Master Biology / Modules

ab WS 26/27

Schwerpunkte / Focus Subjects

Biochemistry

Theoretical Modules (12 CP)

BIO-M-TM-PBE	Protein Biochemistry and Enzymology	Prof. Dr. Reinhard Sterner
BIO-M-TM-RNA	RNA Biochemistry	Prof. Dr. Gunter Meister
BIO-M-TM-RITS	RNA–Protein Interactions in Time and Space	Prof. Dr. Neva Caliskan

Practical Modules (12 CP)

BIO-M-PM-PBE	Protein Biochemistry and Enzymology	Prof. Dr. Reinhard Sterner
BIO-M-PM-RNA	RNA Biology	Prof. Dr. Gunter Meister
BIO-M-PM-SMR	Single molecule analysis of RNA-protein complexes	Prof. Dr. Neva Caliskan
BIO-M-PM-CD	Chromatin Dynamics and Nuclear Architecture	Prof. Dr. Gernot Längst
BIO-M-PM-RB	Ribosome Biogenesis	Prof. Dr. Joachim Griesenbeck Dr. Philipp Milkereit
BIO-M-PM-SB	Structural Biochemistry	Prof. Dr. Christoph Engel

Bioinformatics

Theoretical Modules (12 CP)

BIO-M-TM-BI	Bioinformatics	Prof. Dr. Till Rudack

Practical Modules (12 CP)

BIO-M-PM-BI	Sequence- and Structure-based Bioinformatics	Prof. Dr. Till Rudack

Biophysics

Theoretical Modules (12 CP)

BIO-M-TM-BP	Structural Biology/Biophysics I and II	Prof. Dr. Remco Sprangers Prof. Dr. Christine Ziegler

Practical Modules (12 CP)

BIO-M-PM-MP	Structure Biology of Membrane Proteins	Prof. Dr. Christine Ziegler
BIO-M-PM-S	Biomolecular NMR-Spectroscopy	Prof. Dr. Remco Sprangers
BIO-M-PM-PESM	Protein Engineering for Superresolution Microscopy	Prof. Dr. André Stiel

Microbiology

Theoretical Modules (12 CP)

BIO-M-TM-M	Microbiology	Prof. Dr. Dina Grohmann

Practical Modules (12 CP)

BIO-M-PM-OM	Organismic Microbiology	Prof. Dr. Dina Grohmann
BIO-M-PM-MoM	Molecular Microbiology	PD Dr. Winfried Hausner

Genetics

Theoretical Modules (12 CP)

BIO-M-TM-G	Genetics	Prof. Dr. Wolfgang Seufert Prof. Dr. Frank Sprenger

Practical Modules (12 CP)

BIO-M-PM-CDT	Regulation of Cell Division and mRNA Translation	Prof. Dr. Wolfgang Seufert
BIO-M-PM-CDD	Regulation of Cell Division in Drosophila	Prof. Dr. Frank Sprenger

Epigenetics

Theoretical Modules (12 CP)

BIO-M-TM-EG	Epigenetics	Prof. Dr. Gernot Längst

Practical Modules (12 CP)

BIO-M-PM-CD	Chromatin Dynamics and Nuclear Architecture	Prof. Dr. Gernot Längst
BIO-M-PM-CEG	Computational Epigenetics	Dr. Uwe Schwartz

Molecular Human Biology

Theoretical Modules (12 CP)

BIO-M-TM-MH	Molecular Human Biology	Prof. Dr. Ernst Tamm Prof. Dr. Silke Härteis

Practical Modules (12 CP)

BIO-M-PM-HACB	Human Anatomy - Cell Biology	Prof. Dr. Ernst Tamm Prof. Dr. Silke Härteis
BIO-M-PM-HAAM	Human Anatomy - Animal Models	Prof. Dr. Ernst Tamm PD Dr. Rudolf Fuchshofer

Neurobiology

Theoretical Modules (12 CP)

BIO-M-TM-N	Neurobiology	Prof. Dr. Inga Neumann

Practical Modules (12 CP)

BIO-M-PM-MNB	Molecular Neurobiology of Behaviour	Prof. Dr. Inga Neumann Prof. Dr. Oliver Bosch
BIO-M-PM-NP	Neurophysiology	Prof. Dr. Veronica Egger
BIO-M-PM-DN	Drosophila Neurogenetics	Prof. Dr. Björn Brembs
BIO-M-PM-SN	System neurosciences in stress neurobiology	Prof. Dr. Simon Chang

Cell and Developmental Biology

Theoretical Modules (12 CP)

