

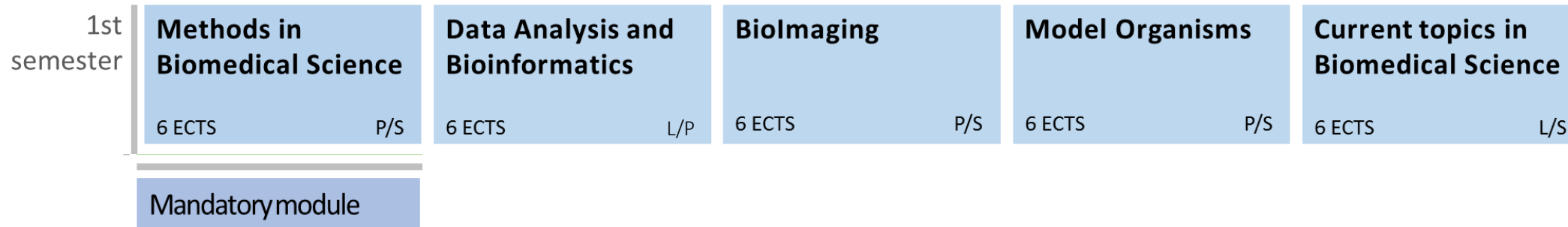
Prof. Dr. Thomas Gudermann (MED) - Speaker  
Prof. Dr. Heinrich Leonhardt (BIO) - Speaker  
Prof. Dr. Martin Kerschensteiner (MED) – Head of examination board

# Master of Science, Human Biology – Principles of Health and Disease

Introduction – 09.10.2023 – Biocenter LMU – online

# The curriculum

- Practical courses
- Seminars
- Lectures



# The curriculum

1st semester	<b>Methods in Biomedical Science</b> 6 ECTS P/S	<b>Data Analysis and Bioinformatics</b> 6 ECTS L/P	<b>Biolmaging</b> 6 ECTS P/S	<b>Model Organisms</b> 6 ECTS P/S	<b>Current topics in Biomedical Science</b> 6 ECTS L/S	!
2nd semester	<b>Main topic (1 of 2)</b> Epigenetics • Molecular Microbiology 9 ECTS L/P/S	<b>Research practical (1 of 2)</b> Epigenetics • Molecular Microbiology 12 ECTS RP/S		<b>Interdisciplinary Module</b> 9 ECTS L/P/S	<b>Transferable Skills</b> 9 ECTS L/P/S	
3rd semester	<b>Main topic (1 of 3)</b> Neurosciences • Molecular oncology • Cardio & Lung Research 9 ECTS L/P/S	<b>Research practical (1 of 3)</b> Neurosciences • Molecular oncology • Cardio & Lung Research 12 ECTS RP/S				
	Mandatory module	Elective module	Colloquium, Disputation, Lecture, Practical course, Research, Seminar			

- Cell Biology, Stem Cells and Epigenetics (2<sup>nd</sup>)
- Microbiology, Infection & Immunology (2<sup>nd</sup>)
- Neurosciences (3<sup>rd</sup>)
- Molecular Oncology (3<sup>rd</sup>)
- Cardiovascular, Lung & Metabolism (3<sup>rd</sup>)

# The main topics

2nd semester	<b>Main topic (1 of 2)</b> Epigenetics • Molecular Microbiology 9 ECTS L/P/S	<b>Research practical (1 of 2)</b> Epigenetics • Molecular Microbiology 12 ECTS RP/S
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- Cell Biology, Stem Cells and Epigenetics (2<sup>nd</sup> )
- Microbiology, Infection & Immunology (2<sup>nd</sup> )
- Neurosciences (3<sup>rd</sup>)
- Molecular Oncology (3<sup>rd</sup>)
- Cardiovascular, Lung & Metabolism (3<sup>rd</sup>)

## UNIT I

- Lecture, Practical course, Seminar

## UNIT II

- Research practical (RP), group seminar
- 8 weeks
- MHB-Members (internal)
- Only one external RP

