

Elite Graduate Program Biomedical Neuroscience



Apl. Prof. Dr. Helmuth Adelsberger



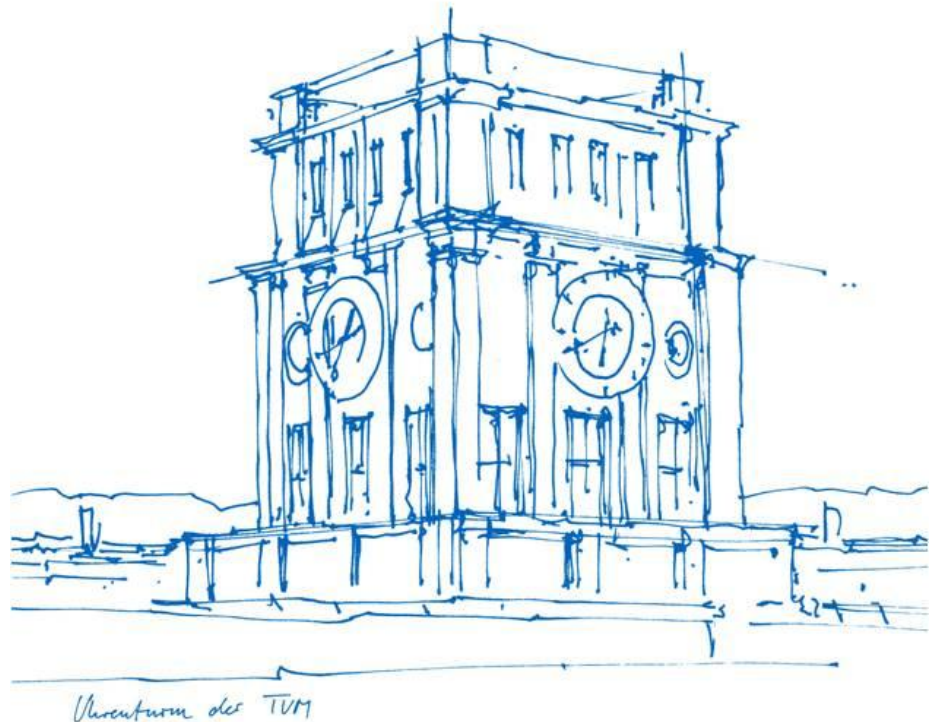
