



UNIVERSITÄT ZU LÜBECK



*Introductory Meeting
of the
1st Master Semester
“Infection Biology”
October 11, 2023*

See Recording: WebEx



UNIVERSITÄT ZU LÜBECK

Information & Communication !



Research Center Borstel
Leibniz-Center for Medicine and Biosciences

We welcome you ...



Head of Infection Biology
Prof. Dr. rer. nat. Ulrich Schaible
Research Center Borstel



Study Coordinator & Lecturer
Dr. math. et. dis. nat. Jeroen Mesters
Uni Lübeck - Institute for Biochemistry



Study Coordinator & Lecturer
Prof. Dr. rer. nat. Stefan Taube
Uni Lübeck - Institute for Virology and Cell Biology



UNIVERSITÄT ZU LÜBECK

Information & Communication !



We welcome you ...



Study Service Center
Silke Karmann



International Office
Una Doherty

Jutta Passnger (Office Ulrich Schaible)



Universität zu Lübeck

- **University Since 1985**
 - **5,000** Students
 - **150** Professors
 - **100** Private Lectures





UNIVERSITÄT ZU LÜBECK



founded 1947
ca 520 employees

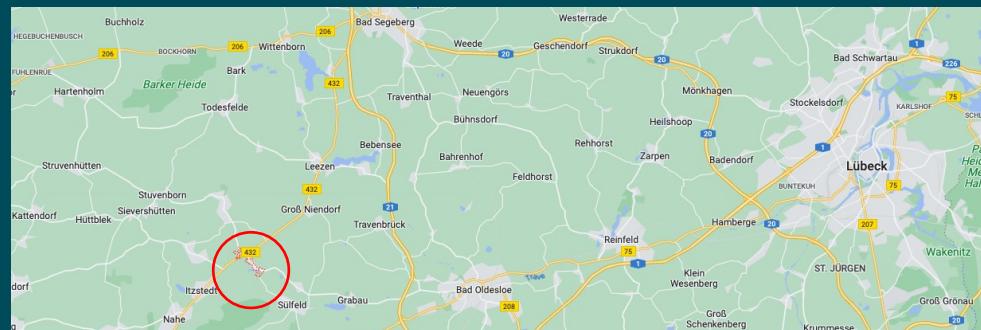


Research Center Borstel

- The Research Center Borstel RCB (German: Forschungszentrum Borstel FZB)
“Leibniz Lung Center”

is a German interdisciplinary biomedical research institution (Leibnitz)

main focus on tuberculosis and leprosy
located in Borstel in Schleswig-Holstein, ca 45 km West of Lübeck.



