



**University of  
Zurich<sup>UZH</sup>**

**Faculty of Medicine**

**“Thanks to the high-quality education it provides, the Faculty of Medicine at the University of Zurich enjoys a national and international reputation for excellence. This opens up many future career opportunities”**

**Roman Schimmer and Ilaria Vittoria De Martini, students**

Roman Schimmer and  
Ilaria Vittoria De Martini, students



## Contents

### Who We Are

Welcome 4

### What We Do

Studies 7

- Practical education
- Evidence-based medicine
- High training capacity

Research 8

- Research priorities
- Networks of research areas

Academic Career Development 9

- Doctoral degree programs
- Career development program
- Faculty appointments

Continuing Education and Further Training 10

- From theory to practice

### What We Stand For

Connecting Research, Teaching, and Career  
Development 15

- Providing high-quality services
- Acting responsibly
- Promoting equal opportunity

### What We Build On

Zurich as a Research and Educational Center 16

- Academic hub Zurich
- The University's hospitals
- Past and future

### At a Glance

The Faculty of Medicine in Brief 20

- Master's degree programs and PhD programs
- Research priority programs
- Transversal research areas
- Clinical Research Priority Programs
- Organization and numbers

### Where to Find Us

Addresses for University Medicine 25

# Welcome

## Dear Sir or Madam

Welcome to the Faculty of Medicine at the University of Zurich (UZH).

The Faculty of Medicine numbers some 3,000 students and awards roughly 270 degrees in human medicine, dentistry, and chiropractic medicine each year. More than 700 qualified instructors are actively involved in teaching activities and, together with the staff from the Dean's Office, they guarantee a sound research-based education and promote academic career development. The Faculty of Medicine in Zurich is the largest of Switzerland's six medical schools.

Our entire academic staff is fully committed to competent and responsible medical research and teaching. Together with the four University's hospitals, we operate in

an internationally renowned and dynamic environment. Thanks to its location in the research hub of Zurich, the Faculty of Medicine has unique opportunities to engage in collaborations with other UZH faculties, other universities, ETH Zurich, and the private sector.

We are the first address for health care in the Canton of Zurich, and our goal is to consistently improve our medical services for the benefit of society, as set out in the national health strategy 2020 (Health 2020). As such, we strive to develop our research and teaching activities, and we measure our achievements with the best institutions worldwide. Please contact us if you are interested in working with our Faculty.

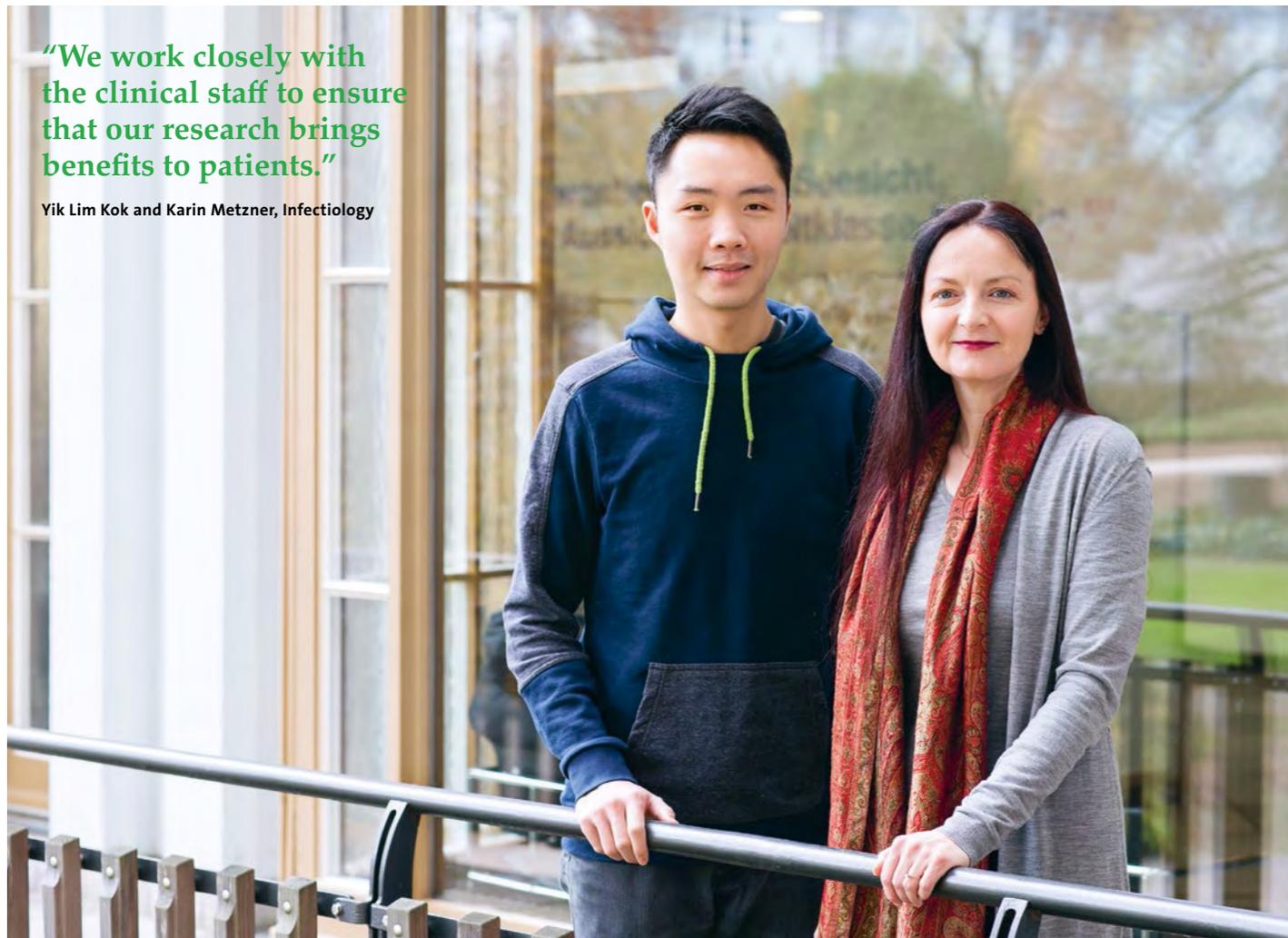
**The Faculty of Medicine, University of Zurich.**