Dr. rer. nat. Silke Herzer

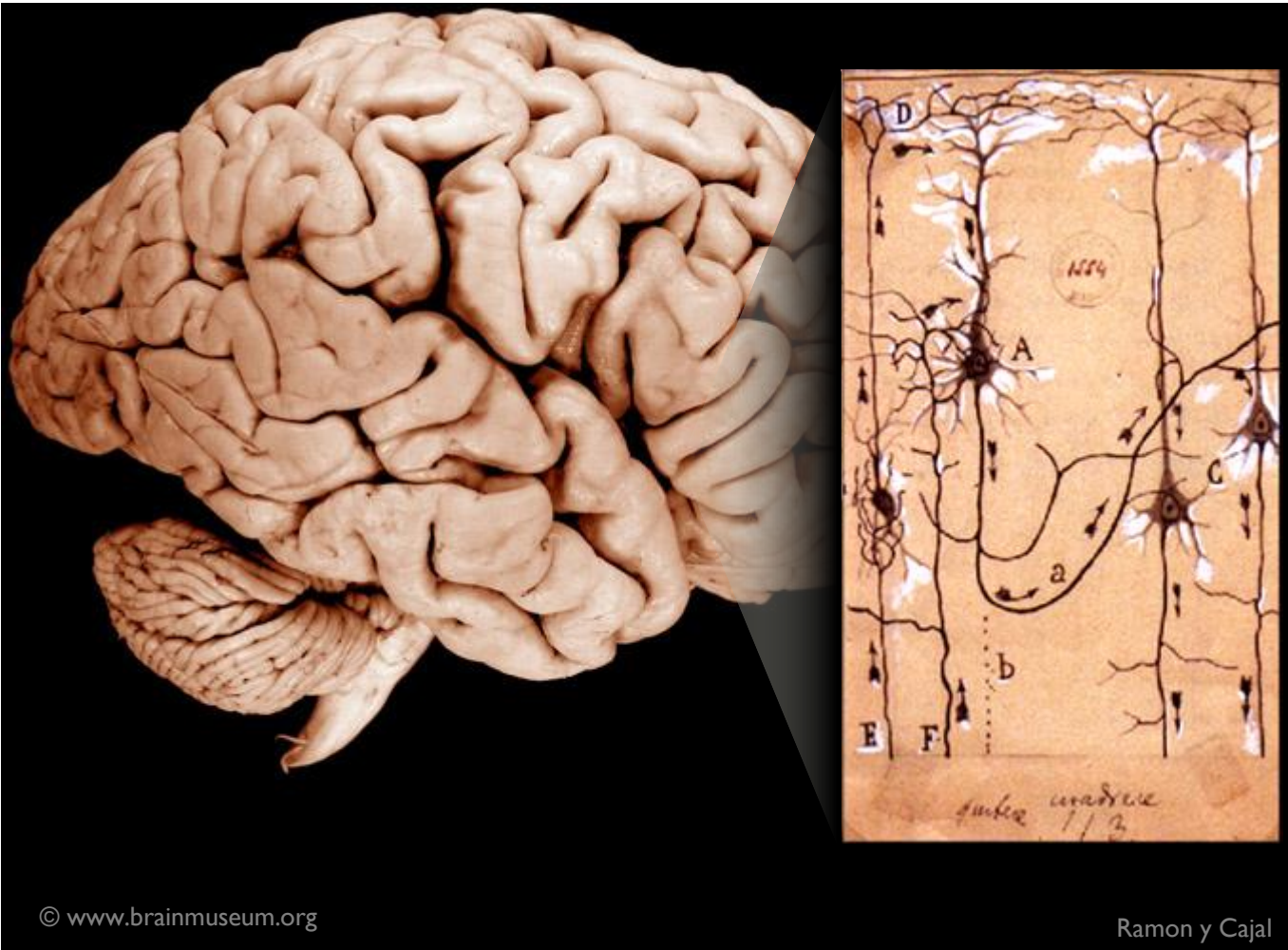


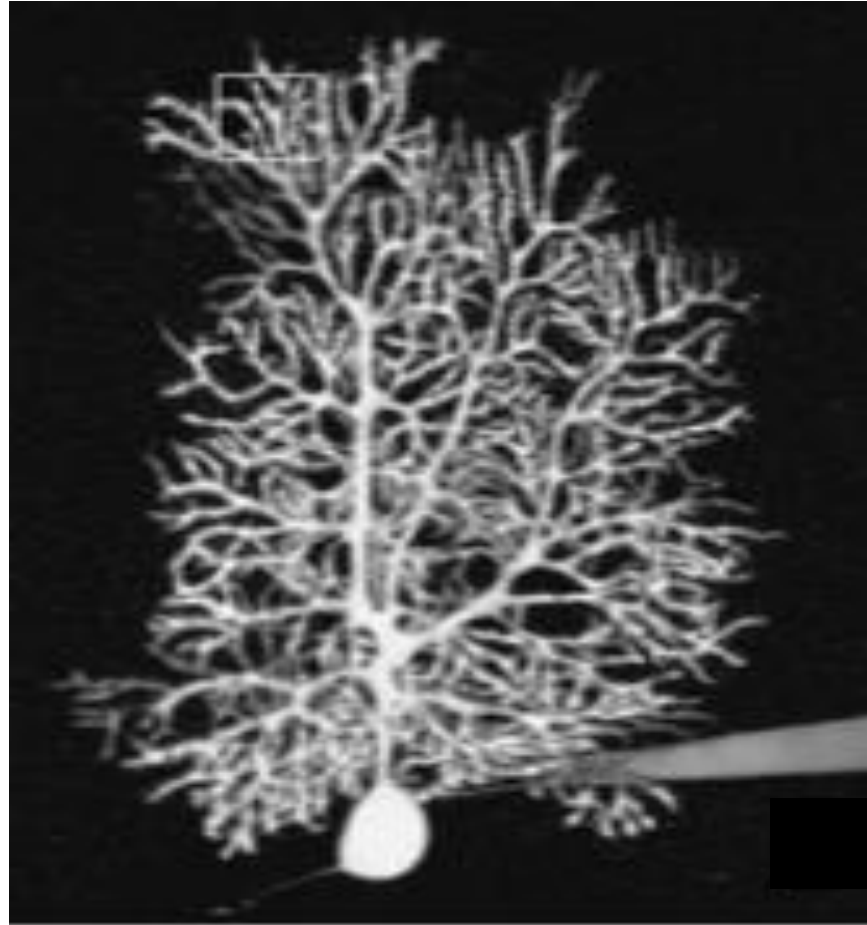
Diana L. Würmseer M.Ed.

