research laboratory where, under the supervision of a tutor, they develop an original research project. Within this framework, students design and carry out experimental work, applying a range of methodologies and approaches consistent with the objectives of the host research group. This activity is specifically intended to support the preparation of the final degree examination

Expected learning outcomes

Graduates in Medical Biotechnology and Molecular Medicine are prepared to coordinate and manage research projects in the fields of biotechnology and molecular medicine, and to work in close collaboration with physicians in the development of novel and innovative diagnostic and therapeutic strategies

Professional profile and employment opportunities

The objective of the program is to train experts in medical biotechnology and molecular medicine capable of developing novel experimental models for the study of human diseases, innovative diagnostic approaches, new therapeutic molecules, and advanced drug delivery systems. These competencies are grounded in a strong translational educational background, enabling graduates to act as an effective interface with clinical practice and to bridge basic research and patient care. A thorough understanding of the pathogenetic mechanisms underlying disease is essential for the application of basic sciences to the management of medical problems.

The program prepares graduates for the following professional profiles:

Medical Science Liaison (MSL) in pharmaceutical and biotechnological companies.

Within pharmaceutical and biotechnological companies, this professional profile is responsible for establishing and maintaining scientific relationships with clinicians and for supporting the appropriate use of company products. A strong background in medical sciences and pharmacology enables the Medical Science Liaison to interact effectively with physicians and to address clinical issues related to specific therapies.

Clinical Monitor in pharmaceutical and biotechnological companies or Contract Research Organizations (CROs) (upon completion of specific training programs).

Thanks to a solid background in pharmacology and statistics, this professional is qualified to coordinate and monitor clinical studies.

Market Access Manager in pharmaceutical and biotechnological companies, consulting agencies, or regulatory institutions such as the Italian Medicines Agency (AIFA) (upon completion of specific training programs).

Building on strong competencies in economics and pharmacology, as well as knowledge of ethical issues related to drug commercialization, graduates are well positioned to establish effective and stable interactions with regulatory authorities and institutions, with the aim of facilitating approval and market access for new pharmacological and biotechnological products.

Medical and Scientific Communication Advisor in scientific and medical communication agencies and publishing companies.

Owing to the multidisciplinary training acquired during the program, graduates may pursue careers as medical writers or consultants involved in the development of distance-learning modules for Continuing Medical Education (CME) and other continuing education programs for health professionals. They may also act as advisors for pharmaceutical and biotechnological companies in communication activities involving patient organizations.

Research Scientist.

Graduates may continue their training through PhD programs, second-level master?s degrees, or Schools of Specialization in fields such as Medical Genetics, Medical Pharmacology, Clinical Biochemistry, Microbiology and Virology, or Nutrition. Upon passing the State Board Examination, graduates may enroll in the Professional Register of Biologists (Senior Section).

Pre-requisites for admission

Enrollment in this Master's Degree Program is limited, as admission is subject to a locally capped number of places. Italian and European applicants admitted to the program are selected through a ranking list based on the results of an admission test. The same ranking list may be also used for curriculum selection, in cases where student enrollment across the different curricula is not evenly distributed. To be eligible for enrollment and inclusion in the ranking list, applicants must achieve a minimum score of 20/50 on the admission test. Information regarding non-European applicants is provided below.* The date of the admission test will be announced in the official selection notice published on the University of Milan website.

For Italian and European applicants, selection is based on a competitive written entrance examination. The admission test consists of a multiple-choice written exam conducted in English and includes 50 questions covering subjects such as biology, biochemistry, physics, pharmacology, immunology, pathology, and genetics.

For non-EU applicants residing abroad (i.e., applicants requiring a student visa), selection and ranking are based on the evaluation of the applicant's academic and personal background, as well as on the outcome of an interview.

B2 entrance level:

Proficiency in English at level B2 or higher according to the Common European Framework of Reference for Languages (CEFR) is required for admission.