Left: Flask filled with a growth medium for cell cultures. Right: Spiders in psychotherapy: Repeated confrontation with arachnids can help patients overcome learned fear responses.

“We work closely with the clinical staff to ensure that our research brings benefits to patients.”

Yik Lim Kok and Karin Metzner, Infectiology



What We Do

## Studies

### Practical education

The Faculty of Medicine at the University of Zurich provides a comprehensive education in human medicine, dentistry, and chiropractic medicine. We constantly develop our curricula to incorporate the steady advancements made in patient care and in research.

### Evidence-based medicine

We have firmly established practical training opportunities in skills labs, peer-teaching, and problem-based learning. In addition, we attach great importance to the ethical cornerstones of medical practice, to patient safety, and to the reliability of the health care system. Finally, we base our degree programs on the latest scientific findings. All of which constitutes the Zurich model of medicine.

### High training capacity

As the largest medical school in Switzerland, we take the country's growing need for doctors seriously. In recent years, we have increased our training capacity by 100 students every year. Since the fall semester 2013, up to 300 students in human medicine and chiropractic medicine, and 50 students in dentistry can qualify annually to study medicine.

7



[www.med.uzh.ch/  
Medizinstudium\\_  
en.html](http://www.med.uzh.ch/Medizinstudium_en.html)

## Research

8

Our scientists conduct cutting-edge research in both basic research and clinical domains. Our biomedical research expertise is very broad and contributes to making Zurich one of the world's leading centers in medical research. We promote innovation in all areas of medicine with the goal of developing clinical applications and individualized medicine (translational research).

### Research priorities

Our strategic research priority programs investigate the causes of common diseases in order to improve their prevention and treatment; indeed, some of our research priority programs have contributed to the excellent reputation of our Faculty for years. In addition, we have the lead at the National Center of Competence in Research (NCCR) Kidney.CH – Kidney Control of Homeostasis.

Our Clinical Research Priorities Programs (CRPP) link and promote key areas of medicine.

### Networks of research activities

The study of medicine is closely linked to other academic disciplines. We encourage partnerships with organizations at national and international level, and we collaborate regularly with other faculties at UZH and with ETH Zurich. These networks strengthen scholarship and clinical excellence, while consolidating Zurich's international reputation. We take our academic responsibilities seriously and, together with the University's hospitals, contribute actively to improving the health care sector.



[www.med.uzh.ch/  
UeberdieFakultaet/  
Forschung\\_en.html](http://www.med.uzh.ch/UeberdieFakultaet/Forschung_en.html)

## Academic Career Development

Fostering the academic career development of junior scientist is a core building block in high-quality and innovative research and health care. Our degree programs prepare students for lifelong learning in medical professions. The Master's degree in medicine equips graduates with the knowledge to carry out sophisticated experimental and clinical research projects.

