

Vorlesungsverzeichnis

Master of Science - Biochemistry and Molecular
Biology

Prüfungsversion Wintersemester 2016/17

Wintersemester 2026/27

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Abkürzungsverzeichnis

Veranstaltungsarten

AG	Arbeitsgruppe
B	Blockveranstaltung
BL	Blockseminar
DF	diverse Formen
EX	Exkursion
FP	Forschungspraktikum
FS	Forschungsseminar
FU	Fortgeschrittenenübung
GK	Grundkurs
HS	Hauptseminar
KL	Kolloquium
KU	Kurs
LK	Lektürekurs
LP	Lehrforschungsprojekt
OS	Oberseminar
P	Projektseminar
PJ	Projekt
PR	Praktikum
PS	Proseminar
PU	Praktische Übung
RE	Repetitorium
RV	Ringvorlesung
S	Seminar
S1	Seminar/Praktikum
S2	Seminar/Projekt
S3	Schulpraktische Studien
S4	Schulpraktische Übungen
SK	Seminar/Kolloquium
SU	Seminar/Übung
TU	Tutorium
U	Übung
UN	Unterricht
UP	Praktikum/Übung
UT	Übung / Tutorium
V	Vorlesung
V5	Vorlesung/Projekt
VP	Vorlesung/Praktikum
VS	Vorlesung/Seminar
VU	Vorlesung/Übung
W	Werkstatt
WS	Workshop

BlockSaSo Block (inkl. Sa,So)

Andere

N.N.	Noch keine Angaben
n.V.	Nach Vereinbarung
LP	Leistungspunkte
SWS	Semesterwochenstunden
	Belegung über PULS
	Prüfungsleistung
	Prüfungsnebenleistung
	Studienleistung
	sonstige Leistungserfassung

Veranstaltungsrhythmen

wöch.	wöchentlich
14t.	14-täglich
Einzel	Einzeltermin
Block	Block
BlockSa	Block (inkl. Sa)

Vorlesungsverzeichnis

Pflichtmodule

BIO-B-KM1 - State of the Art in Biochemistry and Molecular Biology							
 122617 RV - Ringvorlesungen - Kernmodul - State Of The Art							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	RV	Mi	16:15 - 17:45	wöch.	2.25.F0.01	14.10.2026	Prof. Dr. Silke Leimkühler, Prof. Dr. Katja Arndt, Prof. Dr. Elke Dittmann-Thünemann, Prof. Dr. Petra Wendler, Prof. Dr. Salvatore Chiantia
Biochemistry							
1	RV	Do	16:15 - 17:45	wöch.	2.25.F0.01	15.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. George Soultoukis
Molecular Biology and Genetics							
1	RV	Fr	14:15 - 15:45	wöch.	2.25.F0.01	16.10.2026	Dr. Michael Sauer, Prof. Dr. Markus Grebe, Prof. Dr. Salim Seyfried, apl. Prof. Dr. Jörg Fettke, Prof. Dr. Ralph Gräf
Physiology and Cell Biology							
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543311 - Ringvorlesungen zu Molecular life sciences (unbenotet)						

BIO-B-KM2 - Practical Bioinformatics

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

Vertiefungsmodul

BIO-B-VM - Advanced Research Practical

 122487 B - Advanced Research Practical - Evolutionary Biology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Ralph Tiedemann, Dr. Feng Cheng, Dr. Marisol

							Dominguez, Dr. Kirsten Boysen, Dr. Julia Canitz
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Blockveranstaltung, Zeit nach Vereinbarung.							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

122589 PR - Advanced Research Practical Cell Biology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Dr. Irene Meyer
2	PR	N.N.	N.N.	Block	N.N.	N.N.	Dr. Marianne Grafe
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

122618 PR - Advanced Research Practical Epigenetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Isabel Bäurle, Dr. Frauke Lena Garbsch
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

122636 PR - Advanced Research Practical Plant Genetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Michael Lenhard
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

122643 PR - Advanced Research Practical Enzymology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Silke Leimkühler
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

122662 PR - Advanced Research Practical Microbiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Elke Dittmann-Thünemann
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

122697 PR - Advanced Research Practical Evolutionäre Genomik							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Michael Hofreiter, Dr. Stefanie Hartmann, Dr. rer. nat. Patrick Arnold
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

122708 PR - Advanced Research Practical Molecular Biotechnology / Immunology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Katja Arndt
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

122716 PR - Advanced Research Practical Physical Biochemistry							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salvatore Chiantia, Dr. rer. nat. Anja Thalhammer
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							

Leistungen in Bezug auf das Modul

SL 543511 - Praktikum (4 Wochen) (unbenotet)

 122720 PR - Advanced Research Practical Biochemistry

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Petra Wendler

Kommentar**Voraussetzung****Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

SL 543511 - Praktikum (4 Wochen) (unbenotet)

 122740 PR - Advanced Research Practical Biopolymeranalytics

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke

Kommentar

Blockveranstaltung, Termin nach Vereinbarung(fettke@uni-potsdam.de) Ort: 2.20

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

SL 543511 - Praktikum (4 Wochen) (unbenotet)

 122805 FP - Advanced Research Practical Molecular Biology

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	EX	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Sebastian Marquardt

Raum und Zeit nach Absprache

Kommentar

RNA Biology, Gene Expression, Chromatin, Genomics

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung**

Lerninhalte
Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
SL 543511 - Praktikum (4 Wochen) (unbenotet)

 122823 PR - Advanced Research Practical Synthetic Biology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Dr. rer. nat. Lena Hochrein
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

 122839 PR - Advanced Research Practical Animal Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salim Seyfried Dr. Claudia Rödel, Dr. Juliane Münch
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	543511 - Praktikum (4 Wochen) (unbenotet)						

	122929 PR - Advanced Research Practical Plant Cell Biology						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Markus Grebe, Dr. Michael Sauer, Dr. rer. nat. René Schneider, Dr. rer. nat. Andres Eduardo Rodriguez Cubillos
	Raum und Zeit nach Absprache						
Kommentar							
Voraussetzung							

Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
SL 543511 - Praktikum (4 Wochen) (unbenotet)

Richtungsmodule

BIO-B-RM1 - Nanobiotechnology (auslaufend)
Dieses Modul gilt, aufgrund einer Änderungssatzung, nur noch für Studierende, die das Modul vor dem 01.04.2025 begonnen haben. Das Modul läuft spätestens am 31.03.2027 aus.

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

BIO-B-RM2 - Cellular Signal Transduction							
	122651 V - Cellular Signal Transduction						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	16:15 - 17:45	wöch.	2.25.B2.01	13.10.2026	apl. Prof. Dr. Gaby-Fleur Bøl, Dr. Francisco Garcia Dr. Meriem Ouni
Kommentar							
The corresponding seminar takes place during summer term.							
For the Richtungsmodul BIO-B-RM2 a 6-week practical is offered as a separate course.							
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	543711 - Vorlesung und Seminar (unbenotet)						

	122652 PR - Cellular Signal Transduction 6-week practical						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Dr. Meriem Ouni, apl. Prof. Dr. Gaby-Fleur Bøl, Dr. Francisco Garcia
Kommentar							
Voraussetzung							
Literatur							

Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
SL 543712 - Praktikum (6 Wochen) (unbenotet)

BIO-B-RM3 - Evolutionary Genomics (Evolution across Scales module D)

 122608 VU - Bioinformatics of Biological Sequences / Evolutionary Genomics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.F1.01	13.10.2026	Dr. Stefanie Hartmann
1	U	Di	10:15 - 11:45	wöch.	2.70.0.01	13.10.2026	Dr. Stefanie Hartmann

Kommentar

For the computer labs of this course, you will need an account on the university's HPC cluster. This account is tied to your university account, so you can only apply for the cluster account once you are enrolled and have your university ID.

- Please generate and activate your ssh key-pair as described here: https://docs.hpc.uni-potsdam.de/overview/getting_access.html (Note: this site is only available from within the university's network. From anywhere and to get started, see <https://www.uni-potsdam.de/de/zim/angebote-loesungen/hpc>). Please accept the default names for the keys (i.e., id_ed25519 and id_ed25519.pub)!
- Copy the key-pair to a USB flash drive and bring it to the first computer lab. Note: the USB drive with your ssh keys, the folder(s) in which you're storing them, and the files of the keys should not have spaces in them. Special symbols and umlauts are a bad idea as well. Please rename files and folders accordingly.
- To activate your account and join the "seqbioinf" group on the cluster, you'll need a password; this will be announced during the first computer lab.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

SL 543811 - Bioinformatik biologischer Sequenzen/Evolutionäre Genomik (unbenotet)

 122698 B - Analysis of high-throughput sequencing data							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	09:00 - 17:00	Block	2.25.D2.02	15.02.2027	Dr. Christian Kappel
1	B	N.N.	09:00 - 17:00	Block	2.25.D2.01	22.02.2027	Dr. Christian Kappel

Kommentar**Voraussetzung****Literatur**

Leistungsnachweis

Bemerkung

High-Throughput Sequencing (HTS) - Block Course 2027

This hands-on course will be offered over a three-week period, from **15 February to 5 March 2027**, with sessions taking place daily from **9:00 a.m. to 5:00 p.m.**

Active participation is required in at least **9 of the 15 sessions offered**. The course is normally designed as a two-week course. However, because it is open to students from several Master's programmes, the 2027 edition will be offered as a three-week trial format to enable broader and more inclusive participation.

During this period, most lectures will be offered twice, giving students greater flexibility to attend all lectures and complete the practical course programme.

Students are strongly encouraged to attend one of the preparatory meetings. At least three meeting dates will be announced separately, and remote participation via Zoom will be possible.

Students are strongly encouraged to attend one of the preparatory meetings, at least three of which will be announced there. Remote participation via Zoom will be possible.

The course will be offered in hybrid format:

- On-site: Computer pools D2.01 and D2.02, House 25, University of Potsdam (Golm Campus)
- Online: via Zoom (Meeting ID: 686 6154 6081, Passcode: 06444769)

Students who are also participating in the Bioimaging Practical Week may attend the same sessions. However, attendance at an overlapping session may not be counted towards the participation requirements of both courses.

Preliminary exam dates (subject to change, as of 31 July 2026)

- Tuesday, DD Month 2027, 10:30 to 12:00
- ..
- ..

Preparatory Meetings (Information & Discussion)

You are welcome to join any of the following Zoom meetings (Meeting ID: 686 6154 6081, Passcode: 06444769) if you would like to learn more about the course. Attendance is optional.

- 1 October 2026, 12:00–1:00 pm
- 12 October 2025, 12:00–1:00 pm
- 9 November 2025, 12:00–1:00 pm

If you cannot attend but would like an additional session, please contact the lecturer.

Technical Requirements

If you participate online, you will only need a standard PC with internet access. The main tools required are:

- Web browser
- Linux terminal (on Windows you may use tools such as PuTTY or MobaXTerm, Home Edition).

Some prior familiarity with the Linux command line will be helpful. A good beginner-friendly introduction can be found here: [Software Carpentry – The Unix Shell](#).

Lerninhalte
Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 543812 - Computerlabor Bioinformatik biologischer Sequenzen / Evolutionäre Genomik (2 Wochen) (unbenotet)

BIO-B-RM4 - Antibody-Technologies (auslaufend)
Dieses Modul gilt, aufgrund einer Änderungssatzung, nur noch für Studierende, die das Modul vor dem 01.04.2025 begonnen haben. Das Modul läuft spätestens am 31.03.2027 aus.

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

BIO-B-RM5 - Novel Cloning Technologies for Future Biotechnology (auslaufend)
Dieses Modul gilt, aufgrund einer Änderungssatzung, nur noch für Studierende, die das Modul vor dem 01.04.2025 begonnen haben. Das Modul läuft spätestens am 31.03.2027 aus.

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

BIO-B-RM6 - Animal Models in Biomedicine, Developmental Biology and Cell Physiology
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	122842 VS - Animal Models in Developmental Biology and Cell Physiology						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	12:15 - 13:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
1	S	Do	14:15 - 15:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee

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Bemerkung
Lerninhalte
Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 544111 - Animal Models in Developmental Biology and Physiology (unbenotet)

	122843 PR - Animal Models in Developmental Biology and Cell Physiology - P						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	FP	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee

Kommentar
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Bemerkung

Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
SL 544112 - Forschungspraktikum (6 Wochen) (unbenotet)

BIO-B-RM7 - Bioelectronics (auslaufend)

Dieses Modul gilt, aufgrund einer Änderungssatzung, nur noch für Studierende, die das Modul vor dem 01.04.2025 begonnen haben. Das Modul läuft spätestens am 31.03.2027 aus.

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

BIO-B-RM8 - Immunotechnology

122704 V - Molecular Biotechnology and Advanced Immunology

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	08:15 - 09:45	wöch.	2.28.0.108	14.10.2026	Dr. rer. nat. Olaf Behrsing

Advanced Immunology

1	V	Do	12:15 - 13:45	wöch.	2.25.F1.01	15.10.2026	Prof. Dr. Katja Arndt
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Molecular Biotechnology

Kommentar

Unterrichtssprache Englisch

Voraussetzung

Literatur

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

SL 544313 - Molekulare Biotechnologie (unbenotet)

122705 PR - Praktikum im Bereich Immunologie oder Biotechnologie

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Katja Arndt

Kommentar

Voraussetzung

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Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

SL 544312 - Praktikum im Bereich Immunologie oder Biotechnologie (6 Wochen) (unbenotet)

122766 S - Immunotechnologie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Fr	12:15 - 13:45	14t.	2.25.B2.01	16.10.2026	Dr. rer. nat. Olaf Behrsing
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 544311 - Immunotechnologie (unbenotet)							

BIO-B-RM9 - Synthetic Biology							
122669 B - 6-Wochen Blockpraktikum am Fraunhofer IZI-BB							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	Dr. Harald Seitz
Kommentar							
Ansprechpartner: PD Dr. Harald Seitz Fraunhofer Institute for Cell Therapy and Immunology Branch Bioanalytics and Bioprocesses (IZI-BB) Biomarker Validation and Assay Development Am Mühlenberg 13 14476 Potsdam-Golm Tel.: 0331 58187-208; harald.seitz@izi-bb.fraunhofer.de							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL 544412 - Praktikum (6 Wochen) (unbenotet)							

122710 PR - Synthetic Biology (Practical)							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Katja Arndt

Kommentar	
• internal or external practical, can be done any time • practical should focus on topics/techniques in synthetic biology, molecular biology, biotechnology, biochemistry or related disciplines • practical without labwork (e.g. in bioinformatics) is also possible • further information can be found in the moodle course "Synthetic Biology"	
Voraussetzung	
Literatur	
Leistungsnachweis	
Bemerkung	
Lerninhalte	
Kurzkommentar	
Zielgruppe	
Leistungen in Bezug auf das Modul	
SL	544412 - Praktikum (6 Wochen) (unbenotet)

BIO-B-RM10 - Modern Methods in Light Microscopy

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

BIO-B-RM11 - Physiology of Microorganisms

	122665 VS - Physiology of Microorganisms							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
1	V	Do	08:15 - 09:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann, Prof. Dr. Susanne Liebner	
1	S	Do	10:15 - 11:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann	
Kommentar								
Voraussetzung								
Literatur								
Leistungsnachweis								
Bemerkung								
Lerninhalte								
Kurzkommentar								
Zielgruppe								
Leistungen in Bezug auf das Modul								
PNL	544611 - Physiologie der Mikroorganismen (unbenotet)							

 122666 PR - Physiology of Microorganisms - practical							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Elke Dittmann-Thünemann, Prof. Dr. Susanne Liebner
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							

Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
SL 544612 - Physiologie phototropher Mikroorganismen/Physiologie extremophiler Mikroorganismen (6 Wochen) (unbenotet)

BIO-B-RM12 - Current Aspects and Methods of Plant Cell Biology

122924 VS - Current Aspects and Methods of Plant Cell Biology RM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	12:15 - 13:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
1	S	Mo	14:15 - 15:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe

Kommentar

This winter term there will most likely be NO POSSIBILITY to do this as an 11 LP/ECTS orientation module or 8 ECTS elective module, because we are moving building and I regularly offer a number of practical spaces in the summer term.

Only seminar and lecture can be offered in a combination of a 6 ECTS elective module. **FIRST MEETING will be AS INDICATED 19.10.2026 in room 2.25.B0.01 at 12.15 h.** Please, register under the elective module for 6 ECTS, in case of interest (unless you have e.g. already done a 2 or 6 week practical in a previous semester, but failed either the seminar presentation or the exam)..

The 11 LP modules will be offered in the summer term, again, due to the larger number of students who took the course as an 11 CP and 8 CP course in the summer term. The course can be offered as a 6 CP elective B-module with lecture and seminar, only, if three or more people register.

Please, contact Prof. Grebe under markus.grebe@uni-potsdam.de in case of further queries.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 544711 - Current aspects and methods of plant cell biology (unbenotet)

122928 PR - Current Aspects and Methods of Plant Cell Biology RM - practical							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Dr. rer. nat. René Schneider, Prof. Dr. Markus Grebe, Dr. Michael Sauer, Dr. rer. nat. Andres Eduardo Rodriguez Cubillos

Raum und Zeit nach Absprache

Kommentar

This winter term there will most likely be NO POSSIBILITY to do this as an 11 LP/ECTS orientation module or 8 ECTS elective module, because we are moving building and we regularly offer a number of practical spaces in the summer term.

Only seminar and lecture can be offered in a combination of a 6 ECTS elective module. FIRST MEETING will be AS INDICATED 17.10.2026 in room 2.25.B0.01 at 12.15 h. Please, register under the elective module for 6 ECTS, in case of interest (unless you have e.g. already done a 2 or 6 week practical in a previous semester, but failed either the seminar presentation or the exam)..

The 11 LP modules will be offered in the summer term, again, due to the larger number of students who took/take the course as an 11 CP and 8 CP course in the summer term. The course can be offered as a 6 CP elective B-module with lecture and seminar, if three or more people register.