Independent Units

# The curriculum

1st semester	<b>Methods in Biomedical Science</b> 6 ECTS P/S	<b>Data Analysis and Bioinformatics</b> 6 ECTS P/S	<b>Biolmaging</b> 6 ECTS P/S	<b>Model Organisms</b> 6 ECTS P/S	<b>Current topics in Biomedical Science</b> 6 ECTS L/S
2nd semester	<b>Main topic (1 of 2)</b> Epigenetics • Molecular Microbiology 9 ECTS L/P/S	<b>Research practical (1 of 2)</b> Epigenetics • Molecular Microbiology 12 ECTS RP/S	<b>Interdisciplinary Module</b> 9 ECTS L/P/S		
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4th semester	<b>Master Module</b> 24 weeks 30 ECTS Thesis/S/C/D				
	Mandatory module	Elective module	Colloquium, Disputation, Lecture, Practical course, Research, Seminar		

# The 1<sup>st</sup> semester

09.10 - 13.10	Welcome week
16.10. - 20.10.	P2 Comp. Biology Part 1
23.10. - 27.10.	P1 Lab methods
30.10. - 03.11.	
06.11. - 10.11.	
13.11. - 17.11.	P2 Comp. Biology Part 2
20.11. - 24.11.	
27.11. - 01.12.	
04.12. - 08.12.	P3 Bioluminescence
11.12. - 15.12.	
18.12. - 22.12.	
25.12. - 29.12.	Christmas holidays
01.01. - 05.01.	

08.01. - 12.01.	P4 Model-Organisms
15.01. - 19.01.	
22.01. - 26.01.	
29.01. - 02.02.	exams
05.02. - 09.02.	
12.02. - 16.02.	e.g. for elective practical courses
19.02. - 23.02.	
26.02. - 01.03.	
04.03. - 08.03.	
11.03. - 15.03.	
18.03. - 22.03.	
25.03. - 29.03.	
01.04. - 05.04.	
08.04. - 12.04.	Nächstes Semester
15.04. - 19.04.	
22.04. -	

# The 1<sup>st</sup> semester

Monday	Tuesday	Wednesday	Thursday	Friday	
		<b>08:00 - 10:00 Lecture / Seminar Slot</b>			
		<b>10:00 - 17:00 Slot for Practical courses</b>			
<b>LECTURE - DAY</b> Mandatory: 16:30 Lecture Current topics ( <b>P5</b> )		<b>P1</b> Lab Methods in Human Biology "The essentials" 24.10 – 10.11 <b>P 2</b> Data analysis (Computational Biology Part 1 and Part 2) 17.10. – 20.10. and 14.11. – 03.12. <b>P 3</b> Biolmaging 05.12. – 22.12. <b>P 4</b> Modelorganisms 09.01. – 26.01.			
		<b>17:00 - open end Seminar Slot</b>			
		Mandatory: Thursday: 17:30-19:30 (Current topics, seminar, P5)			

# The 1<sup>st</sup> semester

- **15.10.**  
Brunch Meeting with the cohorte before you!
- **19.10.**  
Time management course
- **25.10.**  
Get to know yourself – As a teamplayer!



An important link

Vorlesungsverzeichnis/  
Course catalogue/  
[www.lsf.lmu.de](http://www.lsf.lmu.de)

# Course catalogue



You are here: **Home**



[Course catalogue](#)

[Lectures cancelled today](#)


[Search for courses](#)

[Search for persons](#)

[Search for rooms](#)

[University structure](#)

Welcome to LSF - the university portal for students, g

 Please note that you can use all the functions in the left column (e.g. search) without logging in.

