

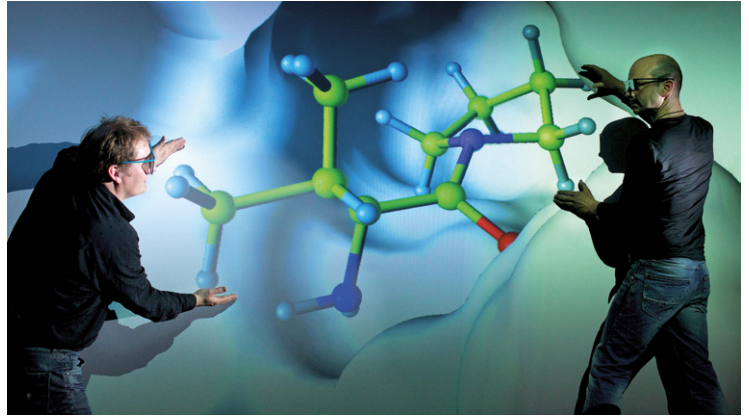


Research for Health

in the Capital Region Berlin-Brandenburg



Charité - one of the largest university clinics in Europe



3D facilities for the design of functional molecules at Zuse Institute Berlin

Universities

Beuth University of Applied Sciences Berlin
 Brandenburg University of Technology Cottbus-Senftenberg
 Charité – Universitätsmedizin Berlin
 Freie Universität Berlin
 Hochschule für Technik und Wirtschaft (HTW) Berlin
 Humboldt-Universität
 Medizinische Hochschule Brandenburg Theodor Fontane
 Technical University of Applied Sciences Wildau
 Technische Universität Berlin
 University of Potsdam

Research facilities

BAM Federal Institute for Materials Research and Testing
 Bernstein Center for Computational Neurosciences Berlin
 Berlin-Brandenburg Center for Regenerative Therapies (BCRT)
 Berlin Institute of Health (BIH)
 Deutsches Herzzentrum Berlin
 Federal Institute for Risk Assessment (BfR)
 Fraunhofer Institute for Applied Polymer Research IAP
 Fraunhofer Institute for Cell Therapy and Immunology IZI, Bioanalytics and Bioprocesses branch in Potsdam/Golm
 Fraunhofer Institute for Open Communication Systems FOKUS
 Fraunhofer Institute for Production Systems and Design Technology IPK

Berlin-Brandenburg is one of Europe's leading locations for biotechnology, medical technology and pharmaceuticals. For many companies that have come to the region or were founded here, the outstanding academic and scientific landscape is a decisive factor for success. Scientists conduct excellent life sciences research here, characterized by a broad spectrum and close interdisciplinary networking. The capital region features short paths to exchanges and partnerships – not only between different research institutions, but also between industry, clinics and academic research in various ways.

Outstanding basic research

Pioneering innovations always begin with basic research, which is conducted at the highest level in the region. Top institutes involved in biomedical research are concentrated here. Around 70 independent research groups work at the Max Delbrück Center for Molecular Medicine in the four research focal areas: cardiovascular and metabolic diseases, cancer, function and dysfunction of the nervous system and medical systems biology. The



»After 20 years at top foreign universities, I came to Berlin-Brandenburg because there are fantastic prospects for development here. The Max Planck Society offers opportunities that you won't find anywhere else in the world. The conditions for spinning off companies are ideal.«

Prof. Dr. Peter Seeberger
 Director
 Max Planck Institute of Colloids and Interfaces



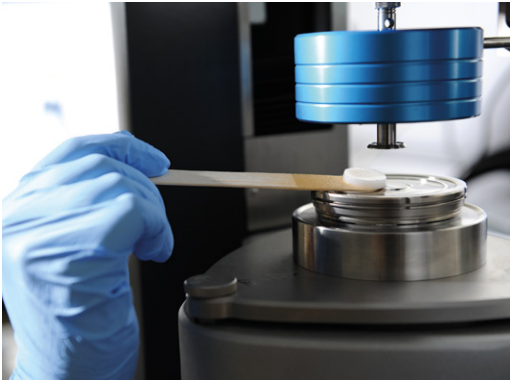
Prof. Dr. Karl Max Einhäupl
 Chairman of the Executive Board
 Charité – Universitätsmedizin Berlin

»University medicine considers itself a significant engine for innovation in the healthcare sector. This makes Charité an important component of Berlin's health economy, oriented to close partnerships with industry. The fact that this is also one of Charité's 10 company goals emphasizes its commitment to partnerships.«

Leibniz-Institut für Molekulare Pharmakologie (FMP) has unique equipment and outstanding expertise in the areas of signal transduction, molecular genetics, structural biology and chemical biology. The Max Planck Institute for Molecular Genetics is a leader in the systematic analysis of genes and genomes. The Max Planck Institute of Colloids and Interfaces has a special focus on glyco-biology: automated carbohydrate synthesis, in particular. The German Rheumatism Research Centre Berlin is one of the key institutions in the areas of immunology, experimental rheumatology and rheumatism epidemiology. The German Institute of Human Nutrition researches the molecular causes of nutrition-related illnesses. Many of the other regional institutions are also at the top of their field internationally.