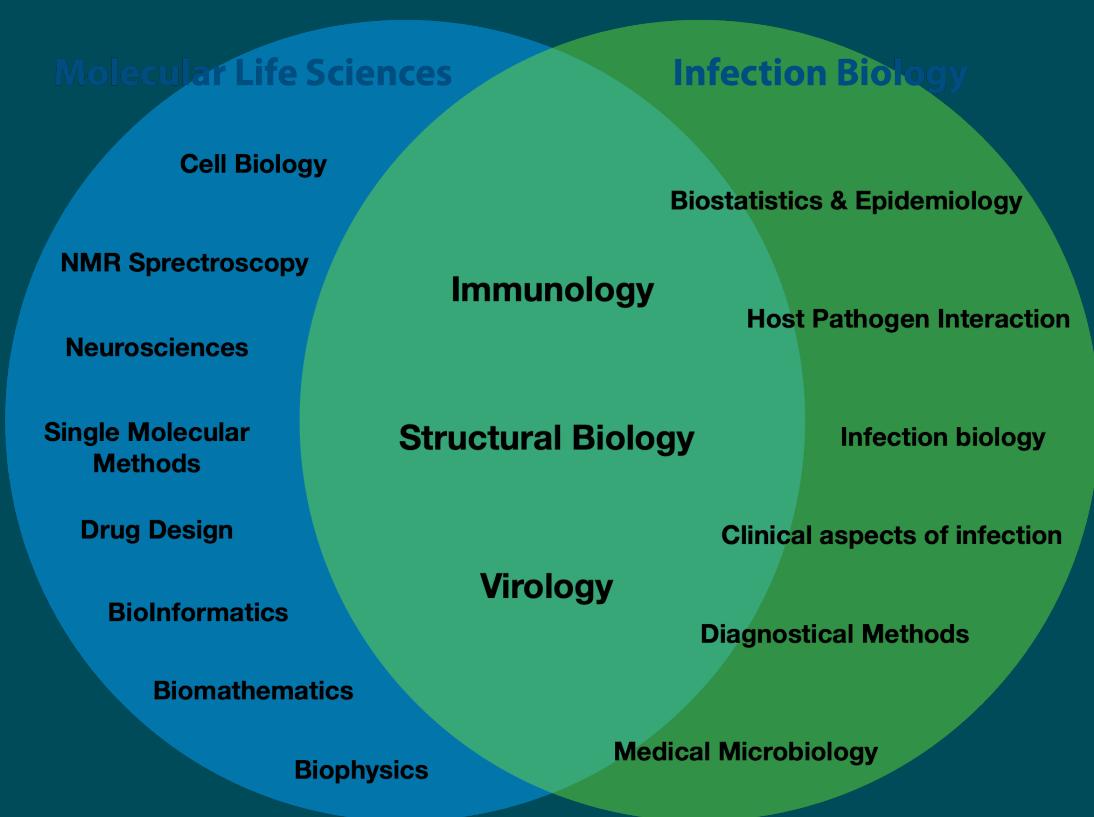


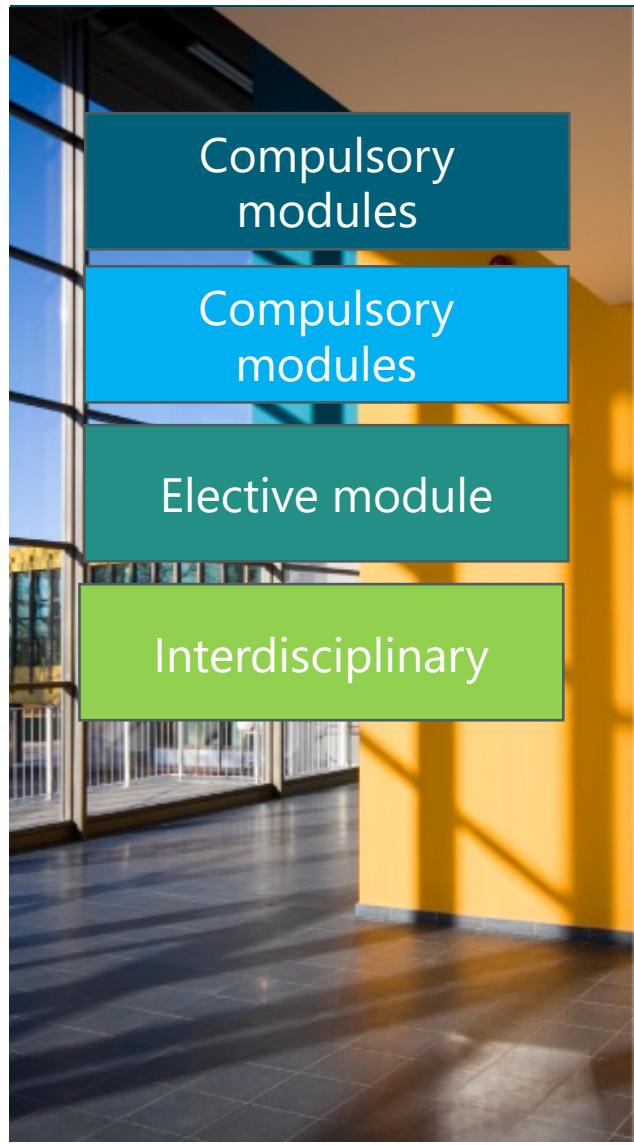
Infection Biology

- Prepares for or scientific and applied research in the field of human and animal pathogens
- Conveys broad basic theoretical knowledge of biological systems combined with practice-oriented training investigating infectious diseases
- Focus on the study of infection and structural biology



