



Welcome to the Master programs in Biology



Master programs in Biology

M.Sc. Cellular and Molecular Biology of Plants (25) *Coordinator: Prof. Ulrike Zentgraf*

M.Sc. Evolution & Ecology (25) *Coordinator: Prof. Nico Michiels*

M.Sc. Microbiology (25) *Coordinator: Dr. Lisa Bleul*

M.Sc. Molecular Cell Biology and Immunology (32) *Coordinator: Dr. Sven Hülsmann*

M.Sc. Neurobiology (15) *Coordinator: Dr. Jan Grewe*



Master programs in Biology (from WiSe 24/25 on)

M.Sc. Cellular and Immunological Biosciences CIB (40)

Coordinator: Dr. Sven Hülsmann/Farid El-Kasmi

M.Sc. Microbiology and Infection Biology MIB (25) *Coordinator: Dr. Lisa Bleul*

M.Sc. Biodiversity, Ecology and Evolution BEE(25) *Coordinator: Prof. Nico Michiels*

M.Sc. Neurobiology NEU(15) *Coordinator: Dr. Jan Grewe*

“Twin Master”



Master programs in Biology: General rules

- Regular length of course: 4 semesters
(can be extended to a maximum of **9** semesters)
- 120 credit points (ETCS)
- up to 30 optional credits (=120 + 30)
- up to three attempts per exam
- „no show“ or „drop out late“ in a class: **5,0 (fail)**



Master programs in Biology: General rules

Required elective modules biology (Wahlpflichtbereich Biologie):

- **18 cps**
- **any** class from **any** course at Department of Biology (incl. Human Genetics, Parasitology, Virology at Faculty of Medicine or Ethics)
- if these 18 cps are taken exclusively in either Human Genetics, Parasitology, Virology or Ethics there will be a special note in the final diploma:
e.g. „Master of Science in Microbiology with supplementary subject Human Genetics

interdisciplinary master's module (Fächerübergreifendes Mastermodul):

- **12 cps**
- **any** class at University of Tübingen (except Sports Science and Medicine)
- no guarantee for admission to non-Biology classes, admission will depend on the responsible professors: so just ask



Master programs in Biology: General rules

Masterarbeit/Master thesis:

- **30 cps**
- usually to be done in the Master program
- upon prior consultation with the program coordinator:
in any other Master program of Biology
- Ethics, Human Genetics, Virology or Parasitology
- English or German
- Prerequisite: at least 60 cps



Master programs in Biology:

"How To Manage Your Studies - Academic skills workshop for international students."

Events for international students (in English)

Take a breath!

Fri 12 April 2024, 9 am

Critical reading and note making

Fri 03 May 2024, 10 am

Time and exam management

Fri 17 May 2024, 9 am

Critical thinking

Fri 07 June 2024, 9 am

Learning impulse: Interval learning

Fri 14 June 2024, 10 am

Self-management and goal focus

Fri 21 June 2024, 10 am

Final steps of your studies

Fri 28 June 2024, 9 am

Critical thinking

Fri 05 July 2024, 9 am

<https://uni-tuebingen.de/studium/beratung-und-info/zentrale-studienberatung/angebote-fuer-studierende/studieren-mit-plan/managing-your-studies/>



Master programs in Biology:

Study abroad!

Partners of Dept. of Biology

33 European universities
4 Brazilian universities

Partners of University of Tübingen

75 universities
35 countries

Additional Infos

<http://www.uni-tuebingen.de/de/16337>

<http://www.uni-tuebingen.de/de/890>





Master programs in Biology:

Study abroad!

Partners of Dept. of Biology
33 European universities

Start early!!!

Selection procedure only once a year!

Deadline: 31^{rst} of January

Contact person: Matthias Stoll

beratung@biologie.uni-tuebingen.de

<https://t1p.de/6pj2c>

Additional Infos:

<http://www.uni-tuebingen.de/de/16337>



Erasmus+



<https://uni-tuebingen.de/en/international/studying-abroad/ways-to-go-abroad/>



Master programs in Biology:

Study abroad!

Erasmus+ Internship

Search for opportunities



Erasmus+

apply via KOOR/BEST

(Hochschule Karlsruhe, <https://www.h-ka.de/koor/erasmus-praktikum>)

all EU-countries

plus Iceland, Liechtenstein, Norway, Turkey, and Northern Macedonia

60-360 days no deadline for applications

grant: 400 €/month (minimum)



Master programs in Biology:

Join the student council (Fachschaft)!



Lots of fun...

Meet nice people...