The B2-level requirement will be ascertained by the University Language Centre (SLAM) upon admission as follows:

- Valid language certificate at B2 level or higher, issued no more than three years before the application date. The list of language certificates recognized by the University is available at https://www.unimi.it/en/node/39322 .The certificate must be uploaded when submitting the online application;

- English level achieved during a University of Milan degree programme and certified by the University Language Centre (SLAM) no more than four years before the application date, including levels based on language certificates submitted by the applicant during their Bachelor?s degree at the University of Milan. Verification will be carried out automatically, no documents need to be uploaded.
- Entry test administrated by the University Language Centre (SLAM) according to the calendar published on the website: (https://www.unimi.it/en/node/39267/)
Applicants who fail to submit a valid certificate or do not meet the required proficiency level will be instructed during the admission procedure to take the Entry test.

Applicants who do not take or pass the Entry test will be required to obtain a language proficiency certificate recognized by the University (see https://www.unimi.it/en/node/39322) and submit it to SLAM via the InformaStudenti service by the deadline set by the master's degree programme (https://www.unimi.it/en/node/39267/).
Applicants who fail to meet the requirement by said deadline will not be admitted to the master's degree programme and may not sit any further tests."

Programme structure

The Master’s Degree Program in Medical Biotechnology and Molecular Medicine has a planned duration of 2 years, structured into 6 terms, during which students acquire a total of 120 ECTS credits. The first and second terms of the first year consist of learning activities common to all students, aimed at providing a solid and in-depth foundation across the core areas of medical biotechnology. The third term of the first year is organized into five curriculum-specific learning activities focusing on neuroscience; medical and experimental oncology; diagnostics for personalized medicine; experimental immunology and transplantation; advanced experimental models and computational methods. These activities are designed to complement the general educational background of the program with more specialized translational and clinically oriented training. At the beginning of the program, each student selects one among the five curricula.
During the fourth term (second year), part of the educational activities is dedicated to the socio-economic aspects of biotechnology, with particular emphasis on bioethics. The remainder of the fourth term, as well as the entire fifth and sixth terms, is devoted to research activities carried out in selected laboratories in the form of internships (see below). Over the course of the two-year program, students may also earn 8 ECTS credits through elective courses, selected either from offerings within the program itself or from other degree programs at the University, provided that the course content is consistent with the objectives of the Master’s Degree Program.

Conscientious objection policy

In accordance with Act No. 413 of October 12, 1993, “Regulations on conscientious objection to animal experimentation”, the Faculty of Medicine recognizes students’ unquestionable right to conscientious objection.
Students who invoke conscientious objection may be exempted from attending laboratory activities that involve the use of live or dead animals. The acquisition of the scientific and practical competencies required to pass examinations will nevertheless be ensured, in line with the educational objectives of the specific degree program, through alternative methods identified by the course instructors.

Campus

Both common learning activities and Curricular learning activities will be held at the Dipartimento di Biotecnologie Mediche e Medicina Traslazionale – Via Fratelli Cervi, 93 - 20054 Segrate.

Subjects organisation

Lectures and Seminars
Lectures consist of instruction delivered by course instructors on topics considered fundamental for the acquisition of core knowledge in each discipline. Seminars complement lectures and are delivered by subject-matter experts to provide in-depth coverage of specific areas. The topics addressed during seminars are an integral part of the course syllabus and are included in the final assessment.
Laboratory Activities
During laboratory activities, students develop and carry out experimental approaches within the framework of a broader research project, under the supervision of a tutor. These activities are specifically designed to prepare students for the final degree examination.
Professionalizing Activities
Professionalizing activities are integrated into laboratory training and are intended to strengthen practical and applied skills.
Elective Training Activities
The program offers elective training activities selected by students and distributed throughout the course of study. These activities allow students to explore specific or emerging topics by choosing from a range of options proposed annually by the faculty. Selected activities may take different forms, and attendance is mandatory. The following types of selected activities are available:
1. seminar-based courses;
2. internships;
3. participation in conferences and congresses.

In addition, a fourth type of selected activity is available:
4. summer internships, which are regulated under Article 8 of the Faculty Regulations on Selected Activities.

