

FACTS AND FIGURES



PATIENT CARE*

- 47 departments
- 48 interdisciplinary centers
- 95,362 in-patients
- 454,461 out-patients
- 2,050 inpatient beds
- 10,055 employees
- 1,740 doctors
- 3,185 nursing staff

95,362
IN-PATIENTS

3,185
NURSING
STAFF

1,740
DOCTORS

181
PROFESSORS

10,005
STAFF
MEMBERS

6,635
STUDENTS

* 2016

MEMBER OF SIX NATIONAL CENTERS FOR HEALTH RESEARCH („Gesundheitszentren“)

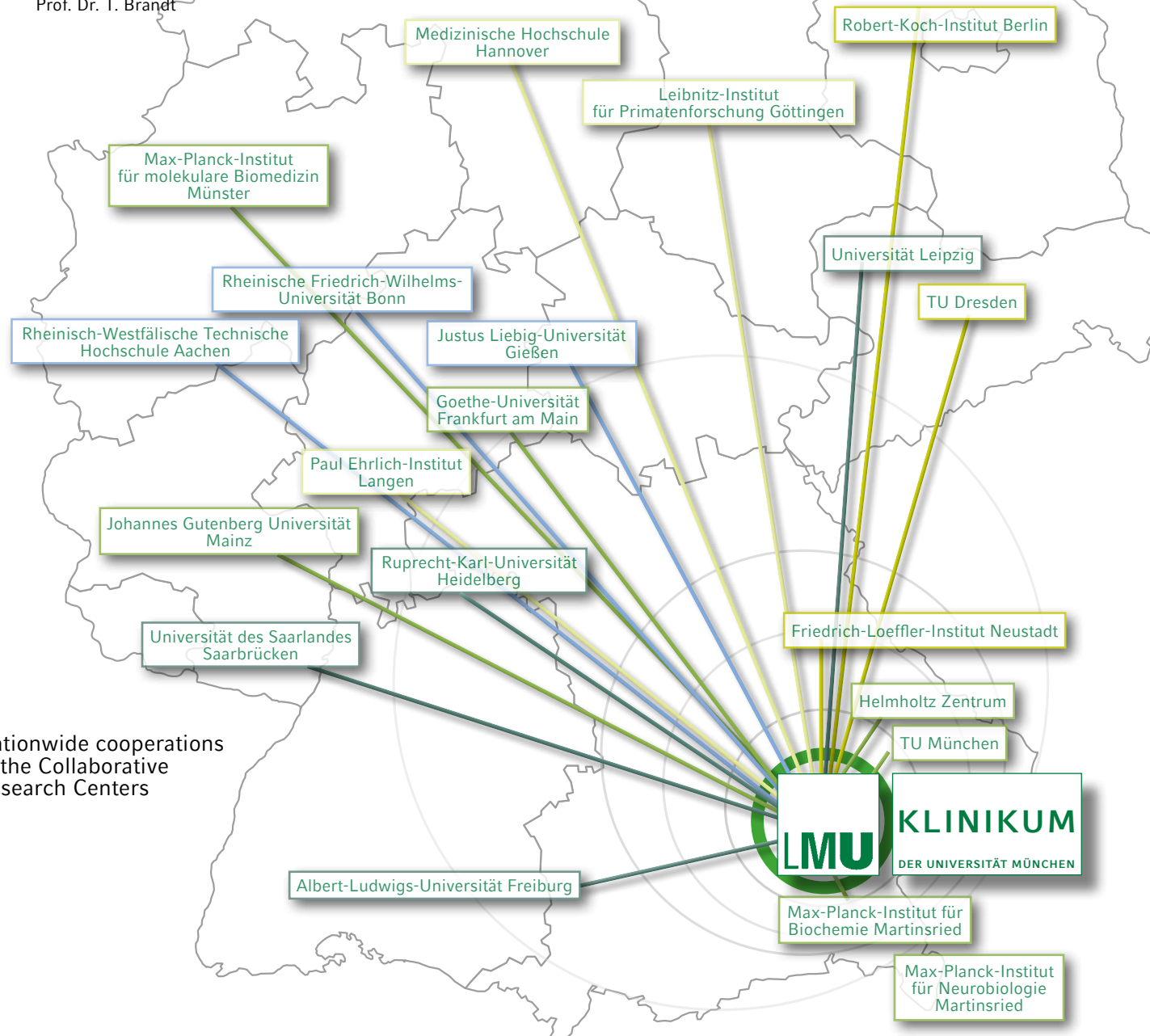
- DKTK** – German Cancer Consortium, LMU Speaker Prof. Dr. W. Hiddemann
- DZD** – German Center for Diabetes Research, LMU Speaker Prof. Dr. E. Wolf
- DZHK** – German Center for Cardiovascular Disease, LMU Speaker Prof. Dr. C. Weber
- DZIF** – German Center for Infection Research, LMU Speaker Prof. Dr. M. Hoelscher
- DZL** – German Center for Lung Research, LMU Speaker Prof. Dr. E. von Mutius
- DZNE** – German Center for Neurodegenerative Diseases, LMU Speaker Prof. Dr. C. Haass