Infection Biology





Compulsory
modules

Compulsory
modules

Elective module

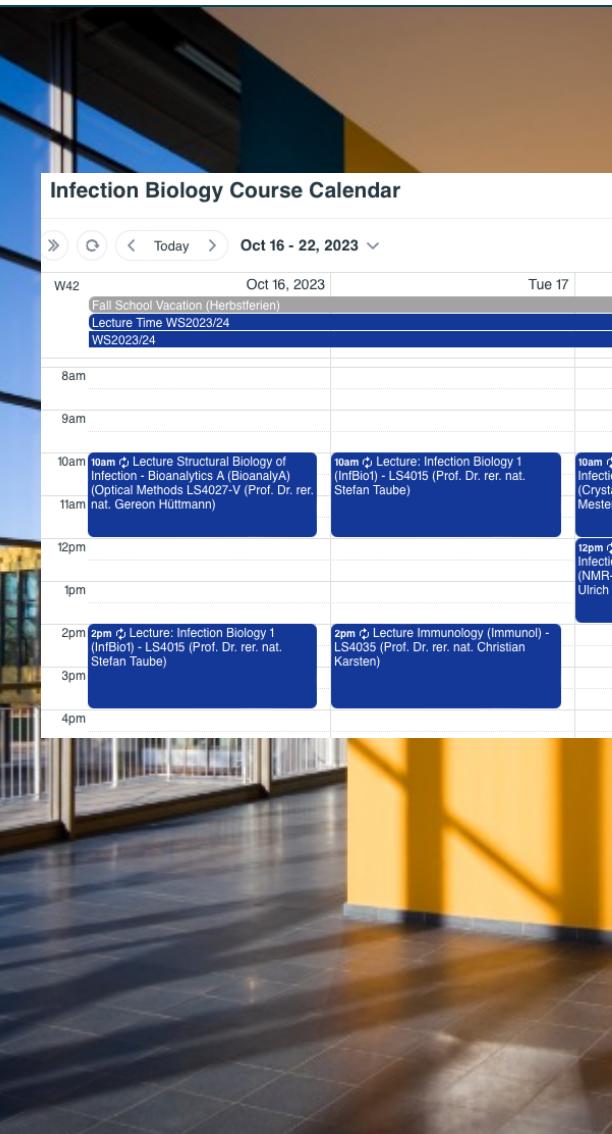
Interdisciplinary

1. Semester (30 KP)	2. Semester (31 KP)	3. Semester (29 KP)	4. Semester (30 KP)
LS4015-KP06 Infection Biology 1 6 KP (4V)	LS4145-KP05 Infection Biology 2 5 KP (2V+3P)	LS4115-KP16 Internships 16 KP (24P)	LS5995-KP30 Masterthesis in Infection Biology 23 KP
LS4035-KP06 Immunology 6KP (2V+2S)	LS4165-KP09 Model Systems of Infection 9 KP (3V+2S+2P)		
LS4045-KP06 Diagnostical Methods in Microbiology and Pathology 5 KP (2V+2P)	LS4155-KP06 Anti-microbial Therapy and Prophylaxis 6 KP (2V+2S)	LS5205-KP06 Consolidation Courses 6 KP (4S/P)	
MA1610-KP05 Biostatistics and Epidemiology 6 KP (5V+1Ü)	Clinical and Experimental Aspects of Host Pathogen Interaction 6 KP (2V + 2S/P)	LS5995-KP30 Begin Masterthesis in Infection Biology 7 KP	PS4610-KP07 Ethic in Science / Scientific Writing 7 KP (4S)
LS4021-KP06 Structural Biology of Infection 6 KP (4V)	LS4175-KP06 Medical Microbiology 6 KP (4S)		
6 Exams	4 Exams	4 Exams	1 Exam
Semester hours per week (SWS): Vorlesung / Übung / Praktikum / Seminar (Lecture / Exercise / Practical / Seminar)			
Compulsory modules	Elective module	Compulsory modules	Interdisciplinary

“Course Regulations”



InfBiol Calendar



Infection Biology Course Calendar

Administrator

Today Oct 16 - 22, 2023

W42	Oct 16, 2023	Tue 17	Wed 18	Thu 19	Fri 20	Sat 21	Sun 22
	Fall School Vacation (Herbstferien) Lecture Time WS2023/24 WS2023/24						
8am							
9am							
10am	10am ⚡ Lecture Structural Biology of Infection - Bioanalytics A (BioanalyA) (Optical Methods LS4027-V (Prof. Dr. rer. nat. Gereon Hüttmann)	10am ⚡ Lecture: Infection Biology 1 (InfBiol) - LS4015 (Prof. Dr. rer. nat. Stefan Taube)	10am ⚡ Lecture Structural Biology of Infection - Bioanalytics A (BioanalyA) (Crystallography LS4021-V (Dr. Jeroen Mesters))	8am ⚡ Lecture: Applied Biostatistics and Epidemiology (BiostaEpt) - MA1610- KP06 Part A (Dr. rer. hum. biol. Nora Gern) ⚡ Exercise: Applied Biostatistics and Epidemiology (BiostaEpt) - MA1610- KP06 Part A (Dr. rer. hum. biol. Nora Gern)	10am ⚡ Lecture: Diagnostical Methods in Microbiology and Pathology (DiagMiPat) - LS4045 (Dr. med. Dennis Nurjadi)	10am ⚡ Lecture: Clinical Aspects of Infection (ClinAsp) - LS4025-L1 (Prof. Dr. med. Jan Rupp)	
11am							
12pm			12pm ⚡ Lecture Structural Biology of Infection - Bioanalytics B (BioanalyB) (NMR-Spectroscopy) (Prof. Dr. rer. nat. Ulrich Günther)				
1pm							
2pm	2pm ⚡ Lecture: Infection Biology 1 (InfBiol) - LS4015 (Prof. Dr. rer. nat. Stefan Taube)	2pm ⚡ Lecture Immunology (Immunol) - LS4035 (Prof. Dr. rer. nat. Christian Karsten)			12pm ⚡ Lecture Structural Biology of Infection - Bioanalytics B (BioanalyB) (Single Molecule Methods) (Prof. Dr. rer. nat. Christian Hübner)		
3pm							
4pm							

- Web-based: <https://teamup.com/ksfd7w2vr3p6p8zse5>
- Subscribe i.e. in Outlook via
- [https://ics.teamup.com/feed/ks2rjcwojpwszjfs5d/0.ics.](https://ics.teamup.com/feed/ks2rjcwojpwszjfs5d/0.ics)



1st Semester

1. Semester (30 KP)	
LS4015-KP06	Infection Biology 1
6 KP (4V)	
MZ5111-KP06	Immunology
6KP (2V+2S)	
MA1610-KP06	Applied Biostatistics
6 KP (5V+1P)	
LS4037-KP06	Clinical and Infection
6 KP (5V+1P)	
LS4045-KP05	Diagnostical Methods in Microbiology and Pathology
5 KP (2V+2P)	
LS4021-KP06	Structural Biology of Infection
6 KP (4V)	
6 Prüfungen	

- Infection Biology 1 (LS4015-KP06, InfBio1): written exam
prerequisite for InfBio2 + PC
- Immunology (LS4035-KP06, Immunol): graded seminar + written exam
- Applied Biostatistics and Epidemiology (MA1610-KP06, BiostatEp1):
 - 1st (Winter)-Semester: MA1610-L1
Part A: Applied Biostatistics (3 KP)
Lecture (graded oral exam)
Exercise
 - 2nd (Summer)- Semester: MA1610-L2
Part B: Epidemiology (3KP)
(graded oral exam)



