



Research in Germany

IMMUNOLOGY AND INFECTIOLOGY

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Research in
Germany



Land of Ideas





Research in Germany

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IMMUNOLOGY AND INFECTIOLOGY

PREFACE

This brochure provides a first insight into research in Germany in the field of molecular, cellular and clinical immunology and infectiology and is especially recommended to early career researchers from abroad.

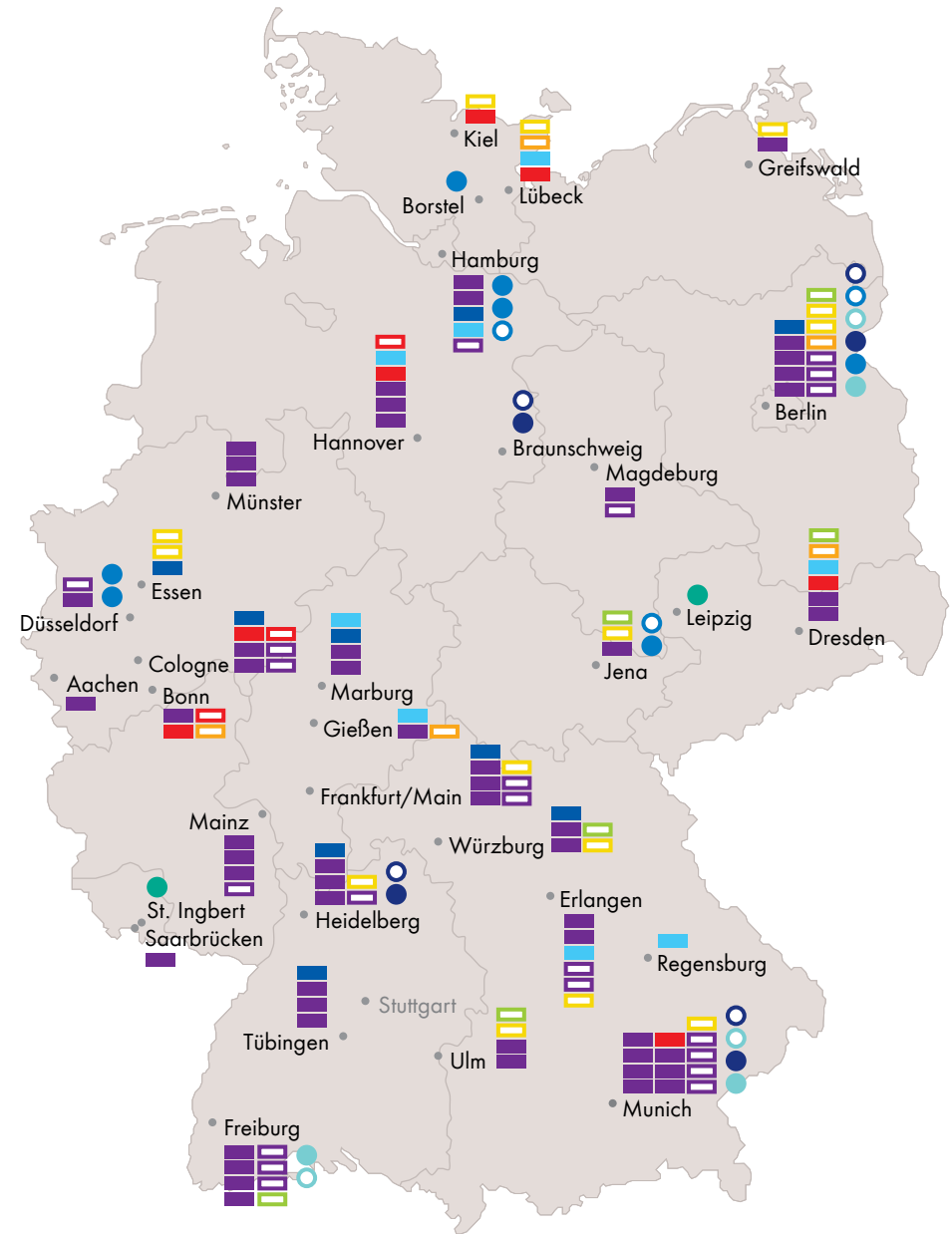
Molecular, cellular and clinical immunology and infectiology research in Germany is primarily conducted at universities but also at non-university research institutions. Almost all universities and many universities of applied sciences host a molecular, cellular and clinical immunology and infectiology research section. The spectrum ranges from small monothematic working groups to large interdisciplinary departments and covers a variety of topics from traditional areas to new explorative research fields.