Organize events...

fsbio.uni-tuebingen.de

Meetings: Tuesday evening, E3P32



Master program ZMBP

Zelluläre und Molekulare Biologie der Pflanzen
Cellular and Molecular Biology of Plants

Coordinator: Ulrike Zentgraf





ZMBP



Zentrum für **M**olekular**B**iologie der **P**flanzen (ZMBP)
(Center for Plant Molecular Biology)



Introduction ZMBP

➤ Multidisciplinary research center with

9 professors from the Biology department

2 professors from the Biochemistry department

1 professor for Cellular Nanoscience



➤ 6 departments with flat organizational structure

➤ 18 independent research groups, 13 senior and 5 junior groups

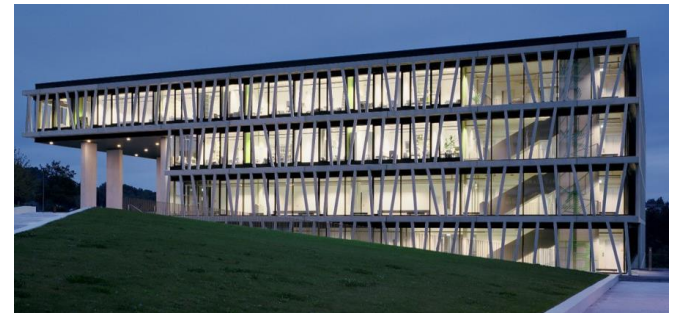
➤ central service units & management

➤ International Scientific Advisory Board (ISAB) supervising the quality of both, research and education



Facts and Numbers

- Staff:** approx. 160
- Ranking:** DFG: Top 10 in plant research in Germany
- Output:** more than 500 scientific publications in international journals including Cell, Nature, Science, PNAS, Plant Cell etc. (2010-2020)
- 3rd party funding:** approx. EUR 3.5 Mio. /year; CRC 1101
- Teaching:** BEd /BSc Biology, Bsc/Master Biochemistry, Bsc/Master Nanoscience, Master ZMBP, PhD Program
- Space:** 6 Floors





The 6 departments are organized as

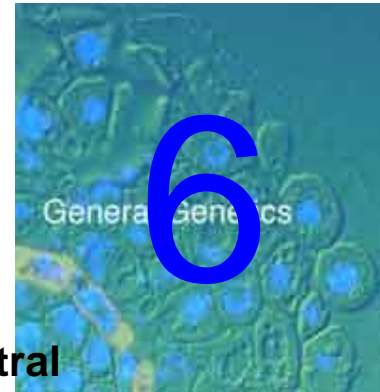
Independent Research Groups



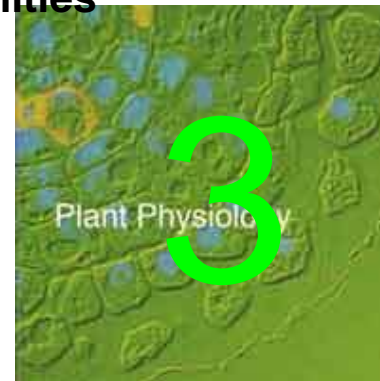
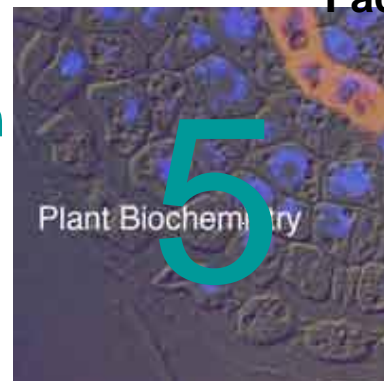
RG Eric Schäffer

- RG Lahaye
- RG Zentgraf
- RG Gronnier
- RG Mosca

- RG Harter
- RG Oecking
- RG Wolf
- RG Monte
- RG El Kasmi



Central
Facilities



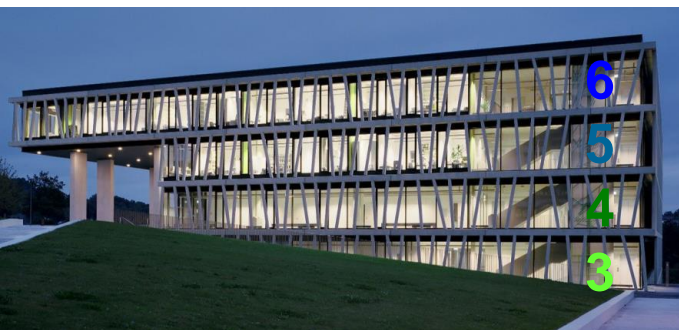
- RG Jürgens
- RG Timmermans
- RG Bayer (Heis.)
- RG Margot Smit

➤ **RG Kemen**
(bridge professorship)

- RG Nürnberger
- RG Lozano-Durán
- RG Kemmeling

Central facilities:

- | | |
|----------------|--------------------------|
| Analytics | FACS |
| Transformation | Plant cultivation |
| Microscopy | Administration |
| IT-Unit | Workshop and engineering |





PBC

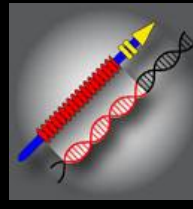
Research group Lozano-Duran.