### Doctoral degree programs

Our various centers of excellence offer doctoral degree programs under the umbrella of the Life Science Zurich Graduate School. We have also a MD-PhD program for those graduates who would like to combine research work with clinical practice. The PhD Program Biomedical Ethics and Law (PhD BmEL) is a joint PhD program with the Faculty of Law, and we offer a Master of Science in Medical Biology.



[www.med.uzh.ch/  
Nachwuchs  
foerderung\\_en.html](http://www.med.uzh.ch/Nachwuchsfoerderung_en.html)

### Career development program

Filling the Gap is a program at the Faculty of Medicine to support the academic career and research activities of clinicians. The program's overall objective is to increase the representation of women in professorial positions and in academic governing bodies.

### Faculty appointments

Our Faculty strives to select the best candidates for existing and new professorial positions. In our endeavor to increase the number of female professors, we are committed to appointing excellent female candidates.

9



[www.med.uzh.ch/Ueber  
dieFakultaet/frauenin  
derwissenschaft\\_en.html](http://www.med.uzh.ch/UeberdieFakultaet/fraueninderwissenschaft_en.html)

## Continuing Education and Further Training

10

An overall aim of the Faculty is the dynamic development of our education and continuing education activities. To this end, we work in close collaboration with the University's hospitals and our affiliated academic hospitals and teaching hospitals; in addition, we promote the active exchange of knowledge with the Swiss Institute for Medical Education (SIWF).

### From theory to practice

Our over 20 advanced degree programs (MAS, DAS, and CAS) are designed to transfer the latest findings from scholarly research into practice. In addition, we collaborate with the University's hospitals and the central services of the University of Zurich to ensure the provision of top continuing education programs in medicine and transferable skills.



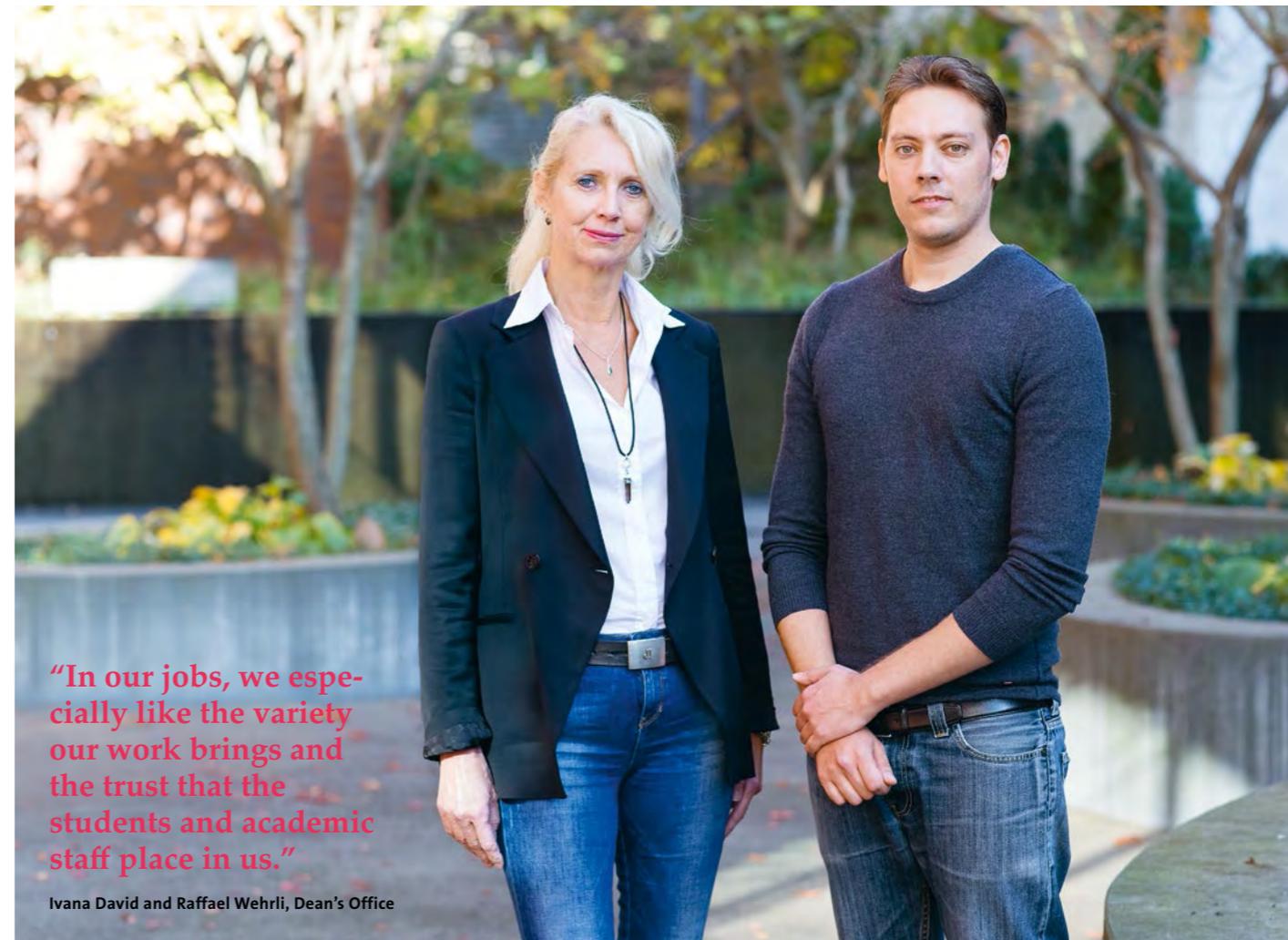
[www.med.uzh.ch/  
WeiterundFort  
bildung\\_en.html](http://www.med.uzh.ch/WeiterundFortbildung_en.html)