This brochure is intended to give an initial overview. The following map and tables highlight research consortia and graduate training programmes at universities and non-university research institutes with a main focus on molecular, cellular and clinical immunology and infectiology.

On top of this, there is a lot more to discover: e.g. the DFG funds a multitude of individual projects in the area of molecular, cellular and clinical immunology and infectiology. These individual grants outweigh the research consortia both in number and in overall funding volume. Towards the end of this brochure, you will find a link to the online database GEPRIS that provides an overview of all DFG-funded research projects. You will also find additional important links for further information about programmes in the field of molecular, cellular and clinical immunology and infectiology and profiles of German universities and research institutions.

We invite you to explore the many opportunities that Germany has to offer and welcome your feedback.

OVERVIEW



	Graduate Schools		Helmholtz Graduate Schools
	Research Training Groups		Leibniz Graduate Schools
	International Research Training Groups		International Max Planck Research Schools
	Integrated Research Training Groups in Clusters of Excellence		Fraunhofer Institutes
	Integrated Research Training Groups in Collaborative Research Centres/Transregios		Helmholtz Centres
	Clinical Research Units		Leibniz Institutes
	Research Units		Max Planck Institutes
	Clusters of Excellence		
	Collaborative Research Centres/Transregios		

DFG-funded Priority Programmes and several Research Units are not shown on the map since they are not necessarily located at a single location; they are listed on pages 19 and 15. The map shows the headquarters of the non-university research institutions.

CENTRES OF RESEARCH

- FUNDED BY DFG -

Clusters of Excellence (EXC) were established at universities in the framework of the German Excellence Initiative and promote cutting-edge research. Their objective is to engage in scientific networking and collaboration in research fields of particular promise for the future. They also offer excellent training conditions and career opportunities for early career researchers.



Collaborative Research Centres (CRC) are organisational units established at universities which enable researchers to pursue an outstanding research programme crossing the boundaries of disciplines, institutes, departments and faculties. The traditional Collaborative Research Centre is generally applied for by one university and is conducted by researchers of that university. Early career support is a key objective of the Collaborative Research Centre Programme. Early career researchers may get involved in a CRC in numerous ways, for example within the framework of an Integrated Research Training Group. Collaborative Research Centres are funded for a period of up to 12 years.

Transregios (TRR) are Collaborative Research Centres in which up to three universities collaborate with each other and submit a joint application. The contributions of the cooperative partners are essential, complementary and synergetic to the joint research objective. Funding facilitates close, nationwide collaboration among the participating universities and researchers, as well as networking and shared use of resources. There is also the option of international Transregios.








CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
CLUSTERS OF EXCELLENCE				
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	ImmunoSensation: The Immune Sensory System (EXC 1023)	2012	www.immunosensation.de
 Cologne	Universität zu Köln	Cellular Stress Responses in Aging-associated Diseases (CECAD) (EXC 229)	2007	www.cecad.uni-koeln.de
 Dresden	Technische Universität Dresden	Center for Regenerative Therapies Dresden (CRTD) (EXC 168)	2006	www.crt-dresden.de
 Hannover	Medizinische Hochschule Hannover	REBIRTH – From Regenerative Biology to Reconstructive Therapy (EXC 62)	2006	www.rebirth-hannover.de
 Kiel Lübeck	Christian-Albrechts-Universität zu Kiel Universität zu Lübeck	Inflammation at Interfaces (EXC 306)	2007	http://inflammation-at-interfaces.de/en
 Munich	Ludwig-Maximilians-Universität München Technische Universität München	Munich Cluster for Systems Neurology (SyNergy) (EXC 1010)	2012	www.synergy-munich.de
COLLABORATIVE RESEARCH CENTRES				
 Cologne	Universität zu Köln	Molecular Mechanisms Regulating Skin Homeostasis (CRC 829)	2008	http://sfb829.uni-koeln.de
 Cologne	Universität zu Köln	Cell-Autonomous Immunity (CRC 670)	2006	http://sfb670.uk-koeln.de
 Düsseldorf	Heinrich-Heine-Universität Düsseldorf	Communication and Systems Relevance in Liver Injury and Regeneration (CRC 974)	2011	www.uniklinik-duesseldorf.de/sfb-974 (DE)
 Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	Checkpoints for Resolution of Inflammation (CRC 1181)	2015	www.sfb1181.forschung.fau.eu/
 Frankfurt/Main	Goethe-Universität Frankfurt am Main	Signalling by Fatty Acid Derivatives and Sphingolipids in Health and Disease (CRC 1039)	2013	www.lipidsignalling.de/en/home
 Frankfurt/Main	Goethe-Universität Frankfurt am Main	Redox-Regulation: Generatorsystems and Functional Consequences (CRC 815)	2008	www.redox-sfb.de/english

CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
 Freiburg	Albert-Ludwigs-Universität Freiburg	Immune-Mediated Pathology as a Consequence of Impaired Immune Reactions (CRC 1160)	2015	www.sfb1160.uni-freiburg.de
 Hamburg	Universität Hamburg	Immune-Mediated Glomerular Diseases – Basic Concepts and Clinical Implications (CRC 1192)	2015	www.sfb1192.de
 Hamburg	Universität Hamburg	Liver Inflammation: Infection, Immune Regulation and Consequences (CRC 841)	2009	http://sfb841.de
 Hannover	Medizinische Hochschule Hannover	Chronic Infections: Microbial Persistence and its Control (CRC 900)	2010	www.sfb900.de/en
 Hannover	Medizinische Hochschule Hannover	Optimisation of Conventional and Innovative Transplants (CRC 738)	2007	www.sfb738.de (DE)
 Heidelberg	Ruprecht-Karls-Universität Heidelberg	Integrative Analysis of Pathogen – Replication and Spread (CRC 1129)	2014	www.sfb1129.de
 Magdeburg	Otto-von-Guericke-Universität Magdeburg	Molecular Organization of Cellular Communication within the Immune System (CRC 854)	2009	www.sfb854.de/en
 Mainz	Johannes Gutenberg-Universität Mainz	Targeting Convergent Mechanisms of Inefficient Immunity in Tumors and Chronic Infection (CRC 1292)	2017	http://gepris.dfg.de/gepris/projekt/264599542
 Marburg	Philipps-Universität Marburg	RNA Viruses: RNA Metabolism, Host Response and Pathogenesis (CRC 1021)	2012	www.sfb1021.de
 Münster	Westfälische Wilhelms-Universität Münster	Breaking Barriers – Immune Cells and Pathogens at Cell/Matrix Barriers (CRC 1009)	2012	www.medizin.uni-muenster.de/en/sfb-1009
 Munich	Ludwig-Maximilians-Universität München	Control and Plasticity of Cell-Fate Decisions in the Immune System (CRC 1054)	2012	www.sfb1054.med.uni-muenchen.de
 Munich	Ludwig-Maximilians-Universität München	Trafficking of Immune Cells in Inflammation, Development and Disease (CRC 914)	2011	www.sfb914.de
 Saarbrücken	Universität des Saarlandes	Ca²⁺ Signals: Molecular Mechanisms and Integrative Functions (CRC 894)	2010	http://sfb894.uni-saarland.de/en

CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
 Tübingen	Eberhard Karls Universität Tübingen	The Bacterial Cell Envelope: Structure, Function and Infection Interface (CRC 766)	2007	www.sfb766.uni-tuebingen.de
 Ulm	Universität Ulm	Exploiting the Human Peptidome for Novel Antimicrobial and Anticancer Agents (CRC 1279)	2017	www.uni-ulm.de/en/med/sfb-1279
 Ulm	Universität Ulm	Danger Response, Disturbance Factors and Regenerative Potential after Acute Trauma (CRC 1149)	2014	www.uni-ulm.de/en/einrichtungen/crc-1149
COLLABORATIVE RESEARCH CENTRES/TRANSREGIOS				
 Aachen	Rheinisch-Westfälische Technische Hochschule Aachen	Organ Fibrosis: From Mechanisms of Injury to Modulation of Disease (TRR 57)	2008	www.sfbtrr57.de/en
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn			
 Berlin	Charité – Universitätsmedizin Berlin	B Cells: Immunity and Autoimmunity (TRR 130)	2013	www.trr130.forschung.uni-erlangen.de
Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg			
Freiburg	Albert-Ludwigs-Universität Freiburg			
 Berlin	Charité – Universitätsmedizin Berlin	Development, Function and Potential of Myeloid Cells in the Central Nervous System (NeuroMac) (TRR 167)	2016	www.sfb-trr167.uni-freiburg.de
Freiburg	Albert-Ludwigs-Universität Freiburg			
 Berlin	Charité – Universitätsmedizin Berlin	Innate Immunity of the Lung: Mechanisms of Pathogen Attack and Host Defence in Pneumonia (TRR 84)	2010	www.sfb-tr84.de
Gießen	Justus-Liebig-Universität Gießen			
Marburg	Philipps-Universität Marburg			

CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Berlin	Charité – Universitätsmedizin Berlin	Principles and Applications of Adoptive T Cell Therapy (TRR 36)	2006	www.sfb-tr36.com
Munich	Ludwig-Maximilians- Universität München Technische Universität München			
Dresden Hannover	Technische Universität Dresden Medizinische Hochschule Hannover	Biology of Xenogeneic Cell and Organ Transplantation – From Bench to Bedside (TRR 127)	2012	www.klinikum.uni-muenchen.de/SFB-TRR-127
Munich	Ludwig-Maximilians- Universität München Technische Universität München			
Dresden Munich	Technische Universität Dresden Ludwig-Maximilians- Universität München	The Adrenal: Central Relay in Health and Disease (TRR 205)	2017	http://gepris.dfg.de/gepris/projekt/314061271
Frankfurt/ Main	Goethe-Universität Frankfurt am Main	Initiating/Effector versus Regulatory Mechanisms in Multiple Sclerosis - Progress towards Tackling the Disease (TRR 128)	2012	www.sfbtr128.de
Mainz	Johannes Gutenberg- Universität Mainz			
Münster	Westfälische Wilhelms-Universität Münster			
Munich	Ludwig-Maximilians- Universität München Technische Universität München			
Freiburg Heidelberg	Albert-Ludwigs- Universität Freiburg Ruprecht-Karls- Universität Heidelberg	Determinants and Dynamics of Elimination versus Persistence of Hepatitis Virus Infection (TRR 179)	2016	www.trr179.de/en
Munich	Ludwig-Maximilians- Universität München Technische Universität München			

CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Greifswald	Ernst-Moritz-Arndt Universität Greifswald	Pathophysiology of Staphylococci in the Post-Genome-Era (TRR 34)	2006	www.staphaureus.org
Münster	Westfälische Wilhelms-Universität Münster			
Tübingen	Eberhard Karls Universität Tübingen			
Würzburg	Julius-Maximilians- Universität Würzburg			
Heidelberg	Ruprecht-Karls- Universität Heidelberg	The Skin as a Sensor and Effector Organ Orchestrating Local and Systemic Immune Responses (TRR 156)	2015	www.klinikum.uni-heidelberg.de/Welcome.143238.0.html
Mainz	Johannes Gutenberg- Universität Mainz			
Tübingen	Eberhard Karls Universität Tübingen			
Jena Würzburg	Friedrich-Schiller- Universität Jena Julius-Maximilians- Universität Würzburg	Pathogenic Fungi and their Human Host: Networks of Interaction – FungiNet – (TRR 124)	2013	www.funginet.de



RESEARCH UNITS

-FUNDED BY DFG-

Research Units (FOR) often contribute to establishing new research directions. Research Units are made up of a team of researchers working together on a research project which is often of an interdisciplinary nature. Research Units consist of several researchers and subprojects. The subprojects of a Research Unit are often located at several locations throughout Germany. Research Units are generally funded for up to six years.

In case most of a Research Unit's subprojects are located at one place, it is represented in the map.