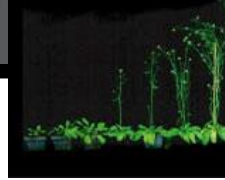
Research Group Nürnberger



Research Group Lahaye



Project Group Zentgraf



GG

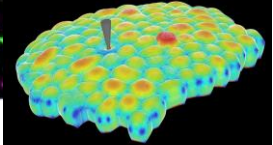
Research Group

Gronnier

500 nm

500 nm

Research Group Mosca

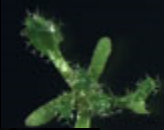


Research Group Kemen



MIPE

Research Group
Timmermans



Research group Jürgens



Research group Bayer

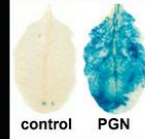
Research group Smit



DG

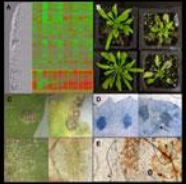
PP

Research Group Nürnberger
Group Gust

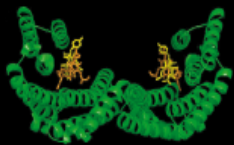


control PGN

Research Group Nürnberger
Group Kemmerling



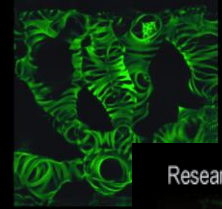
Research Group Oecking



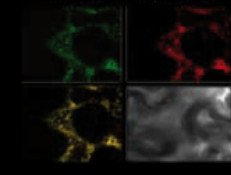
Research Group
Monte



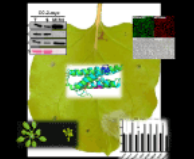
Research Group Wolf



Research Group Harter



Research Group El Kasmi



Z | MBP
web site

www.zmbp.uni-tuebingen.de



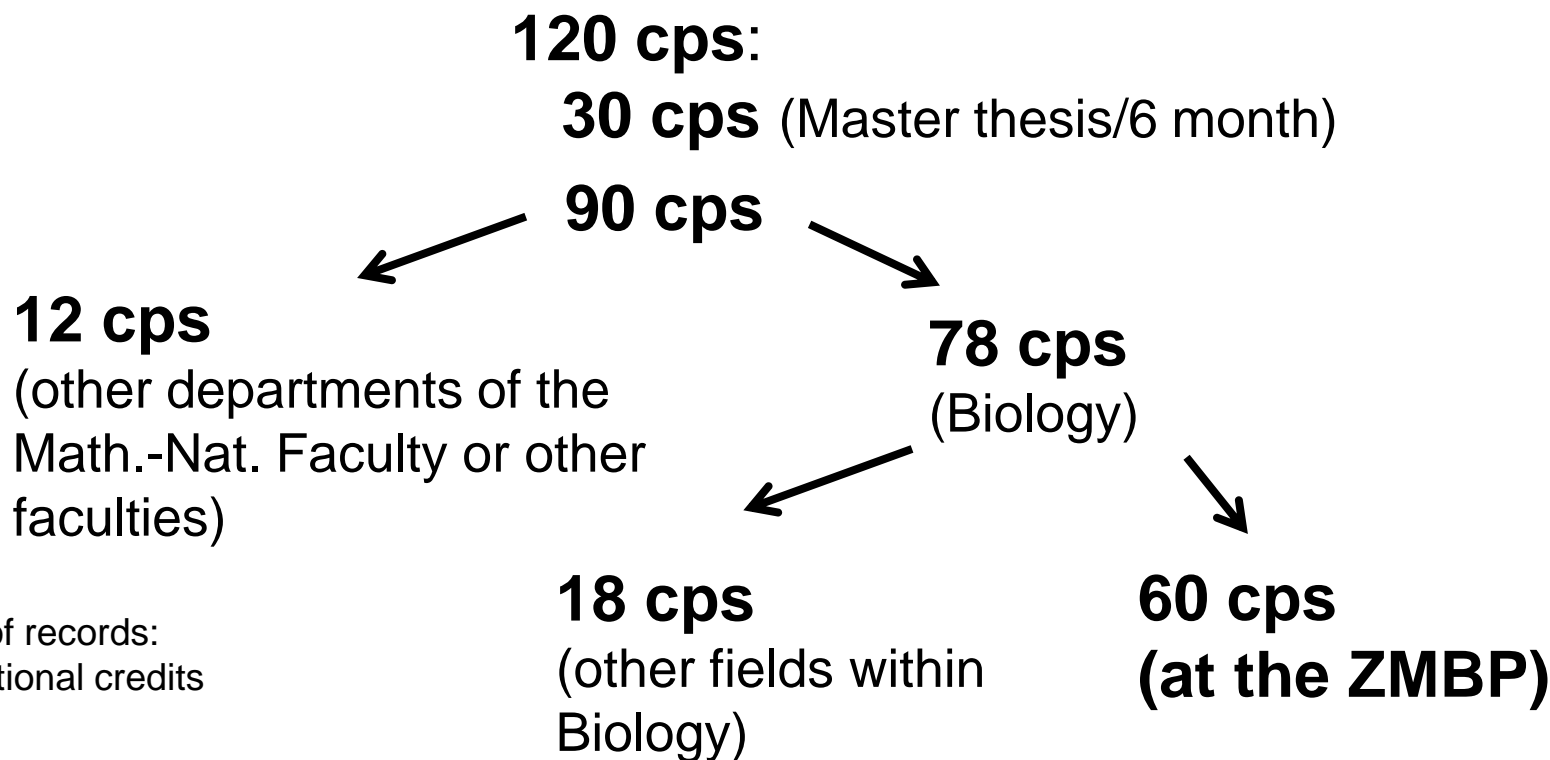
Master programm ZMBP:

Zelluläre und molekulare Biologie der Pflanzen

Cellular and molecular biology of plants

Coordinator: Ulrike Zentgraf (ulrike.zentgraf@zmbp.uni-tuebingen.de)

2 years/4 semester terms



Transcript of records:
up to 30 optional credits
(=120 + 30)

Regular length of course: 4 semesters (can be extended to a maximum of 9 semesters)



ZMBP offers 4 different kinds of modules

Theoretical module (Schienenmodul) 6 cps

Lecture	20-28 h
Seminar /Exercises	10 h

Practical module 6 cps

Practical course	approx. 40 h
Seminar	5 h
Progress report	5 h

Advanced level course 12 cps

Small project	approx. 120-160 h
Seminar /Exercise	5 h
Progress report	5 h

Container module 6/12 cps

Combination of different independent, small courses (tracking sheet, no grades!!!)

Soft skills are integrated:

Team work
Experimental or project design/
Poster
Abstracts/Publicationen
Presentation
Proposals
Reviews



AG 4014 Theor. module (Current topics)	EG 4016 Theor. module (Current topics)	PP 4018 Theor. module (Current topics)	BC 4026 Theor. module (Current topics)
AG 4015 Pract. module transformation- systems	EG 4017 Pract. module development/ life cell imaging	PP 4019 Pract. module protein/protein interaction	BC 4027 Pract. module plant/pathogen interaction
AG 4020 Advanced level module 12 cps	EG 4025 Advanced level module 12 cps	PP 4031 Advanced level module 12 cps	BC 4028 Advanced level module 12 cps

CF
Themenmodul
(Current topics)

CF
Pract. module
Different topics

grading

**P=Mandatory:
24 cps**

**WP= Choice: 12 cps
(2 out of 4)**

(CF) Container 4159 Methods 12 cps	Container 4160 Molecular signalling 12 cps	Container 4123 ZMBP I 6 cps	Container 4142 ZMBP II 6 cps
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No grading !
**We offer
~160 cps**



ZMBP Tracking sheets for containers

EBERHARD KARLS
**UNIVERSITÄT
TÜBINGEN**

Mathematisch-
Naturwissenschaftliche
Fakultät
ZMBP

4159 Methodenmodul Zelluläre und Molekulare Biologie der Pflanzen (12 LP)
Laufzettel

Name: _____ Matrikelnummer: _____ Studienfach: _____

Veranstaltung und Semester	Dozent	CP	Note	Unterschr.Dozent (mit Datum)	Abteilungs- stempel
			X		
			X		
			X		
			X		
			X		

Notendurchschnitt: _____ weitergeleitet am: _____

**max. 36
ETCS
without
grades**

**Website
>ZMBP
>Teaching
>Downloads**

- Maximum flexibility by container modules
- No grades! Only **passed** or **not passed**



Find all opportunities on Alma

The screenshot shows the Alma system interface for Eberhard Karls Universität Tübingen. The top navigation bar includes a search bar, a 'Browse menu' dropdown, and a 'Change role' dropdown set to 'Department-Admin Center for Plant Molecular Biology'. Below the navigation bar, a menu of tabs is visible: Home, Administration, Course organization, Achievements, **Studies offered**, Curriculum Designer, and Organisation. The 'Studies offered' tab is active, displaying a list of courses. The course 'Compulsory Modules in Cellular and Molecular Biology of Plants' is highlighted in yellow. Other courses listed include M.Sc. Microbiology (Version 2015), M.Sc. Neurobiology (Version 2015), M.Sc. Cellular and Molecular Plant Biology (Version 2015), MSc-ZMBP-Info (2015) Information and Orientation, Required Elective Modules, ZMBP Section 1, Required Elective Modules, ZMBP Section 2, Required Elective Modules in Biology, 6010 Interdisciplinary Master's Module, Supplementary Subject Ethics in the Life Sciences, Supplementary Subject Human Genetics, Supplementary Subject Parasitology, List of Courses for Biology, Chemistry, Geosciences, Geography, Computer Science, and Cognitive Science. The Windows taskbar is visible at the bottom of the screen.

➤ University calendar: organized according to the examination rules



Find all opportunities on Alma

Navigation bar: Home | Administration | Course organization | Achievements | **Studies offered** | Curriculum Designer | Organisation

Search bar: (Browse menu) | Change role: Department-Admin Center for Plant Molecular Biology