For Type 3 activities (participation in conferences and congresses), students earn 1 ECTS credit for every three conferences or congresses attended during their course of study. A maximum of 1 ECTS credit may be awarded for this type of activity over the entire duration of the program.
Upon completion of a selected (elective) activity, students who have attended at least 75% of the scheduled activities are awarded the corresponding credits upon certification of attendance.
Detailed regulations governing selected activities are provided in the Faculty Regulations on Selected Activities.

Tutoring

The Master's Degree Program provides a tutoring service to support students throughout their academic path, with particular attention to internship selection, thesis preparation, and international mobility opportunities (see the tutor list above).

Language test / computer literacy test

Students who do not hold an Italian high school diploma or degree can obtain 3 credits in Additional language skills: Italian by demonstrating A2 level in Italian per the Common European Framework of Reference for Languages (CEFR). This level can be assessed in one of the following ways:

- by submitting a certificate of A2 or higher level issued no more than three years prior to the date of submission. You will find the list of language certificates recognized by the University at: https://www.unimi.it/en/node/349/). The language certificate must be uploaded through http://studente.unimi.it/uploadCertificazioniLingue ;

- by an entry-level test administrated by SLAM that can be taken only once and is compulsory for all students who do not have a valid language certificate. Those who fail to reach A2 level will have to attend one or more than one 60-hour Italian course(s) geared to their level. Those who do not take the entry-level test or fail to pass the end-of-course test after six attempts will have to obtain language certification privately in order to earn the 3 credits of Additional language skills: Italian.
Alternatively, in the second year of the course, they must earn 3 ECTS credits from Further learning activities.

Compulsory attendance

Students are required to attend all teaching activities, with a maximum allowance of 25% absence. Attendance must be recorded by signing in at each learning activity. In cases where absences exceed 25% of the scheduled hours, the Teaching Committee will take the appropriate measures.

Testing and assessment procedures

Each course includes a single, individual examination, (in accordance with art. 22, punto 1, del Regolamento Didattico di Ateneo). Examination results are graded on a thirty-point scale (as established by art. 11, comma 7, lettera e) of the DM 270/2004 and art. 22, punto 7, del Regolamento Didattico di Ateneo). Detailed information on examination procedures is available on the program website:
(https:// medicalbiotechnology.cdl.unimi.it/en/study/exams).

Internship criteria

During the internship, students are directly responsible for the development of a defined research project, with the objective of generating experimental data to be used in the preparation of the final degree examination. Laboratory activities are closely related to the subjects and topics covered during the program, are compulsory, and are formally certified by the supervising tutor and by a designated committee.

Degree programme final exam

The final examination consists of the submission of a written thesis, an oral presentation, and the public defense of an experimental dissertation based on data generated by the student during their research laboratory activities. The thesis is developed under the supervision of a faculty member affiliated with the Master’s Degree Program in Medical Biotechnology and Molecular Medicine (Academic Supervisor), with the collaboration of a tutor.
In assessing the final examination, the evaluation committee takes into account the quality of the written thesis, the effectiveness of the oral presentation, the candidate’s scientific maturity as demonstrated during the discussion, as well as the evaluation of the Academic supervisor.

Lecture timetable

https://medicalbiotechnology.cdl.unimi.it/en/study/course-timetable

ADMISSION TO MASTERS PROGRAMMES

2 Admission for students from other universities

To be eligible for the entrance examination, applicants holding a Bachelor’s degree from Italian or EU universities must have earned 180 ECTS credits. Of these, at least 50 ECTS credits must be obtained in the following scientific disciplinary areas: BIOS-06/A (Physiology), BIOS-07/A (Biochemistry), BIOS-08/A (Molecular Biology), BIOS-09/A (Clinical Biochemistry), BIOS-10/A (Biology), BIOS-11/A (Pharmacology), BIOS-12/A (Human Anatomy), BIOS-14/A (Genetics), BIOS-15/A (General Microbiology), MEDS-24/A (Medical Statistics), MEDS-01/A (Human Genetics), MEDS-02/A (General Pathology), MEDS-02/B (Clinical Pathology), MEDS-09/A (Medical Oncology), MEDS-03/A (Microbiology), MEDS-04/A (Pathology), MEDS-05/A (Internal Medicine), MEDS-11/A (Mental Health), MEDS-12/A (Neurology), MEDS-26/A (Laboratory Medicine), INF-01/A (Informatics), and PHYS-06/A (Medical Physics).