1st Semester

1. Semester (30 KP)	
LS4015-KP06	Infection Biology 1 6 KP (4V)
MZ5111-KP06	Immunology 6KP (2V+2S)
MA1610-KP06	Applied Biostatistics 6 KP (5V)
LS4037-KP06	Clinical and Infection 6 KP
LS4045-KP05	Diagnostical Methods in Microbiology and Pathology 5 KP (2V+2P)
LS4021-KP06	Structural Biology of Infection 6 KP (4V)
6 Prüfungen	

- Clinical and Experimental Aspects of Host Pathogen Interaction (LS4037-KP06)
 - 1st (Winter)-Semester:
Clinical Aspects of Infection
(LS4025-L1, ClinAsp)
partial exam (graded exam, 2 KP)
 - 2nd (Summer)-Semester:
Analysis of Host Pathogen Interaction
(LS4185-L1, HostPatInt)
Choice of 1 of 2 courses:
 - LS4185 A:
Analysis of Host-Pathogen Interaction
or
 - LS4185 B:
Rational Drug Designpartial exam (graded exam, 4 KP)



1st Semester

1. Semester (30 KP)	
LS4015-KP06	Infection Biology 1 6 KP (4V)
MZ5111-KP06	Immunology 6KP (2V+2S)
MA1610-KP06	Applied Biostatistics 6 KP (5V)
LS4037-KP06	Clinical and Infection 6 KP
LS4045-KP05	Diagnostical Methods in Microbiology and Pathology 5 KP (2V+2P)
LS4021-KP06	Structural Biology of Infection 6 KP (4V)
6 Prüfungen	

- Diagnostical Methods in Microbiology and Pathology (LS4045-KP05, DiagMiPat): graded seminar, written exam and practical course
- Practical starts January 10th (4x Wednesdays)
prerequisite for InfBio2 + PC



1st Semester

1. Semester (30 KP)	
LS4015-KP06	Infection Biology 1
6 KP (4V)	
MZ5111-KP06	Immunology
6KP (2V+2S)	
MA1610-KP06	Applied Biostatistics
6 KP (5V)	
LS4037-KP06	Clinical and Infection
6 KP (5V)	
LS4045-KP05	Diagnostical Methods in Microbiology and Pathology
5 KP (2V+2P)	
LS4021-KP06	Structural Biology of Infection
6 KP (4V)	
6 Prüfungen	

- LS4021-KP06: Structural Biology of Infection, (StrucBiol)
select two out of six courses, all written exams
- 1st (Winter)-Semester
- LS4026: Bioanalytics A (BioanalyA)
 - Module part LS4021: **Crystallography**
 - Module part LS4027: **Optical Methods**
- LS4027: Bioanalytics B (BioanalyB)
 - Module part LS4020B: **NMR Spectroscopy**
 - Module part LS4020C: **Single Molecule Methods**
- 2nd (Summer)-Semester (not confirmed yet)
 - Module part LS4020 E: (MemBiophy) Basic Membrane Biophysics
 - Module part LS4020 F: (ProBioPhy2) Protein-Biophysics



2nd Semester

2. Semester (31 KP)
LS4145-KP05 Infection Biology 2 5 KP (2V+3P)
LS4165-KP09 Model Systems of Infection 9 KP (3V+2S+2P)
Epidemiology and Epidemiology 5 KP (2V+1Ü)
Experimental Aspects of Infection 5 KP (2V + 2S/P)
LS4155-KP06 Anti-microbial Therapy and Prophylaxis 6 KP (2V+2S)
LS4175-KP06 Medical Microbiology 6 KP (2S)
4 Prüfungen

- LS4145-KP05 **Infection Biology 2** (InfBiol2): graded presentation with interrogation
prerequisite for Master Thesis
- LS4165-KP09 **Model Systems of Infection** (ModSysInf): presentation + written exam + practical
- 2nd (Summer)- Semester: MA1610-L2 Epidemiology (3KP) (graded oral exam)
- 2nd (Summer)-Semester: Analysis of Host Pathogen Interaction (LS4185-L1, HostPatInt)
Choice of 2 courses:
 - LS4185 A: Analysis of Host-Pathogen Interaction or
 - LS4185 B: Rational Drug Design



2nd Semester

2. Semester (31 KP)	
LS4145-KP05	Infection Biology 2 5 KP (2V+3P)
LS4165-KP09	Model Systems of Infection 9 KP (3V+2S+2P)
and Epidemiology (V+1Ü)	
Experimental Aspects of	(2V + 2S/P)
LS4155-KP06	Anti-microbial Therapy and Prophylaxis 6 KP (2V+2S)
LS4175-KP06	Medical Microbiology 6 KP (2S)
4 Prüfungen	

- LS4155-KP06 Anti-Microbial Therapy and Prophylaxis (AntTherPro): written exam + graded seminar
- LS4175-KP06 Medical Microbiology (MedMicro): select two courses out of four, graded presentation