A 6 CP elective B-module with lecture and seminar can be offered, only, if three or more people register.

Please, contact Prof. Grebe under markus.grebe@uni-potsdam.de in case of further queries.

Voraussetzung

Literatur

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

SL 544712 - Current aspects and methods of plant cell biology (6 Wochen) (unbenotet)

BIO-B-RM13 - Evolutionary and Population Genetics

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

BIO-B-RM13 - Evolutionary and Population Genetics (auslaufend)

Dieses Modul gilt, aufgrund einer Änderungssatzung, nur noch für Studierende, die das Modul vor dem 01.04.2025 begonnen haben. Das Modul läuft spätestens am 31.03.2027 aus.

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

BIO-B-RM15 - Metalloproteins

122645 PR - Metalloproteins - 6-week research project							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Silke Leimkühler

Kommentar

Voraussetzung

Literatur

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

SL 545012 - Proteinanalytik (6 Wochen) (unbenotet)

BIO-B-RM16 - Current Aspects of Plant Physiology

122632 PR - Current Aspects of Plant Physiology - 6-week Practical							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Michael Lenhard, Dr. Ivan Acosta, Dr. Fayeze Arabi, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Yang Gao, Dr. Enrique Gonzalez Duran, Dr. Matthijs Hölscher, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Joachim Kopka, Riikka Maekilae, Leah Rosental, Dr. Arun Sampathkumar

Kommentar

6-week research project as part of the Richtungsmodul; date to be agreed on with lecturer

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

SL 545112 - Practical Course Current Aspects of Plant Physiology and Plant Cell Biology (6 Wochen) (unbenotet)

122633 VS - Current Aspects of Plant Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	09:15 - 10:45	wöch.	N.N. (ext)	15.10.2026	Prof. Dr. Michael Lenhard, Dr. Fayeze Arabi, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Yang Gao, Dr. Enrique Gonzalez Duran, Dr. Matthijs Hölscher, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Joachim Kopka, Riikka Maekilae, Dr. Arun Sampathkumar, Dr. Ivan Acosta, Leah Rosental
1	S	Do	11:00 - 11:45	wöch.	N.N. (ext)	15.10.2026	Riikka Maekilae, Prof. Dr. Michael Lenhard, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Matthijs Hölscher, Dr. Enrique Gonzalez Duran, Dr. Joachim Kopka, Dr.

							Arun Sampathkumar, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Yang Gao, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Ivan Acosta, Leah Rosental, Dr. Fayeze Arabi
Kommentar							
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.							
The lecture and seminar will take place at the Max Planck Institute of Molecular Plant Physiology.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	545111 - Current Aspects of Plant Physiology and Plant Cell Biology (unbenotet)						

BIO-B-RM17 - Epigenetics and Epigenomics in Plants, Animals and Fungi

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

BIO-B-RM18 - Microevolution/Conserving the Evolutionary process - (Evolution across Scales module C)

	122490 S - How much conservation is needed in evolution?							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
1	S	Mi	15:00 - 15:45	wöch.	N.N. (AG)	14.10.2026	Dr. Feng Cheng	
Kommentar								
Voraussetzung								
Literatur								
Leistungsnachweis								
Bemerkung								
Lerninhalte								
Kurzkomentar								
Zielgruppe								
Leistungen in Bezug auf das Modul								
PNL	545323 - How much conservation is needed in Evolution? (unbenotet)							

	122497 V - Molecular Population Genetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
1	V	Mi	14:00 - 14:45	wöch.	N.N. (AG)	14.10.2026	Prof. Dr. Ralph Tiedemann	
Kommentar								

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Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
SL 545321 - Molecular Population Genetics (unbenotet)

122498 U - Molecular Population Genetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	U	N.N.	N.N.	Block	N.N.	N.N.	Dr. Feng Cheng, Dr. Marisol Dominguez, Prof. Dr. Ralph Tiedemann
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Blockveranstaltung vom 8.-19. Februar 2027, ganztägig.							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 545322 - Molecular Population Genetics (unbenotet)							

BIO-B-RM18 - Microevolution/Conserving the Evolutionary process - (Evolution across Scales module C) (auslaufend)							
Dieses Modul gilt, aufgrund einer Änderungssatzung, nur noch für Studierende, die das Modul vor dem 01.04.2025 begonnen haben. Das Modul läuft spätestens am 31.03.2027 aus.							
122490 S - How much conservation is needed in evolution?							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Mi	15:00 - 15:45	wöch.	N.N. (AG)	14.10.2026	Dr. Feng Cheng
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							

Leistungen in Bezug auf das Modul

PNL 545312 - How much conservation is needed in Evolution? (unbenotet)

 122497 V - Molecular Population Genetics

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	14:00 - 14:45	wöch.	N.N. (AG)	14.10.2026	Prof. Dr. Ralph Tiedemann

Kommentar**Voraussetzung****Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

SL 545314 - Molecular Population Genetics (unbenotet)

 122498 U - Molecular Population Genetics

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	U	N.N.	N.N.	Block	N.N.	N.N.	Dr. Feng Cheng, Dr. Marisol Dominguez, Prof. Dr. Ralph Tiedemann

Kommentar**Voraussetzung****Literatur****Leistungsnachweis****Bemerkung***Blockveranstaltung vom 8.-19. Februar 2027, ganztägig.***Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 545313 - Molecular population genetics/Conservation genetics (unbenotet)

BIO-B-RM19 - The Central Role of Evolutionary Biology in Biosciences (Evolution across Scale module A) **122488 KL - Evolutionsbiologisches / Genetisches Kolloquium**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	KL	Mo	16:00 - 17:30	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Ralph Tiedemann, Prof. Dr. Michael Lenhard, Prof. Dr. Michael Hofreiter, Dr. Marisol Dominguez

Kommentar**Voraussetzung****Literatur**

Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 545425 - Oberseminar Evolutionsbiologisches/Genetisches Kolloquium (unbenotet)

	122491 V - State of the Art Evolutionary Biology						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	12:15 - 13:45	wöch.	5.03.1.04	12.10.2026	Prof. Dr. Anja Linstädter, Prof. Dr. Jana Eccard, Prof. Dr. Michael Hofreiter, Prof. Dr. Ralph Tiedemann
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL 545421 - State-of-the-art Evolutionary Biology (unbenotet)							

BIO-B-RM21 - Molecular Biology and Genome Research							
	122820 PR - Molecular Biology research internship - 6 week practical						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Dr. rer. nat. Lena Hochrein, Dr. Omid Karami
Kommentar							
6-week research project as part of the Intensive Module - in the Department of Molecular Biology. Instructions will be provided during the seminar.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL 545612 - Forschungspraktikum (6 Wochen) (unbenotet)							

122822 PR - Molecular Biology and Genome Research - 6 week practical in research groups							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	FP	N.N.	N.N.	Block	N.N.	N.N.	N.N.
Kommentar							
6-week research project as part of the Intensive Module Molecular Biology and Genome Research: students search by themselves for possible internship places and working groups. Instructions will be provided during the seminar.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	545612 - Forschungspraktikum (6 Wochen) (unbenotet)						

122827 VS - Molecular Biology and Genome Research							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Mi	08:15 - 09:45	wöch.	2.25.F0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber
Alle	V	Mi	08:15 - 09:45	Einzel	2.25.B0.01	11.11.2026	Prof. Dr. Bernd Müller-Röber
1	S	Mi	10:15 - 11:45	wöch.	2.25.B0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber
2	S	Do	10:15 - 11:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Bernd Müller-Röber
3	S	Di	14:15 - 15:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Sebastian Marquardt

Kommentar

Introduction with all necessary information to the module structure (lecture, seminar, internships, exams) will be provided during the 1st date of the seminar (18.10.2023 and 19.10.2023), pdf file of slides also provided in the Moodle course. (Molecular Biology and Genome Research)

Changed max number for participants per seminar group: 10.

Assignment to seminar groups can be changed due to student participant number or other necessities.

The **seminar** will discuss review and research papers within the topic frame **Read Genomes, Understand Genomes, Write Genomes, and Manipulate Genomes**.

The seminar is designed as a Scientific Meeting based on active participation of students taking certain roles within different seminars.

Each student has to pick the role of a Speaker on one date and of an Expert Panelist at another date. Please enter your name for a certain role and seminar date in the [table](#) provided in the [link](#).

Your role:

- **Speaker**: The Speaker will present a research paper with emphasis on results, discussion and outlook for this research approach and participate in the panel discussion.
- **Expert Panelist**: There will be an additional panelist, who will discuss questions.

Being Speaker or Expert Panelist:

- you should be able to discuss the contents and to evaluate the quality of the presented paper,
- you should be able to answer the questions given by the lecturer and to raise own questions,
- and participate actively in the discussion.

Audience: All other participating students will actively participate in the discussion with questions and remarks on the relevant paper and research topic. At the end of the seminar, the audience will give feedback to the presenter and the expert panelists.

All papers will be available in the Moodle course as pdf.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 545613 - Literatur-Seminar Plant Genomics and Systems Biology (unbenotet)

BIO-B-RM22 - Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies
 122592 VS - Cell Biology for Life Scientists (Lecture plus Seminar)

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	14:15 - 15:45	wöch.	2.26.0.66	12.10.2026	Prof. Dr. Ralph Gräf
1	S	Mo	16:00 - 17:30	wöch.	2.26.0.53	12.10.2026	Prof. Dr. Ralph Gräf, Dr. Irene Meyer, Dr. Marianne Grafe

Kommentar
The contents of the lecture „Cell Biology for Life Scientists“ held in English partially overlaps with Zellbiologie (Tiere) (in German, SoSe). Both lectures can be combined with the seminar within our 6 LP, 8 LP, 11 LP elective modules.
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Please register for the Moodle courses, all information is spread via Moodle!
Lecture: Gräf,R.: Cell Biology for Life Scientists
Seminar: Gräf,R.: Wahlpflichtmodul - Zelldynamik und Cytoskelett/Cell Biology of Centrosomes and the Nuclear Envelope
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 545711 - Lecture and Seminar (unbenotet)

122593 FP - 6-week practical: Cell Biology Of Centrosomes And The Nuclear Envelope							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	FP	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Ralph Gräf, Dr. Marianne Grafe, Dr. Irene Meyer
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	545712 - Practical course (6 weeks) (unbenotet)						

122600 VS - Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VS	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salvatore Chiantia, N.N.
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							

Kurzkomentar	
Zielgruppe	
Leistungen in Bezug auf das Modul	
PNL	545711 - Lecture and Seminar (unbenotet)

122601 PR - Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies Practical							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salvatore Chiantia, N.N.
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	545712 - Practical course (6 weeks) (unbenotet)						

122743 FP - Pflanzlicher Primärstoffwechsel							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	FP	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
Kommentar							
6-week practical							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	545712 - Practical course (6 weeks) (unbenotet)						

BIO-B-RM23 - Cryo Electron Microscopy in Structural Biology							
122717 VS - Cryo Electron Microscopy in Structural Biology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler
1	S	Mo	10:15 - 11:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler

Kommentar

Content:

Structural biology is the study of how biological molecules are built. Only if we know their structure, we can deduce important information on their function, their assembly and their ability to interact. Cryo electron microscopy has revolutionised structural biology in the recent years (<https://www.nature.com/articles/d41586-020-00341-9>)

The course covers theory and advanced image analysis techniques in transmission electron microscopy (TEM). In the lecture the following topics are explained:

- buildup of a TEM, electron guns, holders and detectors
- theory of diffraction, image formation, how electrons interact with material; contrast transfer function
- theory behind high resolution cryo TEM
- sample preparation and image acquisition in (single particle) TEM
- 2D and 3D image analysis
- point group symmetries
- refinement and validation of 3D reconstructions
- visualisation and interpretation of TEM results

During the seminar the students will analyse current TEM results from subject-specific English literature, summarize the key aspects of the work and discuss the research outcome critically.

The practical course will cover hands-on practical work on the transmission electron microscope as well as single-particle image processing of a high-resolution cryo EM data set. The TEM work will include

- negative staining of a protein complex
- loading of the grid into the NS holder
- setting up a negative stain data collection in the data acquisition software
- freezing of a cryo EM grid
- demonstration of the entire cryo EM workflow

The image processing will be undertaken on the IBB computing servers using the computer pools in building 25 (Campus Golm). Students will learn how to work with the linux based server system and the EM processing software Cryosparc. Students will learn how to assess the quality of the data and how to get from individual images to a high-resolution 3D model of the protein complex.

Learning outcomes:

1. Subject-specific competences:

At the end of the course the students will have learned and understood the underlying theory in transmission electron microscopy and single particle image analysis. They will be able to identify suitable TEM applications to a biological question and will have gained insight into the current state of the art in cryo electron microscopy. They will also have analysed the structure and function of diverse biological complexes.

2. Methods-specific competences:

The students learn to interpret, analyse and present results derived from subject-specific, English literature. They will also learn how to prepare a TEM sample, how to operate a TEM, how to analyse TEM images and how to interpret TEM data.

3. Action competence:

The students present and defend scientific work in a public seminar using suitable presentation media. The students learn to work in a team, give constructive feedback and assess each other in a public seminar. When participating in the practical course students will learn to collect and assess scientific data. Furthermore they will summarize experimental data in a detailed protocol and evaluate their results.

This course can be taken as a 6CP, 8CP or 11CP module:

6CP: Lecture and seminar

8CP: Lecture, seminar and 2 week practical course

11CP: Lecture seminar and 6 week practical course

Moodle Page: <https://moodle2.uni-potsdam.de/course/view.php?id=18544>

Voraussetzung

Literatur

The course will go through the online resources on the Caltech webpage:

<http://cryo-em-course.caltech.edu/videos>

interesting review articles:

<https://www.sciencedirect.com/science/article/pii/S0304416517302374>

<https://dasher.wustl.edu/bio5357/readings/molcell-58-677-15.pdf>

interesting short youtube videos:

<https://www.youtube.com/watch?v=BJKkCOW-6Qk>

<https://www.youtube.com/watch?v=026rzTXb1zw&t=16s>

<https://www.youtube.com/watch?v=Qq8DO-4BnIY>

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

PNL 545723 - Seminar (unbenotet)

122722 PR - Cryo Electron Microscopy in Structural Biology - 6 week practical							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Petra Wendler, Dr. Jakob Ruickoldt, Thomas Bick

Kommentar

This course should be combined with the lecture and seminar "Cryo Electron Microscopy in Structural biology" to obtain 11 CP.

Content of lecture and seminar:

Structural biology is the study of how biological molecules are built. Only if we know their structure, we can deduce important information on their function, their assembly and their ability to interact. Cryo electron microscopy has revolutionised structural biology in the recent years (<https://www.nature.com/articles/d41586-020-00341-9>)

The course covers theory and advanced image analysis techniques in transmission electron microscopy (TEM). In the lecture the following topics are explained:

- buildup of a TEM, electron guns, holders and detectors
- theory of diffraction, image formation, how electrons interact with material; contrast transfer function
- theory behind high resolution cryo TEM
- sample preparation and image acquisition in (single particle) TEM
- 2D and 3D image analysis
- point group symmetries
- refinement and validation of 3D reconstructions
- visualisation and interpretation of TEM results

During the seminar the students will analyse current TEM results from subject-specific English literature, summarize the key aspects of the work and discuss the research outcome critically.

The practical course will cover hands-on practical work on the transmission electron microscope as well as single-particle image processing of a high-resolution cryo EM data set. The TEM work will include

- negative staining of a protein complex
- loading of the grid into the NS holder
- setting up a negative stain data collection in the data acquisition software
- freezing of a cryo EM grid
- demonstration of the entire cryo EM workflow

The image processing will be undertaken on the teaching server of the IBB using the computer pools in building 25 (Campus Golm). Students will learn how to work with the linux based server system and the EM processing software Relion. Students will learn how to assess the quality of the data and how to get from individual images to a high-resolution 3D model of the protein complex.

Learning outcomes:

1. Subject-specific competences:

At the end of the course the students will have learned and understood the underlying theory in transmission electron microscopy and single particle image analysis. They will be able to identify suitable TEM applications to a biological question and will have gained insight into the current state of the art in cryo electron microscopy. They will also have analysed the structure and function of diverse biological complexes.

2. Methods-specific competences:

The students learn to interpret, analyse and present results derived from subject-specific, English literature. They will also learn how to prepare a TEM sample, how to operate a TEM, how to analyse TEM images and how to interpret TEM data.

3. Action competence:

The students present and defend scientific work in a public seminar using suitable presentation media. The students learn to work in a team, give constructive feedback and assess each other in a public seminar. When participating in the practical course students will learn to collect and assess scientific data. Furthermore they will summarize experimental data in a detailed protocol and evaluate their results.