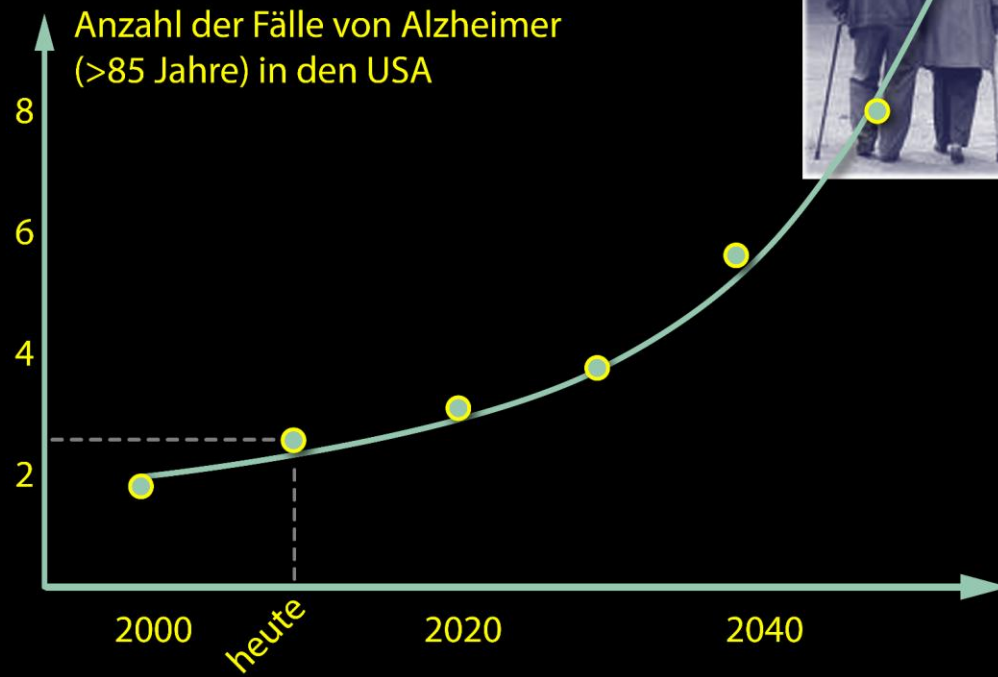
Technical University of Munich
TUM School of Medicine and Health

Munich, 24. March 2026









<p>1st semester</p>	<ul style="list-style-type: none"> • Molecular Neuroscience • Cellular Neuroscience • Neuroanatomy and Neuropathology • Mol. biology and -omics approaches • Microscopy of nervous system structure • Scientific practice • Life & Science • Data aquisition, analysis and presentation (Lab visit)
<p>2nd semester</p>	<ul style="list-style-type: none"> • Nervous system and circuit development • Systems neurology and neuroscience • Nervous system disorders and treatment • Computational analysis and modelling • Neuroimaging and electrophysiology • Scientific practice • Life & Science • Data aquisition, analysis and presentation (Lab visit)
<p>3rd semester</p>	<ul style="list-style-type: none"> • Qualifying colloquium • Lab rotation (I-II) • Data aquisition, analysis and presentation (Lab visit)
<p>4th semester</p>	<ul style="list-style-type: none"> • Master´s Thesis and Master´s colloquium

