

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)
Practical Computing for Biologists (KMB/925)
Bioinformatics for Biologists (KMB/615E)
The New Statistics for Exp. Biologists (KMB/929)
Bioethics (KMB/913)
Masters Thesis Assignment (KMB/885)
Master's English Examination – TOEFL (OJZ/930)

1st Summer Semester

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

Fundamental Human Genetics (KMB/932)
Molecular Mechanisms of Disease (KMB/923)

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

2nd Winter Semester

Master thesis, Practical part (KMB/881)

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

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

2nd Summer Semester

Master thesis, Practical part (KMB/881)
Genetics – Colloquia (KMB/180)

Trends in Biomedicine (KME/744E)

Core courses (common to all): 75 credits

Obligatory courses: 22 credits

Obligatory elective courses: ≥ 10 credits