Goal

Interested to become an expert in genetic diagnosis of human diseases? Would you like to use stem cells to reconstruct missing parts of the body? Or may be you are thinking in using animal models for understanding how genes work? Perhaps you would like to discover hidden gems in complex genomes? In this master you will receive up-to-date, in-depth training based on the latest genomics and genetics advances.

Specialization

You may choose the **Human Genetics and Genomics** specialization that will train you in genomic medicine and personalized diagnosis for health, clinical and research institutions. You may choose the **Genetics and Genomics of Development** specialization, which will train you in the analysis of genes and genomes for research studies of development, stem cell research, regeneration and evolution. You will be able to do your master thesis in a research laboratory (5 to 8 months research work). Several laboratories, hospitals, companies and facilities, national and international are involved in this program.

Basic Information

Degree level **Master**

Specialties
Human Genetics
and
Development

School (Lectures)
School of Biology
Campus Pedralbes
University of
Barcelona

Research project (Master Thesis)
Choice of over 50 research laboratories national or international

Language of instruction **English**

Duration

1 year

Credits 60 ECTS

Start Studies
September 27th
2022

Pre-enrolment period From February to June 2022.

Open on-line pre-enrolment in the web starting on February 2022 www.ub.edu/estudis/ mastersuniversitaris/ geneticagenomica/

Resolution of Admissions Last week of June 2022

Enrollment

July and September 2022.

Eligibility

Eligibility to apply for a master's program requires an applicable bachelor's degree or other equivalent qualification (see web)

Contact

Contact information:

Send us a message and we will get back to you as soon as possible master.genetica@ub.edu

Follow us on twitter @MasterGeneUB

Get this QR for further information



Master in Genetics and Genomics

10 ECTS

Mandatory Module

Advanced Genetic Analysis and Functional Genomics Epigenetics and Cellular Memory Human Genome

Speciality Modules

Genetics and Genomics of Development

Developmental Genetics and Genomics Evolution and Development Stem Cells and Regeneration Fluorescence and Image Analysis

Human
Genetics and Genomics

Mendelian and Complex Genetic Diseases Genetic Diagnosis Seminars in Genetics Research Forensic Genetics

Or choose any from the other specialties

15 ECTS

5 ECTS

Elective Module Advanced Bioinformatics
Advanced Techniques in Genetic Engineering
High Throughput Analysis of Genomic Data
Differentiation during Fetal and Neonatal Development
Comparative Genomics
Organogenesis and Aging
Bioethics

Research Project and Master Thesis / TFM

Choose research project and laboratory for your Master Thesis from the list on this QR or in the Master's web page.



30 ECTS