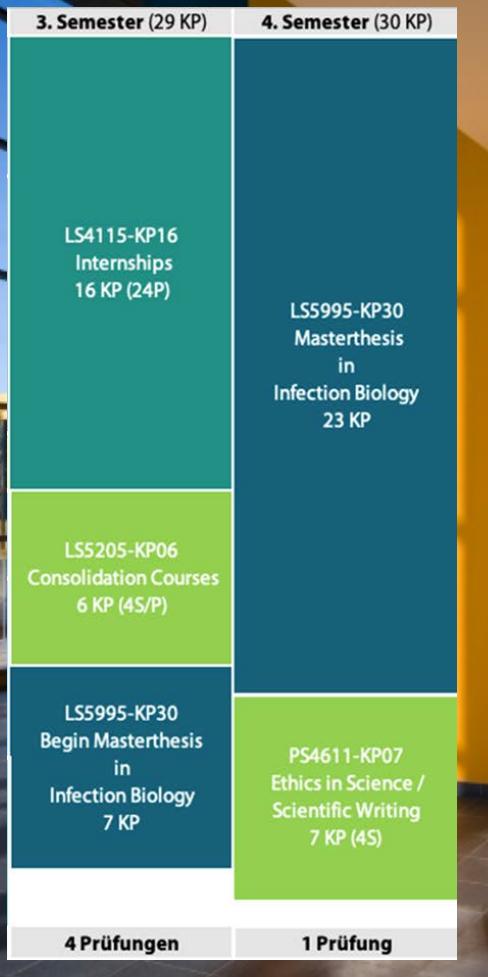
3/4 Semester

3. Semester (29 KP)	4. Semester (30 KP)
LS4115-KP16 Internships 16 KP (24P)	LS5995-KP30 Masterthesis in Infection Biology 23 KP
LS5205-KP06 Consolidation Courses 6 KP (4S/P)	
LS5995-KP30 Begin Masterthesis in Infection Biology 7 KP	PS4611-KP07 Ethics in Science / Scientific Writing 7 KP (4S)
4 Prüfungen	1 Prüfung

- LS4115-KP16 **Internships** (PC):
 - two parts (no fixed start dates)
 - can be done world-wide
 - separate information event
 - One **Moodle course** for all semesters <<[here](#)>>
 - Exam as a colloquium
 - Exam offered twice a year (spring/fall)
 - Exam registration via: <https://masters-lifescience.uni-luebeck.de>
 - One internship => seminar presentation
 - One internship => poster presentation
 - Next exam March 15th 2024 you can



3/4 Semester



- LS5205-KP06 **Consolidation Courses (ConsoleIB):**

- You choose two courses
 - Some courses are offered
 - 1 week in spring
 - Once a week through-out the semester
- separate information event
- ungraded exam



3/4 Semester

3. Semester (29 KP)	4. Semester (30 KP)
LS4115-KP16 Internships 16 KP (24P)	LS5995-KP30 Masterthesis in Infection Biology 23 KP
LS5205-KP06 Consolidation Courses 6 KP (4S/P)	
LS5995-KP30 Begin Masterthesis in Infection Biology 7 KP	PS4611-KP07 Ethics in Science / Scientific Writing 7 KP (4S)
4 Prüfungen	1 Prüfung

- PS4611-KP07 Ethics in Sciences / Scientific Writing (EthScWrIB): two parts

1st and 3rd (Winter)-Semester

- PS4611-S Scientific Writing (3 KP)
(ungraded exam, seminar and project work)
- Organized by Prof. Jens Mittag
- 4th (Summer)-Semester
 - Could be done in the 2nd Semester as well
 - PS4621-S: Ethics in Infection Biology and Public Health (4KP)
(ungraded exam)



3/4 Semester

3. Semester (29 KP)	4. Semester (30 KP)
LS4115-KP16 Internships 16 KP (24P)	LS5995-KP30 Masterthesis in Infection Biology 23 KP
LS5205-KP06 Consolidation Courses 6 KP (4S/P)	
LS5995-KP30 Begin Masterthesis in Infection Biology 7 KP	PS4611-KP07 Ethics in Science / Scientific Writing 7 KP (4S)
4 Prüfungen	1 Prüfung

- **Master Thesis Infection Biology (LS5995-KP30, MScThesis):**
 - Can be done world-wide
 - Can be done internally
 - University of Lübeck
 - UKSH
 - Research Center Borstel
 - Frauenhofer IMTE
 - One internship or the Master thesis needs to be done in internally
 - Registration via Study Service Center (SSC)



Module leaders



If you have course specific questions,
contact the module leader

- Prof. Ulrich Schaible (Borstel)
 - Infection Biology 1
- Prof. Stefan Taube
 - Infection Biology 2
 - Medical Microbiology
 - Internship
 - Consolidating in Infection Biology
 - Master Thesis Infection Biology
- Prof. Jan Rupp
 - Clinical and Experimental Aspects of Host Pathogen Interaction
 - Diagnostical Methods in Microbiology and Pathology
- Dr. Nora Eisenmann
 - Biostatistic /
- Epidemiology
- Prof. Christian Karsten
 - Immunology
- Prof. Rehmann Sutter
 - Ethics in Science
 - Scientific Writing (also Prof. Dr. Jens Mittag)
- Prof. Christian Hübner
 - Structure Biology
- Prof. Peter König
 - Host Pathogen Interaction
- Prof. Thomas Krey
 - Antimicrobial Therapy
- Dr. Christoph Hölscher (Borstel)
 - Model Systems



Practicals

- Diagnostical Methods in Microbiology and Pathology
 - Starting January 10th 2024 (4 single days)
- Infection Biology 2
 - Basic Labtraining SS2024 (2 individual appointments in the SS)
 - September 2024 t.b.d. (2 weeks)
- Model Systems of Infection
 - Starting September t.b.d. (1 week)
- Internships (3rd Semester)
 - Info [here](#)
- Consolidation Courses (3rd Semester)
 - Info [here](#)



Exams Policies

- <https://www.uni-luebeck.de/studium/studiengaenge/infection-biology/master/examination-policy.html>
 - The exams of the MINT-study courses are centrally organized.
 - A regular and successful participation in the teaching modules, apart from the self-study, is strongly recommended as a solid preparation for the examinations.
 - The total amount of time allocated to a written examination is usually between 60 and 180 minutes (Examination Regulations).
 - Exam participation must be registered via QiS before the registration deadline.