INTEGRATED RESEARCH AND TREATMENT CENTER

- IFB** – German Center for Vertigo and Balance Disorders, Prof. Dr. T. Brandt

SPEAKER OF SIX COLLABORATIVE RESEARCH CENTERS („DFG-Sonderforschungsbereiche“)

- CRC 914:** Trafficking of immune cells in inflammation, development and disease, Prof. Dr. B. Walzog
- CRC 1054:** Control and plasticity of cell-fate decisions in the immune system, Prof. Dr. T. Brocker
- CRC 1064:** Chromatin dynamics, Prof. Dr. P. Becker
- CRC 1123:** Atherosclerosis – mechanisms and networks of novel therapeutic targets, Prof. Dr. C. Weber
- Transregio 127:** Biology of xenogeneic cell and organ transplantation – from bench to bedside, Prof. Dr. E. Wolf, Prof. Dr. B. Reichart
- Transregio 152:** Maintenance of body homeostasis by transient receptor potential channel modules, Prof. Dr. T. Gudermann



Ludwig-Maximilians-Universität

FACULTY OF MEDICINE
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www.med.uni-muenchen.de/forschung

Dean: Prof. Dr. Reinhard Hickel
Dean of Research: Prof. Dr. Stefan Endres (v.i.S.d.P.)

UNIVERSITY HOSPITAL
Marchioninistraße 15 | 81377 Munich | Germany
www.klinikum.uni-muenchen.de

Medical Director:
Prof. Dr. Karl-Walter Jauch



References: Annual report 2016, EvaLuna 2016, DFG, EU, Else Kröner-Fresenius Stiftung, Elitenetzwerk Bayern

Picture Credit: KUM, LMU, Franz Hacker, SIBA München 2 (Institute of Anatomy), IZB GmbH/ Luftbildverlag Bertram GmbH (Aerial View Campus Großhadern), Nickl & Partner Architekten AG (Das Neue Hauner)



FACT SHEET RESEARCH 2018

FACULTY OF MEDICINE

The Faculty of Medicine and the University Hospital of Ludwig-Maximilians-Universität in Munich are among Europe's leading centers of scholarly medicine. The university is connected to milestones and persons of the history of medicine: Wilhelm Conrad Röntgen (x-rays), Alois Alzheimer (neurodegenerative dementia), Max von Pettenkofer (hygiene), Adolf Friedrich Johann Butenandt (sexual hormones), and Feodor Lynen (cholesterol synthesis).

The faculty is member of all six national centers for health research (translational cancer research, pneumology research, infectious diseases research, cardiovascular research, diabetes research and neurodegenerative diseases research). These centers reflect the foci of medical research that are actively pursued in Munich, from the basic preclinical and clinical disciplines

to rare diseases research. As part of the national program for excellence the faculty hosts the Munich Cluster for Systems Neurology and co-hosts the Graduate School of Systemic Neurosciences and the Graduate School of Quantitative Biosciences. The Faculty is speaker to six nationally supported Collaborative Research Centers ('Sonderforschungsbereiche') by the German Research Foundation (DFG). It hosts five Advanced Grants and four further research projects by the European Research Council (ERC) and coordinates six national and european projects. The university hospital receives an annual research budget of 140 million Euro from the State of Bavaria and secures additional extra funding of over 90 million Euro per year.

