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

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

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Master in Genetics and Genomics

10 ECTS

Mandatory Module

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

Speciality Modules

Stem cells & Development

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

15 ECTS

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

Choose research project and laboratory from the list in the Master's web page

30 ECTS

Research Project and Master Thesis TFM