Voraussetzung

Literatur

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkomentar

Zielgruppe

Leistungen in Bezug auf das Modul

SL 545722 - Praktikum (6 Wochen) (unbenotet)

BIO-B-RM24 - Current Problems and Modern Methods in Plant Genetics and Epigenetics

 122622 PR - Current Problems and Modern Methods in Plant Genetics and Epigenetics - 6-week practical							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Frauke Lena Garbsch, Dr. Duarte Dionisio Figueiredo, Dr. Antoine Nicolas
Kommentar							
6-week research practical as part of the Richtungsmodul; date to be agreed on							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	545732 - Current Problems and Modern Methods in Plant Genetics and Epigenetics (6 Wochen) (unbenotet)						

 122623 VS - Current Problems and Modern Methods in Plant Genetics and Epigenetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Antoine Nicolas, Dr. Frauke Lena Garbsch
Lecture as part of the Richtungsmodul and the Wahlpflichtmodul							
1	S	Di	10:15 - 11:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Frauke Lena Garbsch
Seminar as part of the Richtungsmodul and the Wahlpflichtmodul							
Kommentar							
2-week research practical are offered as part of the 8-LP Wahlpflichtmodule; date to be agreed on							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							

Leistungen in Bezug auf das Modul

PNL 545733 - Current Problems and Modern Methods in Plant Genetics and Epigenetics (unbenotet)

Wahlpflichtmodule

BIO-B-WM1 - Biochemistry A

122704 V - Molecular Biotechnology and Advanced Immunology

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	08:15 - 09:45	wöch.	2.28.0.108	14.10.2026	Dr. rer. nat. Olaf Behrsing
Advanced Immunology							
1	V	Do	12:15 - 13:45	wöch.	2.25.F1.01	15.10.2026	Prof. Dr. Katja Arndt
Molecular Biotechnology							

Kommentar

Unterrichtssprache Englisch

Voraussetzung

Literatur

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

PNL 545911 - Vorlesung und Seminar (unbenotet)

122717 VS - Cryo Electron Microscopy in Structural Biology

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler
1	S	Mo	10:15 - 11:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler

Kommentar

Content:

Structural biology is the study of how biological molecules are built. Only if we know their structure, we can deduce important information on their function, their assembly and their ability to interact. Cryo electron microscopy has revolutionised structural biology in the recent years (<https://www.nature.com/articles/d41586-020-00341-9>)

The course covers theory and advanced image analysis techniques in transmission electron microscopy (TEM). In the lecture the following topics are explained:

- buildup of a TEM, electron guns, holders and detectors
- theory of diffraction, image formation, how electrons interact with material; contrast transfer function
- theory behind high resolution cryo TEM
- sample preparation and image acquisition in (single particle) TEM
- 2D and 3D image analysis
- point group symmetries
- refinement and validation of 3D reconstructions
- visualisation and interpretation of TEM results

During the seminar the students will analyse current TEM results from subject-specific English literature, summarize the key aspects of the work and discuss the research outcome critically.

The practical course will cover hands-on practical work on the transmission electron microscope as well as single-particle image processing of a high-resolution cryo EM data set. The TEM work will include

- negative staining of a protein complex
- loading of the grid into the NS holder
- setting up a negative stain data collection in the data acquisition software
- freezing of a cryo EM grid
- demonstration of the entire cryo EM workflow

The image processing will be undertaken on the IBB computing servers using the computer pools in building 25 (Campus Golm). Students will learn how to work with the linux based server system and the EM processing software Cryosparc. Students will learn how to assess the quality of the data and how to get from individual images to a high-resolution 3D model of the protein complex.

Learning outcomes:

1. Subject-specific competences:

At the end of the course the students will have learned and understood the underlying theory in transmission electron microscopy and single particle image analysis. They will be able to identify suitable TEM applications to a biological question and will have gained insight into the current state of the art in cryo electron microscopy. They will also have analysed the structure and function of diverse biological complexes.

2. Methods-specific competences:

The students learn to interpret, analyse and present results derived from subject-specific, English literature. They will also learn how to prepare a TEM sample, how to operate a TEM, how to analyse TEM images and how to interpret TEM data.

3. Action competence:

The students present and defend scientific work in a public seminar using suitable presentation media. The students learn to work in a team, give constructive feedback and assess each other in a public seminar. When participating in the practical course students will learn to collect and assess scientific data. Furthermore they will summarize experimental data in a detailed protocol and evaluate their results.

This course can be taken as a 6CP, 8CP or 11CP module:

6CP: Lecture and seminar

8CP: Lecture, seminar and 2 week practical course

11CP: Lecture seminar and 6 week practical course

Moodle Page: <https://moodle2.uni-potsdam.de/course/view.php?id=18544>

Voraussetzung

Literatur

The course will go through the online resources on the Caltech webpage:

<http://cryo-em-course.caltech.edu/videos>

interesting review articles:

<https://www.sciencedirect.com/science/article/pii/S0304416517302374>

<https://dasher.wustl.edu/bio5357/readings/molcell-58-677-15.pdf>

interesting short youtube videos:

<https://www.youtube.com/watch?v=BJKkCOW-6Qk>

<https://www.youtube.com/watch?v=026rzTXb1zw&t=16s>

<https://www.youtube.com/watch?v=Qq8DO-4BnIY>

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

PNL 545911 - Vorlesung und Seminar (unbenotet)

122718 PR - Cryo Electron Microscopy in Structural Biology - practical							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	Di	12:30 - 17:30	wöch.	2.25.D0.02	13.10.2026	Prof. Dr. Petra Wendler, Dr. Jakob Ruickoldt, Thomas Bick

Kommentar

This course should be combined with the lecture and seminar "Cryo Electron Microscopy in Structural biology" to obtain 8 CP.

Content of lecture and seminar:

Structural biology is the study of how biological molecules are built. Only if we know their structure, we can deduce important information on their function, their assembly and their ability to interact. Cryo electron microscopy has revolutionised structural biology in the recent years (<https://www.nature.com/articles/d41586-020-00341-9>)

The course covers theory and advanced image analysis techniques in transmission electron microscopy (TEM). In the lecture the following topics are explained:

- buildup of a TEM, electron guns, holders and detectors
- theory of diffraction, image formation, how electrons interact with material; contrast transfer function
- theory behind high resolution cryo TEM
- sample preparation and image acquisition in (single particle) TEM
- 2D and 3D image analysis
- point group symmetries
- refinement and validation of 3D reconstructions
- visualisation and interpretation of TEM results

During the seminar the students will analyse current TEM results from subject-specific English literature, summarize the key aspects of the work and discuss the research outcome critically.

The practical course will cover hands-on practical work on the transmission electron microscope as well as single-particle image processing of a high-resolution cryo EM data set. The TEM work will include

- negative staining of a protein complex
- loading of the grid into the NS holder
- setting up a negative stain data collection in the data acquisition software
- freezing of a cryo EM grid
- demonstration of the entire cryo EM workflow

The image processing will be undertaken on the IBB computing cluster using the computer pools in building 25 (Campus Golm). Students will learn how to work with the linux based server system and the EM processing software Cryosparc. Students will learn how to assess the quality of the data and how to get from individual images to a high-resolution 3D model of the protein complex.

Learning outcomes:

1. Subject-specific competences:

At the end of the course the students will have learned and understood the underlying theory in transmission electron microscopy and single particle image analysis. They will be able to identify suitable TEM applications to a biological question and will have gained insight into the current state of the art in cryo electron microscopy. They will also have analysed the structure and function of diverse biological complexes.

2. Methods-specific competences:

The students learn to interpret, analyse and present results derived from subject-specific, English literature. They will also learn how to prepare a TEM sample, how to operate a TEM, how to analyse TEM images and how to interpret TEM data.

3. Action competence:

The students present and defend scientific work in a public seminar using suitable presentation media. The students learn to work in a team, give constructive feedback and assess each other in a public seminar. When participating in the practical course students will learn to collect and assess scientific data. Furthermore they will summarize experimental data in a detailed protocol and evaluate their results.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkomentar****Zielgruppe**

122766 S - Immunotechnologie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Fr	12:15 - 13:45	14t.	2.25.B2.01	16.10.2026	Dr. rer. nat. Olaf Behrsing

Kommentar
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe

BIO-B-WM2 - Biotechnology A

 122704 V - Molecular Biotechnology and Advanced Immunology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	08:15 - 09:45	wöch.	2.28.0.108	14.10.2026	Dr. rer. nat. Olaf Behrsing
Advanced Immunology							
1	V	Do	12:15 - 13:45	wöch.	2.25.F1.01	15.10.2026	Prof. Dr. Katja Arndt
Molecular Biotechnology							

Kommentar	
Unterrichtssprache Englisch	
Voraussetzung	
Literatur	
Leistungsnachweis	
Bemerkung	
Lerninhalte	
Kurzkomentar	
Zielgruppe	
Leistungen in Bezug auf das Modul	
PNL	546011 - Vorlesung und Seminar (unbenotet)

	122766 S - Immuntechnologie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
1	S	Fr	12:15 - 13:45	14t.	2.25.B2.01	16.10.2026	Dr. rer. nat. Olaf Behrsing	
Kommentar								
Voraussetzung								
Literatur								
Leistungsnachweis								
Bemerkung								
Lerninhalte								
Kurzkommentar								
Zielgruppe								

BIO-B-WM3 - Protein Science A

122704 V - Molecular Biotechnology and Advanced Immunology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	08:15 - 09:45	wöch.	2.28.0.108	14.10.2026	Dr. rer. nat. Olaf Behrsing
Advanced Immunology							
1	V	Do	12:15 - 13:45	wöch.	2.25.F1.01	15.10.2026	Prof. Dr. Katja Arndt
Molecular Biotechnology							
Kommentar							
Unterrichtssprache Englisch							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546111 - Vorlesung und Seminar (unbenotet)						

122717 VS - Cryo Electron Microscopy in Structural Biology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler
1	S	Mo	10:15 - 11:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler

Kommentar

Content:

Structural biology is the study of how biological molecules are built. Only if we know their structure, we can deduce important information on their function, their assembly and their ability to interact. Cryo electron microscopy has revolutionised structural biology in the recent years (<https://www.nature.com/articles/d41586-020-00341-9>)

The course covers theory and advanced image analysis techniques in transmission electron microscopy (TEM). In the lecture the following topics are explained:

- buildup of a TEM, electron guns, holders and detectors
- theory of diffraction, image formation, how electrons interact with material; contrast transfer function
- theory behind high resolution cryo TEM
- sample preparation and image acquisition in (single particle) TEM
- 2D and 3D image analysis
- point group symmetries
- refinement and validation of 3D reconstructions
- visualisation and interpretation of TEM results

During the seminar the students will analyse current TEM results from subject-specific English literature, summarize the key aspects of the work and discuss the research outcome critically.

The practical course will cover hands-on practical work on the transmission electron microscope as well as single-particle image processing of a high-resolution cryo EM data set. The TEM work will include

- negative staining of a protein complex
- loading of the grid into the NS holder
- setting up a negative stain data collection in the data acquisition software
- freezing of a cryo EM grid
- demonstration of the entire cryo EM workflow

The image processing will be undertaken on the IBB computing servers using the computer pools in building 25 (Campus Golm). Students will learn how to work with the linux based server system and the EM processing software Cryosparc. Students will learn how to assess the quality of the data and how to get from individual images to a high-resolution 3D model of the protein complex.

Learning outcomes:

1. Subject-specific competences:

At the end of the course the students will have learned and understood the underlying theory in transmission electron microscopy and single particle image analysis. They will be able to identify suitable TEM applications to a biological question and will have gained insight into the current state of the art in cryo electron microscopy. They will also have analysed the structure and function of diverse biological complexes.

2. Methods-specific competences:

The students learn to interpret, analyse and present results derived from subject-specific, English literature. They will also learn how to prepare a TEM sample, how to operate a TEM, how to analyse TEM images and how to interpret TEM data.

3. Action competence:

The students present and defend scientific work in a public seminar using suitable presentation media. The students learn to work in a team, give constructive feedback and assess each other in a public seminar. When participating in the practical course students will learn to collect and assess scientific data. Furthermore they will summarize experimental data in a detailed protocol and evaluate their results.

This course can be taken as a 6CP, 8CP or 11CP module:

6CP: Lecture and seminar

8CP: Lecture, seminar and 2 week practical course

11CP: Lecture seminar and 6 week practical course

Moodle Page: <https://moodle2.uni-potsdam.de/course/view.php?id=18544>

Voraussetzung

Literatur

The course will go through the online resources on the Caltech webpage:

<http://cryo-em-course.caltech.edu/videos>

interesting review articles:

<https://www.sciencedirect.com/science/article/pii/S0304416517302374>

<https://dasher.wustl.edu/bio5357/readings/molcell-58-677-15.pdf>

interesting short youtube videos:

<https://www.youtube.com/watch?v=BJKkCOW-6Qk>

<https://www.youtube.com/watch?v=026rzTXb1zw&t=16s>

<https://www.youtube.com/watch?v=Qq8DO-4BnIY>

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

PNL 546111 - Vorlesung und Seminar (unbenotet)

122718 PR - Cryo Electron Microscopy in Structural Biology - practical							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	Di	12:30 - 17:30	wöch.	2.25.D0.02	13.10.2026	Prof. Dr. Petra Wendler, Dr. Jakob Ruickoldt, Thomas Bick

Kommentar

This course should be combined with the lecture and seminar "Cryo Electron Microscopy in Structural biology" to obtain 8 CP.

Content of lecture and seminar:

Structural biology is the study of how biological molecules are built. Only if we know their structure, we can deduce important information on their function, their assembly and their ability to interact. Cryo electron microscopy has revolutionised structural biology in the recent years (<https://www.nature.com/articles/d41586-020-00341-9>)

The course covers theory and advanced image analysis techniques in transmission electron microscopy (TEM). In the lecture the following topics are explained:

- buildup of a TEM, electron guns, holders and detectors
- theory of diffraction, image formation, how electrons interact with material; contrast transfer function
- theory behind high resolution cryo TEM
- sample preparation and image acquisition in (single particle) TEM
- 2D and 3D image analysis
- point group symmetries
- refinement and validation of 3D reconstructions
- visualisation and interpretation of TEM results

During the seminar the students will analyse current TEM results from subject-specific English literature, summarize the key aspects of the work and discuss the research outcome critically.

The practical course will cover hands-on practical work on the transmission electron microscope as well as single-particle image processing of a high-resolution cryo EM data set. The TEM work will include

- negative staining of a protein complex
- loading of the grid into the NS holder
- setting up a negative stain data collection in the data acquisition software
- freezing of a cryo EM grid
- demonstration of the entire cryo EM workflow

The image processing will be undertaken on the IBB computing cluster using the computer pools in building 25 (Campus Golm). Students will learn how to work with the linux based server system and the EM processing software Cryosparc. Students will learn how to assess the quality of the data and how to get from individual images to a high-resolution 3D model of the protein complex.

Learning outcomes:

1. Subject-specific competences:

At the end of the course the students will have learned and understood the underlying theory in transmission electron microscopy and single particle image analysis. They will be able to identify suitable TEM applications to a biological question and will have gained insight into the current state of the art in cryo electron microscopy. They will also have analysed the structure and function of diverse biological complexes.

2. Methods-specific competences:

The students learn to interpret, analyse and present results derived from subject-specific, English literature. They will also learn how to prepare a TEM sample, how to operate a TEM, how to analyse TEM images and how to interpret TEM data.

3. Action competence:

The students present and defend scientific work in a public seminar using suitable presentation media. The students learn to work in a team, give constructive feedback and assess each other in a public seminar. When participating in the practical course students will learn to collect and assess scientific data. Furthermore they will summarize experimental data in a detailed protocol and evaluate their results.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkomentar****Zielgruppe**

122766 S - Immunotechnologie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Fr	12:15 - 13:45	14t.	2.25.B2.01	16.10.2026	Dr. rer. nat. Olaf Behrsing

Kommentar
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe

BIO-B-WM4 - Genome Research and Systems Biology A

122623 VS - Current Problems and Modern Methods in Plant Genetics and Epigenetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Antoine Nicolas, Dr. Frauke Lena Garbsch
Lecture as part of the Richtungsmodul and the Wahlpflichtmodul							
1	S	Di	10:15 - 11:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Frauke Lena Garbsch
Seminar as part of the Richtungsmodul and the Wahlpflichtmodul							

Kommentar
2-week research practical are offered as part of the 8-LP Wahlpflichtmodule; date to be agreed on
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546211 - Vorlesung und Seminar (unbenotet)

122625 VS - Developmental Biology of Animals and Plants							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch
1	S	Mo	10:15 - 11:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch

Kommentar
2-week internships as part of 8-CP modules are possible.
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546211 - Vorlesung und Seminar (unbenotet)

122633 VS - Current Aspects of Plant Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	09:15 - 10:45	wöch.	N.N. (ext)	15.10.2026	Prof. Dr. Michael Lenhard, Dr. Fayeze Arabi, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Yang Gao, Dr. Enrique Gonzalez Duran, Dr. Matthijs Hölscher, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Joachim Kopka, Riikka Maekilae, Dr. Arun Sampathkumar, Dr. Ivan Acosta, Leah Rosental
1	S	Do	11:00 - 11:45	wöch.	N.N. (ext)	15.10.2026	Riikka Maekilae, Prof. Dr. Michael Lenhard, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Matthijs Hölscher, Dr. Enrique Gonzalez Duran, Dr. Joachim Kopka, Dr. Arun Sampathkumar, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Yang Gao, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Ivan Acosta, Leah Rosental, Dr. Fayeze Arabi

Kommentar
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.
The lecture and seminar will take place at the Max Planck Institute of Molecular Plant Physiology.
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung

Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546211 - Vorlesung und Seminar (unbenotet)

122651 V - Cellular Signal Transduction							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	16:15 - 17:45	wöch.	2.25.B2.01	13.10.2026	apl. Prof. Dr. Gaby-Fleur Böhl, Dr. Francisco Garcia, Dr. Meriem Ouni

Kommentar
The corresponding seminar takes place during summer term.
For the Richtungsmodul BIO-B-RM2 a 6-week practical is offered as a separate course.
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546211 - Vorlesung und Seminar (unbenotet)

122665 VS - Physiology of Microorganisms							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	08:15 - 09:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann, Prof. Dr. Susanne Liebner
1	S	Do	10:15 - 11:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann

Kommentar
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546211 - Vorlesung und Seminar (unbenotet)

122699 DF - Bioimage Analysis and Extended Phenotyping							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	09:15 - 10:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	SU	Fr	11:00 - 11:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	B	N.N.	N.N.	Block	N.N.	N.N.	Dr. Christian Kappel

Kommentar**Coures Information**

1) This is a **hybrid course** . Online participation is possible via **Zoom** (Meeting ID: 655 4521 3465; Passcode: 06185980). Exercise sessions are included.

