


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)
 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)

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


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)

Gene & Protein Engineering (KMB/938)
 Environ., Medic. and Technol. Aspects of Microbiology (UCH/780)

Molecular Physiology and Metabolism (KMB/924) G1

Practical Computing for Biologists II G2 (KMB/939)


 Obligatory courses: To complete the block, you need to pass 6 subjects

2nd Winter Semester

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

Molecular Biology & Biotechnology of Cyanobacteria (KMB/928)

Industrial Enzymology (KMB/920)
 Algal Biotechnology (KMB/912)
 Bioenergetics (KEBR/631) G1

 Obligatory elective courses: To complete the block, you need to obtain ≥ 9 credits of G1, and 1 subject out of G2

2nd Summer Semester

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

Biotechnological & Mol. Techniques in Crop Management (KMB/936)
 Plant Biotechnology (KMB/937)
 Animal Biotechnology (VURH/ANBIF)