For non-EU applicants residing abroad (i.e., applicants requiring a student visa), admission to the Master's Degree Program is based on the evaluation of the applicant's academic and personal background, as well as on the outcome of an interview. As for Italian and EU applicants, non-EU candidates must have earned at least 50 ECTS credits in the scientific disciplinary areas listed above. In order to successfully attend the learning activities of the program, applicants are required to have a good mastery of spoken and written English. A B2 level of English proficiency is mandatory, and the relevant certification must be provided at the time of registration for the entrance examination.
Students waiting to obtain the bachelor's degree, can participate in the admission test "sub iudice". In case of success, they will be accepted only if they obtain the bachelor degree by December 31th, also possessing the prerequisite described above. More details about the selection/admission procedure can be found above in the Admission Criteria paragraph.

EXPERIENCE OF STUDY ABROAD AS PART OF THE DEGREE PROGRAM

The University of Milan supports international mobility by providing its students with the opportunity to spend study and internship periods abroad. It is a unique chance to enrich your educational path in a new exciting environment.

The agreements entered into by the University with over 300 universities from the 27 EU member countries under the European Erasmus+ programme allow regularly enrolled students to carry out part of their studies at one of the partner universities or to undertake internships at companies, training and research centres and other organisations.

Similar international mobility opportunities are provided outside Europe, through agreements with a number of prestigious institutions.

The University of Milan is a member of the 4EU+ European University Alliance that brings together eight public multidisciplinary universities: University of Milan, Charles University of Prague, Heidelberg University, Paris-Panthéon-Assas University, Sorbonne University of Paris, University of Copenhagen, University of Geneva, and University of Warsaw. The 4EU+ Alliance offers integrated educational pathways and programmes to promote the international mobility of students (physical, blended and virtual).

Study and internships abroad

The Master's Degree Program in Medical Biotechnology and Molecular Medicine supports international mobility through collaborations with leading international universities and offers students the opportunity to earn academic credits through educational and training exchanges with partner institutions.
Available programs include:
– Bilateral agreements within the Erasmus+ framework with the University of Leuven (Katholieke Universiteit Leuven, Belgium), the Leiden University Medical Center (LUMC), University of Leiden (the Netherlands), and the University of Cantabria (Universidad de Cantabria, Spain);
– Traineeships at the Institute for Research in Biomedicine (IRB), Bellinzona, Switzerland.
In recent years, an increasing number of students have enhanced their professional skills and strengthened the European dimension of their education through periods of study and research abroad. Partner universities are highly recognized European institutions, hosting well-established Master's and PhD programs in biomedical sciences and offering opportunities to conduct research across a broad range of scientific fields covered by the Degree Program. These experiences provide students with valuable opportunities to strengthen their curricula and to explore the possibility of pursuing an international career.
The Master's Degree Program in Medical Biotechnology and Molecular Medicine allows second-year students to complete their entire practical training for the preparation of the final thesis at one of the for ementioned partner institutions, or at other institutions with which a formal agreement has been established. Students are required to define a research project consistent with their course of study and curriculum, subject to joint approval by both the University of Milan tutor and the host institution tutor.
The period abroad has a duration of up to 9 months and corresponds to 32 ECTS credits. A positive evaluation of the period abroad is required and must be jointly issued by the host institution tutor and the University of Milan tutor and subsequently approved by the Degree Program Teaching Committee. Erasmus students who achieve outstanding results, as documented by the official evaluation letter from the host institution tutor addressed to the President of the Master's Degree Program Committee, may be awarded 1 additional point in the final degree grade.
In addition to general informational meetings organized by the University, the Degree Program in Medical Biotechnology and Molecular Medicine provides specific support to interested and selected students through dedicated information sessions and individual meetings with the mobility tutors.