Exams Policies

- <https://www.uni-luebeck.de/studium/studiengaenge/infection-biology/master/examination-policy.html>
 - For more information about date/time and place consult the UnivIS and follow the link for the IB studies. In case of inconsistencies, please immediately inform the module responsible person
 - Persons who, due to physical/mental limitations, can obtain a "green-card" and can apply for a change of examination conditions may submit a formal request to the examination board 2 weeks before the exam takes place.



Exams

- <https://univis.uni-luebeck.de>
- <https://www.uni-luebeck.de/studium/organisatorisches/klausurplaene-minstudiengaenge.html>

Klausurplan Sommersemester		Klausurtermin		Nach-Klausurtermin	
Stand dieses Plans:	28.02.2020	Ende SS:	17.07.2020	Anfang WS:	19.10.2020
		Mo, 20. Jul 20	Do, 23. Jul 20	Mo, 27. Jul 20	Mo, 29. Jul 20
		Di, 21. Jul 20	Fr, 24. Jul 20	Di, 28. Jul 20	Di, 30. Jul 20
		Mi, 22. Jul 20			Fr, 31. Jul 20
					Mo, 3. Aug 20
					Mo, 14. Aug 20
					Mo, 21. Aug 20
					Do, 1. Okt 20
					Fr, 2. Okt 20
					Mo, 5. Okt 20
					Di, 6. Okt 20
					Mi, 7. Okt 20
					Do, 8. Okt 20
					Fr, 9. Okt 20
					Mo, 12. Okt 20
					Di, 13. Okt 20
					Mi, 14. Okt 20
					Do, 15. Okt 20
					Fr, 16. Okt 20
Modul-Nr.	Modulname				
IB					
LS4110 / L	Wirkstoffforschung (Host-Pathogen)		x		x
LS4131	Biophysik2-A (Grundlagen der Biophysik)	x			x
LS4135	Protein-Biophysics (ProteinBiophysik)		x		x
LS4145	Infection Biology 2	VUZ		x	x
LS4155	Anti-microbial therapy and pathogen	IMM	x		x
LS4165	Model Systems of Infection	Borstel	x		x
LS4185-A	Host-Pathogen Interaction	Anat		x	
MA1610	Applied Epidemiology and Biostatistics	EduE	x		x
PS4610 / F	Scientific Writing	IMM			
PS4610 / F	Forschungsethik der biomedizinischen Wissenschaften	IMGWF			x

