

Functional Genetics and Bioinformatics

Recommended courses for students enrolled in summer semester

Bioinformatics

1st Summer Semester

Master thesis, Practical part
(KMB/881)
Genetics – Colloquia
(KMB/180)
Cell Structure and Function (5 ECTS)
(KMB/914)
Essays in Omics & Biotechnology
(2 ECTS)
(KMB/918)
Practical Computing for Biologists II
(3 ECTS)
(KMB/939)

BASH Programming (4 ECTS)
(KMB/934)
Introduction to R (4 ECTS)
(KMB/922)
Genomics (6 ECTS)
(KMB/919)

Human Molecular Genetics

1st Summer Semester

Master thesis, Practical part
(KMB/881)
Genetics – Colloquia
(KMB/180)
Cell Structure and Function (5 ECTS)
(KMB/914)
Essays in Omics & Biotechnology
(2 ECTS)
(KMB/918)
Practical Computing for Biologists II
(3 ECTS)
(KMB/939)

Fundamental Human Genetics (5 ECTS)
(KMB/932)
Molecular Mechanisms of Disease
(6 ECTS)
(KMB/923)

a) Epigenetics & Regulation of Gene
Expr. (5 ECTS)
(KMB/618)
OR
b) Molecular Physiology and
Metabolism (3 ECTS) (KMB/924) and
Advanced Methods of Mol. Biology 2
(2 ECTS) (KMB/602E)

Molecular Cell Biology and Genetics

1st Summer Semester

Master thesis, Practical part
(KMB/881)
Genetics – Colloquia
(KMB/180)
Cell Structure and Function (5 ECTS)
(KMB/914)
Essays in Omics & Biotechnology
(2 ECTS)
(KMB/918)
Practical Computing for Biologists II
(3 ECTS)
(KMB/939)

Molecular Mechanisms of Disease (6
ECTS)
(KMB/923)
Epigenetics & Regulation of Gene Expr.
(5 ECTS)
(KMB/618)
Advanced Methods of Mol. Biology 2
(2 ECTS) (KMB/602E)
Molecular Physiology and Metabolism
(3 ECTS) (KMB/924)

Biotechnology

1st Summer Semester

Master thesis, Practical part
(KMB/881)
Genetics – Colloquia
(KMB/180)
Cell Structure and Function (5 ECTS)
(KMB/914)
Essays in Omics & Biotechnology
(2 ECTS)
(KMB/918)
Practical Computing for Biologists II
(3 ECTS)
(KMB/939)

Gene & Protein Engineering (4 ECTS)
(KMB/938)

a) Molecular Physiology and
Metabolism (3 ECTS)
(KMB/924)

For an overall overview of the programme [click here](#)

Core courses (common to all)

Obligatory courses

Obligatory elective courses