

FACTS AND FIGURES



PATIENT CARE*

- 47 departments
- 47 interdisciplinary centers
- 95,223 in-patients
- 442,104 out-patients
- 2,058 inpatient beds
- 9,729 employees
- 1,709 doctors
- 3,203 nursing staff

95,223
IN-PATIENTS

3,203
NURSING
STAFF

1,709
DOCTORS

177
PROFESSORS

9,729
STAFF
MEMBERS

6,388
STUDENTS

* 2015



ACADEMIC EXCELLENCE*

- 177 professors
- 6,388 students
- 444 PhD graduations
- 2,845 publications, cumulative impact 13,412 (JIF 2014)
- 91 Mio € annual third-party funding

RESEARCH CONSORTIA

- 4 clusters of excellence
- 2 graduate schools
- 7 graduate colleges
- 6 national centers for medical research
- Speaker of 6 nationally funded Collaborative Research Centers
- 5 European Research Council advanced grants (ERCs)
- 6 coordinated EU-funded network projects

CURRENT ERC ADVANCED GRANTS TO FACULTY MEMBERS

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)

erc Advanced Grant
ACCOMPLI – Assembly and maintenance of a co-regulated chromosomal compartment (2012 to 2017 - Prof. Dr. P. Becker)

CURRENT COORDINATED EUROPEAN PROJECTS

SVDS **at-target**
SVDS-at-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)

MAKER CURIE ACTIONS
SilentFact – Functional networks and cancer roles of the essential histone chaperone FACT (2015 to 2017 - Prof. Dr. A. Ladurner)

MAKER CURIE ACTIONS
VirtualPatients – Effective clinical reasoning in virtual patients (2015 to 2017 - Prof. Dr. M. Fischer)

PRONIA
PRONIA – Personalised prognostic tools for early psychosis management (2013 to 2018 - PD Dr. K. Nikolaos)

MAKER CURIE ACTIONS
Vascamy – Vascular and amyloid predictors of neurodegeneration and cognitive decline (2013 to 2017 - Prof. Dr. M. Ewers)

EARLY NUTRITION
EarlyNutrition – Long-term effects of early nutrition on later health (2012 to 2017 - Prof. Dr. B. Koletzko)

CURRENT GRADUATE AND RESEARCH COLLEGES

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

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

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

LMU
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)

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

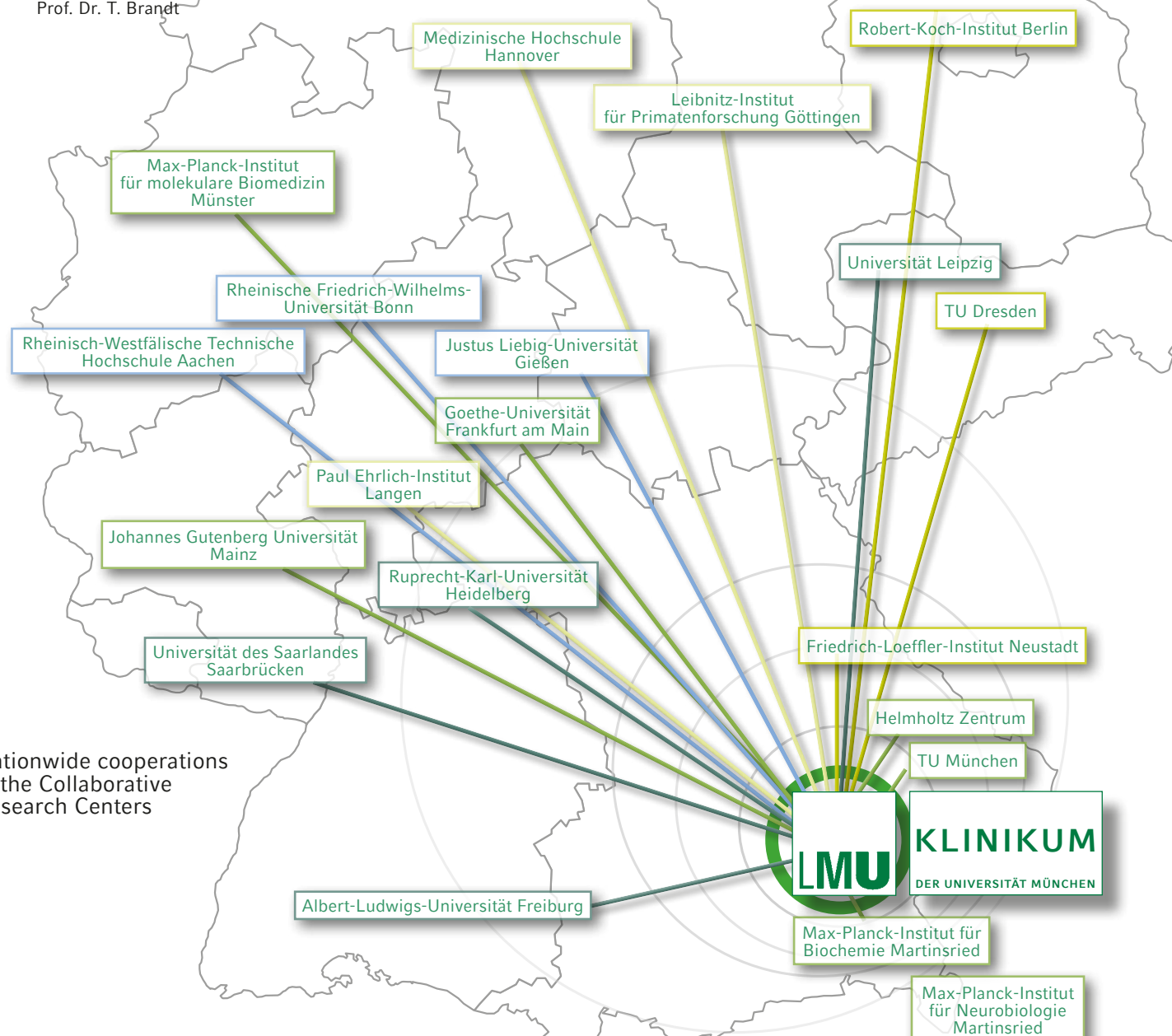
REASON
REASON – Scientific Reasoning and Argumentation (since 2013 - Prof. Dr. F. Fischer)

