

# Functional Genetics and Bioinformatics: **Human Molecular Genetics**

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

## 1<sup>st</sup> 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/613)  
The New Statistics for Exp. Biologists (KMB/929)  
Bioethics (KMB/913)  
Masters Thesis Assignment (KMB/885)  
Master's English Examination – TOEFL (OJZ/930)

## 1<sup>st</sup> 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)

## 2<sup>nd</sup> 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)

## 2<sup>nd</sup> 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