



# Master's Degree Course in Biomedical Omics

Head of Study Programme  
and Academic Board  
Prof. Pelicci Pier Giuseppe

LM-09 in Pharmaceutical, veterinary and  
medical biotechnologies  
Length of Study: 2 years (120 ECTS)



**fondazione  
dompé**

## General Information

The Master's Degree in Biomedical Omics of the University of Milan is an innovative international program in the emerging field of Omics focused on biomedical applications of omics sciences. Omics Technologies (genomics, epigenomics, proteomics, metabolomics, radiomics) provide complete genetic and molecular characterization of individual organisms and have a broad and rapidly expanding range of applications in biomedicine, including diagnostics, patient stratification, basic and translational research.

The Master's Degree in Biomedical Omics was offered for the first time in 2020 by the Department of Oncology and Hemato-Oncology of the University of Milan, and is held by Faculty with excellent scientific productivity in preclinical and clinical disciplines, operating in prestigious Milanese and Lombard University Centers.

## Characteristics of the program

The two-year Master's program provides students with a broad understanding of Omics disciplines applied to medicine and first-hand practical experience in omics laboratories. The official language of instruction is English.

Main topics covered by the program are:

**Year 1:** Genomics and Epigenomics; Proteomics; Radiomics; High-Throughput screenings; Legislation, Management and technology transfer; Computational approaches for Omics data.  
**Year 2:** Clinical Omics, Omics in diagnostics, Experimental Design; Ethics and decision-making, and a Thesis Project.

**Learning methods** include theoretical activities (lectures, journal clubs and seminars) and laboratory activities (rotations in omics laboratories and thesis project).

## Careers

Employment opportunities include:

- coordination of omics techniques in routine diagnostics or clinical research within hospital laboratories;
- basic research laboratories;
- biotechnological development institutes;
- further academic training (PhD programs or second-level masters programs).

## How to apply

Candidates must hold a Bachelor's degree (Laurea Triennale) in biology, biotechnology, chemistry or pharmaceutical sciences (or equivalent degree for foreign students). Candidates must be proficient in written and spoken English (certification B2 Level is required.) The selection will be based on the applicants' curriculum vitae and on the score obtained at an interview, for both EU and non-EU applicants.

Positions available for 2023/2024 are:

- 30 positions for European citizens (and equivalent);
- 5 positions for non-European candidates residing abroad applying for a VISA.

Applications will open on **April 3, 2023**.

Eligibility criteria and application deadlines are available at <https://bo.cdl.unimi.it/en/enrolment>.

## Information and Contacts

Details about the course are available at the following link: <https://www.unimi.it/it/corsi/corsi-di-laurea/biomedical-omics-bo>

For further information contact [biomedicalomics@unimi.it](mailto:biomedicalomics@unimi.it)