RESEARCH UNITS

Title	Funded Since	Contact
Tissue Type 2 Responses: Mechanisms of Induction and Regulation (FOR 2599)	2017	http://gepris.dfg.de/gepris/projekt/322359157
Pemphigus - From Pathogenesis to Therapeutics (Pegasus) (FOR 2497) Subprojects mainly located in: Marburg ■	2016	http://gepris.dfg.de/gepris/projekt/289113135
VIROCARB: Glycans Controlling Non-Enveloped Virus Infections (FOR 2327) Subprojects mainly located in: Tübingen ■	2015	www.virocarb.de
Calcium Homeostasis in Neuroinflammation and -degeneration: New Targets for Therapy of Multiple Sclerosis? (FOR 2289) Subprojects mainly located in: Heidelberg ■ and Saarbrücken/Homburg ■	2015	www.for2289.de
Adaptation and Persistence of the Emerging Pathogen Acinetobacter Baumannii (FOR 2251) Subprojects mainly located in: Frankfurt/Main ■	2014	www.acinetobacter.de
(Lymph)Angiogenesis and Cellular Immunity in Inflammatory Diseases of the Eye (FOR 2240) Subprojects mainly located in: Cologne ■	2014	www.for2240.de
Regeneration in Aged Individuals: Using Bone Healing as a Model System to Characterize Regeneration under Compromised Conditions (FOR 2165) Subprojects mainly located in: Berlin ■	2014	https://jwi.charite.de/en/research/research_network_research_funding/research_network/research_unit_regeneration_in_aged/
Sphingolipid Dynamics in Infection Control (FOR 2123) Subprojects mainly located in: Würzburg ■ and Essen ■	2013	www.virologie.uni-wuerzburg.de/forschungsverbuende/for2123
Unravelling the Prokaryotic Immune System (FOR 1680)	2011	www.uni-ulm.de/nawi/nawi-for1680.html

CLINICAL RESEARCH UNITS

-FUNDED BY DFG-

Clinical Research Units (KFO) provide outstanding researchers the opportunity to carry out close, medium-term cooperation in a special research project in the field of disease or patient-oriented clinical research. Clinical Research Units are usually located at one institution. As a rule, they receive funding for up to six years.

CLINICAL RESEARCH UNITS

Location	Institution	Title	Funded Since	Contact
 Dresden	Universitätsklinikum Carl Gustav Carus an der Technischen Universität Dresden	Defects of the Innate Immune System in Autoinflammatory and Autoimmune Diseases (KFO 249)	2010	www.kfo249dresden.de
 Erlangen	Universitätsklinikum Erlangen AöR	Molecular Pathogenesis and Optimised Therapy of Inflammatory Bowel Diseases (KFO 257)	2011	www.medin1.uk-erlangen.de/forschung/klinische-forschergruppe-kfo-257 (DE)
 Gießen	Universitätsklinikum Gießen und Marburg	Virus-induced Lung Injury: Pathobiology and Novel Therapeutic Strategies (KFO 309)	2016	www.kfo309.de
 Hamburg	Universitätsklinikum Hamburg-Eppendorf	Feto-Maternal Immune Cross Talk: Consequences for Maternal and Offspring's Health (KFO 296)	2015	www.uke.de/KFO296_EN
 Hannover	Medizinische Hochschule Hannover	Genetic and Cellular Mechanisms of Autoimmune Diseases (KFO 250)	2010	www.mh-hannover.de/kfo250.html (DE)
 Lübeck	Universitätsklinikum Schleswig-Holstein	Pemphigoid Diseases - Molecular Pathways and their Therapeutic Potential (KFO 303)	2015	www.derma.uni-luebeck.de/kfo303
 Marburg	Universitätsklinikum Gießen und Marburg	Clinical Relevance of Tumor-Microenvironment Interactions in Pancreatic Cancer (KFO 325)	2017	www.uni-marburg.de/fb20/zti/kfo325 (DE)
 Regensburg	Universität Regensburg	Tumor Metabolism as Modulator of Immune Response and Tumor Progression (KFO 262)	2011	www.tumormetabolism.com

PRIORITY PROGRAMMES

- FUNDED BY DFG -

Priority Programmes (SPP) have a programmatic focus and the purpose of advancing knowledge in an emerging field of research through collaborative networked support. They are characterised by their enhanced quality of research through the use of new methods and forms of collaboration in emerging fields. As a rule, one programme can consist of up to 30 individual subprojects located at several institutions across Germany; it usually has one coordinating person. Priority Programmes normally receive funding for a period of up to six years.

Priority Programmes are not shown on the map. Only the titles of the overall themes and the project website are listed.