How to participate in Erasmus mobility programs

How to participate in Erasmus+ mobility programmes

The students of the University of Milan can participate in mobility programmes, through a public selection procedure.
Ad hoc commissions will evaluate:
• Academic career
• the candidate's proposed study programme abroad
• his/her foreign language proficiency

• the reasons behind his/her application

Call for applications and informative meetings
The public selection for Erasmus+ mobility for study generally begins around February each year with the publication of a call for applications specifying destinations and requirements. Regarding the Erasmus+ Mobility for Traineeship, the University of Milan usually publishes two calls a year enabling students to choose a destination defined by an inter-institutional agreement or to find a traineeship position on their own.

The University organises informative meetings to illustrate mobility opportunities and rules for participation.

Erasmus+ scholarship
The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which may be supplemented by the University funding for disadvantaged students.

Language courses
Students who pass the selections for mobility programmes can benefit from intensive foreign language courses offered each year by the University Language Centre (SLAM).
https://www.unimi.it/en/node/8/

Learn more at https://www.unimi.it/en/node/274/

For assistance, please contact:
International Mobility Office
Via Santa Sofia 9 (second floor)
Tel. 02 503 13501-12589-13495-13502
Contacts: InformaStudenti;
Student Desk booking through InformaStudenti

ADMISSION CRITERIA: 1ST YEAR CAP ON STUDENT, STUDENT SELECTION BASED ON ENTRANCE TEST

Links to enrolment information and procedures
https://www.unimi.it/en/education/medical-biotechnology-and-molecular-medicine

Notes
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Number of places assigned
65

1st COURSE YEAR Core/compulsory courses/activities common to all curricula

Scheduling	Learning activity	Module/teaching unit	Ects	Sector
1 trimester	Advanced microscopic techniques and nanotechnology		6	PHYS-06/A
1 trimester	Applied pharmacology to biotechnology		7	BIOS-11/A
1 trimester	Pathogenetic basis of diseases (Total number of ects:12)	General pathology and immunology	6	MEDS-02/A
		Internal medicine and endocrinology	6	(4) MEDS-05/A, (2) MEDS-08/A
2 trimester	Genetic and molecular bases of diseases (Total number of ects:14)	Biology	8	BIOS-10/A
		Medical genetics	6	MEDS-01/A
2 trimester	Human biochemistry		9	BIOS-07/A
2 trimester	Molecular biology applied to biotechnology		7	BIOS-08/A
		Total number of compulsory credits/ects	55	

Elective courses common to all curricula

In the first year, the student must gain 4 ects of further electives

2nd COURSE YEAR (available as of academic year 2027/28) Core/compulsory courses/activities common to all curricula

Scheduling	Learning activity	Module/teaching unit	Ects	Sector
year	Further learning activities (linguistic, informatic, relational)		3	NN
1 trimester	Social aspects of biotechnology (Total number of ects:11)	History of medicine	6	MEDS-02/C
		Bio-medicine	5	MEDS-02/C
		Total number of compulsory credits/ects	14	

Elective courses common to all curricula

In the second year, the student must gain 4 ects of further electives

End of course requirements common to all curricula				
	Degree program final exam		21	NN
year	Professionalizing training activities		4	NN
		Total number of compulsory credits/ects	25	

LIST OF CURRENTLY AVAILABLE CURRICULA

NEUROSCIENCE Course years currently available: 1st
MEDICAL AND EXPERIMENTAL ONCOLOGY Course years currently available: 1st
MOLECULAR DIAGNOSTICS FOR PERSONALIZED MEDICINE Course years currently available: 1st
EXPERIMENTAL IMMUNOLOGY AND TRANSPLANTATIONS Course years currently available: 1st
ADVANCED COMPUTATION FOR HUMAN DISEASE MODELLING Course years currently available: 1st

