

Functional Genetics and Bioinformatics: **Bioinformatics**

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

| 1 st Winter Semester | 1 st Summer Semester | 2 nd Winter Semester | 2 nd Summer Semester |
|--|---|--|--|
| <p>Introduction to Omics & Biotechnology (KMB/921)</p> <p>Practicals in Omics & Biotechnology (KMB/933)</p> <p>Seminars in Omics & Biotechnology (KMB/926)</p> <p>Bioinformatics for Biologists (KMB/613)</p> <p>The New Statistics for Exp. Biologists (KMB/929)</p> <p>Bioethics (KMB/913)</p> <p>Masters Thesis Assignment (KMB/885)</p> <p>Training in OSH, FS and Cybersecurity (FPR/913E)</p> <p>Courses evaluation (FPR/914)</p> <p>Master's English Examination – TOEFL (OJZ/930) *</p> <p>*can be passed anytime during the studies</p> | <p>Master thesis, Practical part (KMB/881E)</p> <p>Genetics – Colloquia (KMB/180)</p> <p>Cell Structure and Function (KMB/914)</p> <p>Essays in Omics & Biotechnology (KMB/918)</p> <p>Courses evaluation (FPR/914)</p> <p>BASH Programming (KMB/934)</p> <p>Introduction to R (KMB/922)</p> <p>Genomics (KMB/919)</p> <p>Molecular Physiology and Metabolism (KMB/924) G3</p> <p>Structural Bioinformatics (KMB/927)</p> <p>Practical Computing for Biologists II (KMB/939) G4</p> | <p>Master thesis, Practical part (KMB/881E)</p> <p>Courses evaluation (FPR/914)</p> <p>Transcriptomics and Epigenomics (KMB/930)</p> <p>Advanced data storages and analyses (UAI/504) G1</p> <p>Data Analysis in Natural Sciences (UAI/330E) G2</p> <p>Python in Data Sciences (UAI/331)</p> <p>Molecular Phylogenetics (KPA/604) G3</p> <p>Molecular Ecology (KZO/412I)</p> | <p>Master thesis, Practical part (KMB/881E)</p> <p>Genetics – Colloquia (KMB/180)</p> <p>Courses evaluation (FPR/914)</p> <p>Microbial Ecology and Genomics (KPA/172) G3</p> |
| <p>Python I (UAI/735I) G1</p> <p>Practical Computing for Biologists (KMB/925) G4</p> | | | |

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 4 subjects

Obligatory elective courses: ≥ 4 credits of G1, ≥ 4 credits of G2, ≥ 9 credits of G3, 1 subject out of G4