Example



UNIVERSITÄT ZU LÜBECK

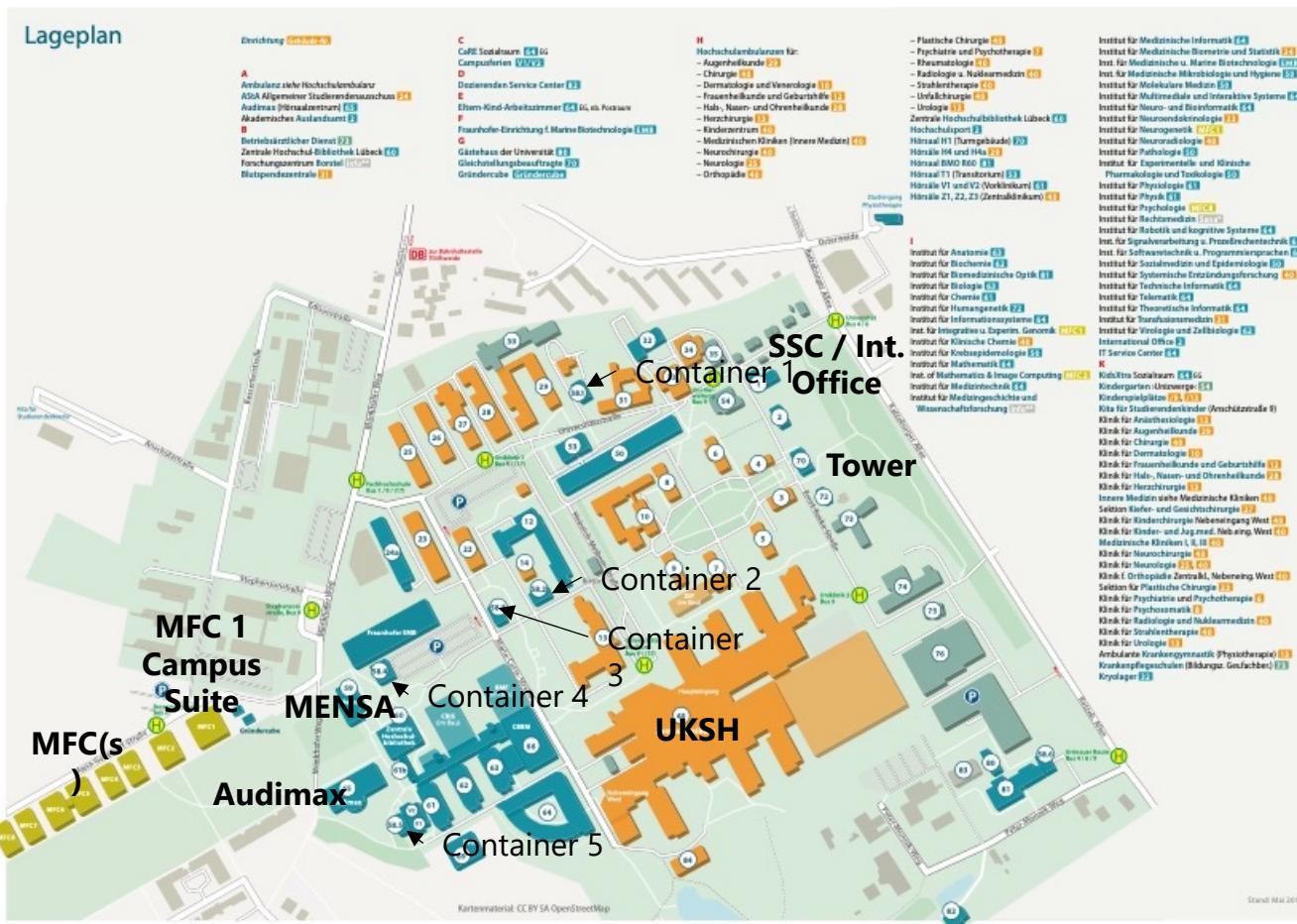


Examination committee





Campusplan

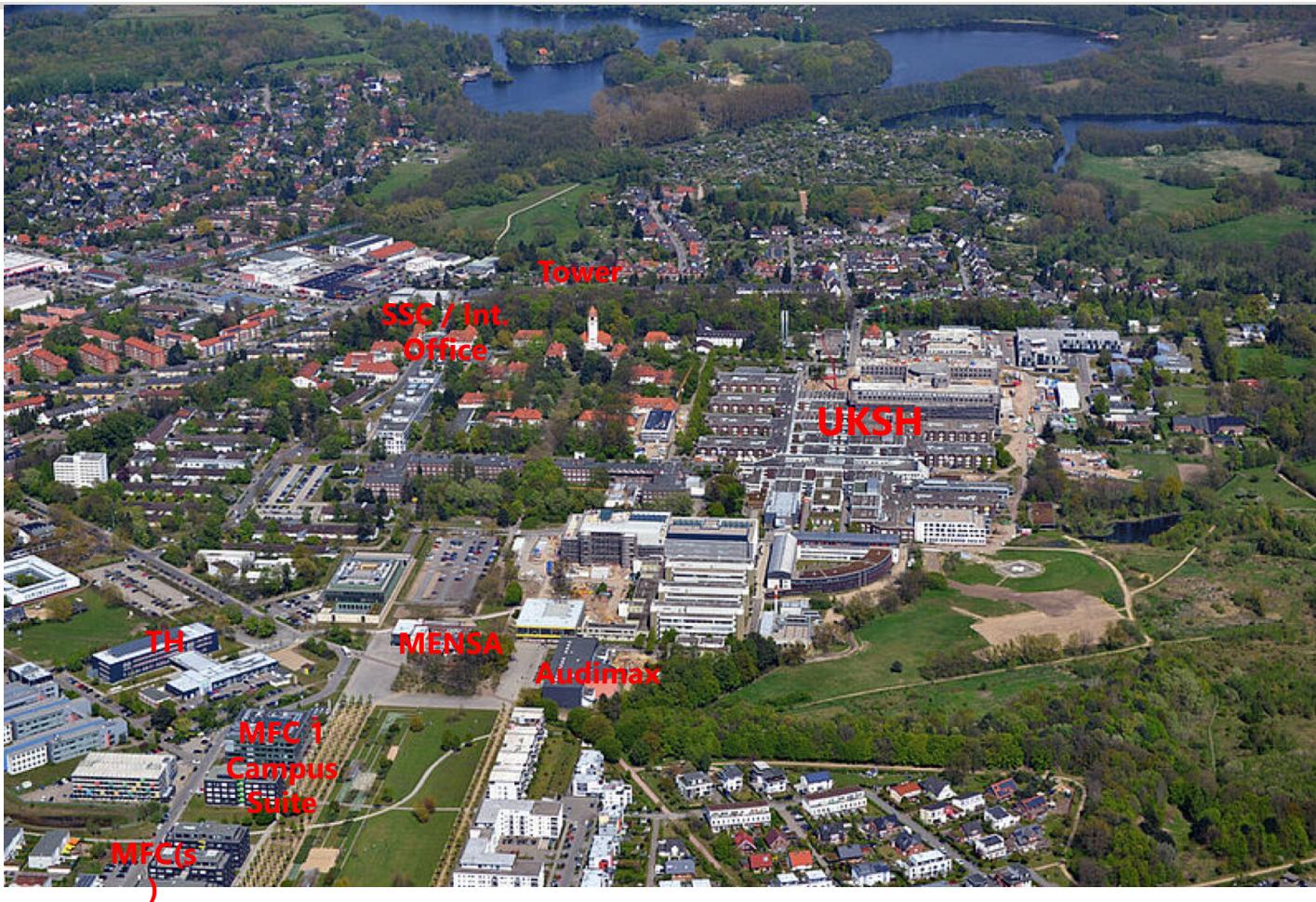




Campusplan

Lübeck
City

Groß
Grönau



International Office



Building 2

- information and services regarding your studies or your research stay
- information on opportunities for studying abroad
- Language Courses
- Scholarships
- Student ID