To **enjoy** the program and to **succeed**,
your interests and qualities should meet the following:

- Strong affinity to basic and translational neuroscience
- High motivation to acquire experimental skills
- Enjoy working in interdisciplinary teams and projects

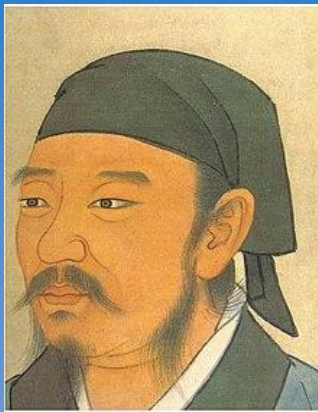


Involvement

Tell me and I forget.

Teach me and I remember.










Involve me and I learn.



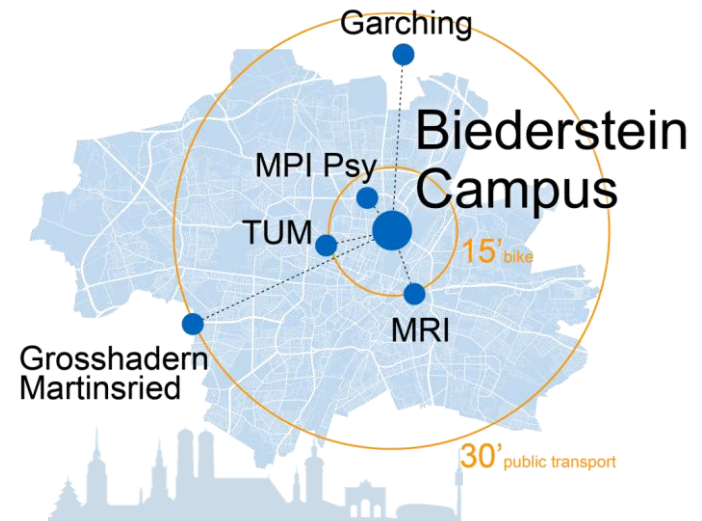
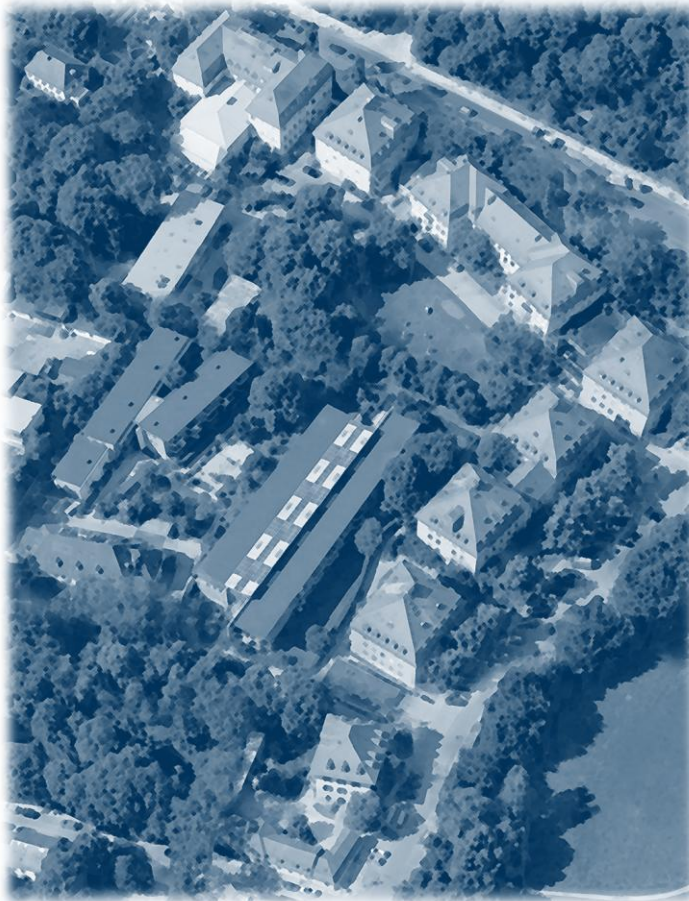
Xunzi (298 - 220 BC)