CURRICULUM: [DBB-A] NEUROSCIENCE

1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features NEUROSCIENCE				
Scheduling	**Learning activity**	**Module/teaching unit**	**Ects**	**Sector**
3 trimester	Molecular diagnostics and therapy		6	(1) MEDS-26/D, (1) BIOS-10/A, (2) MEDS-12/A, (2) BIOS-11/A
3 trimester	Neurobiology		6	(1) BIOS-10/A, (1) BIOS-07/A, (1) MEDS-12/A, (3) BIOS-06/A
3 trimester	Pathogenetic bases of neurological and psychiatric disorders		6	(2) MEDS-11/A, (1) BIOS-08/A, (2) MEDS-12/A, (1) MEDS-08/A
		Total number of compulsory credits/ects	18	

CURRICULUM: [DBB-B] MEDICAL AND EXPERIMENTAL ONCOLOGY

1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features MEDICAL AND EXPERIMENTAL ONCOLOGY				
Scheduling	**Learning activity**	**Module/teaching unit**	**Ects**	**Sector**
3 trimester	Cancer epidemiology and pathogenesis		6	(2) MEDS-02/A, (1) MEDS-09/A, (2) MEDS-09/B, (1) MEDS-24/A
3 trimester	Cancer immunology and microenvironment		6	(2) MEDS-02/A, (2) MEDS-09/A, (2) MEDS-09/B
3 trimester	Research and development of new diagnostic and therapeutic methodologies		6	(1) MEDS-26/D, (2) BIOS-08/A, (2) MEDS-09/B, (1) MEDS-04/A
		Total number of compulsory credits/ects	18	

CURRICULUM: [DBB-C] MOLECULAR DIAGNOSTICS FOR PERSONALIZED MEDICINE

1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features MOLECULAR DIAGNOSTICS FOR PERSONALIZED MEDICINE				
Scheduling	**Learning activity**	**Module/teaching unit**	**Ects**	**Sector**
3 trimester	Advanced techniques in medical biotechnology		6	(1) MEDS-21/A, (1) BIOS-08/A, (2) BIOS-10/A, (2) BIOS-07/A
3 trimester	Data and laboratory management		6	(3) MEDS-26/A, (2) MEDS-25/A,

				(1) MEDS-24/A
3 trimester	Molecular diagnostics		6	(2) BIOS-09/A, (2) MEDS-01/A, (2) MEDS-03/A
		Total number of compulsory credits/ects	18	

CURRICULUM: [DBB-D] EXPERIMENTAL IMMUNOLOGY AND TRANSPLANTATIONS

1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features EXPERIMENTAL IMMUNOLOGY AND TRANSPLANTATIONS				
Scheduling	**Learning activity**	**Module/teaching unit**	**Ects**	**Sector**
3 trimester	Cancer immunology and microenvironment		6	(2) MEDS-02/A, (2) MEDS-09/A, (2) MEDS-09/B
3 trimester	Experimental immunology and immunobiotechnology		6	(2) MEDS-26/A, (1) MEDS-02/A, (1) MEDS-09/C, (2) MVET-03/A
3 trimester	Transplantation and tissue engineering		6	(1) IBIO-01/A, (3) MEDS-06/A, (1) MEDS-09/B, (1) MEDS-25/A
		Total number of compulsory credits/ects	18	

CURRICULUM: [DBB-E] ADVANCED COMPUTATION FOR HUMAN DISEASE MODELLING

1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features ADVANCED COMPUTATION FOR HUMAN DISEASE MODELLING				
Scheduling	**Learning activity**	**Module/teaching unit**	**Ects**	**Sector**
3 trimester	In vitro and in vivo model systems for human diseases modeling		6	(1) BIOS-08/A, (3) MEDS-02/A, (1) BIOS-10/A, (1) BIOS-11/A
3 trimester	Multilevel computational modelling of human diseases		6	(2) CHEM-02/A, (3) BIOS-08/A, (1) PHYS-06/A
3 trimester	Spatial and molecular organization of cells in diseases		6	(3) BIOS-08/A, (1) BIOS-07/A, (1) PHYS-06/A, (1) BIOS-06/A
		Total number of compulsory credits/ects	18	

COURSE PROGRESSION REQUIREMENTS

Before enrolling in curriculum-specific examinations, students must have successfully completed the 6 common examinations offered during the first two terms. Likewise, access to laboratory activities is granted only after passing the 6 common examinations of the first two terms.