International Office : <http://www.uni-luebeck.de/index.php?id=876&L=1>



„Hot spots“

- Library:** 1
Mon - Fri: 9 am - 11.30 pm
Sat: 9 am - 6 pm
Sun: 1 pm - 6 pm
- Canteen:** 2
Mon - Fri: 11 am - 2 pm
- “Personalcasino”:** 3
Mon - Fri: 7 - 10:30 am
and 11:15 am - 6 pm
- Bakery “Junge”:** 4
Mon - Fri: 6.30 am - 6 pm
Sat and Sun: 7.30 am - 5 pm
- Campus Suite:** 5 (MFC)
Mon - Thu: 7.30 am - 5.30 pm
Fri: 7.30 am - 5 pm
- Cafeteria:** 6
Mon - Fri : 8.00 am - 4.00 pm





Lecture halls

Name	Building	
AM/AMS	65	"Audimax"
Banach	64	3 rd floor, room 3.014
H1	70	the tower building
Hilbert	64	3 rd floor, room 3.015
ITCS	64	2 nd floor, room 2.021
KT	53	
"Mikroskopiersaal"	63	ground floor, room 40
Minsky	64	ground floor, room 0.067
S3b	40	"Zentralklinikum"
"Seminarraum 1"	50	1 st floor, room 512
V1/V2	61	





Semester Ticket

Since May 1st, the nationwide valid “Deutschlandticket” will be available for €49 per month. In the following, we want to inform you about this ticket and its connection to the semester ticket Overview:

- The **semester ticket remains valid only in Schleswig-Holstein and Hamburg.**
 - There is an **upgrade option** by which an existing semester ticket can be converted to a Deutschlandticket for the monthly price difference of **€16.40**.
 - You may order the semester ticket upgrade at <https://www.nah.sh/de/fahrkarten/landesweites-semesterticket/semesterticket-upgrade/>.
 - The semester ticket upgrade is – as well as the ordinary Deutschlandticket – only available as **monthly terminable subscription**. The upgrade is optional.
 - The price for the semester ticket upgrade must be paid by **SEPA Direct Debit Scheme** (your bank account is charged monthly).
 - To order the upgrade, your semester fee must be paid and listed correctly in the uni system. The verification process is the same as in the ordering of the normal semester ticket.
 - The upgrade ticket subscription terminates automatically at the end of the semester. Furthermore, you may terminate the subscription anytime. Note that **the termination for the following month must then be submitted until the 10th of a month**.
 - The upgrade is available as mobile ticket in the **Nah.SH** app and DB Navigator, and can be ordered any time, also for each current month until the 28th.
 - When using the digital Deutschlandticket in the Nah.SH-App, note that it can hold only one ticket at a time. To insert a Deutschlandticket into the app, a potential semester ticket must be removed from the app beforehand, and after the Deutschlandticket subscription has expired, the “old” semester ticket must be inserted again using ticket number and date of birth.
 - From August on, you can alternatively get a paper ticket for self-print. The ticket must be ordered until the 15th of the previous month, will be sent to you by mail at the end of each month and must be printed on DIN A4.
- Note that “DB Vertrieb GmbH | Abo-Center der Deutschen Bahn” is in charge of the upgrade ticket. You may manage your subscription online at <https://www.bahn.de/aboportal>.

<https://www.asta.uni-luebeck.de/service/deutschlandticket/>



Student ID card



- **Identification @ Uni Lübeck**
i.e. for examinations
- **Free Bus+Train:**
Lübeck , SH + Hamburg
- **Free Ferry:**
Travemünde “Privall”
- **You will also get a discount at:**
 - Public libraries
 - Museums and theaters
 - Indoor swimming pools



UNIVERSITÄT ZU LÜBECK

Any Questions ?



Research Center Borstel
Leibniz-Center for Medicine and Biosciences

If you have any questions send us an email or make an appointment



Head of Infection Biology
Prof. Dr. rer. nat. Ulrich Schaible
Research Center Borstel



Study Coordinator & Lecturer
Dr. math. et. dis. nat. Jeroen Mesters
Uni Lübeck - Institute for Biochemistry



Study Coordinator & Lecturer
Prof. Dr. rer. nat. Stefan Taube
Uni Lübeck - Institute for Virology and Cell Biology



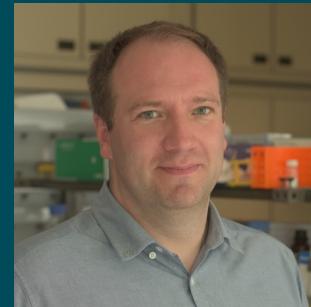
Any Questions ?



Mental health safety net

<https://moodle.uni-luebeck.de/course/view.php?id=6191>

Guidance Lecturer (Vertrauensdozent):



Prof. Dr. Lars Redecke
by telephone between 9 a.m. and 5 p.m.

Email: redecke@biochem.uni-luebeck.de

Tel.: +49 0451 3101 3117

- Trusted Student Representatives
- Student telephone counselling:
Providing a sympathetic ear
- Learning and exam coaching (for Lübeck
students, free of charge and
confidential)



UNIVERSITÄT ZU LÜBECK



<https://www.hochschulsport-luebeck.de>



Enjoy your time in Lübeck