LMU user account

@campus.lmu.de or @lmu.de

Password

[Forgot your password?](#) [Register for access](#)

# Course catalogue

## Course catalogue

Lectures cancelled today

Search for courses

Search for persons

Search for rooms

University structure

## Course catalogue (WiSe 2021/22)

- [i Vorlesungsverzeichnis](#)
- [i Courses across faculties](#)
- [i Faculty of Catholic Theology](#)
- [i Faculty of Protestant Theology](#)
- [i Faculty of Law](#)
- [i Faculty of Business Administration](#)
- [i Faculty of Economics](#)
- [i Faculty of Medicine](#)
- [i Faculty of Veterinary Medicine](#)
- [i Faculty of History and the Arts](#)
- [i Faculty of Philosophy, Philosophy of Science and Religious Studies](#)
- [i Faculty of Psychology and Educational Sciences](#)
- [i Faculty of Cultural Sciences](#)
- [i Faculty of Languages and Literatures](#)
- [i Faculty of Social Sciences](#)
- [i Faculty of Mathematics, Computer Science and Statistics](#)
- [i Faculty of Physics](#)
- [i Faculty of Chemistry and Pharmacy](#)
- [i Faculty of Biology](#)
- [i Faculty of Geosciences](#)
- [i Internationale Angelegenheiten](#)

# Course catalogue

You are here: [Home](#) ▶ [Course catalogue](#)

## Course catalogue

Lectures cancelled today

Search for courses

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University structure

## Course catalogue (WiSe 2021/22)

[i](#) **Vorlesungsverzeichnis**

 [i](#) **Faculty of Biology**

[i](#) **Courses of the faculty**

Lect.-No.	Lecture
19041	Berufsbilder für BiologInnen - Brachmann , H. Jung ,

[i](#) **A) Bachelor Start ab WS 20/21**

[i](#) **A) Bachelor Start vor WS 19/20**

 [i](#) **B) Master Human Biology - principles of health and disease**

[i](#) **B) Master Molecular and Cellular Biology**

[i](#) **B) Master Neuroscience**

[i](#) **B) Master Plant Sciences**

[i](#) **B) Master Evolution, Ecology and Systematics**

# Course catalogue

## Course catalogue (WiSe 2023/24)

### ① Vorlesungsverzeichnis

#### ① Faculty of Biology

##### ① Courses of the faculty

##### ① B) Master Human Biology - principles of health and disease

##### ① 1. Semester

##### ① Transferable Skills Module - Schlüsselqualifikationen

Lect.- No.	Lecture	Type	Activity
04070	impACTup!: Innovation and Entrepreneurship for Better Futures - Spanjol	seminar	application currently not allowed
19055	Vorlesung: Berufsbilder für BiologInnen - Brachmann , H. Jung	lecture	
19265	Practical course and Seminar: Applications of Machine Learning in Biology - Leonhardt	seminar	application currently not allowed
19266	Get to know yourself - As a teamplayer!	seminar	register/cancel
19267	Time Management	seminar	register/cancel
19268	An Introduction to R - Grath , Metzler	exercise course	application currently not allowed

➔ Application between  
09.10 – 12.10.

# Course catalogue

- Transcript
- Schedules
- Course catalogue**
- Search for courses
- List of exams registered for
- Register for exams
- Register for courses
- Stay abroad
- << Hide menu



Course catalogue (WiSe 2023/24)

Navigation: → : show complete tree **Link :**

- ① **Vorlesungsverzeichnis**
  - ① **Faculty of Biology**
    - ① **Courses of the faculty**
      - ① **B) Master Human Biology - principles of health and disease**
        - ① **1. Semester**

The first semester consists of **five compulsory modules**. The modules P1 - P4 take place as a block. compulsory modules from the 1st semester must be passed by the end of the 4th semester. Please note that the 4th semester, but only in the winter semester, i.e. in the 1st and 3rd semester.

Lect.-No.	Lecture
19200	Master Welcome Event - Meilinger
19202	Introduction to Master MCB, PLS, MHB - H. Jung , Nägele , Leonhardt , K. Jung , Leister , Parniske , Starck , Osman , Kerschensteiner

- ① **P1 Lab methods in human biology**
- ① **P2 Data analysis and bioinformatics (Computational Biology)**
- ① **P3 Bioluminescence**
- ① **P4 Model organisms**
- ① **P5 Current topics in biomedical research**
- ① **Interdisciplinary Module**
- ① **Transferable Skills Module - Schlüsselqualifikationen**



Application for seminars and practical courses until Sunday, October 15, 2023 (23:59h CEST) via LSF function "Register for courses"

# Course catalogue

Please select LSF system: [www.lsf.lmu.de](http://www.lsf.lmu.de)

Login with your personal data.