- ▶ M.Sc. Molecular Cell Biology & Immunology (Version 2015)
- ▶ M.Sc. Microbiology (Version 2015)
- ▶ M.Sc. Neurobiology (Version 2015)
- ▼ M.Sc. Cellular and Molecular Plant Biology (Version 2015)
 - ▶ MSc-ZMBP-Info (2015) Information and Orientation
 - ▼ Compulsory Modules in Cellular and Molecular Biology of Plants
 - ▶ 4014 Current Topics in General Genetics
 - ▶ 4016 Current Topics in Developmental Genetics
 - ▶ 4018 Current Topics in Plant Physiology
 - ▶ 4026 Comparative Innate Immunity in Animals and Plants
 - ▼ Required Elective Modules, ZMBP Section 1
 - ▶ 4015 Molecular Methods in General Genetics
 - ▶ 4019 Experimental Plant Physiology
 - ▶ 4027 Experimental Cell Biochemistry
 - ▶ 4017 Molecular and Cellular Principles of Plant Development
 - ▶ Required Elective Modules, ZMBP Section 2
 - ▶ Required Elective Modules in Biology
 - ▶ 6010 Interdisciplinary Master's Module
 - ▶ Supplementary Subject Ethics in the Life Sciences



Find all opportunities on Alma

Startseite

Administration

Lehrorganisation

Leistungen

Studienangebot

Curriculum Designer

Organisation

▼ Wahlpflichtbereich Zelluläre und molekulare Biologie der Pflanzen 2

▶ 4020 Bereichsmodul Allgemeine Genetik

▶ 4025 Bereichsmodul Entwicklungsgenetik

▶ 4028 Bereichsmodul Pflanzenbiochemie

▶ 4031 Bereichsmodul Pflanzenphysiologie

▼ MSc-ZMBP-4123-4142-4159-4160 (2015) Veranstaltungen: Wahlpflichtbereich Zelluläre und molekulare Biologie der Pflanzen 2

▶ Bio-3172 Transgene Pflanzen: Gefahren für Mensch und Umwelt oder Chance des 21sten Jahrhunderts? - Seminar

▶ BCH-1170/Bio-4027 Praktikum Zellbiochemie und Signalling - Blockveranstaltung

▶ Bio-4030-F Exkursion: Schwedisch-Lapland - Exkursion

▶ Bio-4135 Synthetische Biologie - Blockveranstaltung

▶ Bio-ZMBP Moderne Methoden der Bioanalytik - Blockveranstaltung

▶ Bio-ZMBP Anwendung der Elektronenmikroskopie in Zellbiologie, Mikrobiologie und Virologie - Blockveranstaltung

▶ Bio-ZMBP Einführung in Fluorescence Lifetime Imaging FLIM - Vorlesung/Übung

▶ Bio-ZMBP Konfokale und Epi-Fluoreszenzmikroskopie: Einführung mit Übungen - Vorlesung/Übung

▶ Bio-ZMBP Moderne Methoden der Durchflusszytometrie - Blockveranstaltung

▶ Bio-ZMBP/NANO Theoretische Grundlagen moderner molekularbiologischer, biochemischer und analytischer Methoden - Vorlesung

▶ Bio-EG Scientific Writing - Vorlesung/Übung

▶ Bio-ZMBP Einführung in die Superresolution-Mikroskopie - Blockveranstaltung



Example 1

1. Sem (SS):

PP 6 cps
Themenm.
(Current topics)

CF
Methods mod.
Microscopy 1
6 cps ★

GG
Practical modul
Praxismodul
6 cps

GG
Advanced level
Bereichsmod.
12 cps

30 cps

2. Sem. (WS):

DG 6 cps
Themenmodul
(Current topics)

BC 6 cps
Themenmodul
(Current topics)

DG
Practical modul
Praxismodul
6 cps

BC
Practical modul
Praxismodul
6 cps

CF ★
Themenmodul
(Curr. methods)
6 cps

30 cps

3. Sem (SS):

GG 6 cps
Themenmodul
(Current topics)

DG
Advanced level
Bereichsmod.
12 cps

BC
Advanced level
Bereichsmod.
12 cps

30 cps

4. Sem (WS):

Master thesis (30 cps)

★ Container mod./without grade

36 cps

Example 2

1. Sem (SS):

PP 6 cps
Themenmodul
(Current topics)

CF 6 cps ★
Themenmodul
(Curr. methods)

CF ★
Methods mod.
Microscopy 1
6 cps

PP
Practical modul
Praxismodul
6 cps

PP 9 cps ★
Excurs. Lapland

33 cps

2. Sem. (WS):

DG 6 cps
Themenmodul
(Current topics)

BC 6 cps
Themenmodul
(Current topics)

DG
Practical modul
Praxismodul
6 cps

DG
Advanced level
Bereichsmod.
12 cps

30 cps

3. Sem (SS):

GG 6 cps
Themenmodul
(Current topics)

CF ★
Methods mod.
Microscopy 2
3 cps

BC
Practical modul
Praxismodul
6 cps

BC
Advanced level
Bereichsmodul
12 cps

27 cps

4. Sem (WS):

Master thesis (30 cps)

★ Container mod./without grade

30 cps

Example 3

1. Sem (SS):

PP 6 cps
Themenmodul
(Current topics)

PP
Practical modul
Praxismodul
6 cps

GG
Practical modul
Praxismodul
6 cps

CF ★
Methods
mod. FACS
6 cps

PP 3 cps
Transgenics ★



30 cps

2. Sem. (WS):

BC 6 cps
Themenmodul
(Current topics)

DG 6 cps
Themenmodul
(Current topics)