BIO-M-TM-CDB	Cell and Developmental Biology	Prof. Dr. Thomas Dresselhaus, N.I

Practical Modules (12 CP)

BIO-M-PM-MCDP	Molecular Cell and Developmental Biology of Plants	Prof. Dr. Thomas Dresselhaus
BIO-M-PM-DN	Drosophila Neurogenetics	Prof. Dr. Björn Brembs

Cellular Plant Biochemistry and Genetics

Theoretical Modules (12 CP)

BIO-M-TM-CPBG	Cellular Plant Biochemistry and Genetics	Prof. Dr. Thomas Dresselhaus Prof. Dr. Klaus Grasser

Practical Modules (12 CP)

BIO-M-PM-MCDP	Molecular Cell and Developmental Biology of Plants	Prof. Dr. Thomas Dresselhaus
BIO-M-PM-PB	Plant Biotechnology	Prof. Dr. Thomas Dresselhaus
BIO-M-PM-MBP	Molecular Biology and Biochemistry of Plants	Prof. Dr. Klaus Grasser
BIO-M-PM-PRNABT	Plant RNA Biotechnology	Prof. Dr. Aline Koch

Molecular Ecology and Conservation Genetics

Theoretical Modules (12 CP)

BIO-M-TM-MECG	Molecular Ecology and Conservation Genetics	Prof. Dr. Christoph Reisch

Practical Modules (12 CP)

BIO-M-PM-MECG	Molecular Ecology and Conservation Genetics	Prof. Dr. Christoph Reisch

Evolutionary and Systematic Botany

Theoretical Modules (12 CP)

BIO-M-TM-ESB	Evolutionary and Systematic Botany	Prof. Dr. Christoph Oberprieler

Practical Modules (12 CP)

BIO-M-PM-ESB	Evolutionary and Systematic Botany	Prof. Dr. Christoph Oberprieler

Theoretical Ecology and Ecological Data Science

Theoretische Ökologie und ökologische Data Science

Theoretical Modules (12 CP)

BIO-M-TM-TE	Theoretical Ecology and Ecological Data Science	Prof. Dr. Florian Hartig

Practical Modules (12 CP)

BIO-M-PM-TE	Theoretical Ecology and Ecological Data Science	Prof. Dr. Florian Hartig

Molecular Ecology and Evolutionary Biology of Biotic Interactions

Theoretical Modules (12 CP)

BIO-M-TM-EEBI	Evolutionary Ecology of Biotic Interactions	Prof. Dr. Lena Wilfert PD Dr. Eva Schultner

Practical Modules (12 CP)

BIO-M-PM-MEEBI	Molecular Ecology and Evolutionary Ecology of Biotic In	Prof. Dr. Lena Wilfert
BIO-M-PM-MEESI	Molecular Ecology and Evolutionary Biology of Social In	PD Dr. Eva Schultner
BIO-M-PM-CE	Chemical Ecology	PD. Dr. Tamara Pokorny
BIO-M-PM-IMI	Molecular Ecology of Insect-Microbe Interactions	Dr. Christoph Kurze

Conservation Biology and Biodiversity

Theoretical Modules (12 CP)

BIO-M-TM-CBB	Conservation biology and biodiversity	Prof. Dr. Eva Knop

Practical Modules (12 CP)

BIO-M-PM-CBB	Conservation biology and biodiversity	Prof. Dr. Eva Knop

Nebenfächer / Minor Subjects

Human Genetics

Theoretical Modules (12 CP)

BIO-M-TM-HG	Human Genetics	Prof. Dr. Dr. med. Davor Lessel

Practical Modules (12 CP)

BIO-M-PM-HG	Human Genetics	Prof. Dr. Dr. med. Davor Lessel

Immunology

Theoretical Modules (12 CP)

BIO-M-TM-I	Immunology	Prof. Dr. Uwe Ritter

Practical Modules (12 CP)

BIO-M-PM-I	Immunology	Prof. Dr. Uwe Ritter

Medical Microbiology

Theoretical Modules (12 CP)

BIO-M-TM-MeM	Medical Microbiology	Prof. Dr. André Gessner

Practical Modules (12 CP)

BIO-M-PM-MeM	Medical Microbiology	Prof. Dr. André Gessner

Cognitive and Translational Neurobiology

Theoretical Modules (12 CP)

BIO-M-TM-CTN	Cognitive and Translational Neurobiology	Prof. Dr. Christian Wetzel Prof. Dr. Veronica Egger

Practical Modules (12 CP)

BIO-M-PM-CTN	Cognitive and Translational Neurobiology	Prof. Dr. Christian Wetzel