Select **english version** (on the top right of the page).

Select **Register for courses (Lehrveranstaltungen belegen/abmelden)**

[Home](#) | [Logout](#) acting as: Student

**Bitte beachten Sie, dass Sie sich ab sofort nach erfolgreichem Login im Wintersemester 2023/24 befinden. Semester rechts oben und wählen Sie im Ansc**

You are here: **Home**

<a href="#">Transcript</a>	<h3>My Functions</h3> <div><p> <b>My contacts</b></p><ul style="list-style-type: none"><li>Master Human Biology - Principles of Health and Disease</li></ul></div> <div><p> <b>When to register for courses</b></p><ul style="list-style-type: none"><li>Master Human Biology - Principles of Health and Disease</li></ul></div>
<a href="#">Schedules</a>	
<a href="#">Course catalogue</a>	
<a href="#">Search for courses</a>	
<a href="#">List of exams registered for</a>	
<a href="#">Register for exams</a>	
<a href="#">Register for courses</a>	
<a href="#">Stay abroad</a>	



# Register for courses

LSF – LEHRE STUDIUM FORSCHUNG

as: Student

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**Important information on course registration**  
**Please read carefully!**

Master Biologie ( PO-Version: 2012 ):

Der zuständige Prüfungsausschuss macht darauf aufmerksam, dass das Belegen der Lehrveranstaltungen Über HISLSF keine verbindliche Anmeldung zu der Form und Fristen

- für die Belegung von Lehrveranstaltungen
- für die Anmeldung zu Prüfungen

werden auf der Internetseite des für Ihren Studiengang zuständigen >Prüfungsamts< bekanntgegeben.

---

**Attention** In your schedule, you can use the button "Registrations (PDF)" to print an overview of the courses you registered for. Please make use of this opportunity.

---

**Important:** To continue please tick "I accept" and press "Next".

---

Accept terms

I accept

---

Next





# Register for courses

**Register for courses**

**7001 seminars**  
Choice: 1 from 50

<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar: Mechanisms of plant gene regulation
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar: From centrioles to microcephaly
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar: Stem cells
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar: Microbial Physiology and Synthetic Biology
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar: Design of experiments in plant science
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar: Covid-19: Wissenschaft & Philosophie
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar - Methods in electron microscopy and their application
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar: Molecular genetics and signal transduction of pathogenic protozoa
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar: DNA-Repair
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar - Hot topics in (cryo) electron microscopy
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar: Structural and functional analysis of prokaryotic transmembrane receptors and transporters
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar for bachelor, master, and doctoral students and for Zulassungskandidaten (AG Phylogeny and evol
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="text"/>	<input checked="" type="radio"/> Seminar for bachelor, master and doctoral students (AG Phylogenetic phycology)

