

# Fact Sheet Education

## 2023



### Medical Faculty

The Medical Faculty at Ludwig-Maximilians-University (LMU) in Munich is the largest Medical Faculty in Southern Germany and one of the leading centres of academic medicine and health sciences in Europe. Its long and prestigious history is represented by its excellent scholars and Nobel laureates, such as Alois Alzheimer, Adolf Butenandt, Feodor Lynen and Max von Pettenkofer, and by its dedicated students, like the LMU medical students of the resistance group “White Rose”, who courageously fought against the Nazi regime in Munich.

In collaboration with LMU Hospital (LMU Klinikum) with 2,062 beds at Munich Downtown and Grosshadern-Martinsried, the Medical Faculty provides excellent higher education in the fields of medicine, dentistry, public and global health, epidemiology and biomedicine with international visibility.

The LMU Medical Faculty of LMU Munich aims for excellence, high scientific standards and diversity. It offers a large variety of PhD programs as well as regular extra-curricular events, such as international summer and winter schools.

At LMU each educational program is based on a strictly scientific approach and is inspired and informed by cutting-edge research.

This close link between science, teaching and learning is at the heart of both Faculty and University Hospital.

- 6 degree programs
- 5 different doctoral degrees
- 2,062 patient-care beds
- > 7,000 students
- >1,700 teaching staff
- > 40 affiliated teaching hospitals
- > 250 affiliated general practitioners
- extensive high-profile international exchange network

The curriculum at the Medical Faculty is research-, practice- and patient-oriented: competent and empathic patient treatment and care are central for our students' education. For this reason, teaching and learning methods that involve e.g. case-based learning and problem-solving approaches are at core of our learning spiral.

Up-to-date interactive learning methods such as digital learning, inverted classrooms and interprofessional training together with a continuous curriculum evaluation and development process contribute to our high profile in medical education. Medical students at LMU also have easy access to skill labs (ZeUS), where they can practice several methods and techniques and collaborate with their peers.

However, the Medical Faculty at LMU Munich aims to train not only competent and empathic graduates, but also valuable members of the health care profession, able to think, act and take reflected decisions based on scientific evidence as well as to connect empathically with patients and their families: This is also one of the aims of the newly established LMU Health Academy, a joint initiative with the LMU Hospital for postgraduate and lifelong education. For our Faculty a deep understanding of the social-economic conditions that lead to diseases is also an important skill for graduates in medical sciences.

A wide variety of elective and specialized courses as well as study abroad programs round off our curriculum. With the Student Excellence Program – StEP – the LMU Medical Faculty has established a scholarship program to identify and educate the best talents among the student body, who will become the next generation of leaders in patient care and medical research. The Faculty also offers courses conducted in English and is affiliated with the Global Alliance of Medical Excellence, which promotes institutional and individual exchanges.

# Medical and Biomedical education at the Ludwig-Maximilians-University of Munich

The Medical Faculty offers six degree-programs:

Medicine	Dental Medicine	Epidemiology	Public Health	International Health	Human Biology
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## Medicine

### National Boards Examination ("Staatsexamen")

Preclinical Medical Education (2 years)		Longitudinal Curriculum
First National Board Examination		
Clinical Medical Education (3 years)	Clerkships	
Second National Board Examination		
Practical Year (1 year)		
Third National Board Examination		

**Highlights**

- focus on practical skills with 2 skills labs
- patient-oriented, particular attention for communication
- research-oriented learning programs

## Dental Medicine

### National Boards Examination ("Staatsexamen")

From October 2021 a new curriculum in dentistry was started with three segments:

2 years of preclinical studies	1st National Board Examination	1 year of interclinical studies	2nd National Board Examination	2 years of clinical and practical studies	3rd National Board Examination
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## Master Programs

