

INSPIRING GLOBAL CHANGE SINCE 1222

---

SCHOOL OF MEDICINE

# MEDICAL BIOTECHNOLOGIES

The Master's degree provides deep biomedical knowledge concerning the connections between the structure and function of biomolecules and biosystems operating at cell or tissue level, and of the organism in physiological and pathological conditions. Practical training in laboratory represents a relevant part of the programme.



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

# MEDICAL BIOTECHNOLOGIES

**LEVEL** Master

**SCHOOL** Medicine

**DEPARTMENT** Molecular Medicine

**DURATION** 2 years (120 ECTS)

**START DATE** October

**LOCATION** Padua, Italy

**AVAILABLE PLACES** Non-European candidates residing outside Italy: 10 (1 Marco Polo Project) Others: 55

## PROGRAMME COORDINATOR

Sara Richter

## WEB

[www.unipd.it/en/medical-biotechnologies](http://www.unipd.it/en/medical-biotechnologies)

## APPLY.UNIPD.IT



133<sup>rd</sup> 2023

Biological Sciences



WORLD  
UNIVERSITY  
RANKINGS

BY SUBJECT

## ENTRY REQUIREMENTS

- Bachelor's degree (or equivalent) with certified skills in Mathematics, Statistics, Chemistry, Biochemistry, Physics, Biology, Microbiology, Pathology, Immunology, Genetics, Molecular Biology, Cellular Biology
- English language: B2 level (CEFR) or equivalent

## PROGRAMME STRUCTURE

1st Year: Advanced Biomedical Technologies; Laboratory Activities; Laboratory Medicine Technologies and Molecular Diagnostics; Pharmaceutical Biotechnology; Design and Analysis of Biopharmaceuticals; Proteomics and Bioinformatics; Cell and Organ Physiology and Medical Pathophysiology; Genetics and Epigenetics; Immunology and General Pathology; Nanobiotechnology; Biology of Ageing; Advanced Technologies for Biomedical Data.

Optional course units: Antibiotic therapy: Discovery, Development and Rational Clinical Use; Seminar.

2nd Year: Experimental Models in Vivo and Vitro; Pharmacology and Molecular Therapies; Stem Cell Biology and Molecular Biology of Development.

## TUITION FEES AND SCHOLARSHIPS

Annual fees: up to € 2,700 (3 instalments)

Scholarships and fee-waivers for international students available: [www.unipd.it/en/funding-and-fees](http://www.unipd.it/en/funding-and-fees)

## CAREER OPPORTUNITIES

Graduates work as heads of research laboratories and project coordinators related to biotechnologies applied to human beings, with emphasis on pharmaceutical products and vaccines, taking into account ethical, technical, and legal implications. They are able to assist doctors in the diagnosis and in the therapeutic phases implying the manipulation of cells, genes and other bio-systems.