UNIVERSITY HOSPITAL

Thanks to its achievements in research, teaching and patient care, the University Hospitals enjoy an excellent reputation both nationally and internationally. Our 10,055 staff members in the areas of medicine, patient care, administration, technology and maintenance are taking care of patients in 47 clinical departments, insti-

tutes and divisions. In addition, 48 interdisciplinary centers offer individual medical care. Interdisciplinary collaboration of experts from different medical areas enables efficient diagnosis and therapy. With 2,050 beds, the University of Munich Hospital provides high standards of diagnosis, treatment and nursing, and is, next to the Charité in Berlin, the second largest university hospital in Germany.

6
NATIONAL
CENTERS

6
COLLABORATIVE
RESEARCH
CENTERS



4
CLUSTERS OF
EXCELLENCE

10
GRADUATE
SCHOOLS &
COLLEGES

48
DEPARTMENTS

47
INTER-
DISCIPLINARY
CENTERS



CURRENT ERC ADVANCED GRANTS TO FACULTY MEMBERS

erc **Advanced Grant**
TOLERANCE FOOTPRINT – Clonal Deletion versus Clonal Diversion: Footprints of Self - Tolerance in the T Cell Repertoire (2017 to 2022— Prof. Dr. L. Klein)

erc **Advanced Grant**
PAPA – Pathophysiology of primary aldosteronism (2017 to 2021 - Prof. Dr. M. Reincke)

erc **Advanced Grant**
PROVASC – Cell-specific vascular protection by CXC12/CXCR4 (2016 to 2021 - Prof. Dr. C. Weber)

erc **Advanced Grant**
META-GROWTH – Metabolic regulation of growth and body composition (2013 to 2018 - Prof. Dr. B. Koletzko)

erc **Advanced Grant**
AMYLOID – Identification and modulation of pathogenic amyloid β -peptide species (2013 to 2018 - Prof. Dr. C. Haass)

CURRENT COORDINATED EU AND BMBF PROJECTS

CHAMP – Childhood Allergy and tolerance: bioMarkers and Predictors (2017 to 2021- Prof. Dr. B. Schaub)

MOBILE-NET – Enabling participation by enabling MOBILity in older adults (2017 to 2020 – Prof. Dr. E. Grill)

SVDS @target – Small vessel diseases from a therapeutic perspective: Targets for intervention. Affected pathways and mechanistic exploitation for prevention of stroke dementia (2016 to 2020 - Prof. Dr. M. Dichgans)

GCBS – Consortium „German Center for Brain Stimulation“ (2015 to 2019) - Prof. Dr. F. Padberg)

pid.net – Network for primary immunodeficiency disorders (2015 to 2018 - Prof. Dr. C. Klein)

PRONIA – Personalised prognostic tools for early psychosis management (2013 to 2018 - Prof. Dr. N. Koutsouleris)

CURRENT GRADUATE AND RESEARCH COLLEGES

DFG **GRK 2338:** Toxicological Target Structures – Dissecting Therapeutic Targets in Pulmonary Toxicology (since 2018 - Prof. Dr. T. Gudermann)

DFG **GRK 2274:** Advanced Medical Physics for Image-Guided Cancer Therapy (since 2017 - Prof. Dr. K. Parodi)

ChroMe – Chromatin and Metabolism (since 2016 - Prof. Dr. A. Ladurner)

Else Kröner-Fresenius-Stiftung **Else Kröner-Fresenius Clinician Scientist Program Translational Psychiatry** (since 2016 - Prof. Dr. P. Falkai)

Else Kröner-Fresenius-Stiftung **Else Kröner-Fresenius Clinician Scientist Program Cancer Immunotherapy** (since 2016 - Prof. Dr. M. Subklewe)

IMMUTRAIN – Training network for the immunotherapy of cancer (since 2015 - Prof. Dr. S. Endres)

Else Kröner-Fresenius-Stiftung **Else Kröner-Fresenius Clinical Research School Rare Immune System Diseases** (since 2015 - Prof. Dr. C. Klein)

i-Target – Immunotargeting of Cancer (since 2014 - Prof. Dr. S. Endres)

REASON – Scientific Reasoning and Argumentation (since 2013 - Prof. Dr. F. Fischer)