2) After the lecture period, there will be **one week of practical work** . During this time, we will meet regularly - either online or in person - and you are encouraged to work in groups. Alternatively, you may choose to work on a small project independently and on your own schedule. Details will be discussed in the first session and later, if needed.

3) All **course materials and discussion forums** are available on **Moodle.UP** : <https://moodle2.uni-potsdam.de/course/view.php?id=49965> (Bioimage 2026/2027)

For the 8 LP modules (WM4, WM5, WM6), you will complete **two additional weeks of practical work** . This may extend the one-week practical or involve an entirely new project. We will discuss the options together to find the best fit for your interests.

If you have any questions, please contact christian.kappel@uni-potsdam.de

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkomentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546211 - Vorlesung und Seminar (unbenotet)

122739 B - Current Aspects of Plant Metabolism							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke

Kommentar

Termin nach Vereinbarung(fettke@uni-potsdam.de)

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte**

Kurzkommentar	
Zielgruppe	
Leistungen in Bezug auf das Modul	
PNL	546211 - Vorlesung und Seminar (unbenotet)

 122926 VS - Current Aspects and Methods of Plant Cell Biology WPM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	12:15 - 13:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
1	S	Mo	14:15 - 15:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe

Kommentar							
FIRST MEETING will be AS INDICATED 19.10.2026 in room 2.25.B0.01 at 12.15 h. This winter term there will be NO POSSIBILITY to do this as an 11 LP/ECTS orientation module or 8 ECTS elective module!!! Only seminar and lecture can be offered in a combination of a 6 ECTS elective module. The 11 LP modules will be offered in the summer term, again, due to the larger number of students who took the course as an 11 CP and 8 CP course in the summer term. The course can be offered as a 6 CP elective B-module with lecture and seminar, only, if three or more people register. Please, contact Prof. Grebe under markus.grebe@uni-potsdam.de in case of further queries.							

Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546211 - Vorlesung und Seminar (unbenotet)						

BIO-B-WM5 - Molecular Biology A							
 122592 VS - Cell Biology for Life Scientists (Lecture plus Seminar)							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	14:15 - 15:45	wöch.	2.26.0.66	12.10.2026	Prof. Dr. Ralph Gräf
1	S	Mo	16:00 - 17:30	wöch.	2.26.0.53	12.10.2026	Prof. Dr. Ralph Gräf, Dr. Irene Meyer, Dr. Marianne Grafe
Kommentar							
The contents of the lecture „Cell Biology for Life Scientists“ held in English partially overlaps with Zellbiologie (Tiere) (in German, SoSe). Both lectures can be combined with the seminar within our 6 LP, 8 LP, 11 LP elective modules.							
Voraussetzung							
Literatur							
Leistungsnachweis							

Bemerkung	
Please register for the Moodle courses, all information is spread via Moodle! Lecture: Gräf,R.: Cell Biology for Life Scientists Seminar: Gräf,R.: Wahlpflichtmodul - Zelldynamik und Cytoskelett/Cell Biology of Centrosomes and the Nuclear Envelope	
Lerninhalte	
Kurzkomentar	
Zielgruppe	
Leistungen in Bezug auf das Modul	
PNL	546311 - Vorlesung und Seminar (unbenotet)

122623 VS - Current Problems and Modern Methods in Plant Genetics and Epigenetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Antoine Nicolas, Dr. Frauke Lena Garbsch
Lecture as part of the Richtungsmodul and the Wahlpflichtmodul							
1	S	Di	10:15 - 11:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Frauke Lena Garbsch
Seminar as part of the Richtungsmodul and the Wahlpflichtmodul							

Kommentar	
2-week research practical are offered as part of the 8-LP Wahlpflichtmodule; date to be agreed on	
Voraussetzung	
Literatur	
Leistungsnachweis	
Bemerkung	
Lerninhalte	
Kurzkomentar	
Zielgruppe	
Leistungen in Bezug auf das Modul	
PNL	546311 - Vorlesung und Seminar (unbenotet)

122625 VS - Developmental Biology of Animals and Plants							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch
1	S	Mo	10:15 - 11:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch

Kommentar
2-week internships as part of 8-CP modules are possible.
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546311 - Vorlesung und Seminar (unbenotet)

122633 VS - Current Aspects of Plant Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	09:15 - 10:45	wöch.	N.N. (ext)	15.10.2026	Prof. Dr. Michael Lenhard, Dr. Fayeze Arabi, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Yang Gao, Dr. Enrique Gonzalez Duran, Dr. Matthijs Hölscher, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Joachim Kopka, Riikka Maekilae, Dr. Arun Sampathkumar, Dr. Ivan Acosta, Leah Rosental
1	S	Do	11:00 - 11:45	wöch.	N.N. (ext)	15.10.2026	Riikka Maekilae, Prof. Dr. Michael Lenhard, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Matthijs Hölscher, Dr. Enrique Gonzalez Duran, Dr. Joachim Kopka, Dr. Arun Sampathkumar, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Yang Gao, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Ivan Acosta, Leah Rosental, Dr. Fayeze Arabi

Kommentar
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.
The lecture and seminar will take place at the Max Planck Institute of Molecular Plant Physiology.
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung

Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546311 - Vorlesung und Seminar (unbenotet)

122651 V - Cellular Signal Transduction							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	16:15 - 17:45	wöch.	2.25.B2.01	13.10.2026	apl. Prof. Dr. Gaby-Fleur Böhl, Dr. Francisco Garcia, Dr. Meriem Ouni

Kommentar
The corresponding seminar takes place during summer term.
For the Richtungsmodul BIO-B-RM2 a 6-week practical is offered as a separate course.
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546311 - Vorlesung und Seminar (unbenotet)

122665 VS - Physiology of Microorganisms							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	08:15 - 09:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann, Prof. Dr. Susanne Liebner
1	S	Do	10:15 - 11:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann

Kommentar
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546311 - Vorlesung und Seminar (unbenotet)

122699 DF - Bioimage Analysis and Extended Phenotyping							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	09:15 - 10:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	SU	Fr	11:00 - 11:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	B	N.N.	N.N.	Block	N.N.	N.N.	Dr. Christian Kappel

Kommentar**Coures Information**

1) This is a **hybrid course** . Online participation is possible via **Zoom** (Meeting ID: 655 4521 3465; Passcode: 06185980). Exercise sessions are included.

2) After the lecture period, there will be **one week of practical work** . During this time, we will meet regularly - either online or in person - and you are encouraged to work in groups. Alternatively, you may choose to work on a small project independently and on your own schedule. Details will be discussed in the first session and later, if needed.

3) All **course materials and discussion forums** are available on **Moodle.UP** : <https://moodle2.uni-potsdam.de/course/view.php?id=49965> (Bioimage 2026/2027)

For the 8 LP modules (WM4, WM5, WM6), you will complete **two additional weeks of practical work** . This may extend the one-week practical or involve an entirely new project. We will discuss the options together to find the best fit for your interests.

If you have any questions, please contact christian.kappel@uni-potsdam.de

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkomentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546311 - Vorlesung und Seminar (unbenotet)

122704 V - Molecular Biotechnology and Advanced Immunology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	08:15 - 09:45	wöch.	2.28.0.108	14.10.2026	Dr. rer. nat. Olaf Behrsing
Advanced Immunology							
1	V	Do	12:15 - 13:45	wöch.	2.25.F1.01	15.10.2026	Prof. Dr. Katja Arndt
Molecular Biotechnology							

Kommentar

Unterrichtssprache Englisch

Voraussetzung**Literatur**

Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546311 - Vorlesung und Seminar (unbenotet)

 122739 B - Current Aspects of Plant Metabolism							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
Kommentar							
Termin nach Vereinbarung(fettke@uni-potsdam.de)							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 546311 - Vorlesung und Seminar (unbenotet)							

 122766 S - Immuntechnologie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Fr	12:15 - 13:45	14t.	2.25.B2.01	16.10.2026	Dr. rer. nat. Olaf Behrsing
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							

 122827 VS - Molecular Biology and Genome Research							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Mi	08:15 - 09:45	wöch.	2.25.F0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber
Alle	V	Mi	08:15 - 09:45	Einzel	2.25.B0.01	11.11.2026	Prof. Dr. Bernd Müller-Röber
1	S	Mi	10:15 - 11:45	wöch.	2.25.B0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber
2	S	Do	10:15 - 11:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Bernd Müller-Röber

3	S	Di	14:15 - 15:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Sebastian Marquardt
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Kommentar

Introduction with all necessary information to the module structure (lecture, seminar, internships, exams) will be provided during the 1st date of the seminar (18.10.2023 and 19.10.2023) , pdf file of slides also provided in the Moodle course. (Molecular Biology and Genome Research)

Changed max number for participants per seminar group: 10.

Assignment to seminar groups can be changed due to student participant number or other necessities.

The **seminar** will discuss review and research papers within the topic frame **Read Genomes, Understand Genomes, Write Genomes, and Manipulate Genomes** .

The seminar is designed as a Scientific Meeting based on active participation of students taking certain roles within different seminars.

Each student has to pick the role of a Speaker on one date and of an Expert Panelist at another date. Please enter your name for a certain role and seminar date in the [table](#) provided in the [link](#) .

Your role:

• **Speaker** : The Speaker will present a research paper with emphasis on results, discussion and outlook for this research approach and participate in the panel discussion.

• **Expert Panelist** : There will be an additional panelist, who will discuss questions.

Being Speaker or Expert Panelist:

- you should be able to discuss the contents and to evaluate the quality of the presented paper,
- you should be able to answer the questions given by the lecturer and to raise own questions,
- and participate actively in the discussion.

Audience : All other participating students will actively participate in the discussion with questions and remarks on the relevant paper and research topic. At the end of the seminar, the audience will give feedback to the presenter and the expert panelists.

All papers will be available in the Moodle course as pdf.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkomentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546311 - Vorlesung und Seminar (unbenotet)

122926 VS - Current Aspects and Methods of Plant Cell Biology WPM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	12:15 - 13:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
1	S	Mo	14:15 - 15:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe

Kommentar

FIRST MEETING will be AS INDICATED 19.10.2026 in room 2.25.B0.01 at 12.15 h. This winter term there will be NO POSSIBILITY to do this as an 11 LP/ECTS orientation module or 8 ECTS elective module!!!

Only seminar and lecture can be offered in a combination of a 6 ECTS elective module. The 11 LP modules will be offered in the summer term, again, due to the larger number of students who took the course as an 11 CP and 8 CP course in the summer term. The course can be offered as a 6 CP elective B-module with lecture and seminar, only, if three or more people register.

Please, contact Prof. Grebe under markus.grebe@uni-potsdam.de in case of further queries.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546311 - Vorlesung und Seminar (unbenotet)

BIO-B-WM6 - Cellular and Development Biology A**122592 VS - Cell Biology for Life Scientists (Lecture plus Seminar)**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	14:15 - 15:45	wöch.	2.26.0.66	12.10.2026	Prof. Dr. Ralph Gräf
1	S	Mo	16:00 - 17:30	wöch.	2.26.0.53	12.10.2026	Prof. Dr. Ralph Gräf, Dr. Irene Meyer, Dr. Marianne Grafe

Kommentar

The contents of the lecture „Cell Biology for Life Scientists“ held in English partially overlaps with Zellbiologie (Tiere) (in German, SoSe). Both lectures can be combined with the seminar within our 6 LP, 8 LP, 11 LP elective modules.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung**

Please register for the Moodle courses, all information is spread via Moodle!

Lecture: Gräf,R.: Cell Biology for Life Scientists

Seminar: Gräf,R.: Wahlpflichtmodul - Zelldynamik und Cytoskelett/Cell Biology of Centrosomes and the Nuclear Envelope

Lerninhalte**Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546411 - Vorlesung und Seminar (unbenotet)

122623 VS - Current Problems and Modern Methods in Plant Genetics and Epigenetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Antoine Nicolas, Dr. Frauke Lena Garbsch
Lecture as part of the Richtungsmodul and the Wahlpflichtmodul							
1	S	Di	10:15 - 11:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Frauke Lena Garbsch
Seminar as part of the Richtungsmodul and the Wahlpflichtmodul							
Kommentar							
2-week research practical are offered as part of the 8-LP Wahlpflichtmodule; date to be agreed on							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546411 - Vorlesung und Seminar (unbenotet)						

122625 VS - Developmental Biology of Animals and Plants							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch
1	S	Mo	10:15 - 11:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch
Kommentar							
2-week internships as part of 8-CP modules are possible.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546411 - Vorlesung und Seminar (unbenotet)						

122633 VS - Current Aspects of Plant Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	09:15 - 10:45	wöch.	N.N. (ext)	15.10.2026	Prof. Dr. Michael Lenhard, Dr. Fayeze Arabi, Dr. Marion Clavel, Dr. Daniel Dunkermann, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Yang Gao, Dr. Enrique Gonzalez Duran, Dr. Matthijs Hölscher, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Joachim Kopka, Riikka Maekilae, Dr. Arun Sampathkumar, Dr. Ivan Acosta, Leah Rosental
1	S	Do	11:00 - 11:45	wöch.	N.N. (ext)	15.10.2026	Riikka Maekilae, Prof. Dr. Michael Lenhard, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Matthijs Hölscher, Dr. Enrique Gonzalez Duran, Dr. Joachim Kopka, Dr. Arun Sampathkumar, Dr. Marion Clavel, Dr. Daniel Dunkermann, Dr. Yang Gao, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Ivan Acosta, Leah Rosental, Dr. Fayeze Arabi
Kommentar							
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.							
The lecture and seminar will take place at the Max Planck Institute of Molecular Plant Physiology.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546411 - Vorlesung und Seminar (unbenotet)						

122651 V - Cellular Signal Transduction							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	16:15 - 17:45	wöch.	2.25.B2.01	13.10.2026	apl. Prof. Dr. Gaby-Fleur Bøl, Dr. Francisco Garcia, Dr. Meriem Ouni

Kommentar
The corresponding seminar takes place during summer term.
For the Richtungsmodul BIO-B-RM2 a 6-week practical is offered as a separate course.
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546411 - Vorlesung und Seminar (unbenotet)

	122665 VS - Physiology of Microorganisms						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	08:15 - 09:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann, Prof. Dr. Susanne Liebner
1	S	Do	10:15 - 11:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546411 - Vorlesung und Seminar (unbenotet)						

	122699 DF - Bioimage Analysis and Extended Phenotyping						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	09:15 - 10:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	SU	Fr	11:00 - 11:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	B	N.N.	N.N.	Block	N.N.	N.N.	Dr. Christian Kappel

Kommentar
Coures Information 1) This is a hybrid course . Online participation is possible via Zoom (Meeting ID: 655 4521 3465; Passcode: 06185980). Exercise sessions are included. 2) After the lecture period, there will be one week of practical work . During this time, we will meet regularly - either online or in person - and you are encouraged to work in groups. Alternatively, you may choose to work on a small project independently and on your own schedule. Details will be discussed in the first session and later, if needed. 3) All course materials and discussion forums are available on Moodle.UP : https://moodle2.uni-potsdam.de/course/view.php?id=49965 (Bioimage 2026/2027) For the 8 LP modules (WM4, WM5, WM6), you will complete two additional weeks of practical work . This may extend the one-week practical or involve an entirely new project. We will discuss the options together to find the best fit for your interests. If you have any questions, please contact christian.kappel@uni-potsdam.de
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546411 - Vorlesung und Seminar (unbenotet)

122739 B - Current Aspects of Plant Metabolism							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
Kommentar Termin nach Vereinbarung(fettke@uni-potsdam.de)							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 546411 - Vorlesung und Seminar (unbenotet)							

122926 VS - Current Aspects and Methods of Plant Cell Biology WPM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	12:15 - 13:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
1	S	Mo	14:15 - 15:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
Kommentar							
FIRST MEETING will be AS INDICATED 19.10.2026 in room 2.25.B0.01 at 12.15 h. This winter term there will be NO POSSIBILITY to do this as an 11 LP/ECTS orientation module or 8 ECTS elective module!!! Only seminar and lecture can be offered in a combination of a 6 ECTS elective module. The 11 LP modules will be offered in the summer term, again, due to the larger number of students who took the course as an 11 CP and 8 CP course in the summer term. The course can be offered as a 6 CP elective B-module with lecture and seminar, only, if three or more people register. Please, contact Prof. Grebe under markus.grebe@uni-potsdam.de in case of further queries.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 546411 - Vorlesung und Seminar (unbenotet)							

BIO-B-WM7 - Biochemistry B							
122624 VS - Presentation skills for life scientists							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	08:15 - 09:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Michael Lenhard
How to give presentations							
1	S	Fr	10:15 - 11:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard
Journal reading club							
Kommentar							
If more than 11 students want to participate in the course, each student will have to submit an abstract of 500 words max. about the topic they will give their presentation on (either their Bachelor thesis or a long-term internship). These need to be submitted by 27 April at 5 pm, and the final participants will be chosen based on these abstracts.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 546511 - Vorlesung und Seminar (unbenotet)							

122704 V - Molecular Biotechnology and Advanced Immunology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	08:15 - 09:45	wöch.	2.28.0.108	14.10.2026	Dr. rer. nat. Olaf Behrsing
Advanced Immunology							
1	V	Do	12:15 - 13:45	wöch.	2.25.F1.01	15.10.2026	Prof. Dr. Katja Arndt
Molecular Biotechnology							
Kommentar							
Unterrichtssprache Englisch							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546511 - Vorlesung und Seminar (unbenotet)						

122717 VS - Cryo Electron Microscopy in Structural Biology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler
1	S	Mo	10:15 - 11:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler

Kommentar

Content:

Structural biology is the study of how biological molecules are built. Only if we know their structure, we can deduce important information on their function, their assembly and their ability to interact. Cryo electron microscopy has revolutionised structural biology in the recent years (<https://www.nature.com/articles/d41586-020-00341-9>)

The course covers theory and advanced image analysis techniques in transmission electron microscopy (TEM). In the lecture the following topics are explained:

- buildup of a TEM, electron guns, holders and detectors
- theory of diffraction, image formation, how electrons interact with material; contrast transfer function
- theory behind high resolution cryo TEM
- sample preparation and image acquisition in (single particle) TEM
- 2D and 3D image analysis
- point group symmetries
- refinement and validation of 3D reconstructions
- visualisation and interpretation of TEM results

During the seminar the students will analyse current TEM results from subject-specific English literature, summarize the key aspects of the work and discuss the research outcome critically.