[www.weiterbildung.  
uzh.ch/fakultaet/  
med.html](http://www.weiterbildung.uzh.ch/fakultaet/med.html)



[www.researchers.  
uzh.ch/  
index\\_en.html](http://www.researchers.uzh.ch/index_en.html)



***“In our jobs, we especially like the variety our work brings and the trust that the students and academic staff place in us.”***

**Ivana David and Raffael Wehrli, Dean's Office**



Left: A genetic trick enables researchers to make stem cells and their daughter cells visible in a mouse embryo.



Right: A cast used for a radius fracture.



*“Thanks to their proximity to the University, the practitioners at the Zurich University’s hospitals keep up-to-date with the latest scientific developments. As a patient, this earns my trust.”*

Jochen Fischer, patient



“One of my main goals is to encourage future doctors to work in the field of pediatric medicine.”

Bea Latal, Child Development

What We Stand For

## Connecting Research, Teaching, and Career Development

### Providing high-quality services

Our overarching goal is to improve medical services for the benefit of society. We work to continuously develop our Faculty and aim for outstanding achievements. To ensure the highest possible quality, we measure our performance in global competition with other institutions. We believe it is of utmost importance to link research, teaching, and professional development, and to work closely with the clinics.

### Acting responsibly

To best serve our patients, we base our medical practice on the results of scientific findings and interdisciplinary teamwork. We provide transparent information, communicate openly, and consider medical advances from an ethical point of view, independent of any external interests.

### Promoting equal opportunity

We bring our broad scientific expertise into the debate on health care and education policy, and we are committed to providing access to health care and education for all, regardless of gender, sexual orientation, age, place of origin, religion and status.



## Zurich as a Research and Educational Center

16

### Academic hub Zurich

Zurich is center of research and education and, with the University and ETH Zurich, the city has two internationally renowned higher education institutions that work together closely in a variety of disciplines. This unique setting makes Zurich an attractive academic center with great potential for scholars and scientists from Switzerland and abroad.

### The University's hospitals

The Faculty of Medicine is closely affiliated with the University of Zurich's hospitals. The clinics and institutes of the **University Hospital Zurich** apply their expertise in the highly specialized care they offer, which is at the cutting-edge of research. At the **Balgrist University Hospital**, leading international specialists treat pain and injuries

to the musculoskeletal system. The **University Children's Hospital Zurich** is a nonprofit private institution serving all children and adolescents. It is the largest children's hospital in Switzerland and one of Europe's leading centers for pediatric and adolescent medicine. The integrative treatment strategies used at the **University Hospital of Psychiatry Zurich** are based on internationally established scientific guidelines and pay equal attention to biological, psychological, and social aspects. The **Department of Child and Adolescent Psychiatry and Psychotherapy** is also part of the University Hospital of Psychiatry Zurich. It is the largest institution of its kind in Switzerland. Finally, patients at the **Center for Dental Medicine** have access to the full range of modern dental treatments. The Center's main concerns include the prevention of dental disease and the provision of non-invasive treatments.