CF 6 cps ★
Themenmodul
(Curr. methods)

CF ★
Methods modul
Analytics
6 cps

DG
Practical Modul-
Praxismodul
6 cps

30 cps

3. Sem (SS):

GG 6 cps
Themenm.(Curr.
top)

CF ★
Methods mod.
Microscopy 1
6 cps

Evolution/
Ecology
6 cps

Ethics
6 cps

Philosophy
6 cps

Wahlmodul Biologie

Fächerübergreifend

30 cps

4. Sem (SS):

Master thesis (30 cps)



Container mod./without grade

30 cps



Master ZMBP

Master ZMBP

Semester	CP	Modules and study areas				
1.	30	Molekularphysiologie der Pflanzen/Current topics in Plant Physiology (6CP)	Wahlpflichtmodule des Wahlpflichtbereichs ZMBP 1/ Required Elective Modules 1 (12 CP)	Wahlpflichtmodule des Wahlpflichtbereichs ZMBP 2/ Required Elective Modules 2 (24 CP)	Wahlpflichtmodule des Wahlpflichtbereich Biologie/ Required elective Modules Biology (18 CP)	Fächer- übergreifendes Wahlpflichtmodul / Interdisciplinary Master's Module (12 CP)
		Comparative Innate Immunity in animals and Plants (6 CP)				
2.	30	Aktuelle Themen der Zell- und Entwicklungsbiologie/Current Topics in Developmental Genetics (6 LP)				
3.	30	Aktuelle Themen der Allgemeinen Genetik/Current Topics in General Genetics (6 CP)				
4.	30	Master's Thesis (30 CP)				



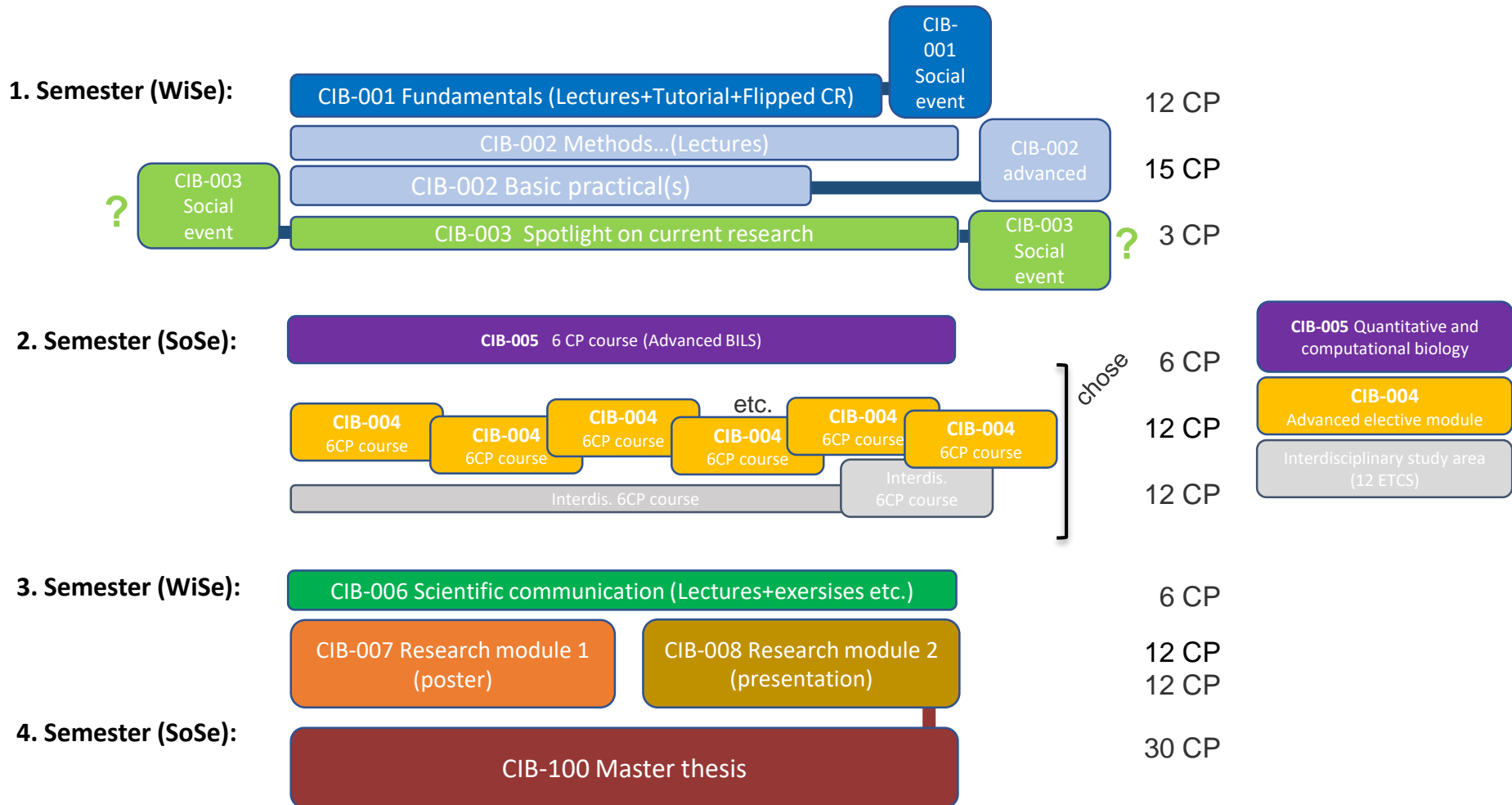
CIB

New Master of Science:
Cellular and Immunological Biosciences (CIB)
- from single cells to plants, animal, and humans -