A typical week for a Biomedical Neuroscience student

	Monday	Tuesday	Wednesday	Thursday	Friday
morning	Topic Self Study 	Topic 1 Focus seminar 	Various Application Transfer 	Topic 2 Self Study 	Topic 2 Focus seminar 
afternoon	Hands-on 	Hands-on 		Hands-on 	Hands-on 
evening				Transferable Skills & Professional Competence	

Location & exchange



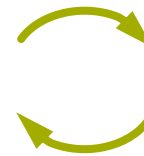
Internationalization I



Edmond & Lily Safra Center for Brain Sciences

- Institutionalized international partner
- Student and faculty exchange, based on complementary expertise

ELSC
Computational
neuroscience



**M.Sc. Biomedical
Neuroscience**
Disease-related
neuroscience

Internationalization II



Application

- Final application **deadline** is **May 31st, 2026**
- Minimum Requirement: Bachelor's degree in the field of natural sciences such as e.g. Biology, Biochemistry, Molecular Medicine, Physics or equivalent or a medical examination in medicine
- Proof of English Language Proficiency (certified copy)
- → “Test of English as a Foreign Language“ (TOEFL) min. 88 Points, „International English Language Testing System“ (IELTS) min. 6,5 Points, Cambridge English Certificate: Advanced (CAE)
- **Online application** in TUMonline
 - <https://www.tum.de/studium/bewerbung/infoportal-bewerbung/onlinebewerbung>
 - Support: TUM Student Service Center (studium@tum.de)

Aptitude Assessment: Stage 1

- **Subject-specific qualifications:**
 - Subjects completed within the Bachelor's degree:
Mathematics, Physics, Statistics, Inorganic chemistry, Physical chemistry, Physical organic chemistry, Biochemistry, Molecular biology, Physiology, Immunology
→ Max. score is 10 points (1 point each for every above-mentioned, passed subject mentioned in the transcript of records).
 - **Final grade of (Bachelor) diploma:** GPA of Bachelor degree
→ Max. score is 10 points (1,9 = 1 point; 1,8 = 2 points... 1,0 = 10 points).
 - **Letter of Motivation:** Max. score is 10 points.
- Applicants having reached **20 points and above** will receive an invitation to a **personal interview**.

Aptitude Assessment: Stage 2 (personal interviews)

- Evaluation of the **applicant's special motivation and commitment** for studying Biomedical Neuroscience as outlined in the applicant's Letter of Motivation (for stage 1).
 - **Academic qualification:** Basic theoretical and problem-based/applied questions from the field of natural science fundamentals will be asked to assess the applicant's academic abilities.
 - **Presentation of** the scientific hypothesis, methodology, and achieved outcomes of the applicant's final (Bachelor) thesis (no PPT presentation).
- ➔ Each above-mentioned criterion of stage 2 will be scored with a max. of 15 points. The total score will consist of the sum of all scores from Stage 2 plus the sum of all scores from Stage 1.
- ➔ Applicants who receive a score of more than 30 points for both assessment stages will be accepted to the Biomedical Neuroscience Master Program.

What makes us special:

→ Funded by the Elite Network Bavaria

Excursions

Summer Schools

Special hands-on-courses (e.g. „Brain Course“)

Support for German language course with 800,-€



Bavarian State Ministry of
Science and the Arts



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Biomedical Neuroscience

The study program “Biomedical Neuroscience” offers a research-oriented education in the field of neuroscience as well as in neuropsychiatric diseases. Teaching of theoretical knowledge and practical skills is performed using innovative teaching methods. A personalized mentoring program ensures intensive supervision of the students. Through exchange programs, for example with the Hebrew University in Jerusalem the students can gain international experience.

What makes us special:

➔ Follow us on <https://www.linkedin.com/company/101569976/admin/feed/posts/>