PRIORITY PROGRAMMES

Title	Funded Since	Contact
Innate Lymphoid Cells (SPP 1937)	2016	http://spp-innatelymphoidcells.de
Innate Sensing and Restriction of Retroviruses (SPP 1923)	2016	http://spp1923.de
Intestinal Microbiota – A Microbial Ecosystem at the Edge between Immune Homeostasis and Inflammation (SPP 1656)	2013	www.intestinal-microbiota.de
Ecology and Species Barriers in Emerging Viral Diseases (SPP 1596)	2013	www.spp1596.com
Intracellular Compartments as Places of Pathogen-Host-Interactions (SPP 1580)	2011	www.spp1580.uni-bonn.de
Osteoimmunology – IMMUNOBONE – A Program to Unravel the Mutual Interactions between the Immune System and Bone (SPP 1468)	2010	www.immunobone.de



NON-UNIVERSITY RESEARCH INSTITUTIONS

Fraunhofer Society is one of the world's leading organisations for applied research with an annual research budget of 2.1 billion euros, 69 institutes and more than 24,500 employees. Fraunhofer's R&D portfolio covers a wide range of fields, including health, security, communications, transport, energy and the environment. www.fraunhofer.de

The Helmholtz Association contributes to solving major challenges facing society, science and industry with world-level research in six areas: energy, earth and environment, health, key technologies, structure of matter and aeronautics, space and transport. With more than 38,700 employees in 18 research centres and an annual budget of approximately 4.38 billion euros, the Helmholtz Association is Germany's largest scientific organisation. www.helmholtz.de

The Leibniz Association is an umbrella organisation of 88 research institutes. The annual budget amounts to 1.83 billion euros. Some 9,500 researchers – approximately 20% of them from abroad – work on a widely diverse range of subjects, including the humanities and social sciences, economics, spatial and life sciences, mathematics, natural and engineering sciences and environmental research. www.leibniz-association.eu

The Max Planck Society for the Advancement of Science is one of Germany's largest independent non-profit research organisations. The Max Planck Society has been allocated approximately 1.8 billion euros for 2017. A combined total of 14,000 researchers, postdoctoral/junior researchers and visiting researchers at 84 Max Planck Institutes conduct basic research in the natural sciences, life sciences, social sciences and humanities. One third of the researchers and more than half of the junior and visiting researchers come from abroad. www.mpg.de

NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
FRAUNHOFER INSTITUTES		
● Leipzig	Fraunhofer Institute for Cell Therapy and Immunology (IZI)	www.izi.fraunhofer.de/en
● St. Ingbert	Fraunhofer Institute for Biomedical Engineering (IBMT)	www.ibmt.fraunhofer.de/en
HELMHOLTZ CENTRES		
● Berlin-Buch	Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch	www.mdc-berlin.de
● Braunschweig	Helmholtz Centre for Infection Research	www.helmholtz-hzi.de/en
● Heidelberg	German Cancer Research Centre (DKFZ)	www.dkfz.de/en
● Munich	Helmholtz Zentrum München - German Research Center for Environmental Health	www.helmholtz-muenchen.de/en
LEIBNIZ INSTITUTES		
● Berlin	German Rheumatism Research Centre (DRFZ)	www.dr fz.de/en
● Borstel	Leibniz Center for Medicine and Biosciences (FZB)	www.fz-borstel.de
● Düsseldorf	German Diabetes Center (DDZ)	http://ddz.uni-duesseldorf.de/en
● Düsseldorf	Leibniz Institute for Environmental Medicine (IUF)	www.iuf-duesseldorf.com
● Hamburg	Bernhard-Nocht-Institute for Tropical Medicine (BNITM)	www.bnitm.de/en
● Hamburg	Leibniz Institute for Experimental Virology (HPI)	www.hpi-hamburg.de/en
● Jena	Leibniz-Institute for Natural Product Research and Infection Biology (HKI)	www.hki-jena.de/en
MAX-PLANCK-INSTITUTES		
● Berlin	Max Planck Institute for Infection Biology	www.mpiib-berlin.mpg.de/2285/en
● Freiburg	Max Planck Institute of Immunobiology and Epigenetics	www.ie-freiburg.mpg.de
● Martinsried (Munich)	Max Planck Institute of Biochemistry	www.biochem.mpg.de/en

GERMAN CENTRES FOR HEALTH RESEARCH

The German Centres for Health Research – launched by the German Federal Ministry of Education and Research (BMBWF) in 2009 – were established as long-term, equal partnerships between non-university research institutions and universities with university hospitals. The key objectives of the federal government’s health research programme is to improve efforts to fight serious diseases that are widespread in the population more effectively.