Semester	CP	Modules and study areas		
1.	30	Fundamentals of cellular and immunological biosciences (12 CP)	Methods in cellular and immunological biosciences (15 CP)	Spotlights on current research topics (3 CP)
2.	30	Advanced elective modul (12 CP)	Quantitative and computational biology (6 CP)	Interdisiplinary study area (12 CP)
3.	30	Research module 1 (12 CP)	Research module 2 (12 CP)	Scientific communication (6 CP)
4.	30	Master's Thesis (30 CP)		

Master CIB			
Module Organizers	Module number and name	CPs (ECTS)	Start
Tasulla Proika-Cezanne	CIB-001 Fundamentals of CIB	12	WiSe 24/25
Farid El Kasmi	CIB-002 Basic methods in CIB	12	WiSe 24/25
Mark Stahl/Boris Macek	CIB-002 Advanced methods in CIB	3	WiSe 24/25
Marja Timmermans	CIB-003 Spotlight on current research topics	3	WiSe 24/25
Sebastian Wolf	CIB-004 Advanced elective module	12	SoSe 2025
Sven Hülsmann	CIB-006 Scientific communications	6	SoSe 2025
Klaus Harter/Sven Nahnsen	CIB-005 Quantitative and Computational Biology	6	SoSe 2025
Rosa Lozano-Duran	CIB 007 Research module 1	12	WiSe 25/26
Rosa Lozano-Duran	CIB 008 Research module 2	12	WiSe 25/26

Overview per semester (in blocks and tracks)



Example 1

1. Sem (SS):

PP 6 cps
Themenm.
(Current topics)

GG 6 cps
Themenmodul
(Current topics)

GG
Practical modul
Praxismodul
6 cps

PP
Practical modul
Praxismodul
6 cps

30 cps

2. Sem. (WS): new Master CIB

3. Sem (SS):

30 cps

4. Sem (WS):

Master thesis (30 cps)

36 cps



Table of Master transition ZMBP> CIB

Master ZMBP				Master CIB		
Pflichtmodule/ Compulsory modules	24 CP			Last offer	New Module	first offer
Bio-4014 Aktuelle Themen der Allgemeinen Genetik/Current Topics in General Genetics	6	Ulrike Zentgraf	SoSe	SoSe2024	parts of "CIB 003 spotlight" + proposal writing	WiSe 24/25
Bio-4026/BCH-5540/ Comparative Innate Immunity in Animals and Plants	6	Rosa Lozano-Duran	WiSe	WiSe 23/24	Course of Advanced Elective (Comparative plant immunity)	SoSe2025
Bio-4016 Aktuelle Themen der Zell- und Entwicklungsbiologie/Current Topics in Developmental Genetics	6	Marja Timmermans	WiSe	WiSe 23/24	CIB 003 spotlight + paper presentation	WiSe 24/25
Bio-4018 Molekularphysiologie der Pflanzen/Current topics in Plant Physiology	6	Claudia Oecking	SoSe	SoSe2024	Course of Advanced Elective (Current topics in Plant Molecular Biology)	SoSe2025

Master ZMBP				Master CIB		
Wahlpflichtbereich 1/Required Elective Modules 1	12 CP			Last offer	New Module	first offer
Bio-4015 Molekulare Methoden der Allgemeinen Genetik	6	Thomas Lahaye/ Anett Strauß	SoSe	SoSe2024	Courses of Advanced Elective (Synthetic Biology)	SoSe2025
Bio-4027/ BCH-1170 Praktikum Zellbiochemie und Signalling	6	Andera Gust	WiSe	SoSe2024	Courses of Advanced Elective (Plant immunity)	SoSe2025
Bio-4019 Molekulare Pflanzenphysiologie I	6	Isabel Monte	SoSe	SoSe2024	Courses of Advanced Elective (Experimental Plant Molecular Biology)	SoSe2025
Bio-4017 Molekulare und zelluläre Grundlagen der Entwicklung	6	Marja Timmermans	WiSe	WiSe 23/24	Courses of Advanced Elective (Plant Development: from Stem Cell through Differentiation)	SoSe2025



