

Functional Genetics and Bioinformatics: Human Molecular Genetics

(2-year Master's program, 120 credits; recommended study plan)

1st Winter Semester

Introduction to Omics & Biotechnology (KMB/921)
 Practicals in Omics & Biotechnology (KMB/933)
 Seminars in Omics & Biotechnology (KMB/926)
 Bioinformatics for Biologists (KMB/613)
 The New Statistics for Exp. Biologists (KMB/929)
 Bioethics (KMB/913)
 Masters Thesis Assignment (KMB/885)
 Training in OSH, FS and Cybersecurity (FPR/913E)
 Courses evaluation (FPR/914)
 Master's English Examination – TOEFL (OJZ/930) *

Practical Computing for Biologists G2 (KMB/925)

*can be passed anytime during the studies

1st Summer Semester

Master thesis, Practical part (KMB/881E)
 Genetics – Colloquia (KMB/180)
 Cell Structure and Function (KMB/914)
 Essays in Omics & Biotechnology (KMB/918)
 Courses evaluation (FPR/914)

Fundamental Human Genetics (KMB/932)

Epigenetics & Regulation of Gene Expr. (KMB/618)
 Molecular Immunology G1 (KME/087E)
 Molecular Physiology and Metabolism (KMB/924)
 Structural Bioinformatics (KMB/927)
 Advanced Methods of Mol. Biology 2 (KMB/602E)

Practical Computing for Biologists II G2 (KMB/939)

2nd Winter Semester

Master thesis, Practical part (KMB/881E)
 Courses evaluation (FPR/914)


Clinical Genetics & Genomics (KMB/915)
 Diagnosis of Human Disease (KMB/917)


Developmental Biol. - Mol. Perspective (KMB/916)
 Cytogenomics G1 (KMB/935)


2nd Summer Semester

Master thesis, Practical part (KMB/881E)
 Genetics – Colloquia (KMB/180)
 Courses evaluation (FPR/914)

Molecular mechanisms of disease (KMB/923)
 Trends in Biomedicine (KME/744)

 Core courses (common to all): To complete the block, you need to pass 20 subjects.

 Obligatory courses: To complete the block, you need to pass 5 subjects

 Obligatory elective courses: To complete the block, you need to obtain ≥ 10 credits of G1, and 1 subject out of G2