A university medicine powerhouse

In Charité – Universitätsmedizin Berlin, a joint Freie Universität Berlin and Humboldt-Universität institution, the region has one of Europe's largest university clinics. Here, over 4,500 doctors and scientists research, heal and teach at the highest international level. Charité



At the HZG Institute of Biomaterial Science, scientists develop materials for medical technologies.

- Outstanding scientific and academic landscape
- Research focal areas in genomics, systems medicine, glyco-biology, regenerative medicine, RNA technologies, imaging, biologized medical engineering, care research and eHealth
- Leading German location for the life sciences industry, with over 230 biotechnology companies, 300 in medical technology and 30 in pharmaceuticals
- Excellent access to skilled specialists due to the many degree and continuing education programs
- Close network among science and business, and interdisciplinary partnerships in the areas of biotechnology, pharmaceuticals, medical technology, photonics and ICT
- Outstanding conditions for preclinical and clinical research

is the German medical department with the highest level of third party funding and a front-runner in German Research Foundation's research funding (DFG). Thanks to its many successes in the Excellence Initiative for Cutting-Edge Research at Institutions of Higher Education and other highly competitive DFG, German Federal Ministry of Research and EU research funding procedures, the institution has the most cooperative research projects of all centers of German university medicine.

Quick translation into clinical practice

The region offers optimal conditions for close, project-related partnerships between basic researchers, technology developers and clinical researchers. Institutions for translational research like the Berlin-Brandenburg Center for Regenerative Therapies (BCRT) or the Center for Molecular Diagnostics and Bioanalysis (ZMDB) were established against this background.



»Innovation for medical technology emerges from close, interdisciplinary partnerships between many scientists. With its strengths in this sector – in the areas of orthopedic and cardiological implants, imaging and minimally invasive procedures, medical information and

communication technology and clinical research and biotechnology – Berlin-Brandenburg offers outstanding conditions.«

Prof. Dr.-Ing. Marc Kraft
Head of the medical technology department
TU Berlin



»I came to Berlin in 2008 as a doctoral candidate because the innovative research and open atmosphere at MDC inspired me. The location offers fantastic conditions for young people!«

Nuria Cerdá-Esteban
Science Operations Manager
Max Delbrück Centre for Molecular Medicine

The Berlin Institute of Health (BIH), where scientists from Charité and MDC have pooled their research activities since 2013, is another top global institution located in the capital region. The BIH's guiding principle is systems medicine. It targets the further development and integration of different omics technologies using high throughput methods as a means of developing applications for personalized medicine.

Applied research and technology development

Alongside biomedical research, medical technology is especially strong in the region. It uses the findings from a variety of disciplines, benefiting from the many application-oriented, technology intense institutions here, including the Fraunhofer institutes and Technische Universität Berlin. Important stimuli for eHealth applications come from ICT research based at Fraunhofer FOKUS, Zuse Institute Berlin and the Leibniz Institute for High Performance Microelectronics in Frankfurt/Oder.

Research facilities (continuation)

- Fraunhofer Institute for Reliability and Microintegration IZM
- German Institute of Human Nutrition (DIfE)
- German Rheumatism Research Centre Berlin
- Institute of Biomaterial Science of the Helmholtz-Zentrum Geesthacht (Teltow)
- Leibniz Institute for Agricultural Engineering Potsdam-Bornim
- Leibniz Institute for High Performance Microelectronics (IHP)
- Leibniz-Institut für Molekulare Pharmakologie (FMP)
- Max Delbrück Center for Molecular Medicine in the Helmholtz Association
- Max Planck Institute for Infection Biology
- Max Planck Institute of Colloids and Interfaces
- Max Planck Institute for Molecular Genetics
- Max Planck Institute of Molecular Plant Physiology
- Physikalisch-Technische Bundesanstalt, the National Metrology Institute of Germany
- Robert Koch Institute
- Zuse Institute Berlin (ZIB)



HealthCapital
BERLIN BRANDENBURG

Our aim: your success!

Berlin and Brandenburg support research and development in the life sciences with an economic policy developed across state borders in the Healthcare industries cluster. The cluster is managed under the aegis of Berlin Partner for Business and Technology and the Brandenburg Economic Development Board (ZAB).

Our aim is to provide comprehensive support to companies and scientific institutions interested in inward investment or further development in the capital region.

We are ready to assist you with:

- **Company start-up**
- **Location search**
- **Funding and financing**
- **Technology transfer and R&D partnerships**
- **Cooperating in networks**
- **Employee recruiting, programs designed to retain skilled specialists and qualification**
- **International market development**

Reach out and contact us!
www.healthcapital.de

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