

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** specialization that will train you in genomic medicine and personalized diagnosis for health, clinical and research institutions. You may choose the **Stem Cells and Development** specialization, which will train you in the analysis of genes and genomes for research studies of development, regeneration and disease. You will be able to do your master thesis in a research laboratory (6 to 9 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
Stem Cells 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
**Last week of
September 2020**

Application period
**Starts on February
1, 2020. Ends on
June 15, 2020**

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](https://twitter.com/MasterGeneUB)

Open on-line pre-enrolment in the web starting on February 2020
www.ub.edu/estudis/mastersuniversitaris/geneticagenomica/



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	Stem cells & Development Developmental Genetics and Genomics Evolution and Development Stem Cells and Regeneration Fluorescence and Image Analysis Human Genetics Mendelian and Complex Genetic Diseases Genetic Diagnosis Advanced Techniques of Genetic Engineering Forensic Genetics
5 ECTS	Elective Module	Advanced Bioinformatics Genetic Research Seminars High Throughput Analysis of Genomic Data Differentiation during Fetal and Neonatal Development Gene Regulatory Networks Organogenesis and Aging Comparative Genomics Or choose any from the other specialties
30 ECTS	Research Project and Master Thesis TFM	Choose research project and laboratory from the list in the Master's web page



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