Master of Science in Epidemiology (M.Sc. Epi)	Master of Science in Public Health (MPH)	Master of International Health	Elite Master Program Human Biology (together with the Faculty of Biology)
<p>Focus on:</p> <ul style="list-style-type: none"> <li>■ Quantitative methods</li> <li>■ Epidemiology and Research design</li> <li>■ Applied epidemiology in a variety of research fields</li> <li>■ 18-weeks internship</li> <li>■ English-language program, mainly international students</li> </ul>	<p>Focus on:</p> <ul style="list-style-type: none"> <li>■ Public Health</li> <li>■ Biometry</li> <li>■ Epidemiology</li> <li>■ Health prevention and promotion</li> <li>■ Global Public Health</li> <li>■ Planetary Health</li> <li>■ Specialisation Health Administration and Management (for physicians in the public health service)</li> <li>■ 18-week internship</li> </ul>	<p>Focus on:</p> <ul style="list-style-type: none"> <li>■ Health-related challenges in low- and middle-income settings</li> <li>■ Global health</li> </ul>	<ul style="list-style-type: none"> <li>■ Principles of Health and Disease, supported by the Elite Network of Bavaria</li> <li>■ Interdisciplinary and research-oriented program on several biomedical core subjects, several cooperation partners</li> </ul>

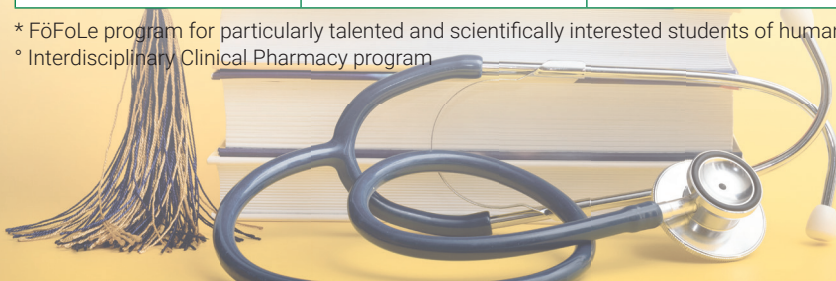
## Doctoral programs

5 different doctoral degrees, with 6 different PhD Medical Research core areas, 10 associated training programs, a special fellowship programs for aspiring MDs and DMDs and an outstanding program for clinical pharmacy

Medicine Dr. med.*°	Dental Medicine Dr. med. dent.*	Human Biology Dr. rer. biol. hum.°	Natural sciences Dr. rer. nat.°	PhD. Medical Research

\* FöFoLe program for particularly talented and scientifically interested students of human medicine and dentistry for research in medicine

° Interdisciplinary Clinical Pharmacy program





## Innovative Educational Projects at LMU Medical Faculty

- Digital Learning
  - Promotion of new interactive learning methods in Dentistry and Medicine, in joint venture with the VHB (virtual university of Bavaria), e.g. Corona Course
  - Implementation of case-based courses in the clinical studies
  - Virtual treatment planning seminars in different disciplines of Dental Medicine and use of augmented and virtual reality in the teaching of dental morphologies of dental students
  - Use of Interactive learning software in processes of DentalTechnology
- Practical training and teaching seminars to learn the behaviour of conventional and innovative e-materials in orthodontics by means of robotics and finite element simulations.
- Implementation of flipped classroom concepts for epidemiology and qualitative research in public health
- Development of a new oncology curriculum for medical students
- Development and implementation of a longitudinal joint course on research skills in the Master programs Public Health and Epidemiology

## Awards

### 7 LMU Teaching Innovation Awards

Dr. Daniel Fleischmann, Prof. Dr. Claus Belka, Prof. Dr. Martin Dreyling and team (2022), Dr. Christine Wild-Bode (2021), Marc Auerbacher, Prof. Dr. med. Michael Drey, Monika Fintz, Dr. Yvonne Marina Pudritz, Birgit Wershofen (2019), Prof. Dr. med. Christian Sommerhoff (2018), Prof. Dr. Dr. Markus Kipp (2017), CCD project team (2015), MeCuM-SiGma team (2012)