Master ZMBP				Master CIB		
Wahlpflichtbereich 2/ Required Elective Modules 2	24 CP			Last offer	New Module	first offer
Bio-4020 Bereichsmodul Allgemeine Genetik	12	Ulrike Zentgraf	SoSe +WiSe	SoSe2025	Research module 1 und 2	WiSe25/26
Bio-4025 Bereichsmodul Entwicklungsgenetik	12	Marja Timmermans	SoSe +WiSe	WiSe 24/25	Research module 1 und2	WiSe25/26
Bio-4028 Bereichsmodul Pflanzenbiochemie	12	Thorsten Nürnberger	SoSe +WiSe	SoSe2025	Research module 1 und 2	WiSe25/26
Bio-4031 Bereichsmodul Pflanzenphysiologie (Wahlpflicht)	12	Klaus Harter	SoSe +WiSe	SoSe2025	Research module 1 und 2	WiSe25/26

Containermodule:

Bio-4123 Mastermodul Zelluläre und molekulare biologie der Pflanzen I	6	Coordinator: Ulrike Zentgraf			Courses of Advanced Elective/ Scientific communication	SoSe2025
Bio-4142 Mastermodul Zelluläre und molekulare biologie der Pflanzen II	6	Coordinator: Ulrike Zentgraf			Courses of Advanced Elective/ Scientific communication	SoSe2025
Bio-4159 Methodenmodul Zelluläre und molekulare Biologie der Pflanzen	12	Coordinator: Ulrike Zentgraf			Courses of Advanced Elective/ Basic methods	SoSe2025/ WiSe24/25
Bio-4160 Molekulare Signalwege in Pflanzen	12	Coordinator: Ulrike Zentgraf			Courses of Advanced Elective/ Basic methods	SoSe2025/ WiSe24/25

All courses of CIB



Courses for the Container modules

Master ZMBP					Master CIB	
Bio-ZMBP Modern Methodology in Bioanalytics - Block course	6	Mark Stahl	WiSe	WiSe23/24	none	none
Bio-ZMBP Application of Electron Microscopy in Cell Biology, Microbiology and Virology - Block course	6	Sandra Richter	WiSe	WiSe24/25	Courses of Advanced Elective	SoSe2025
Bio-ZMBP Introduction to Fluorescence Lifetime Imaging (FLIM) - Lecture/Exercise	6	Sandra Richter	SoSe +WiSe	WiSe24/25	Courses of Advanced Elective (electron microscopy)	SoSe2025
Bio-ZMBP Confocal and Epi-Fluorescence Microscopy: Introduction with Exercises - Lecture/Exercise		Sandra Richter	SoSe +WiSe	will continue		
Bio-ZMBP Modern Methodology in Flow Cytometry - Block course	6	Kenneth Berendzen	SoSe +WiSe	WiSe 2024/25	Courses of Advanced Elective (Introduction to Flow Cytometry)	SoSe2025
Bio-ZMBP/NANO Theoretical Basics of Modern Molecular Biological, Biochemical and Analytical Methods - Lecture	6	Mark Stahl	WiSe	WiSe23/24	Lecture of CIB-002+Advanced methods	WiSe 24/25
Bio-EG Scientific Writing - Lecture/Exercise	3	Marja Timmermans	SoSe +WiSe	will continue	(Scientific communication)	(SoSe2025)
Bio-ZMBP Introduction to Super-Resolution Microscopy - Block course	6	Sandra Richter	SoSe +WiSe	WiSe24/25	Courses of Advanced Elective (super resolution microscopy)	SoSe2025
Bio-ZMBP The 101 of Light Microscopy, Digital Image Acquisition and Analysis - Block course	6	Sandra Richter	SoSe	SoSe 24	Courses of Advanced Elective (light microscopy)	SoSe2025
Bio-ZMBP Nanoscale Regulation of Cellular Expansion - Block course	6	Julien Gronnier	SoSe +WiSe	SoSe 24	none	none
Bio-3172 Genetically Modified Plants: Risks and Chances - Seminar	3	Klaus Harter	SoSe	will continue		
Bio-4030-E Excursion - Swedish-Lapland - Excursion	9	Klaus Harter	SoSe	will continue		
Bio-4243 Naturräume Südwestdeutschlands - Geländepraktikum	6	Klaus Harter	SoSe	will continue		
Bio-4110 Schweizer Zentralalpen - Schatzinsel Alp Flix	3	Klaus Harter	SoSe	will continue		
Bio-4135 Synthetic Biology - Block course	6	Thomas Lahaye/ Annett Strauß	WiSe	WiSe24/25	Courses of Advanced Elective (Synthetic Biology)	SoSe2025



CIB

New Master of Science:
Cellular and Immunological Biosciences (CIB)
- from single cells to plants, animal, and humans -

Master ZMBP				Master CIB	
Wahlpflichtmodule des Wahlpflichtbereichs Biologie/Required Elective Modules Biology	18		will continue	all courses of the Master programs in biology, including all courses of CIB. <i>Supplementary subjects</i> : Human genetics, parasitology, ethics	
Fächer-übergreifendes Wahlpflichtmodul/ Interdisciplinary Master's Module	12		will continue	all courses of the University of Tübingen, including all courses of CIB	



Research oriented master program with a high fun factor



Ulrike Zentgraf, ZMBP, 6. floor, 6P22

ulrike.zentgraf@zmbp.uni-tuebingen.de

New coordinator: Farid el Kasmi, 3. floor, 3P22

Farid.el-kasmi@zmbp.uni-tuebingen.de