# Distribution Day

Friday, October 20th, 2023 at 8:30 p.m. by Zoom meeting

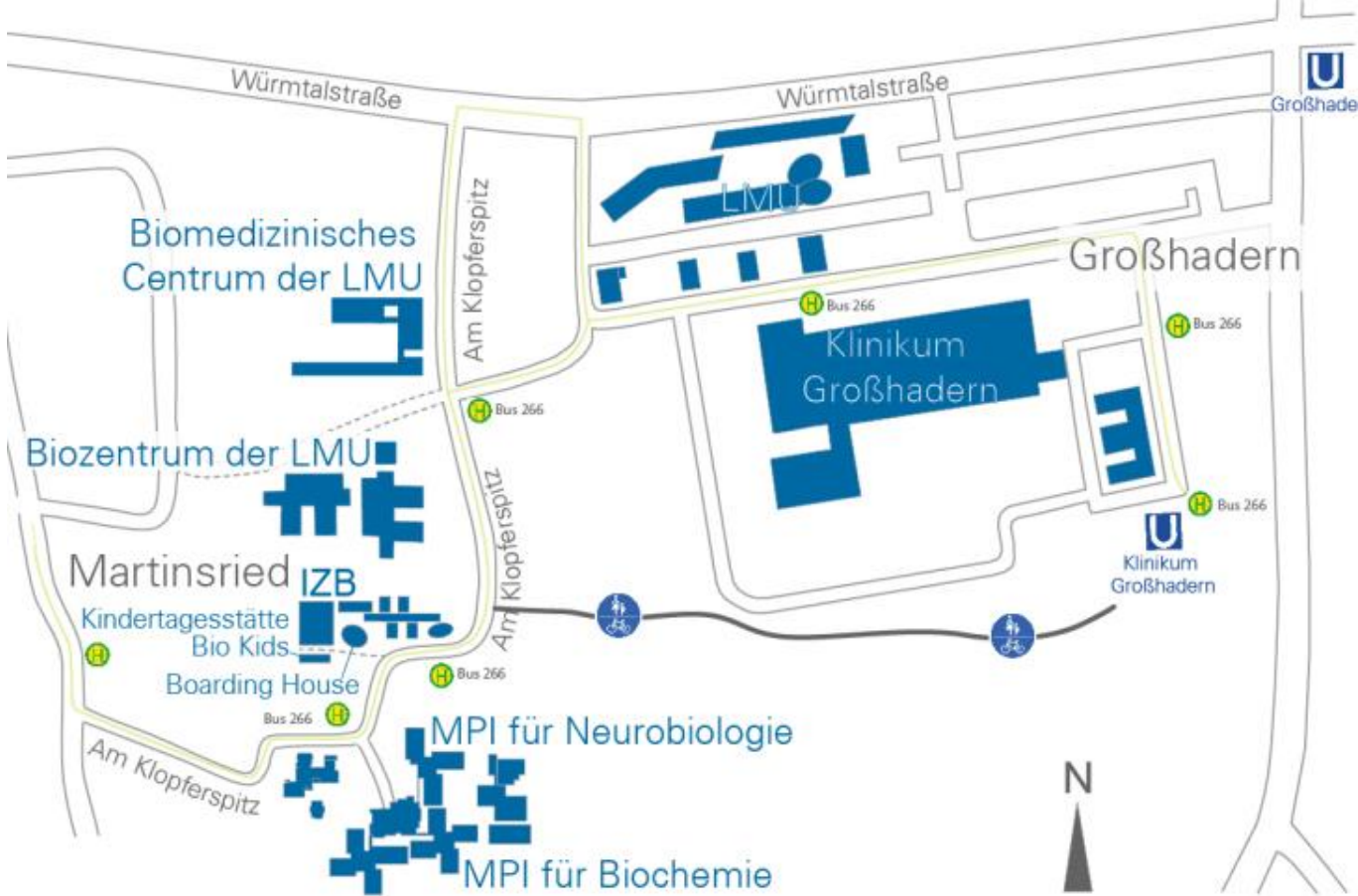
# Course catalogue

You do not have to apply via the LSF for the mandatory courses offered in the first semester!

# Locations

Where do all the courses take place?