### 3 National Ars Legendi Awards

- 2020, PD Dr. Kostantinos Dimitriadis
- 2015, Prof. Dr. Martin Fischer
- 2006, Prof. Dr. Reinhard Putz

### Kurt Kaltenbachs Dental Education Award

- 2021, PD Dr. Miriam Draenert and Prof. Dr. Karin Huth

### Annual Education Grant (ESE)

- 2020, Dr. Christian Diegritz and Dr. Marcel Reymus

### Award for Good Teaching (Bavarian State Ministry for Science and the Arts)

- 2012, PD Dr. Regina Fluhrer
- 2014, Prof. Martin Reincke
- 2016, Dr. Daniela Kugelmann
- 2018, Dr. Christian Diegritz
- 2019, Prof. Dr. Claudia Bausewein
- 2021, Dr. med. dent. Hisham Sabbagh

### DAAD Prize (Deutscher Akademischer Austauschdienst – German Academic Exchange Service)

2015, „Com2Uni (Committed to Uniqueness)“, awarded to the LMU Munich Medicine Course for innovative approaches to promoting student mobility

### Harald Mückter Teaching Innovation Awards

- 2022, Dr. Christian Kowalski
- 2023, Dr. Tamara Kakoschke

## Highlights of studying at LMU Medical Faculty

- Wide international network
  - Specific career programs in research and clinical expertise (e.g. STEP, GAME TEI project)
  - An international campus at home: international on-site summer and winter schools as well as online courses with students and faculty from LMU and universities abroad
- Programs for teachers' educational training
- 15 MME-degrees at our Faculty
- Support of young researchers: Creation of a Research Curriculum for medical students in the first study year with specific interest in research
- One semester dedicated to research during the clinical studies (in medicine and in dentistry)
- Medicine: Longitudinal integrated curricula that start in the preclinical years and accompany the students up to graduation in the following fields: communication, practical skills, patient-safety
- Early patient contact and interprofessional teaching for medical students (Ilegra program)
- E-Assessment, mid-term examinations and regular feedback-policy
- Peer-assisted learning and mentoring
- Special Program for physicians working in the Public Health Service sector



## Facts and Figures

### numbers in education

Winter Term 2022/2023	
Students at the Medical Faculty in total	7,149
Medicine (Preclinical Studies)	2,506
Medicine (Clinical Studies)	2,692
Dental Medicine	718
Master of Science Epidemiology	61
Master of International Health	2
Master of Science Public Health	136