The practical course will cover hands-on practical work on the transmission electron microscope as well as single-particle image processing of a high-resolution cryo EM data set. The TEM work will include

- negative staining of a protein complex
- loading of the grid into the NS holder
- setting up a negative stain data collection in the data acquisition software
- freezing of a cryo EM grid
- demonstration of the entire cryo EM workflow

The image processing will be undertaken on the IBB computing servers using the computer pools in building 25 (Campus Golm). Students will learn how to work with the linux based server system and the EM processing software Cryosparc. Students will learn how to assess the quality of the data and how to get from individual images to a high-resolution 3D model of the protein complex.

Learning outcomes:

1. Subject-specific competences:

At the end of the course the students will have learned and understood the underlying theory in transmission electron microscopy and single particle image analysis. They will be able to identify suitable TEM applications to a biological question and will have gained insight into the current state of the art in cryo electron microscopy. They will also have analysed the structure and function of diverse biological complexes.

2. Methods-specific competences:

The students learn to interpret, analyse and present results derived from subject-specific, English literature. They will also learn how to prepare a TEM sample, how to operate a TEM, how to analyse TEM images and how to interpret TEM data.

3. Action competence:

The students present and defend scientific work in a public seminar using suitable presentation media. The students learn to work in a team, give constructive feedback and assess each other in a public seminar. When participating in the practical course students will learn to collect and assess scientific data. Furthermore they will summarize experimental data in a detailed protocol and evaluate their results.

This course can be taken as a 6CP, 8CP or 11CP module:

6CP: Lecture and seminar

8CP: Lecture, seminar and 2 week practical course

11CP: Lecture seminar and 6 week practical course

Moodle Page: <https://moodle2.uni-potsdam.de/course/view.php?id=18544>

Voraussetzung

Literatur

The course will go through the online resources on the Caltech webpage:

<http://cryo-em-course.caltech.edu/videos>

interesting review articles:

<https://www.sciencedirect.com/science/article/pii/S0304416517302374>

<https://dasher.wustl.edu/bio5357/readings/molcell-58-677-15.pdf>

interesting short youtube videos:

<https://www.youtube.com/watch?v=BJKkCOW-6Qk>

<https://www.youtube.com/watch?v=026rzTXb1zw&t=16s>

<https://www.youtube.com/watch?v=Qq8DO-4BnIY>

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

PNL 546511 - Vorlesung und Seminar (unbenotet)

122738 VS - Moderne Aspekte des pflanzlichen Kohlenhydratstoffwechsels

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VS	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke

Kommentar

fakultativ, Termin nach Vereinbarung, Anrechnung für das WP Modul Biochemie Biologie für BS-BIW mgl

Voraussetzung

Literatur

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

PNL 546511 - Vorlesung und Seminar (unbenotet)

122742 B - Theoretische und Praktische Einführung in die Massenspektrometrie

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke

Raum und Zeit nach Absprache

1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
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Raum und Zeit nach Absprache

Kommentar

Voraussetzung

Literatur

Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546511 - Vorlesung und Seminar (unbenotet)

	122766 S - Immuntechnologie						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Fr	12:15 - 13:45	14t.	2.25.B2.01	16.10.2026	Dr. rer. nat. Olaf Behrsing
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							

BIO-B-WM8 - Biotechnology B							
	122624 VS - Presentation skills for life scientists						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	08:15 - 09:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Michael Lenhard
How to give presentations							
1	S	Fr	10:15 - 11:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard
Journal reading club							
Kommentar							
If more than 11 students want to participate in the course, each student will have to submit an abstract of 500 words max. about the topic they will give their presentation on (either their Bachelor thesis or a long-term internship). These need to be submitted by 27 April at 5 pm, and the final participants will be chosen based on these abstracts.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 546611 - Vorlesung und Seminar (unbenotet)							

122704 V - Molecular Biotechnology and Advanced Immunology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	08:15 - 09:45	wöch.	2.28.0.108	14.10.2026	Dr. rer. nat. Olaf Behrsing
Advanced Immunology							
1	V	Do	12:15 - 13:45	wöch.	2.25.F1.01	15.10.2026	Prof. Dr. Katja Arndt
Molecular Biotechnology							
Kommentar							
Unterrichtssprache Englisch							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 546611 - Vorlesung und Seminar (unbenotet)							

122738 VS - Moderne Aspekte des pflanzlichen Kohlenhydratstoffwechsels							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VS	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
Kommentar							
fakultativ, Termin nach Vereinbarung, Anrechnung für das WP Modul Biochemie Biologie für BS-BIW mgl							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 546611 - Vorlesung und Seminar (unbenotet)							

122742 B - Theoretische und Praktische Einführung in die Massenspektrometrie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
Raum und Zeit nach Absprache							
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
Raum und Zeit nach Absprache							
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							

Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546611 - Vorlesung und Seminar (unbenotet)

 122766 S - Immunotechnologie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Fr	12:15 - 13:45	14t.	2.25.B0.01	16.10.2026	Dr. rer. nat. Olaf Behrsing
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							

 122842 VS - Animal Models in Developmental Biology and Cell Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	12:15 - 13:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
1	S	Do	14:15 - 15:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 546611 - Vorlesung und Seminar (unbenotet)							

BIO-B-WM9 - Protein Science B							
 122624 VS - Presentation skills for life scientists							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	08:15 - 09:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Michael Lenhard
How to give presentations							
1	S	Fr	10:15 - 11:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard

Journal reading club

Kommentar

If more than 11 students want to participate in the course, each student will have to submit an abstract of 500 words max. about the topic they will give their presentation on (either their Bachelor thesis or a long-term internship). These need to be submitted by 27 April at 5 pm, and the final participants will be chosen based on these abstracts.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546711 - Vorlesung und Seminar (unbenotet)

**122704 V - Molecular Biotechnology and Advanced Immunology**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	08:15 - 09:45	wöch.	2.28.0.108	14.10.2026	Dr. rer. nat. Olaf Behrsing
Advanced Immunology							
1	V	Do	12:15 - 13:45	wöch.	2.25.F1.01	15.10.2026	Prof. Dr. Katja Arndt
Molecular Biotechnology							

Kommentar

Unterrichtssprache Englisch

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546711 - Vorlesung und Seminar (unbenotet)

**122717 VS - Cryo Electron Microscopy in Structural Biology**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler
1	S	Mo	10:15 - 11:45	wöch.	2.25.B2.01	12.10.2026	Prof. Dr. Petra Wendler

Kommentar

Content:

Structural biology is the study of how biological molecules are built. Only if we know their structure, we can deduce important information on their function, their assembly and their ability to interact. Cryo electron microscopy has revolutionised structural biology in the recent years (<https://www.nature.com/articles/d41586-020-00341-9>)

The course covers theory and advanced image analysis techniques in transmission electron microscopy (TEM). In the lecture the following topics are explained:

- buildup of a TEM, electron guns, holders and detectors
- theory of diffraction, image formation, how electrons interact with material; contrast transfer function
- theory behind high resolution cryo TEM
- sample preparation and image acquisition in (single particle) TEM
- 2D and 3D image analysis
- point group symmetries
- refinement and validation of 3D reconstructions
- visualisation and interpretation of TEM results

During the seminar the students will analyse current TEM results from subject-specific English literature, summarize the key aspects of the work and discuss the research outcome critically.

The practical course will cover hands-on practical work on the transmission electron microscope as well as single-particle image processing of a high-resolution cryo EM data set. The TEM work will include

- negative staining of a protein complex
- loading of the grid into the NS holder
- setting up a negative stain data collection in the data acquisition software
- freezing of a cryo EM grid
- demonstration of the entire cryo EM workflow

The image processing will be undertaken on the IBB computing servers using the computer pools in building 25 (Campus Golm). Students will learn how to work with the linux based server system and the EM processing software Cryosparc. Students will learn how to assess the quality of the data and how to get from individual images to a high-resolution 3D model of the protein complex.

Learning outcomes:

1. Subject-specific competences:

At the end of the course the students will have learned and understood the underlying theory in transmission electron microscopy and single particle image analysis. They will be able to identify suitable TEM applications to a biological question and will have gained insight into the current state of the art in cryo electron microscopy. They will also have analysed the structure and function of diverse biological complexes.

2. Methods-specific competences:

The students learn to interpret, analyse and present results derived from subject-specific, English literature. They will also learn how to prepare a TEM sample, how to operate a TEM, how to analyse TEM images and how to interpret TEM data.

3. Action competence:

The students present and defend scientific work in a public seminar using suitable presentation media. The students learn to work in a team, give constructive feedback and assess each other in a public seminar. When participating in the practical course students will learn to collect and assess scientific data. Furthermore they will summarize experimental data in a detailed protocol and evaluate their results.

This course can be taken as a 6CP, 8CP or 11CP module:

6CP: Lecture and seminar

8CP: Lecture, seminar and 2 week practical course

11CP: Lecture seminar and 6 week practical course

Moodle Page: <https://moodle2.uni-potsdam.de/course/view.php?id=18544>

Voraussetzung

Literatur

The course will go through the online resources on the Caltech webpage:

<http://cryo-em-course.caltech.edu/videos>

interesting review articles:

<https://www.sciencedirect.com/science/article/pii/S0304416517302374>

<https://dasher.wustl.edu/bio5357/readings/molcell-58-677-15.pdf>

interesting short youtube videos:

<https://www.youtube.com/watch?v=BJKkCOW-6Qk>

<https://www.youtube.com/watch?v=026rzTXb1zw&t=16s>

<https://www.youtube.com/watch?v=Qq8DO-4BnIY>

Leistungsnachweis

Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

PNL 546711 - Vorlesung und Seminar (unbenotet)

122738 VS - Moderne Aspekte des pflanzlichen Kohlenhydratstoffwechsels

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VS	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke

Kommentar

fakultativ, Termin nach Vereinbarung, Anrechnung für das WP Modul Biochemie Biologie für BS-BIW mgl

Voraussetzung

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Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

PNL 546711 - Vorlesung und Seminar (unbenotet)

122742 B - Theoretische und Praktische Einführung in die Massenspektrometrie

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke

Raum und Zeit nach Absprache

1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
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Raum und Zeit nach Absprache

Kommentar

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Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546711 - Vorlesung und Seminar (unbenotet)

	122766 S - Immuntechnologie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
1	S	Fr	12:15 - 13:45	14t.	2.25.B2.01	16.10.2026	Dr. rer. nat. Olaf Behrsing	
Kommentar								
Voraussetzung								
Literatur								
Leistungsnachweis								
Bemerkung								
Lerninhalte								
Kurzkommentar								
Zielgruppe								

	122842 VS - Animal Models in Developmental Biology and Cell Physiology						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	12:15 - 13:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
1	S	Do	14:15 - 15:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546711 - Vorlesung und Seminar (unbenotet)						

BIO-B-WM10 - Genome Research and Systems Biology B							
122608 VU - Bioinformatics of Biological Sequences / Evolutionary Genomics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.F1.01	13.10.2026	Dr. Stefanie Hartmann
1	U	Di	10:15 - 11:45	wöch.	2.70.0.01	13.10.2026	Dr. Stefanie Hartmann

Kommentar

For the computer labs of this course, you will need an account on the university's HPC cluster. This account is tied to your university account, so you can only apply for the cluster account once you are enrolled and have your university ID.

- Please generate and activate your ssh key-pair as described here: https://docs.hpc.uni-potsdam.de/overview/getting_access.html (Note: this site is only available from within the university's network. From anywhere and to get started, see <https://www.uni-potsdam.de/de/zim/angebote-loesungen/hpc>). Please accept the default names for the keys (i.e., id_ed25519 and id_ed25519.pub)!
- Copy the key-pair to a USB flash drive and bring it to the first computer lab. Note: the USB drive with your ssh keys, the folder(s) in which you're storing them, and the files of the keys should not have spaces in them. Special symbols and umlauts are a bad idea as well. Please rename files and folders accordingly.
- To activate your account and join the "seqbioinf" group on the cluster, you'll need a password; this will be announced during the first computer lab.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkomentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546811 - Vorlesung und Seminar (unbenotet)

**122623 VS - Current Problems and Modern Methods in Plant Genetics and Epigenetics**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Antoine Nicolas, Dr. Frauke Lena Garbsch

Lecture as part of the Richtungsmodul and the Wahlpflichtmodul

1	S	Di	10:15 - 11:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Frauke Lena Garbsch
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Seminar as part of the Richtungsmodul and the Wahlpflichtmodul

Kommentar

2-week research practical are offered as part of the 8-LP Wahlpflichtmodule; date to be agreed on

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkomentar**

Zielgruppe	
Leistungen in Bezug auf das Modul	
PNL	546811 - Vorlesung und Seminar (unbenotet)

122624 VS - Presentation skills for life scientists							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	08:15 - 09:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Michael Lenhard
How to give presentations							
1	S	Fr	10:15 - 11:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard
Journal reading club							

Kommentar
If more than 11 students want to participate in the course, each student will have to submit an abstract of 500 words max. about the topic they will give their presentation on (either their Bachelor thesis or a long-term internship). These need to be submitted by 27 April at 5 pm, and the final participants will be chosen based on these abstracts.

Voraussetzung
Literatur
Leistungsnachweis
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122625 VS - Developmental Biology of Animals and Plants							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch
1	S	Mo	10:15 - 11:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch

Kommentar
2-week internships as part of 8-CP modules are possible.
Voraussetzung
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Leistungsnachweis
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122633 VS - Current Aspects of Plant Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	09:15 - 10:45	wöch.	N.N. (ext)	15.10.2026	Prof. Dr. Michael Lenhard, Dr. Fayeze Arabi, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Yang Gao, Dr. Enrique Gonzalez Duran, Dr. Matthijs Hölscher, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Joachim Kopka, Riikka Maekilae, Dr. Arun Sampathkumar, Dr. Ivan Acosta, Leah Rosental
1	S	Do	11:00 - 11:45	wöch.	N.N. (ext)	15.10.2026	Riikka Maekilae, Prof. Dr. Michael Lenhard, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Matthijs Hölscher, Dr. Enrique Gonzalez Duran, Dr. Joachim Kopka, Dr. Arun Sampathkumar, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Yang Gao, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Ivan Acosta, Leah Rosental, Dr. Fayeze Arabi
Kommentar							
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.							
The lecture and seminar will take place at the Max Planck Institute of Molecular Plant Physiology.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 546811 - Vorlesung und Seminar (unbenotet)							

122651 V - Cellular Signal Transduction							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	16:15 - 17:45	wöch.	2.25.B2.01	13.10.2026	apl. Prof. Dr. Gaby-Fleur Böl, Dr. Francisco Garcia, Dr. Meriem Ouni

Kommentar
The corresponding seminar takes place during summer term.
For the Richtungsmodul BIO-B-RM2 a 6-week practical is offered as a separate course.
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.
Voraussetzung
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 122665 VS - Physiology of Microorganisms							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	08:15 - 09:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann, Prof. Dr. Susanne Liebner
1	S	Do	10:15 - 11:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546811 - Vorlesung und Seminar (unbenotet)						

	122698 B - Analysis of high-throughput sequencing data						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	09:00 - 17:00	Block	2.25.D2.02	15.02.2027	Dr. Christian Kappel
1	B	N.N.	09:00 - 17:00	Block	2.25.D2.01	22.02.2027	Dr. Christian Kappel
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							

Bemerkung

High-Throughput Sequencing (HTS) - Block Course 2027

This hands-on course will be offered over a three-week period, from **15 February to 5 March 2027**, with sessions taking place daily from **9:00 a.m. to 5:00 p.m.**

Active participation is required in at least **9 of the 15 sessions offered**. The course is normally designed as a two-week course. However, because it is open to students from several Master's programmes, the 2027 edition will be offered as a three-week trial format to enable broader and more inclusive participation.

During this period, most lectures will be offered twice, giving students greater flexibility to attend all lectures and complete the practical course programme.

Students are strongly encouraged to attend one of the preparatory meetings. At least three meeting dates will be announced separately, and remote participation via Zoom will be possible.

Students are strongly encouraged to attend one of the preparatory meetings, at least three of which will be announced there. Remote participation via Zoom will be possible.

The course will be offered in hybrid format:

- On-site: Computer pools D2.01 and D2.02, House 25, University of Potsdam (Golm Campus)
- Online: via Zoom (Meeting ID: 686 6154 6081, Passcode: 06444769)

Students who are also participating in the Bioimaging Practical Week may attend the same sessions. However, attendance at an overlapping session may not be counted towards the participation requirements of both courses.

Preliminary exam dates (subject to change, as of 31 July 2026)

- Tuesday, DD Month 2027, 10:30 to 12:00
- ..
- ..

Preparatory Meetings (Information & Discussion)

You are welcome to join any of the following Zoom meetings (Meeting ID: 686 6154 6081, Passcode: 06444769) if you would like to learn more about the course. Attendance is optional.

- 1 October 2026, 12:00–1:00 pm
- 12 October 2025, 12:00–1:00 pm
- 9 November 2025, 12:00–1:00 pm

If you cannot attend but would like an additional session, please contact the lecturer.

Technical Requirements

If you participate online, you will only need a standard PC with internet access. The main tools required are:

- Web browser
- Linux terminal (on Windows you may use tools such as PuTTY or MobaXTerm, Home Edition).

Some prior familiarity with the Linux command line will be helpful. A good beginner-friendly introduction can be found here: [Software Carpentry – The Unix Shell](#).