### Past and future

The Faculty of Medicine was one of the original four faculties of the University of Zurich, and its foundation dates back to 1833. At the time, the Faculty of Medicine had six professorial positions. In 1970, the Faculty appointed Hedi Fritz-Niggli as its first woman professor. Today, our Faculty has over 170 professional staff members. The opening of Irchel Campus in 1978 further strengthened basic medical research efforts.

In contingency with the urban planning strategy for the Zurich University District and the construction of several new hospital buildings, the recent decision to create the center University Medicine Zurich offers a unique opportunity to consolidate interdisciplinary efforts and collaboration between basic research, engineering sciences, and clinical work.

17



[www.uzh.ch/  
outreach/  
hospitals\\_en.html](http://www.uzh.ch/outreach/hospitals_en.html)



[www.med.uzh.ch/  
ueberdieFakultaet/  
Geschichte\\_en.html](http://www.med.uzh.ch/ueberdieFakultaet/Geschichte_en.html)



Left: Elastic compression bandage.  
Right: Paraffin blocks with biopsies of skin tumors.



**“Our basic research  
builds a bridge  
to clinical research”**

**Annika Geminn, Gaia Restivo and  
Lukas Sommer, Anatomy**

# The Faculty of Medicine in Brief

## Master's degree programs and PhD programs

At the Faculty of Medicine at UZH, students can study human medicine, dentistry, and chiropractic medicine. Future researchers undertake their doctoral studies either under the umbrella of the Life Science Zurich Graduate School or in clinical research in the MD-PhD program.

## Research priority programs

**Neuroscience:** The Neuroscience Center Zurich (ZNZ) has more than 140 research groups. The Center focuses on strengthening translational research and interdisciplinary collaboration with all fields of neurobiology.

**Infectious Diseases and Immunology:** Infectious diseases cause great suffering around the world and are responsible for 25% of all deaths. This research focus, which entails a network of over 40 research groups, aims to better understand host-pathogen interactions and to

develop new diagnostic and therapeutic tools for infectious diseases.

**Oncology:** The Oncology Zurich Network has created an interdisciplinary platform that enables close interaction between basic research and patient-oriented clinical cancer research.

**Cardiovascular Sciences:** The Faculty of Medicine draws on more than 50 years of experience in the field of cardiovascular research. Today's focus is on basic research, clinical research, and interventions, as well as cardiovascular imaging.

**Movement Sciences:** Injuries to the musculoskeletal system are responsible for almost 20% of all hospitalizations in Switzerland. The various medical research institutions at the University of Zurich form a research hub that connects experimental and clinical research in this area.

**Metabolism and Caloric Balance:** This field of research unites all areas of activity at the University that explore genetic metabolic disorders – from the identification of cellular mechanisms to the transition into adult medicine.

## Transversal research areas

The Faculty attaches great value to the current move towards interdisciplinary work in medicine and has established methodological and technological platforms as well as cross-sectional areas. At present, these operate in the fields of molecular basis of medicine, biomaterials, regenerative medicine, transplantation, and imaging.

## Clinical Research Priority Programs

The goal of the Faculty's approximately 10 Clinical Research Priority Programs is to promote and link strategic clinical research areas. Our centers for clinical research

advance the quality of research and can compete with other institutions at national and international level.

## Organization and numbers

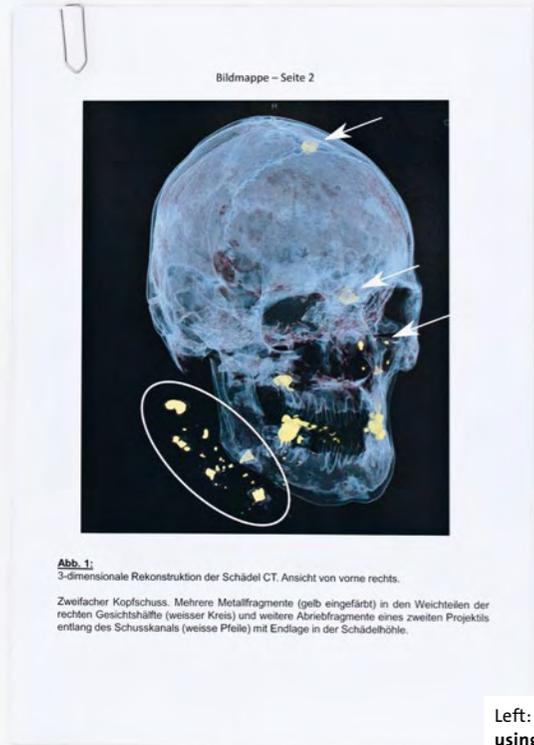
The Dean and the Vice Dean lead the Faculty of Medicine together with the Governing Board. The budget of the Faculty of Medicine accounts for around 30% of the total budget of the University. Half of the 3,000 students are female and the proportion of women in professorial positions is roughly 12%. Further details are available in the Annual Report of the University of Zurich.



