

DIBEST

**Department of Biology, Ecology
and Earth Sciences**

University of Calabria

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for information

 [youtube.com/channel/UCf5odc8ie9hDESvrDVT9L1w](https://www.youtube.com/channel/UCf5odc8ie9hDESvrDVT9L1w)

 [facebook.com/dibest.unical](https://www.facebook.com/dibest.unical)

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UNIVERSITÀ DELLA CALABRIA

**DEPARTMENT OF BIOLOGY, ECOLOGY
AND EARTH SCIENCES**

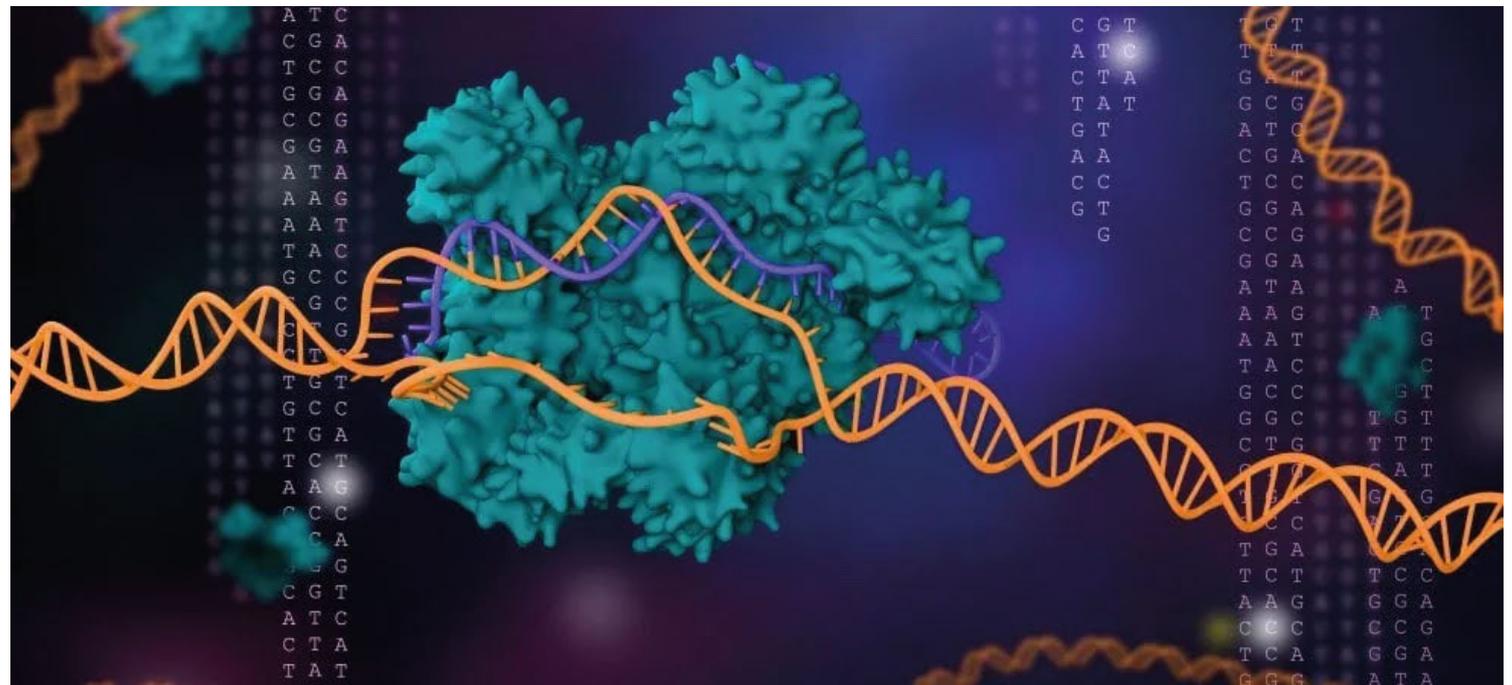
Master's Degree Course



Health Biotechnology

LM-9 – Biotecnologie Mediche

The Master's Degree Course in **Health Biotechnology** will furnish advanced knowledge, skills and ability to use emerging biotechnological methodologies for operating in the field of diagnostics, basic and applied research and therapeutic innovation. In addition, graduates will be able to interact with healthcare facilities and companies in the biomedical and pharmaceutical sectors dealing with drug-discovery. The course gives access to level III training: Specialization Schools, Level I and Level II Masters Courses, Research Doctorates



Educational offer **2021-22**

Admission requirement

To be admitted students must hold a first level degree in the Biotechnology degree class (L-2 ex DM 270/04 or 1 ex DM 509/99) or in other classes, or another qualification obtained in Italy or abroad, recognized as suitable, provided they have basic knowledge in the listed disciplines: mathematical, chemical, physical, computer science disciplines; biological disciplines (biochemistry, molecular biology, microbiology, genetics and physiology); English language, especially with reference to disciplinary vocabulary.

A criterion guaranteeing sufficient basic knowledge consists in the achievement of credits in the following fields: MAT-FIS-INF: 10 CFU*; CHIM: 10 CFU; BIO/09: 6 CFU; BIO/10 - BIO/11 - BIO/12: 15 CFU with at least 6 CFU in BIO/10; BIO/18 -BIO/19: 6 CFU; Other SSD BIO excluding the above: 6 CFU. English language: knowledge at level B2.

Candidates will have to pass a selective test which will assess knowledge of the English language and of the basic subjects in the disciplines listed above. With regard to knowledge of the English language, students already in possession of the corresponding language certificate may be exempted from the test.

(*) CFU = University Educational Credits

Employability and careers

Graduates in Health Biotechnology can work as a Biotechnologist at:

- research and development laboratories in the biotechnology field, in particular in the pharmaceutical, diagnostic, biomedical and food sectors;
- public and private companies oriented to biological and microbiological analysis and to the quality control of the products of biological origin;

- companies in charge of drafting patent regulations regarding the exploitation of biotechnological products and processes;
- universities;
- other public or private research institutes;
- hospitals;
- biotechnological companies.

After passing the Italian State Exam, graduates can be registered with the professions of Senior Biologist in Italy.

Tutoring

The Health Biotechnology degree course currently has more than 30 professors and researchers from the various disciplines involved. Each student is assigned a Tutor Teacher, who will guide and assist him/her during the first two years, making him/her actively participate in the educational process, helping him/her to overcome any obstacles and assisting him/her in his/her educational choices.



For details

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Administrative Manager **Rosanna Filice**
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Curriculum

1st year

1° sem	Applied human genetics (Module 1) Methods of physiological investigation Molecular models of biological interest Applied human biochemistry (Module 1)
2° sem	Applied human biochemistry (Module 2) Applied human molecular physiology Applied genetic biotechnology Applied human genetics (Module 2) Informatics for biotechnologies

2st year

1° sem	Molecular biotechnologies Advanced molecular diagnostics Applications of biotechnology in Neurotoxicology Courses chosen by the student
2° sem	Internship Thesis