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



Nationwide cooperations of the Collaborative Research Centers

Ludwig-Maximilians-Universität

FACULTY OF MEDICINE
Bavariaring 19 | 80336 Munich | Germany
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



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
- Transregio 152:** Maintenance of body homeostasis by transient receptor potential channel-modules, Prof. Dr. T. Gudermann



FACT SHEET RESEARCH 2017

FACULTY OF MEDICINE

6
NATIONAL
CENTERS

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

UNIVERSITY HOSPITAL

Thanks to its achievements in research, teaching and patient care, the University Hospitals enjoy an excellent reputation both nationally and internationally. Our 9,729 staff members in the areas of medicine, patient care, administration, technology and maintenance are taking care of patients in 47 clinical departments, insti-

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GRADUATE
SCHOOLS &
COLLEGES



47
DEPARTMENTS

47
INTER-
DISCIPLINARY
CENTERS

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 six further research projects by the European Research Council (ERC). The university hospitals receive an annual research budget of 140 million Euro from the State of Bavaria and secure additional extra funding of over 90 million Euro per year.

6
COLLABORATIVE
RESEARCH
CENTERS



4
CLUSTERS OF
EXCELLENCE

References: Annual report 2015, EvaLuna 2016, DFG, EU, Else Kröner-Fresenius Stiftung, Elitenetzwerk Bayern

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

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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
- Collaborative Research Center 1064 – Chromatin dynamics
- Collaborative Research Center Transregio 152 – TRP canal modules in homeostasis
- ERC Advanced Grant – Chromosomal compartment
- Graduate College – Chrome

Fighting cancer

- German Cancer Consortium
- Cluster of Excellence 158 – Advanced photonics
- Graduate College – Research Training Group i-Target immunotargeting of cancer
- Graduate College – Immutrain

- Graduate College – Cancer Immunotherapy
- Graduate College – Rare Immune System Diseases

Vessels, inflammation and infection

- German Center for Cardiovascular Disease
- German Center for Infection Research
- German Center for Lung Research
- Collaborative Research Center 1123 – Atherosclerosis
- Collaborative Research Center 1054 – Cell differentiation in the immune system
- Collaborative Research Center 914 – Immune cell trafficking
- ERC Advanced Grant – Cell-specific vascular protection

Transplantation medicine

- German Center for Diabetes Research

- Collaborative Research Center 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
- Graduate 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



HIGH IMPACT PUBLICATIONS OF THE PAST FIVE YEARS

Selected journals with impact factor >15 and at least 10 publications (impact factor JIF 2014, 2011 to 2015)

Journal name	Impact factor	Number of publications
New England Journal of Medicine	55.9	59
The Lancet	54.2	36
Nature	41.5	18
Journal of the American Medical Association	35.3	12
Science	33.6	13
Cell	32.2	11
Nature Genetics	29.4	76
Nature Medicine	28.2	18

Journal name	Impact factor	Number of publications
Lancet Oncology	24.7	24
Lancet Infectious Diseases	22.4	13
Lancet Neurology	21.9	17
Journal of Clinical Oncology	18.4	41
Gastroenterology	16.7	15
Journal of the American College of Cardiology	16.5	32
Science Translational Medicine	15.8	15
European Heart Journal	15.2	39
Circulation	15.1	33

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

- Max von Pettenkofer Institute
- Ophthalmology Department
- Gynecology and Obstetrics Department
- Psychiatry Department
- Institute of Anatomy
- Friedrich Baur Institute
- Childrens' and Adolescent Psychiatry Department
- Institute of Pathology
- Downtown Campus University Hospital Center (opening 2020)
- Department of Pediatrics
- Department of Dental Medicine
- Internal Medicine Department
- Walther Straub Institute of Pharmacology and Toxicology
- Institute for Cardiovascular Prevention (IPEK)
- Department of Dermatology

DOWNTOWN CAMPUS