Lerninhalte
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122699 DF - Bioimage Analysis and Extended Phenotyping							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	09:15 - 10:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	SU	Fr	11:00 - 11:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	B	N.N.	N.N.	Block	N.N.	N.N.	Dr. Christian Kappel

Kommentar

Coures Information

1) This is a **hybrid course** . Online participation is possible via **Zoom** (Meeting ID: 655 4521 3465; Passcode: 06185980). Exercise sessions are included.

2) After the lecture period, there will be **one week of practical work** . During this time, we will meet regularly - either online or in person - and you are encouraged to work in groups. Alternatively, you may choose to work on a small project independently and on your own schedule. Details will be discussed in the first session and later, if needed.

3) All **course materials and discussion forums** are available on **Moodle.UP** : <https://moodle2.uni-potsdam.de/course/view.php?id=49965> (Bioimage 2026/2027)

For the 8 LP modules (WM4, WM5, WM6), you will complete **two additional weeks of practical work** . This may extend the one-week practical or involve an entirely new project. We will discuss the options together to find the best fit for your interests.

If you have any questions, please contact christian.kappel@uni-potsdam.de

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122739 B - Current Aspects of Plant Metabolism							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
Kommentar							
Termin nach Vereinbarung(fettke@uni-potsdam.de)							

Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
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122827 VS - Molecular Biology and Genome Research							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Mi	08:15 - 09:45	wöch.	2.25.F0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber
Alle	V	Mi	08:15 - 09:45	Einzel	2.25.B0.01	11.11.2026	Prof. Dr. Bernd Müller-Röber
1	S	Mi	10:15 - 11:45	wöch.	2.25.B0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber
2	S	Do	10:15 - 11:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Bernd Müller-Röber
3	S	Di	14:15 - 15:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Sebastian Marquardt

Kommentar
Introduction with all necessary information to the module structure (lecture, seminar, internships, exams) will be provided during the <u>1st date of the seminar (18.10.2023 and 19.10.2023)</u> , pdf file of slides also provided in the Moodle course. (Molecular Biology and Genome Research) Changed max number for participants per seminar group: 10. Assignment to seminar groups can be changed due to student participant number or other necessities. The seminar will discuss review and research papers within the topic frame Read Genomes, Understand Genomes, Write Genomes, and Manipulate Genomes . The seminar is designed as a Scientific Meeting based on active participation of students taking certain roles within different seminars. Each student has to pick the role of a Speaker on one date and of an Expert Panelist at another date. Please enter your name for a certain role and seminar date in the table provided in the link . Your role: • Speaker : The Speaker will present a research paper with emphasis on results, discussion and outlook for this research approach and participate in the panel discussion. • Expert Panelist : There will be an additional panelist, who will discuss questions. Being Speaker or Expert Panelist: • you should be able to discuss the contents and to evaluate the quality of the presented paper, • you should be able to answer the questions given by the lecturer and to raise own questions, • and participate actively in the discussion. Audience : All other participating students will actively participate in the discussion with questions and remarks on the relevant paper and research topic. At the end of the seminar, the audience will give feedback to the presenter and the expert panelists. All papers will be available in the Moodle course as pdf.

Voraussetzung	
Literatur	
Leistungsnachweis	
Bemerkung	
Lerninhalte	
Kurzkomentar	
Zielgruppe	
Leistungen in Bezug auf das Modul	
PNL	546811 - Vorlesung und Seminar (unbenotet)

122842 VS - Animal Models in Developmental Biology and Cell Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	12:15 - 13:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
1	S	Do	14:15 - 15:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546811 - Vorlesung und Seminar (unbenotet)						

122926 VS - Current Aspects and Methods of Plant Cell Biology WPM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	12:15 - 13:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
1	S	Mo	14:15 - 15:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
Kommentar							
FIRST MEETING will be AS INDICATED 19.10.2026 in room 2.25.B0.01 at 12.15 h. This winter term there will be NO POSSIBILITY to do this as an 11 LP/ECTS orientation module or 8 ECTS elective module!!! Only seminar and lecture can be offered in a combination of a 6 ECTS elective module. The 11 LP modules will be offered in the summer term, again, due to the larger number of students who took the course as an 11 CP and 8 CP course in the summer term. The course can be offered as a 6 CP elective B-module with lecture and seminar, only, if three or more people register. Please, contact Prof. Grebe under markus.grebe@uni-potsdam.de in case of further queries.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							

Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546811 - Vorlesung und Seminar (unbenotet)

122931 VS - Statistical Bioinformatics for MS-BAM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	10:15 - 11:45	wöch.	2.70.0.01	14.10.2026	Dr. Detlef Groth, apl. Prof. Dr. Dirk Walther
1	S	Mi	12:15 - 13:45	wöch.	2.70.0.01	14.10.2026	Dr. Detlef Groth, apl. Prof. Dr. Dirk Walther

Kommentar
Dear students, There will be a parallel Zoom session until December mainly for students not yet in Germany or students not able to visit Golm that day. Here is the Zoom link: https://uni-potsdam.zoom.us/j/94438873701 (Password: 21955051) Wed 10:15-13:45 Detlef Groth

Voraussetzung
Literatur
Leistungsnachweis
Bemerkung

Lerninhalte
- Intro R - R-Language, Programming, Data, Graphics (Week 1-3) - Intro Statistics (Week 4-10) - Uni- and bivariate statistics - Descriptive and inferential statistics - Study Design, Survival analysis (Week 11-12) - Multivariate Statistics (Week 13-15) - dimension reduction methods (MDS, PCA, ICA) - multiple testing, missing value imputation

Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546811 - Vorlesung und Seminar (unbenotet)

122932 DF - Introduction to databases and practical programming							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	08:15 - 09:15	wöch.	2.70.0.01	16.10.2026	Dr. Detlef Groth
1	SU	Fr	09:30 - 11:30	wöch.	2.70.0.01	16.10.2026	Dr. Detlef Groth

Kommentar
Dear students, There will be a parallel Zoom session mainly for students not yet in Germany or in case your are not able to reach Golm that day. Here is the Zoom link: https://uni-potsdam.zoom.us/j/94438873701 (Password: 21955051) Fri 08:15-11:45 Detlef Groth

Voraussetzung

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Lerninhalte
Intro Programming (Week 1-5) - setup, simple programs, editor - variables, control flow, functions - data structures - classes and objects Special Topics (Week 6-9) - software versioning (Git, Mercurial) - Graphical User Interfaces with tkinter - test exams 1-2 Introduction to databases (Week 10-13) - general intro, database libraries (SQLite) - database normalizations - data definition language, data query language - SQL vs NoSQL, database systems SQLite, PostgreSQL - test exam 3
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546811 - Vorlesung und Seminar (unbenotet)

BIO-B-WM11 - Molecular Biology B							
	122592 VS - Cell Biology for Life Scientists (Lecture plus Seminar)						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	14:15 - 15:45	wöch.	2.26.0.66	12.10.2026	Prof. Dr. Ralph Gräf
1	S	Mo	16:00 - 17:30	wöch.	2.26.0.53	12.10.2026	Prof. Dr. Ralph Gräf, Dr. Irene Meyer, Dr. Marianne Grafe
Kommentar							
The contents of the lecture „Cell Biology for Life Scientists” held in English partially overlaps with Zellbiologie (Tiere) (in German, SoSe). Both lectures can be combined with the seminar within our 6 LP, 8 LP, 11 LP elective modules.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Please register for the Moodle courses, all information is spread via Moodle! Lecture: Gräf,R.: Cell Biology for Life Scientists Seminar: Gräf,R.: Wahlpflichtmodul - Zelldynamik und Cytoskelett/Cell Biology of Centrosomes and the Nuclear Envelope							
Lerninhalte							

Kurzkommentar	
Zielgruppe	
Leistungen in Bezug auf das Modul	
PNL	546911 - Vorlesung und Seminar (unbenotet)

 122608 VU - Bioinformatics of Biological Sequences / Evolutionary Genomics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.F1.01	13.10.2026	Dr. Stefanie Hartmann
1	U	Di	10:15 - 11:45	wöch.	2.70.0.01	13.10.2026	Dr. Stefanie Hartmann

Kommentar

For the computer labs of this course, you will need an account on the university's HPC cluster. This account is tied to your university account, so you can only apply for the cluster account once you are enrolled and have your university ID.

- Please generate and activate your ssh key-pair as described here: https://docs.hpc.uni-potsdam.de/overview/getting_access.html (Note: this site is only available from within the university's network. From anywhere and to get started, see <https://www.uni-potsdam.de/de/zim/angebote-loesungen/hpc>). Please accept the default names for the keys (i.e., id_ed25519 and id_ed25519.pub)!
- Copy the key-pair to a USB flash drive and bring it to the first computer lab. Note: the USB drive with your ssh keys, the folder(s) in which you're storing them, and the files of the keys should not have spaces in them. Special symbols and umlauts are a bad idea as well. Please rename files and folders accordingly.
- To activate your account and join the "seqbioinf" group on the cluster, you'll need a password; this will be announced during the first computer lab.

Voraussetzung

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Bemerkung

Lerninhalte

Kurzkommentar

Zielgruppe

Leistungen in Bezug auf das Modul

PNL	546911 - Vorlesung und Seminar (unbenotet)
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 122623 VS - Current Problems and Modern Methods in Plant Genetics and Epigenetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Antoine Nicolas, Dr. Frauke Lena Garbsch
Lecture as part of the Richtungsmodul and the Wahlpflichtmodul							
1	S	Di	10:15 - 11:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Frauke Lena Garbsch
Seminar as part of the Richtungsmodul and the Wahlpflichtmodul							

Kommentar
2-week research practical are offered as part of the 8-LP Wahlpflichtmodule; date to be agreed on
Voraussetzung
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Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546911 - Vorlesung und Seminar (unbenotet)

 122624 VS - Presentation skills for life scientists								
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
1	V	Fr	08:15 - 09:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Michael Lenhard	
How to give presentations								
1	S	Fr	10:15 - 11:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard	
Journal reading club								

Kommentar
If more than 11 students want to participate in the course, each student will have to submit an abstract of 500 words max. about the topic they will give their presentation on (either their Bachelor thesis or a long-term internship). These need to be submitted by 27 April at 5 pm, and the final participants will be chosen based on these abstracts.
Voraussetzung
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	122625 VS - Developmental Biology of Animals and Plants							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
1	V	Mo	08:15 - 09:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch	
1	S	Mo	10:15 - 11:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch	
Kommentar								
2-week internships as part of 8-CP modules are possible.								
Voraussetzung								

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Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546911 - Vorlesung und Seminar (unbenotet)

122633 VS - Current Aspects of Plant Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	09:15 - 10:45	wöch.	N.N. (ext)	15.10.2026	Prof. Dr. Michael Lenhard, Dr. Fayeze Arabi, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Yang Gao, Dr. Enrique Gonzalez Duran, Dr. Matthijs Hölscher, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Joachim Kopka, Riikka Maekilae, Dr. Arun Sampathkumar, Dr. Ivan Acosta, Leah Rosental
1	S	Do	11:00 - 11:45	wöch.	N.N. (ext)	15.10.2026	Riikka Maekilae, Prof. Dr. Michael Lenhard, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Matthijs Hölscher, Dr. Enrique Gonzalez Duran, Dr. Joachim Kopka, Dr. Arun Sampathkumar, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Yang Gao, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Ivan Acosta, Leah Rosental, Dr. Fayeze Arabi

Kommentar
For the 8LP Modules (WM4,5,6) 2-week practicals are offered.
The lecture and seminar will take place at the Max Planck Institute of Molecular Plant Physiology.
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
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Zielgruppe

Leistungen in Bezug auf das Modul

PNL 546911 - Vorlesung und Seminar (unbenotet)

 122651 V - Cellular Signal Transduction

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	16:15 - 17:45	wöch.	2.25.B2.01	13.10.2026	apl. Prof. Dr. Gaby-Fleur Bôl, Dr. Francisco Garcia, Dr. Meriem Ouni

Kommentar

The **corresponding seminar** takes place during summer term.

For the Richtungsmodul BIO-B-RM2 a 6-week practical is offered as a separate course.

For the 8LP Modules (WM4,5,6) 2-week practicals are offered.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546911 - Vorlesung und Seminar (unbenotet)

 122665 VS - Physiology of Microorganisms

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	08:15 - 09:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann, Prof. Dr. Susanne Liebner
1	S	Do	10:15 - 11:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann

Kommentar**Voraussetzung****Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546911 - Vorlesung und Seminar (unbenotet)

 122698 B - Analysis of high-throughput sequencing data

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	09:00 - 17:00	Block	2.25.D2.02	15.02.2027	Dr. Christian Kappel
1	B	N.N.	09:00 - 17:00	Block	2.25.D2.01	22.02.2027	Dr. Christian Kappel

Kommentar**Voraussetzung**

Literatur

Leistungsnachweis

Bemerkung

High-Throughput Sequencing (HTS) - Block Course 2027

This hands-on course will be offered over a three-week period, from **15 February to 5 March 2027**, with sessions taking place daily from **9:00 a.m. to 5:00 p.m.**

Active participation is required in at least **9 of the 15 sessions offered**. The course is normally designed as a two-week course. However, because it is open to students from several Master's programmes, the 2027 edition will be offered as a three-week trial format to enable broader and more inclusive participation.

During this period, most lectures will be offered twice, giving students greater flexibility to attend all lectures and complete the practical course programme.

Students are strongly encouraged to attend one of the preparatory meetings. At least three meeting dates will be announced separately, and remote participation via Zoom will be possible.

Students are strongly encouraged to attend one of the preparatory meetings, at least three of which will be announced there. Remote participation via Zoom will be possible.

The course will be offered in hybrid format:

- On-site: Computer pools D2.01 and D2.02, House 25, University of Potsdam (Golm Campus)
- Online: via Zoom (Meeting ID: 686 6154 6081, Passcode: 06444769)

Students who are also participating in the Bioimaging Practical Week may attend the same sessions. However, attendance at an overlapping session may not be counted towards the participation requirements of both courses.

Preliminary exam dates (subject to change, as of 31 July 2026)

- Tuesday, DD Month 2027, 10:30 to 12:00
- ..
- ..

Preparatory Meetings (Information & Discussion)

You are welcome to join any of the following Zoom meetings (Meeting ID: 686 6154 6081, Passcode: 06444769) if you would like to learn more about the course. Attendance is optional.

- 1 October 2026, 12:00–1:00 pm
- 12 October 2025, 12:00–1:00 pm
- 9 November 2025, 12:00–1:00 pm

If you cannot attend but would like an additional session, please contact the lecturer.

Technical Requirements

If you participate online, you will only need a standard PC with internet access. The main tools required are:

- Web browser
- Linux terminal (on Windows you may use tools such as PuTTY or MobaXTerm, Home Edition).

Some prior familiarity with the Linux command line will be helpful. A good beginner-friendly introduction can be found here: [Software Carpentry – The Unix Shell](#).

Lerninhalte
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PNL 546911 - Vorlesung und Seminar (unbenotet)

122699 DF - Bioimage Analysis and Extended Phenotyping							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	09:15 - 10:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	SU	Fr	11:00 - 11:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	B	N.N.	N.N.	Block	N.N.	N.N.	Dr. Christian Kappel

Kommentar

Coures Information

1) This is a **hybrid course** . Online participation is possible via **Zoom** (Meeting ID: 655 4521 3465; Passcode: 06185980). Exercise sessions are included.

2) After the lecture period, there will be **one week of practical work** . During this time, we will meet regularly - either online or in person - and you are encouraged to work in groups. Alternatively, you may choose to work on a small project independently and on your own schedule. Details will be discussed in the first session and later, if needed.

3) All **course materials and discussion forums** are available on **Moodle.UP** : <https://moodle2.uni-potsdam.de/course/view.php?id=49965> (Bioimage 2026/2027)

For the 8 LP modules (WM4, WM5, WM6), you will complete **two additional weeks of practical work** . This may extend the one-week practical or involve an entirely new project. We will discuss the options together to find the best fit for your interests.

If you have any questions, please contact christian.kappel@uni-potsdam.de

Voraussetzung
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Zielgruppe
Leistungen in Bezug auf das Modul
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122704 V - Molecular Biotechnology and Advanced Immunology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	08:15 - 09:45	wöch.	2.28.0.108	14.10.2026	Dr. rer. nat. Olaf Behrsing
Advanced Immunology							
1	V	Do	12:15 - 13:45	wöch.	2.25.F1.01	15.10.2026	Prof. Dr. Katja Arndt
Molecular Biotechnology							

Kommentar
Unterrichtssprache Englisch
Voraussetzung
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Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546911 - Vorlesung und Seminar (unbenotet)

	122739 B - Current Aspects of Plant Metabolism							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke	
Kommentar								
Termin nach Vereinbarung(fettke@uni-potsdam.de)								
Voraussetzung								
Literatur								
Leistungsnachweis								
Bemerkung								
Lerninhalte								
Kurzkommentar								
Zielgruppe								
Leistungen in Bezug auf das Modul								
PNL	546911 - Vorlesung und Seminar (unbenotet)							

	122766 S - Immunotechnologie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
1	S	Fr	12:15 - 13:45	14t.	2.25.B2.01	16.10.2026	Dr. rer. nat. Olaf Behrsing	
Kommentar								
Voraussetzung								
Literatur								
Leistungsnachweis								
Bemerkung								
Lerninhalte								
Kurzkommentar								
Zielgruppe								

122827 VS - Molecular Biology and Genome Research								
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft	
Alle	V	Mi	08:15 - 09:45	wöch.	2.25.F0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber	

Alle	V	Mi	08:15 - 09:45	Einzel	2.25.B0.01	11.11.2026	Prof. Dr. Bernd Müller-Röber
1	S	Mi	10:15 - 11:45	wöch.	2.25.B0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber
2	S	Do	10:15 - 11:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Bernd Müller-Röber
3	S	Di	14:15 - 15:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Sebastian Marquardt

Kommentar

Introduction with all necessary information to the module structure (lecture, seminar, internships, exams) will be provided during the 1st date of the seminar (18.10.2023 and 19.10.2023) , pdf file of slides also provided in the Moodle course. (Molecular Biology and Genome Research)

Changed max number for participants per seminar group: 10.

