



# INTERUNIVERSITY MASTER'S DEGREE IN GENOMICS AND GENETICS

The Master in Genomics and Genetics aims to satisfy the demand for well-prepared professionals for the genomic and genetic sector, which is of growing importance in our society.

Aimed at people with a high academic record and who are personally dynamic, with an interest in scientific and technological research and in current and continuous training, as well as in the transfer of genetic and genomic knowledge to the industrial and productive sector.

The master will be taught in Spanish and Galician languages.

## PRE-REGISTRATION

1-7 July 2024 (Vigo)

20 June-16 July 2024 (USC)

## DOCUMENTATION

ID card or passport

Official Bachelor's Degree

## CONTACT INFORMATION

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# Interuniversity Master in Genomics and Genetics

Universidade de Santiago de Compostela and Universidade de Vigo

<https://www.mastergenomicaygenetica.com/>

## MASTER'S STRUCTURE: 60 ECTS

Basic module (21 ECTS)

Optional modules (15 ECTS)

External Internships (9 ECTS)

Master's Final Project (15 ECTS)

## PLACES AND PRE-REGISTRATION

15 places in UVI and 15 in USC

First registration period (UVI): 1-7 July (USC: 20 June-16 July).

On line pre-registration (without payment) in UVI:

<https://matricula.uvigo.es/loginX/login.asp>

## SUBJECTS

**Basic Module:** Introduction to programming and bioinformatic data analysis. Quantitative genetics. Epigenetics. Genomic analysis. Scientific method in experimental sciences. Genetic analysis techniques. Model organisms.

**Speciality in Genetic Diversity:** Conservation genetics. Immunology and genomics. Genetic diversity of plants and their microbiota. Molecular evolution. Developmental genetics in plants. Computer simulation of genetic processes.

**Speciality in Genetic Applications:** Genetic traceability. Molecular diagnosis of diseases and pests of cultivated plant species. Applied biochemistry. Molecular Epidemiology of Animal Diseases. Modeling and evolution of the immune response in vertebrates. Bioactive compounds in plants and genetics.

**Speciality in Human Genetics:** Basis of human genetic diseases. Cancer genomics. Stem cells in cancer and aging. Animal models applied to human research. Genetics of human populations. Clinical genetics.

## CONTACT INFORMATION

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