

Functional Genetics and Bioinformatics: **Biotechnology**

(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)

Gene & Protein Engineering (UCH/020)

Molecular Physiology and Metabolism (KMB/924)

2nd Winter Semester

Master thesis, Practical part (KMB/881)

Molecular Biology & Biotechnology of Cyanobacteria (KMB/928)
Microbial Biotechnology (KBE/262E)

Industrial Enzymology (KMB/920)
Bioenergetics (KEBR/631)

2nd Summer Semester

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

Plant Biotechnology (KMB/937)
Animal Biotechnology (VURH/xxx)

Algal Biotechnology (KMB/912)
Biotechnological & Mol. Techniques in Crop Management (KMB/936)

Core courses (common to all): 75 credits

Obligatory courses: 21 credits

Obligatory elective courses: ≥ 9 credits