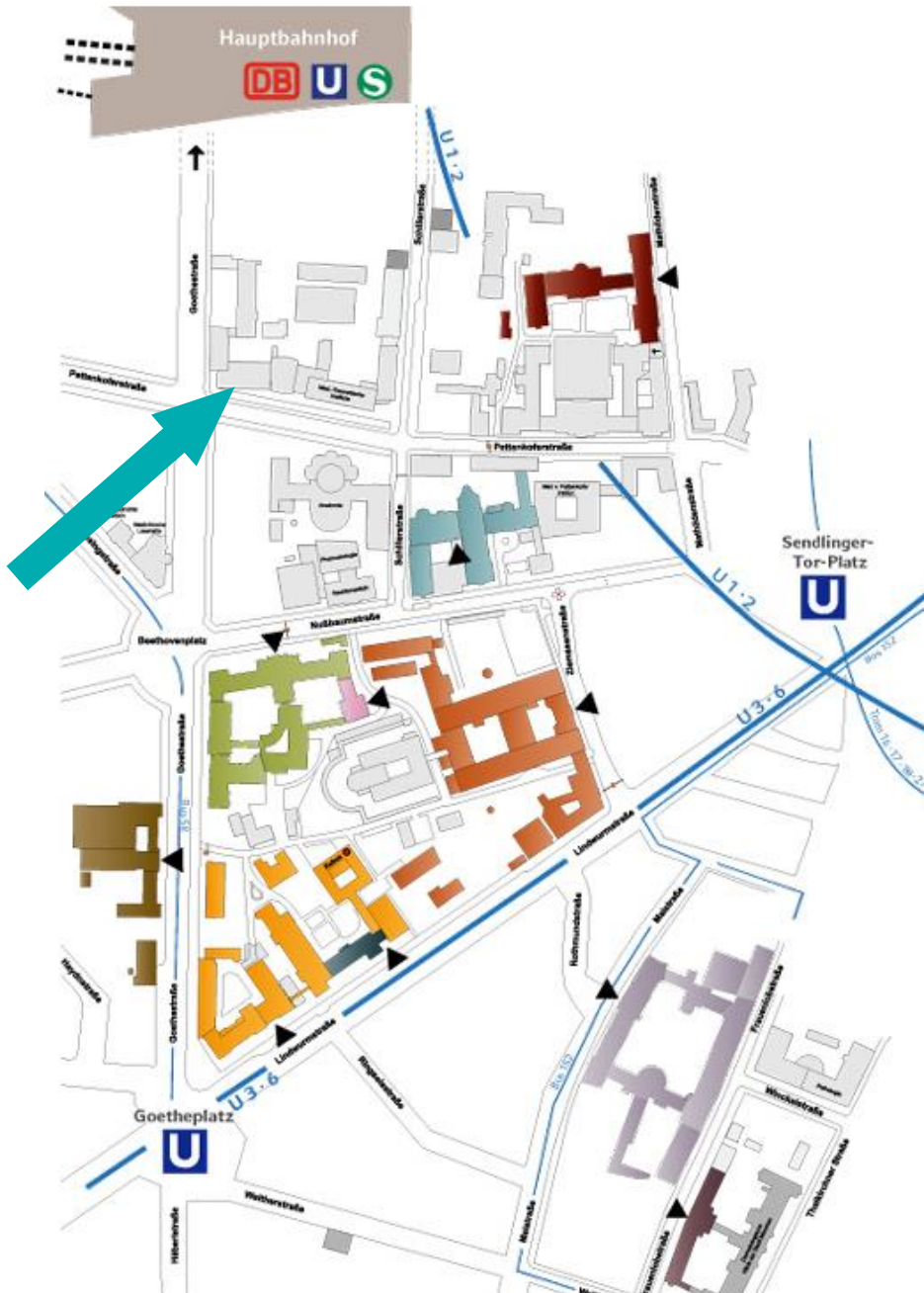
# High TechCampus Martinsried



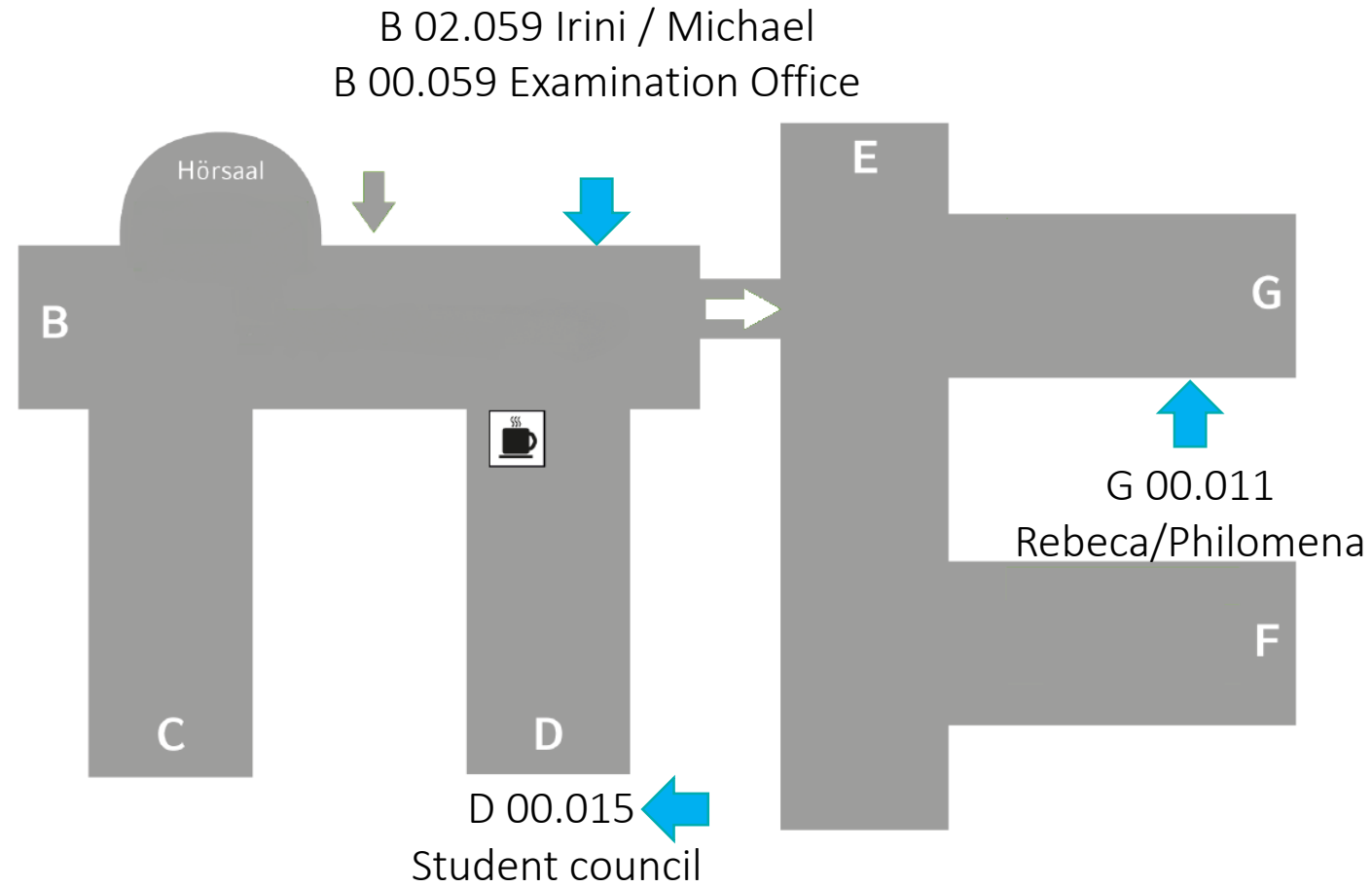
# Medical Campus in downtown Munich

Walther-Straub-  
Institute of  
Pharmacology  
and Toxicology

Goethestr. 33



# Biocenter



# General pointers – Study program

## Health issues

Missing of exams/practical courses

## Max. study duration

## Exams

twice/per semester

1. exam and make up exam (improvement)

## Recognition of credits

## Emails (campus – email)

## Erasmus internship or study abroad (information session)



## General pointers – Study program

Everything is new!

Cultureshock?! Yes! No?

Ask, ask, ask!!!

# Sports

University Sports Center  
Munich (ZHS)  
Winter 2023/24



# Elite Network



**Elitenetzwerk  
Bayern**



## Next step

09:00 2nd part of the main Introduction – Presentation of the divisions of the Faculty of Biology

**GOOD  
START!**