



Universidad  
del País Vasco

Euskal Herriko  
Unibertsitatea



# MASTER IN MOLECULAR BIOLOGY AND BIOMEDICINE

[www.ehu.eus](http://www.ehu.eus)

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## INTRODUCTION & OBJECTIVES

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Molecular Biomedicine is a large and rapidly expanding area of scientific research and practice, one whose social impact has never been greater.

Our program consists of several core courses required of all students, a broad selection of elective courses that allow students to focus on aspects of the field of most interest to them, and an independent research project. Our course of studies actively involves most of the scientists who work in molecular biology and biomedicine at the UPV/EHU, the UC, and their affiliated research institutes.

The Master's degree in Molecular Biology and Biomedicine (MBMB) is an official degree program offered jointly by the University of the Basque Country (UPV/EHU) and the University of Cantabria (UC).

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## ENTRY PROFILE

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Undergraduate university degree in Biochemistry; Biology; Biotechnology; Chemistry; Medicine; Pharmacy; Physics; Veterinary Science or equivalent degrees. Acceptance of degrees in other fields is at the discretion of the Master's Committee. English level B2 or higher is recommended.

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## CAREER OPPORTUNITIES

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The MBMB has a distinct research orientation and is especially appropriate for students interested in pursuing PhD studies in biochemistry, molecular biology, and related areas of biomedicine. The MBMB provides direct access to the doctoral program in Molecular Biology and Biomedicine offered by the UPV/EHU and UC.

Graduates of our program will be well prepared to pursue several different career paths, including further academic research, or a variety of job opportunities in the pharmaceutical, biotechnology, or biomedical industries.

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## ABOUT THE COURSE

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**Teaching place:**

UPV/EHU: Faculty of Science and Technology (Leioa).

UPV/EHU: Faculty of Medicine and Nursing (Leioa).

UC: Faculty of Medicine (Santander)

**Teaching type:** 100% on-site.

**Teaching language:** English, Spanish.

**Approximate fees:** 2.200-2.400 €.

**Calendar:** September-June.

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## TEACHING LOAD

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<u>Compulsory subject courses</u> 10 Credits ECTS	<u>Optional subject courses</u> 20 Credits ECTS	<u>Research Projects</u> 30 Credits ECTS	<u>Total</u> 60 Credits ECTS
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## TRAINING SYLLABUS

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The Master's Degree requires 60 credits divided into a course period (30 credits) and a research period (30 credits). During the course period, students typically study 6 subjects, each worth 5 credits, and 2 of

which are compulsory. They must also choose 4 other subjects from the 14 electives taught at the UPV/EHU or at the UC.

### COMPULSORY COURSES

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Workshop in molecular biology (English)  
Workshop in biomedicine (English)

### OPTIONAL SUBJECTS:

#### LOCATION: UPV/EHU

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- Omics : Experimental designs and data analysis (English)
- Molecular bases of cell proliferation, differentiation and death (English)
- Bases moleculares y celulares de la liporregulación (Spanish)
- Cellular-Molecular Biology of Membranes (English)
- Farmacología molecular y farmacogenética (Spanish)
- Neuroscience in Health and Disease (English)
- Proteomics in Biomedicine (English)
- Scientific Writing and Communication Skills for Scientists (English)

#### LOCATION: UC

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- Genetic engineering and biotechnology (English)
- Structure of macromolecules (English)
- Avances en neuropsicofarmacología (Spanish)
- Current advances and future trends in molecular and cellular microbiology (English)
- Biología celular y del desarrollo (Spanish)
- Respuesta inmune normal y alterada (Spanish)

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## CONTACT

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## PARTNER WITH A COOPERATION AGREEMENT

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[www.ehu.es/en/web/master/master-molecular-biology-biomedicine](http://www.ehu.es/en/web/master/master-molecular-biology-biomedicine)