Assignment to seminar groups can be changed due to student participant number or other necessities.

The **seminar** will discuss review and research papers within the topic frame **Read Genomes, Understand Genomes, Write Genomes, and Manipulate Genomes** .

The seminar is designed as a Scientific Meeting based on active participation of students taking certain roles within different seminars.

Each student has to pick the role of a Speaker on one date and of an Expert Panelist at another date. Please enter your name for a certain role and seminar date in the [table](#) provided in the [link](#) .

Your role:

• **Speaker** : The Speaker will present a research paper with emphasis on results, discussion and outlook for this research approach and participate in the panel discussion.

• **Expert Panelist** : There will be an additional panelist, who will discuss questions.

Being Speaker or Expert Panelist:

- you should be able to discuss the contents and to evaluate the quality of the presented paper,
- you should be able to answer the questions given by the lecturer and to raise own questions,
- and participate actively in the discussion.

Audience : All other participating students will actively participate in the discussion with questions and remarks on the relevant paper and research topic. At the end of the seminar, the audience will give feedback to the presenter and the expert panelists.

All papers will be available in the Moodle course as pdf.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkomentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 546911 - Vorlesung und Seminar (unbenotet)

122842 VS - Animal Models in Developmental Biology and Cell Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	12:15 - 13:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr.

							Juliane Münch, Dr. Payel Chatterjee
1	S	Do	14:15 - 15:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546911 - Vorlesung und Seminar (unbenotet)						

122926 VS - Current Aspects and Methods of Plant Cell Biology WPM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	12:15 - 13:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
1	S	Mo	14:15 - 15:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
Kommentar							
FIRST MEETING will be AS INDICATED 19.10.2026 in room 2.25.B0.01 at 12.15 h. This winter term there will be NO POSSIBILITY to do this as an 11 LP/ECTS orientation module or 8 ECTS elective module!!! Only seminar and lecture can be offered in a combination of a 6 ECTS elective module. The 11 LP modules will be offered in the summer term, again, due to the larger number of students who took the course as an 11 CP and 8 CP course in the summer term. The course can be offered as a 6 CP elective B-module with lecture and seminar, only, if three or more people register. Please, contact Prof. Grebe under markus.grebe@uni-potsdam.de in case of further queries.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	546911 - Vorlesung und Seminar (unbenotet)						

122931 VS - Statistical Bioinformatics for MS-BAM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	10:15 - 11:45	wöch.	2.70.0.01	14.10.2026	Dr. Detlef Groth, apl. Prof. Dr. Dirk Walther
1	S	Mi	12:15 - 13:45	wöch.	2.70.0.01	14.10.2026	Dr. Detlef Groth, apl. Prof. Dr. Dirk Walther

Kommentar
Dear students, There will be a parallel Zoom session until December mainly for students not yet in Germany or students not able to visit Golm that day. Here is the Zoom link: https://uni-potsdam.zoom.us/j/94438873701 (Password: 21955051) Wed 10:15-13:45 Detlef Groth
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
- Intro R - R-Language, Programming, Data, Graphics (Week 1-3) - Intro Statistics (Week 4-10) - Uni- and bivariate statistics - Descriptive and inferential statistics - Study Design, Survival analysis (Week 11-12) - Multivariate Statistics (Week 13-15) - dimension reduction methods (MDS, PCA, ICA) - multiple testing, missing value imputation
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 546911 - Vorlesung und Seminar (unbenotet)

BIO-B-WM12 - Cellular and Development Biology B							
 122592 VS - Cell Biology for Life Scientists (Lecture plus Seminar)							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	14:15 - 15:45	wöch.	2.26.0.66	12.10.2026	Prof. Dr. Ralph Gräf
1	S	Mo	16:00 - 17:30	wöch.	2.26.0.53	12.10.2026	Prof. Dr. Ralph Gräf, Dr. Irene Meyer, Dr. Marianne Grafe
Kommentar							
The contents of the lecture „Cell Biology for Life Scientists“ held in English partially overlaps with Zellbiologie (Tiere) (in German, SoSe). Both lectures can be combined with the seminar within our 6 LP, 8 LP, 11 LP elective modules.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Please register for the Moodle courses, all information is spread via Moodle! Lecture: Gräf,R.: Cell Biology for Life Scientists Seminar: Gräf,R.: Wahlpflichtmodul - Zelldynamik und Cytoskelett/Cell Biology of Centrosomes and the Nuclear Envelope							
Lerninhalte							
Kurzkommentar							

Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	547011 - Vorlesung und Seminar (unbenotet)						

 122623 VS - Current Problems and Modern Methods in Plant Genetics and Epigenetics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	08:15 - 09:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Antoine Nicolas, Dr. Frauke Lena Garbsch
Lecture as part of the Richtungsmodul and the Wahlpflichtmodul							
1	S	Di	10:15 - 11:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Michael Lenhard, Prof. Dr. Isabel Bäurle, Dr. Duarte Dionisio Figueiredo, Dr. Frauke Lena Garbsch
Seminar as part of the Richtungsmodul and the Wahlpflichtmodul							

Kommentar							
2-week research practical are offered as part of the 8-LP Wahlpflichtmodule; date to be agreed on							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	547011 - Vorlesung und Seminar (unbenotet)						

 122624 VS - Presentation skills for life scientists							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	08:15 - 09:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Michael Lenhard
How to give presentations							
1	S	Fr	10:15 - 11:45	wöch.	2.25.B0.01	16.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard
Journal reading club							
Kommentar							
If more than 11 students want to participate in the course, each student will have to submit an abstract of 500 words max. about the topic they will give their presentation on (either their Bachelor thesis or a long-term internship). These need to be submitted by 27 April at 5 pm, and the final participants will be chosen based on these abstracts.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							

Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	547011 - Vorlesung und Seminar (unbenotet)						
	122625 VS - Developmental Biology of Animals and Plants						
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	08:15 - 09:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch
1	S	Mo	10:15 - 11:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Isabel Bäurle, Prof. Dr. Michael Lenhard, Dr. Frauke Lena Garbsch
Kommentar							
2-week internships as part of 8-CP modules are possible.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	547011 - Vorlesung und Seminar (unbenotet)						

122633 VS - Current Aspects of Plant Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	09:15 - 10:45	wöch.	N.N. (ext)	15.10.2026	Prof. Dr. Michael Lenhard, Dr. Fayeze Arabi, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Yang Gao, Dr. Enrique Gonzalez Duran, Dr. Matthijs Hölscher, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Joachim Kopka, Riikka Maekilae, Dr. Arun Sampathkumar, Dr. Ivan Acosta, Leah Rosental
1	S	Do	11:00 - 11:45	wöch.	N.N. (ext)	15.10.2026	Riikka Maekilae, Prof. Dr. Michael Lenhard, Dr. Duarte Dionisio Figueiredo, Dr. Joachim Forner, Dr. Matthijs Hölscher, Dr. Enrique Gonzalez Duran, Dr. Joachim Kopka, Dr. Arun Sampathkumar, Dr. Marion Clavel, Dr. Daniel Dunkelmann, Dr. Yang Gao, Dr. Marco Incarbone, Prof. Dr. Claudia Köhler, Dr. Ivan Acosta, Leah Rosental, Dr. Fayeze Arabi

Kommentar

For the 8LP Modules (WM4,5,6) 2-week practicals are offered.

The lecture and seminar will take place at the Max Planck Institute of Molecular Plant Physiology.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 547011 - Vorlesung und Seminar (unbenotet)

**122651 V - Cellular Signal Transduction**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	16:15 - 17:45	wöch.	2.25.B2.01	13.10.2026	apl. Prof. Dr. Gaby-Fleur Bøl, Dr. Francisco Garcia, Dr. Meriem Ouni

Kommentar

The **corresponding seminar** takes place during summer term.

For the Richtungsmodul BIO-B-RM2 a 6-week practical is offered as a separate course.

For the 8LP Modules (WM4,5,6) 2-week practicals are offered.

Voraussetzung**Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 547011 - Vorlesung und Seminar (unbenotet)

**122665 VS - Physiology of Microorganisms**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	08:15 - 09:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann, Prof. Dr. Susanne Liebner
1	S	Do	10:15 - 11:45	wöch.	2.25.B2.01	15.10.2026	Prof. Dr. Elke Dittmann-Thünemann

Kommentar**Voraussetzung****Literatur**

Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547011 - Vorlesung und Seminar (unbenotet)

 122698 B - Analysis of high-throughput sequencing data							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	09:00 - 17:00	Block	2.25.D2.02	15.02.2027	Dr. Christian Kappel
1	B	N.N.	09:00 - 17:00	Block	2.25.D2.01	22.02.2027	Dr. Christian Kappel
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							

Bemerkung

High-Throughput Sequencing (HTS) - Block Course 2027

This hands-on course will be offered over a three-week period, from **15 February to 5 March 2027**, with sessions taking place daily from **9:00 a.m. to 5:00 p.m.**

Active participation is required in at least **9 of the 15 sessions offered**. The course is normally designed as a two-week course. However, because it is open to students from several Master's programmes, the 2027 edition will be offered as a three-week trial format to enable broader and more inclusive participation.

During this period, most lectures will be offered twice, giving students greater flexibility to attend all lectures and complete the practical course programme.

Students are strongly encouraged to attend one of the preparatory meetings. At least three meeting dates will be announced separately, and remote participation via Zoom will be possible.

Students are strongly encouraged to attend one of the preparatory meetings, at least three of which will be announced there. Remote participation via Zoom will be possible.

The course will be offered in hybrid format:

- On-site: Computer pools D2.01 and D2.02, House 25, University of Potsdam (Golm Campus)
- Online: via Zoom (Meeting ID: 686 6154 6081, Passcode: 06444769)

Students who are also participating in the Bioimaging Practical Week may attend the same sessions. However, attendance at an overlapping session may not be counted towards the participation requirements of both courses.

Preliminary exam dates (subject to change, as of 31 July 2026)

- Tuesday, DD Month 2027, 10:30 to 12:00
- ..
- ..

Preparatory Meetings (Information & Discussion)

You are welcome to join any of the following Zoom meetings (Meeting ID: 686 6154 6081, Passcode: 06444769) if you would like to learn more about the course. Attendance is optional.

- 1 October 2026, 12:00–1:00 pm
- 12 October 2025, 12:00–1:00 pm
- 9 November 2025, 12:00–1:00 pm

If you cannot attend but would like an additional session, please contact the lecturer.

Technical Requirements

If you participate online, you will only need a standard PC with internet access. The main tools required are:

- Web browser
- Linux terminal (on Windows you may use tools such as PuTTY or MobaXTerm, Home Edition).

Some prior familiarity with the Linux command line will be helpful. A good beginner-friendly introduction can be found here: [Software Carpentry – The Unix Shell](#).

Lerninhalte
Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547011 - Vorlesung und Seminar (unbenotet)

122699 DF - Bioimage Analysis and Extended Phenotyping							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	09:15 - 10:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	SU	Fr	11:00 - 11:45	wöch.	2.25.B2.01	16.10.2026	Dr. Christian Kappel
1	B	N.N.	N.N.	Block	N.N.	N.N.	Dr. Christian Kappel

Kommentar

Coures Information

1) This is a **hybrid course** . Online participation is possible via **Zoom** (Meeting ID: 655 4521 3465; Passcode: 06185980). Exercise sessions are included.

2) After the lecture period, there will be **one week of practical work** . During this time, we will meet regularly - either online or in person - and you are encouraged to work in groups. Alternatively, you may choose to work on a small project independently and on your own schedule. Details will be discussed in the first session and later, if needed.

3) All **course materials and discussion forums** are available on **Moodle.UP** : <https://moodle2.uni-potsdam.de/course/view.php?id=49965> (Bioimage 2026/2027)

For the 8 LP modules (WM4, WM5, WM6), you will complete **two additional weeks of practical work** . This may extend the one-week practical or involve an entirely new project. We will discuss the options together to find the best fit for your interests.

If you have any questions, please contact christian.kappel@uni-potsdam.de

Voraussetzung
Literatur
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Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547011 - Vorlesung und Seminar (unbenotet)

122739 B - Current Aspects of Plant Metabolism							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	apl. Prof. Dr. Jörg Fettke
Kommentar							
Termin nach Vereinbarung(fettke@uni-potsdam.de)							

Voraussetzung
Literatur
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Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547011 - Vorlesung und Seminar (unbenotet)

122827 VS - Molecular Biology and Genome Research							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Mi	08:15 - 09:45	wöch.	2.25.F0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber
Alle	V	Mi	08:15 - 09:45	Einzel	2.25.B0.01	11.11.2026	Prof. Dr. Bernd Müller-Röber
1	S	Mi	10:15 - 11:45	wöch.	2.25.B0.01	14.10.2026	Prof. Dr. Bernd Müller-Röber
2	S	Do	10:15 - 11:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Bernd Müller-Röber
3	S	Di	14:15 - 15:45	wöch.	2.25.B0.01	13.10.2026	Prof. Dr. Sebastian Marquardt

Kommentar
Introduction with all necessary information to the module structure (lecture, seminar, internships, exams) will be provided during the <u>1st date of the seminar (18.10.2023 and 19.10.2023)</u> , pdf file of slides also provided in the Moodle course. (Molecular Biology and Genome Research) Changed max number for participants per seminar group: 10. Assignment to seminar groups can be changed due to student participant number or other necessities. The seminar will discuss review and research papers within the topic frame Read Genomes, Understand Genomes, Write Genomes, and Manipulate Genomes . The seminar is designed as a Scientific Meeting based on active participation of students taking certain roles within different seminars. Each student has to pick the role of a Speaker on one date and of an Expert Panelist at another date. Please enter your name for a certain role and seminar date in the table provided in the link . Your role: • Speaker : The Speaker will present a research paper with emphasis on results, discussion and outlook for this research approach and participate in the panel discussion. • Expert Panelist : There will be an additional panelist, who will discuss questions. Being Speaker or Expert Panelist: • you should be able to discuss the contents and to evaluate the quality of the presented paper, • you should be able to answer the questions given by the lecturer and to raise own questions, • and participate actively in the discussion. Audience : All other participating students will actively participate in the discussion with questions and remarks on the relevant paper and research topic. At the end of the seminar, the audience will give feedback to the presenter and the expert panelists. All papers will be available in the Moodle course as pdf.

Voraussetzung
Literatur
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Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547011 - Vorlesung und Seminar (unbenotet)

122842 VS - Animal Models in Developmental Biology and Cell Physiology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	12:15 - 13:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
1	S	Do	14:15 - 15:45	wöch.	2.25.B0.01	15.10.2026	Prof. Dr. Salim Seyfried, Dr. Claudia Rödel, Dr. Juliane Münch, Dr. Payel Chatterjee
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 547011 - Vorlesung und Seminar (unbenotet)							

122926 VS - Current Aspects and Methods of Plant Cell Biology WPM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mo	12:15 - 13:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
1	S	Mo	14:15 - 15:45	wöch.	2.25.B0.01	12.10.2026	Prof. Dr. Markus Grebe
Kommentar							
FIRST MEETING will be AS INDICATED 19.10.2026 in room 2.25.B0.01 at 12.15 h. This winter term there will be NO POSSIBILITY to do this as an 11 LP/ECTS orientation module or 8 ECTS elective module!!! Only seminar and lecture can be offered in a combination of a 6 ECTS elective module. The 11 LP modules will be offered in the summer term, again, due to the larger number of students who took the course as an 11 CP and 8 CP course in the summer term. The course can be offered as a 6 CP elective B-module with lecture and seminar, only, if three or more people register. Please, contact Prof. Grebe under markus.grebe@uni-potsdam.de in case of further queries.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							

Lerninhalte	
Kurzkomentar	
Zielgruppe	
Leistungen in Bezug auf das Modul	
PNL	547011 - Vorlesung und Seminar (unbenotet)

122931 VS - Statistical Bioinformatics for MS-BAM							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	10:15 - 11:45	wöch.	2.70.0.01	14.10.2026	Dr. Detlef Groth, apl. Prof. Dr. Dirk Walther
1	S	Mi	12:15 - 13:45	wöch.	2.70.0.01	14.10.2026	Dr. Detlef Groth, apl. Prof. Dr. Dirk Walther

Kommentar
Dear students, There will be a parallel Zoom session until December mainly for students not yet in Germany or students not able to visit Golm that day. Here is the Zoom link: https://uni-potsdam.zoom.us/j/94438873701 (Password: 21955051) Wed 10:15-13:45 Detlef Groth

Voraussetzung
Literatur
Leistungsnachweis
Bemerkung

Lerninhalte
- Intro R - R-Language, Programming, Data, Graphics (Week 1-3) - Intro Statistics (Week 4-10) - Uni- and bivariate statistics - Descriptive and inferential statistics - Study Design, Survival analysis (Week 11-12) - Multivariate Statistics (Week 13-15) - dimension reduction methods (MDS, PCA, ICA) - multiple testing, missing value imputation

Kurzkomentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547011 - Vorlesung und Seminar (unbenotet)

122932 DF - Introduction to databases and practical programming							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	08:15 - 09:15	wöch.	2.70.0.01	16.10.2026	Dr. Detlef Groth
1	SU	Fr	09:30 - 11:30	wöch.	2.70.0.01	16.10.2026	Dr. Detlef Groth

Kommentar
Dear students, There will be a parallel Zoom session mainly for students not yet in Germany or in case your are not able to reach Golm that day. Here is the Zoom link: https://uni-potsdam.zoom.us/j/94438873701 (Password: 21955051) Fri 08:15-11:45 Detlef Groth

Voraussetzung

Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Intro Programming (Week 1-5) - setup, simple programs, editor - variables, control flow, functions - data structures - classes and objects Special Topics (Week 6-9) - software versioning (Git, Mercurial) - Graphical User Interfaces with tkinter - test exams 1-2 Introduction to databases (Week 10-13) - general intro, database libraries (SQLite) - database normalizations - data definition language, data query language - SQL vs NoSQL, database systems SQLite, PostgreSQL - test exam 3
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547011 - Vorlesung und Seminar (unbenotet)

BIO-B-WM13 - Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B							
 122596 S - Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B Seminar							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salvatore Chiantia, N.N.
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 547112 - Seminar (unbenotet)							

122597 V - Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B Lecture							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salvatore Chiantia, N.N.
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
SL	547111 - Vorlesung (unbenotet)						

BIO-B-WM14 - Biochemistry and Molecular Biology as Reflected in other Sciences A							
122598 VU - Biochemistry and Molecular Biology as Reflected in other Sciences A							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salvatore Chiantia, N.N.
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL	547211 - Vorlesung und Übung (unbenotet)						

BIO-B-WM15 - Biochemistry and Molecular Biology as Reflected in other Sciences B							
122552 V - Foundations of pharmacology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Mi	12:15 - 13:45	wöch.	2.50.1.01	14.10.2026	Prof. Dr. André Kleinridders, Prof. Dr. Aswin Mangerich
1	V	N.N.	N.N.	wöch.	N.N.	N.N.	Prof. Dr. André Kleinridders, Prof. Dr. Aswin Mangerich
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							

Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547311 - Vorlesung und Übung (unbenotet)

 122559 V - Organ toxicology, pathological anatomy and histopathology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Do	12:15 - 13:45	wöch.	2.25.F0.15	15.10.2026	N.N., Dr. rer. nat. Franziska Ebert
1	V	N.N.	N.N.	wöch.	N.N.	N.N.	Dr. rer. nat. Franziska Ebert, N.N.

