

Functional Genetics and Bioinformatics: **Molecular Cell Biology and 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 (KMB/925) G2

*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)

Epigenetics & Regulation of Gene Expr. (KMB/618)
 Advanced Methods of Mol. Biology 2 (KMB/602E)
 Molecular Physiology and Metabolism (KMB/924)

Thermodynamics of Biomolecular Sys. (UCH/012E)
 Structural Biochemistry (UCH/014E) G1
 Evolutionary Genetics (KMB/221E)

Practical Computing for Biologists II (KMB/939) G2

2nd Winter Semester

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

Developmental Biol. - Mol. Perspective (KMB/916)


Bioenergetics (KEBR/631) G1
 Cytogenomics (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)

Introduction to Virology (KMB/910) G1

 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