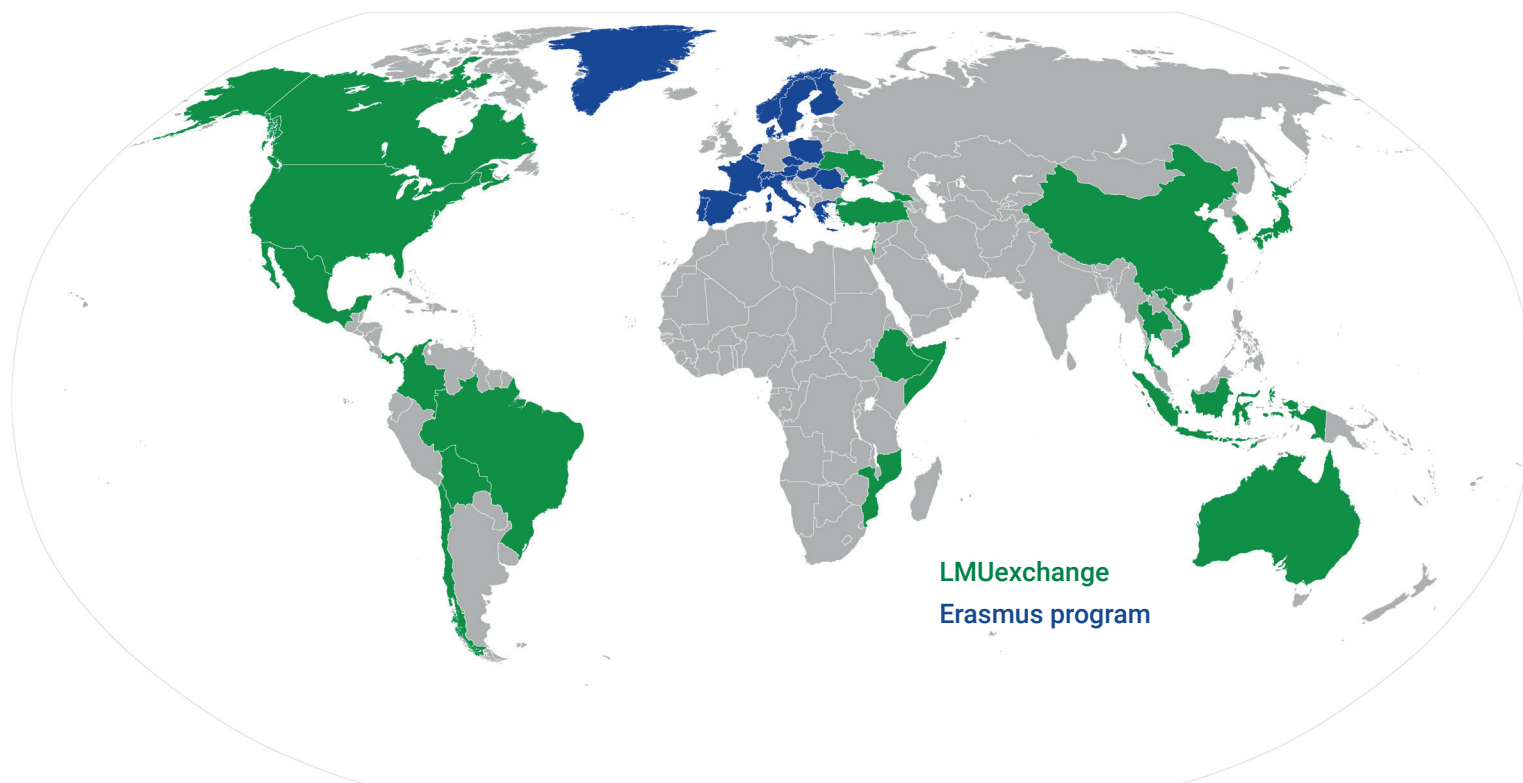
Doctural graduates in 2022	
PhD Medical Reasearch	64
Dr. med (MD)	474
Dr. med. dent. (DMD)	56
Dr. biol. hum.	57
Dr. rer. nat.	28

Mobility (Medical Clinical Studies)	
Worldwide partner universities	89
Outgoing students (2019* before pandemic)	156
Incomings (2019* before pandemic)	108
Students from other German universities who completed part of their final year (Practical Year - PY) at LMU (PY start spring and autumn 2022)	468
International courses in English	3



## Networks and cooperations (Medical Clinical Studies)

worldwide



Bildquelle: <https://commons.wikimedia.org/wiki/File:BlankMap-World-large3.png>

## Partnerships

worldwide

- Student Excellence Program – StEP (USA)
- GAME Alliance (Hong Kong, Japan, Korea, Australia, Italy, United Kingdom, Sweden)
- Erasmus: ~50 partner universities
- LMUexchange: >40 non-European partner universities

## Board

of directors



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**Associate Dean of Student Affairs Medicine**  
Prof. Dr. med.  
Martin Fischer, MME  
(Bern)



**Associate Dean of Student Affairs Dental Medicine**  
Prof. Dr. med. dent.  
Daniel Edelhoff

### Masthead

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Picture Credit: LMU Klinikum, Adobestock

References: student statistics, LMU Munich; MMRS, LMU Munich; Dean's Office, LMU Munich; International Office, Medical Faculty, LMU Munich