Kommentar
Voraussetzung
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Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547311 - Vorlesung und Übung (unbenotet)

 122560 V - Physiology and pathophysiology of nutrition							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	10:00 - 11:30	wöch.	DIfE.FLH	16.10.2026	Prof. Dr. André Kleinridders, Prof. Dr. Tim Julius Schulz

Kommentar
Voraussetzung
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Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547311 - Vorlesung und Übung (unbenotet)

 122562 PR - Microscopy and Histopathology - lab course							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	N.N.	08:15 - 16:00	Block	N.N.	11.01.2027	Prof. Dr. Claudia Matthäus, N.N.

Kommentar
Voraussetzung

Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547311 - Vorlesung und Übung (unbenotet)

122594 VU - Biochemistry and Molecular Biology as Reflected in other Sciences B							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salvatore Chiantia, N.N.
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							
Leistungen in Bezug auf das Modul							
PNL 547311 - Vorlesung und Übung (unbenotet)							

122932 DF - Introduction to databases and practical programming							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	08:15 - 09:15	wöch.	2.70.0.01	16.10.2026	Dr. Detlef Groth
1	SU	Fr	09:30 - 11:30	wöch.	2.70.0.01	16.10.2026	Dr. Detlef Groth
Kommentar							
Dear students, There will be a parallel Zoom session mainly for students not yet in Germany or in case your are not able to reach Golm that day. Here is the Zoom link: https://uni-potsdam.zoom.us/j/94438873701 (Password: 21955051) Fri 08:15-11:45 Detlef Groth							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							

Lerninhalte**Intro Programming (Week 1-5)**

- setup, simple programs, editor
- variables, control flow, functions
- data structures
- classes and objects

Special Topics (Week 6-9)

- software versioning (Git, Mercurial)
- Graphical User Interfaces with tkinter
- test exams 1-2

Introduction to databases (Week 10-13)

- general intro, database libraries (SQLite)
- database normalizations
- data definition language, data query language
- SQL vs NoSQL, database systems SQLite, PostgreSQL
- test exam 3

Kurzkommentar**Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 547311 - Vorlesung und Übung (unbenotet)

 123459 VU - Transfer- und Innovationsmanagement (TIM)

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	11:00 - 13:00	wöch.	3.06.H06	13.10.2026	Prof. Dr. Hans-Hennig von Grünberg
1	U	Di	14:00 - 16:00	wöch.	3.06.H08	13.10.2026	Prof. Dr. Hans-Hennig von Grünberg

Kommentar

Bitte beachten: Veranstaltungssprache: Deutsch, gelegentlich Vorträge/Diskussionen mit Gästen auf Englisch.

Voraussetzung**Literatur****Leistungsnachweis****Leistungsnachweis**

Die Prüfungsleistung ist eng an die reale Praxis angelehnt und besteht aus zwei Komponenten:

- **Transfer Opportunity Dossier (Teamarbeit):** Im Laufe des Semesters erarbeiten Sie ein strukturiertes Dossier, das die priorisierte Herausforderung, die gesammelte Evidenz sowie 2–3 plausible Szenarien und einen konkreten, nächsten Transfer- oder Pilotpfad beschreibt.
- **Video-Pitch (Teamarbeit):** Zum Abschluss bringen Sie Ihre erarbeitete Innovations-Opportunity in einem kurzen, dynamischen Video-Pitch prägnant auf den Punkt, um potenzielle Partner und Entscheider von Ihrer Idee zu überzeugen.
- **Prüfungsnebenleistung:** Eine regelmäßige Teilnahme (Anwesenheitsliste) ist zwingend erforderlich und definiert die Prüfungsnebenleistung.

Bemerkung

Lerninhalte

Bereit für ein neues Lernformat? Im Masterkurs „Transfer- und Innovationsmanagement“ verlassen wir die klassischen Pfade des theoretischen Technologietransfers und begeben uns auf eine gemeinsame Transfer-Lernreise. In diesem Kurs probieren wir Neues aus: Sie arbeiten nicht an hypothetischen Fallstudien, sondern agieren als aktive Transfer Scouts an der direkten Schnittstelle zwischen Wissenschaft, Technologie und regionaler Praxis.

Die Lehrveranstaltung ist als zweistufiger, praxisorientierter Prozess aufgebaut:

- 1) **Exploration Phase:** Zu Beginn lernen Sie in unseren *Problem Clinics*, bei Exkursionen und durch Impulse von Gründerinnen, Forschenden, Branchen- und Transferexperten unterschiedliche Organisationen und deren reale Herausforderungen kennen. Ihren konkreten Praxis-Case wählen Sie bewusst erst nach dieser Orientierung, um unvoreingenommen und offen für verschiedene Transferwege zu bleiben.
- 2) **Deep-Dive Phase (ca. 6 Wochen):** In kleinen, interdisziplinären Teams tauchen Sie tief in eine reale Fragestellung eines Praxispartners ein. Ihre Aufgabe ist es nicht, vorschnell Standardlösungen zu präsentieren. Vielmehr lernen Sie, das eigentliche Problem datenbasiert zu durchdringen, Evidenz zu sammeln und innovative Lösungswege abzuwägen – sei es durch wissenschaftliche Erkenntnisse, Prozessinnovationen oder neue Technologieoptionen.

Dieses Seminar dient uns als lebendiges Experimentierfeld. Die hier erprobten Methoden fließen direkt in die Konzeption und Erprobung unserer zukünftigen, hochschulweiten Transferinfrastrukturen ein. Wenn Sie Lust haben, theoretisches Fundament direkt in echten gesellschaftlichen und wirtschaftlichen Mehrwert zu übersetzen, neue Netzwerke zu knüpfen und die Innovationslandschaft aktiv mitzugestalten, freuen wir uns auf Ihre Teilnahme!

Kurzkomentar**Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 547311 - Vorlesung und Übung (unbenotet)

124016 VU - Introduction to IT Systems for Digital Health Experts

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VU	N.N.	N.N.	wöch.	N.N.	N.N.	Prof. Dr. Bert Arnrich

Raum und Zeit nach Absprache

Kommentar

Informationen zur Veranstaltung finden Sie auf der HPI-Webseite: <https://hpi.de/en/studies/your-studies-at-hpi/courses/>
Bei Interesse schreiben Sie bitte eine Mail an: studentaffairs@hpi.de

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If you are interested, please send an e-mail to: studentaffairs@hpi.de

Voraussetzung

Für die Teilnahme an der Veranstaltung ist ein Nachweis über Englischkenntnisse auf dem Niveau C1 (gemäß des Gemeinsamen Europäischen Referenzrahmens) verpflichtend erforderlich. Ohne diesen Nachweis ist eine Belegung leider nicht möglich.

Proof of English language proficiency at level C1 (according to the Common European Framework of Reference) is mandatory for participation in this course. Without this proof, it is unfortunately not possible to participate.

Literatur**Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkomentar****Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 547311 - Vorlesung und Übung (unbenotet)

BIO-B-WM16 - Biochemistry and Molecular Biology in Practice A **122599 VU - Biochemistry and Molecular Biology in Practice A**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salvatore Chiantia, N.N.

Kommentar**Voraussetzung****Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul****PNL** 547411 - Vorlesung und Übung (unbenotet)**BIO-B-WM17 - Biochemistry and Molecular Biology in Practice B** **122595 VU - Biochemistry and Molecular Biology in Practice B**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	B	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Salvatore Chiantia, N.N.

Kommentar**Voraussetzung****Literatur****Leistungsnachweis****Bemerkung****Lerninhalte****Kurzkommentar****Zielgruppe****Leistungen in Bezug auf das Modul****PNL** 547511 - Vorlesung und Übung (unbenotet) **123459 VU - Transfer- und Innovationsmanagement (TIM)**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	11:00 - 13:00	wöch.	3.06.H06	13.10.2026	Prof. Dr. Hans-Hennig von Grünberg
1	U	Di	14:00 - 16:00	wöch.	3.06.H08	13.10.2026	Prof. Dr. Hans-Hennig von Grünberg

Kommentar

Bitte beachten: Veranstaltungssprache: Deutsch, gelegentlich Vorträge/Diskussionen mit Gästen auf Englisch.

Voraussetzung**Literatur**

Leistungsnachweis**Leistungsnachweis**

Die Prüfungsleistung ist eng an die reale Praxis angelehnt und besteht aus zwei Komponenten:

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- **Prüfungsnebenleistung:** Eine regelmäßige Teilnahme (Anwesenheitsliste) ist zwingend erforderlich und definiert die Prüfungsnebenleistung.

Bemerkung**Lerninhalte**

Bereit für ein neues Lernformat? Im Masterkurs „Transfer- und Innovationsmanagement“ verlassen wir die klassischen Pfade des theoretischen Technologietransfers und begeben uns auf eine gemeinsame Transfer-Lernreise. In diesem Kurs probieren wir Neues aus: Sie arbeiten nicht an hypothetischen Fallstudien, sondern agieren als aktive Transfer Scouts an der direkten Schnittstelle zwischen Wissenschaft, Technologie und regionaler Praxis.

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- 2) **Deep-Dive Phase (ca. 6 Wochen):** In kleinen, interdisziplinären Teams tauchen Sie tief in eine reale Fragestellung eines Praxispartners ein. Ihre Aufgabe ist es nicht, vorschnell Standardlösungen zu präsentieren. Vielmehr lernen Sie, das eigentliche Problem datenbasiert zu durchdringen, Evidenz zu sammeln und innovative Lösungswege abzuwägen – sei es durch wissenschaftliche Erkenntnisse, Prozessinnovationen oder neue Technologieoptionen.

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Kurzkomentar**Zielgruppe****Leistungen in Bezug auf das Modul**

PNL 547511 - Vorlesung und Übung (unbenotet)

124062 VU - Biostatistics and Data Analysis

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VU	N.N.	N.N.	wöch.	N.N.	N.N.	Prof. Dr. Helene Kretzmer
Raum und Zeit nach Absprache							

Kommentar

Informationen zur Veranstaltung finden Sie auf der HPI-Webseite: <https://hpi.de/en/studies/your-studies-at-hpi/courses/>
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If you are interested, please send an e-mail to: studentaffairs@hpi.de

Voraussetzung

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Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe
Leistungen in Bezug auf das Modul
PNL 547511 - Vorlesung und Übung (unbenotet)

Fakultative Lehrveranstaltungen

122488 KL - Evolutionsbiologisches / Genetisches Kolloquium							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	KL	Mo	16:00 - 17:30	wöch.	2.25.B0.01	12.10.2026	Ralph Tiedemann, Michael Lenhard, Michael Hofreiter, Marisol Dominguez
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							

122640 FS - Aktuelle Forschungsprobleme der Molekularen Enzymologie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	FS	Do	12:15 - 13:45	wöch.	2.25.B2.01	15.10.2026	Silke Leimkühler
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							

122670 S - Doktorandenseminar							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	N.N.	N.N.	wöch.	N.N.	N.N.	Harald Seitz

Kommentar
Bei Interesse bitte per Mail melden:
PD Dr. Harald Seitz
Fraunhofer Institute for Cell Therapy and Immunology Branch Bioanalytics and Bioprocesses (IZI-BB) Biomarker Validation and Assay Development
Am Mühlenberg 13 14476 Potsdam-Golm
Tel.: 0331 58187-208; harald.seitz@izi-bb.fraunhofer.de
Voraussetzung
Literatur
Leistungsnachweis
Bemerkung
Lerninhalte
Kurzkommentar
Zielgruppe

122706 S - Current Literature in Biotechnology and Synthetic Biology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	N.N.	N.N.	wöch.	N.N.	N.N.	Katja Arndt
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							

122707 S - Modern Methods in Biotechnology and Synthetic Biology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	N.N.	N.N.	wöch.	N.N.	N.N.	Katja Arndt
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkommentar							
Zielgruppe							

122713 S - Current Topics in Biophysical Chemistry							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Mi	10:15 - 11:45	wöch.	N.N. (AG)	14.10.2026	Anja Thalhammer, Salvatore Chiantia
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Please contact Prof. Chiantia for more details about this seminar.							
Zielgruppe							

122723 FS - Aktuelle Forschungsprobleme der Elektronenmikroskopie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	FS	Mi	09:30 - 11:30	wöch.	N.N. (AG)	14.10.2026	Petra Wendler
Kommentar							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							

122825 FS - Plant Molecular Biology and Genomics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	FS	N.N.	N.N.	wöch.	N.N.	N.N.	Bernd Müller-Röber
Kommentar							
The seminar will run during the whole semester (every Monday).							
We will announce the time and room for this seminar via Email in the beginning of the semester.							
Voraussetzung							
Literatur							
Leistungsnachweis							
Bemerkung							
Lerninhalte							
Kurzkomentar							
Zielgruppe							
für Bachelor- und Masterstudierende im Rahmen der Anfertigung einer Bachelor- oder Masterarbeit; Promovierende							

Glossar

Die folgenden Begriffserklärungen zu Prüfungsleistung, Prüfungsnebenleistung und Studienleistung gelten im Bezug auf Lehrveranstaltungen für alle Ordnungen, die seit dem WiSe 2013/14 in Kraft getreten sind.

Prüfungsleistung	Prüfungsleistungen sind benotete Leistungen innerhalb eines Moduls. Aus der Benotung der Prüfungsleistung(en) bildet sich die Modulnote, die in die Gesamtnote des Studiengangs eingeht. Handelt es sich um eine unbenotete Prüfungsleistung, so muss dieses ausdrücklich („unbenotet“) in der Modulbeschreibung der fachspezifischen Ordnung geregelt sein. Weitere Informationen, auch zu den Anmeldeöglichkeiten von Prüfungsleistungen, finden Sie unter anderem in der Kommentierung der BaMa-O
Prüfungsnebenleistung	Prüfungsnebenleistungen sind für den Abschluss eines Moduls relevante Leistungen, die – soweit sie vorgesehen sind – in der Modulbeschreibung der fachspezifischen Ordnung beschrieben sind. Prüfungsnebenleistungen sind immer unbenotet und werden lediglich mit "bestanden" bzw. "nicht bestanden" bewertet. Die Modulbeschreibung regelt, ob die Prüfungsnebenleistung eine Teilnahmevoraussetzung für eine Modulprüfung oder eine Abschlussvoraussetzung für ein ganzes Modul ist. Als Teilnahmevoraussetzung für eine Modulprüfung muss die Prüfungsnebenleistung erfolgreich vor der Anmeldung bzw. Teilnahme an der Modulprüfung erbracht worden sein. Auch für Erbringung einer Prüfungsnebenleistungen wird eine Anmeldung vorausgesetzt. Diese fällt immer mit der Belegung der Lehrveranstaltung zusammen, da Prüfungsnebenleistung im Rahmen einer Lehrveranstaltungen absolviert werden. Sieht also Ihre fachspezifische Ordnung Prüfungsnebenleistungen bei Lehrveranstaltungen vor, sind diese Lehrveranstaltungen zwingend zu belegen, um die Prüfungsnebenleistung absolvieren zu können.
Studienleistung	Als Studienleistung werden Leistungen bezeichnet, die weder Prüfungsleistungen noch Prüfungsnebenleistungen sind.



Quelle: Karla Pirze

Impressum

Herausgeber

Am Neuen Palais 10
14469 Potsdam

Telefon: +49 331/977-0

Fax: +49 331/972163

E-mail: presse@uni-potsdam.de

Internet: www.uni-potsdam.de

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Ministerium für Wissenschaft, Forschung und Kultur des Landes Brandenburg
Dortustr. 36
14467 Potsdam

Inhaltliche Verantwortlichkeit i. S. v. § 5 TMG und § 55 Abs. 2 RStV

Referat für Presse- und Öffentlichkeitsarbeit
Referatsleiterin und Sprecherin der Universität
Silke Engel

Am Neuen Palais 10

14469 Potsdam

Telefon: +49 331/977-1474

Fax: +49 331/977-1130

E-mail: presse@uni-potsdam.de

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