GROSSHADERN CAMPUS



BIOMEDICINE FOR LIFE AND QUALITY OF LIFE

Research at the faculty of medicine and at the university hospital comprises six major areas of activity:

Molecular medicine

- Cluster of Excellence 114 – Integrated protein sciences
- Cluster of Excellence 4 – Nanosystems initiative
- Graduate School – Quantitative biosciences
- CRC 1064 – Chromatin dynamics
- Transregio 152 – TRP canal modules in homeostasis
- Graduate College – ChromE

Fighting cancer

- German Cancer Consortium
- Cluster of Excellence 158 – Advanced photonics
- Graduate College – i-Target Immunotargeting of cancer
- Graduate College – Immuntrain
- GRK 2274 – Advanced Medical Physics for Image-Guided Cancer Therapy
- Research College – Cancer Immunotherapy
- Research College – Rare Immune System Diseases

Vessels, inflammation and infection

- German Center for Cardiovascular Disease
- German Center for Infection Research
- German Center for Lung Research
- CRC 1123 – Atherosclerosis
- CRC 1054 – Cell differentiation in the immune system
- CRC 914 – Immune cell trafficking Transregio 205 – The Adrenal
- GRK 2338 – Toxicological Target Structures
- ERC Advanced Grant – Tolerance Footprint
- ERC Advanced Grant – Pathophysiology of primary aldosteronism
- ERC Advanced Grant – Cell-specific vascular protection
- CHAMP – Childhood Allergy and tolerance

Transplantation medicine

- German Center for Diabetes Research
- CRC 127 – Xenotransplantation

Neurosciences

- German Center for Neurodegenerative Diseases
- German Center for Vertigo and Balance Disorders
- Cluster of Excellence 1010 – Systems neurology
- Graduate School – Systemic Neurosciences
- ERC Advanced Grant – Pathogenic amyloid-peptides
- Research College – Translational Psychiatry

Medicine for society

- Graduate College – Research Training Group Scientific thought and discussion
- ERC Advanced Grant – Metabolic regulation of growth and body composition
- MobilE-Net – Enabling participation by enabling MOBILity in older adults

HIGH IMPACT PUBLICATIONS OF THE PAST FIVE YEARS

Selected journals with impact factor >15 and at least 10 publications (impact factor JIF 2015, 2012 to 2016)

Journal name	Impact factor	Number of publications
New England Journal of Medicine	59.6	68
The Lancet	44.0	39
Nature	38.1	24
Journal of the American Medical Association	37.7	16
Science	34.7	12
Nature Genetics	31.6	60
Nature Medicine	30.4	15
Cell	28.7	14
Lancet Oncology	26.5	28
Lancet Neurology	23.5	21

Journal name	Impact factor	Number of publications
Lancet Infectious Diseases	21.4	13
Journal of Clinical Oncology	21.0	50
Gastroenterology	18.2	18
Journal of the American College of Cardiology	17.8	40
Circulation	17.2	25
Nature Neuroscience	16.7	11
Science Translational Medicine	16.3	15
Lancet Respiratory Medicine	15.3	15
European Heart Journal	15.1	38

GROSSHADERN CAMPUS

- Center for Stroke and Dementia
- Biomedical Center
- Design study Department of Pediatrics „Das Neue Hauner“ (opening 2022)
- Childrens' Palliative Care Center for Children
- Surgery Center
- University Hospital main building
- LMU Faculty of Chemistry and Pharmacology
- LMU Gene Center
- LMU Faculty of Biology
- Cooperating research institutions at the biomedical campus Martinsried

DOWNTOWN CAMPUS

- Institute of Medical Psychology
- Department of Ophthalmology
- Department of Obstetrics and Gynecology
- Department of Oral and Maxillo-facial Surgery and Facial Plastic Surgery
- Institute of Anatomy
- Walther Straub Institute of Pharmacology
- Institute of Cardiovascular Prevention (IPEK)
- Institute of Legal Medicine
- Department of Surgery
- Department of Pediatrics
- Department of Dental Medicine
- Department of Internal Medicine and Toxicology
- Max von Pettenkofer Institute
- Friedrich Baur Institute
- Department of Dermatology
- Department of Psychiatry and Psychotherapy, Institute of Psychiatric Phenomics and Genomics
- Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy
- Institute of Pathology

DOWNTOWN CAMPUS

