

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 organoids 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 7 months research work). Several laboratories, hospitals, companies and facilities, national and international are involved in this program.

Basic Information

Degree level
Master

Credits
60 ECTS

Start
September 25th 2024

Duration
1 year

Language of instruction
English

School (Lectures)
School of Biology University of Barcelona

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

Pre-enrolment period
From February to June 2024

Pre-enrolment On-line
(Get the QR)

Resolution of Admissions
Last week of June

Enrollment
July and September

Eligibility

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

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
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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
15 ECTS	Speciality Modules	Development & Stem Cells Developmental Genetics and Genomics Evolution and Development Stem Cells and Regeneration Fluorescence and Image Analysis
15 ECTS	Speciality Modules	Human Genetics and Genomics Mendelian and Complex Genetic Diseases Genetic Diagnosis Seminars in Genetics Research Forensic Genetics
5 ECTS	Elective Module	Advanced Bioinformatics Advanced Techniques in Genetic Engineering High Throughput Analysis of Genomic Data Differentiation in Fetal and Neonatal Development Comparative Genomics From Organogenesis to Aging Bioethics
30 ECTS	Research Project and Master Thesis (TFM)	Choose research project and laboratory for your Master Thesis from the list in the Master's web page.



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