[www.med.uzh.ch/  
UeberdieFakultaet\\_  
en.html](http://www.med.uzh.ch/UeberdieFakultaet_en.html)



[www.uzh.ch/about/  
portrait/annual  
report\\_en.html](http://www.uzh.ch/about/portrait/annualreport_en.html)



**Abb. 1:**  
3-dimensionale Rekonstruktion der Schädel CT, Ansicht von vorne rechts.  
Zweifacher Kopfschuss. Mehrere Metallfragmente (gelb eingefärbt) in den Weichteilen der rechten Gesichtshälfte (weisser Kreis) und weitere Abriebfragmente eines zweiten Projektils entlang des Schusskanals (weisse Pfeile) mit Endlage in der Schädelhöhle.

Left: Key forensic evidence discovered using computed tomography.  
Right: Videostreaming is part of the ICU Cockpit that applies artificial intelligence to create an IT platform for multimodal patient monitoring in neurocritical care.



**“At the Institute of Forensic Medicine, top-notch radiological instruments bring evidence to light.”**

**Steffen Ross and Dominic Gascho, Forensic Medicine**

## Addresses for University Medicine

### Dean's Office and Student Affairs

Pestalozzistrasse 3/5  
CH-8091 Zurich  
[www.med.uzh.ch](http://www.med.uzh.ch)

### Faculty of Medicine Irchel Campus

Winterthurerstrasse 190  
CH-8057 Zurich  
[www.med.uzh.ch](http://www.med.uzh.ch)

### Faculty of Medicine Schlieren Campus

Wagistrasse 12  
CH-8952 Schlieren  
[www.med.uzh.ch](http://www.med.uzh.ch)



Left: Individual reconstruction in cranio-maxillofacial and oral surgery. Titanium implant to replace eye-socket walls. Right: New personalized skin from the lab is made of epidermis and subcutis. It gives the patient a high-quality and permanent skin.



**Zurich University Hospital (USZ)**

Rämistrasse 100  
CH-8091 Zurich  
www.usz.ch

**Psychiatric University Hospital (PUK)**

Lenggstrasse 31  
CH-8032 Zurich  
www.pukzh.ch

**Department of Child and Adolescent Psychiatry  
and Psychotherapy (KJPP)**

Neumünsterallee 9  
CH-8032 Zürich  
www.pukzh.ch

**University Children's Hospital**

Steinwiesstrasse 75  
CH-8032 Zurich  
www.kispi.uzh.ch

**Balgrist University Hospital**

Forchstrasse 340  
CH-8008 Zurich  
www.balgrist.ch

**Center of Dental Medicine**

Plattenstrasse 11  
CH-8032 Zurich  
www.zzm.uzh.ch



[www.uzh.ch/  
outreach/  
hospitals\\_en.html](http://www.uzh.ch/outreach/hospitals_en.html)



**“The career development program Filling the Gap allows me to combine research activities with my clinical training, and it gives me the opportunity to expand my network.”**

**Antonia Scheiblich, Psychiatry**

Published by: Dean's Office of the Faculty of Medicine, University of Zurich

Project management: Natalie Lerch-Pieper

Editing: Natalie Lerch-Pieper, Iris Rothäusler, Christian Schirlo

Translation: Roberto Andorno, Mary Carozza

Copy-editing: Farago Texte

Graphic concept and design: Völlm + Walthert

Photos: Michelle Aimée Oesch

Paper: Refutura, blauer Engel, FSC, 100 % recovered paper

Printed at: Arbeitszentrum am See

Copies: 500

Download: [www.med.uzh.ch/UeberdieFakultaet/Broschuere\\_en.html](http://www.med.uzh.ch/UeberdieFakultaet/Broschuere_en.html)

© Zurich, 2016 (revised online version)

University of Zurich  
Faculty of Medicine  
Dean's Office and Student Affairs  
Pestalozzistrasse 3/5  
CH-8091 Zurich  
[www.med.uzh.ch](http://www.med.uzh.ch)