The German Centres for Health Research shall bundle existing expertise and thus make a significant contribution to closing knowledge gaps and improving the prevention, diagnosis and treatment of these diseases. The research objective is the close collaboration of basic research with clinical research – always oriented on patient needs and indications. The close ties and the associated expansion of existing research structures will enable translational research and thus a faster transfer of research findings into clinical practice.

German Centres for Health Research are not shown on the map. Only the titles of the overall themes and the project website are listed.

GERMAN CENTRES FOR HEALTH RESEARCH

Title	Funded Since	Contact
German Center for Infection Research (DZIF)	2011	www.dzif.de/en
German Consortium for Translational Cancer Research (DKTK)	2011	www.dkfz.de/en/dktk
The German Center for Lung Research (DZL)	2011	www.dzl.de/en
German Center for Diabetes Research (DZD)	2009	www.dzd-ev.de/en
German Center for Neurodegenerative Diseases (DZNE)	2009	www.dzne.de/en



GRADUATE TRAINING

- FUNDED BY DFG -












Graduate Schools (GSC) were established at universities in the framework of the German Excellence Initiative. Their objective is to provide training and qualification for outstanding doctoral students from Germany and abroad within an excellent research environment. They serve as an instrument of quality assurance in promoting early career researchers and offer large networks that cover wide areas of research.

Research Training Groups (RTG) combine an ambitious research programme at universities with comprehensive training, tailored supervision and academic freedom to form an ideal environment for a successful doctorate. Research Training Groups can also have an interdisciplinary approach. They are funded for a period of up to nine years.

International Research Training Groups (IRTG) provide opportunities for joint doctoral training programmes between German universities and universities abroad. The research and study programmes are jointly developed and supervised. Doctoral students in the programme spend six months at the partner institution.

Integrated Research Training Groups (within Clusters of Excellence or Collaborative Research Centres/Transregions) offer ideal research environments for doctoral researchers. The main aim of these structured training programmes is to provide young scientists and academics with opportunities to independently carry out research at an early stage of their career. The programmes further take care to closely integrate early career researchers into an academic network. Working in Clusters of Excellence or Collaborative Research Centres projects, doctoral researchers achieve additional qualifications. As research assistants in these projects, they contribute to the Research Centre's success. They are closely involved with the projects and have access to the entire project infrastructure.

GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
GRADUATE SCHOOLS				
 Berlin	Charité – Universitätsmedizin Berlin	Berlin-Brandenburg School for Regenerative Therapies (BSRT) (GSC 203)	2007	www.bsrt.de
 Dresden	Technische Universität Dresden	Dresden International Graduate School for Biomedicine and Bioengineering (DIGS-BB) (GSC 97)	2006	www.digs-bb.de
 Freiburg	Albert-Ludwigs- Universität Freiburg	Spemann Graduate School of Biology and Medicine (SGBM) (GSC 4)	2006	www.sgbm.uni- freiburg.de
 Jena	Friedrich-Schiller- Universität Jena	Jena School for Microbial Communication (JSMC) (GSC 214)	2007	www.jsmc.uni-jena.de
 Ulm	Universität Ulm	International Graduate School in Molecular Medicine Ulm (IGradU) (GSC 270)	2007	www.uni-ulm.de/ einrichtungen/mm
 Würzburg	Julius-Maximilians- Universität Würzburg	Graduate School for Life Sciences (GSLs) (GSC 106)	2006	www. graduateschools.uni- wuerzburg.de
RESEARCH TRAINING GROUPS				
 Berlin	Freie Universität Berlin Humboldt-Universität zu Berlin	Tight Junctions and their Proteins: Molecular Features and Actions in Health and Disease (RTG 2318)	2017	https://klinphys. charite.de/grk
 Berlin	Freie Universität Berlin	Parasite Infections: From Experimental Models to Natural Systems (RTG 2046)	2014	www.vetmed. fu-berlin.de/en/ einrichtungen/ sonstige/grk2046
 Erlangen	Friedrich-Alexander- Universität Erlangen- Nürnberg	Key Signals of Adaptive Immune Response (RTG 1660)	2010	www.lymphozyten. de (DE)
 Essen	Universität Duisburg- Essen	Biomedicine of the Acid Sphingomyelinase/Acid Ceramidase System (RTG 2098)	2015	www.uni-due.de/ grk2098
 Essen	Universität Duisburg- Essen	Immune Response in Infectious Diseases – Regulation Between Innate and Adaptive Immunity (RTG 1949)	2013	www.uni-due.de/ grk1949

GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Frankfurt/Main	Goethe-Universität Frankfurt am Main	Resolution of Inflammation – Mediators, Signaling and Therapeutic Options (RTG 2336)	2017	http://gepris.dfg.de/gepris/projekt/321115009
 Greifswald	Ernst-Moritz-Arndt Universität Greifswald	Bacterial Respiratory Infections – Common and Specific Mechanisms of Pathogen Adaptation and Immune Defense (RTG 1870)	2013	https://biologie.uni-greifswald.de/en/research-activities/research-training-groups-german-research-council-dfg/research-training-group-1870-bacterial-respiratory-infections
 Heidelberg	Ruprecht-Karls-Universität Heidelberg	Hallmarks of Skin Cancer (RTG 2099)	2014	www.rtg2099.de
 Jena	Friedrich-Schiller-Universität Jena	Molecular Signatures of Adaptive Stress Responses (RTG 1715)	2011	www.grk1715.uni-jena.de
 Kiel	Christian-Albrechts-Universität zu Kiel	Genes, Environment and Inflammation (RTG 1743)	2011	www.genes-environment-inflammation.de
 Lübeck	Universität zu Lübeck	Modulation of Autoimmunity (RTG 1727)	2010	www.grk1727.uni-luebeck.de
 Munich	Ludwig-Maximilians-Universität München	Targets in Toxicology – Deciphering Therapeutic Targets in Lung Toxicology (RTG 2338)	2017	tba
 Ulm	Universität Ulm	Cellular and Molecular Mechanisms in Aging (CEMMA) (RTG 1789)	2012	www.uni-ulm.de/med/cemma
 Würzburg	Julius-Maximilians-Universität Würzburg	3D Tissue Models for Studying Microbial Infections by Human Pathogens (RTG 2157)	2015	www.uni-wuerzburg.de/grk2157
INTERNATIONAL RESEARCH TRAINING GROUPS				
 Berlin  Canberra (Australien)	Humboldt-Universität zu Berlin The Australian National University	Crossing Boundaries: Molecular Interactions in Malaria (IRTG 2290)	2017	www.allianceberlin-canberra.org

GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	Myeloid Antigen Presenting Cells and the Induction of Adaptive Immunity (IRTG 2168)	2015	http://bomerang.iei-bonn.de/bomerang.html
Melbourne (Australia)	The University of Melbourne			
 Dresden	Technische Universität Dresden	Immunological and Cellular Strategies in Metabolic Disease (ICSMD) (IRTG 2251)	2016	https://tu-dresden.de/med/mf/irtg2251
London (Great Britain)	King's College London			
 Gießen	Justus-Liebig-Universität Gießen	Molecular Pathogenesis of Male Reproductive Disorders (IRTG 1871)	2012	www.uni-giessen.de/cms/fbz/fb11/institute/anatomie/forschung/ag-reproduktion/irtg
Clayton (Australia)	Monash University			
 Lübeck	Universität zu Lübeck	Immune Regulation of Inflammation in Allergy and Infection (IRTG 1911)	2012	www.irtg1911.uni-luebeck.de
Cincinnati (USA)	University of Cincinnati			
INTEGRATED RESEARCH TRAINING GROUPS IN CLUSTERS OF EXCELLENCE				
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	IITB - International Immunology Training Program Bonn within: ImmunoSensation: the Immune Sensory System (EXC 1023)	2012	www.immunosensation.de/career/phd.html
 Cologne	Universität zu Köln	Cologne Graduate School of Ageing Research within: Cellular Stress Responses in Aging-Associated Diseases (CECAD) (EXC 229)	2007	www.ageing-grad-school.de
 Hannover	Gottfried Wilhelm Leibniz Universität Medizinische Hochschule Hannover	Integrated PhD Program "Regenerative Sciences" within REBIRTH – From Regenerative Biology to Reconstructive Therapy (EXC 62)	2006	www.rebirth-hannover.de/en/phd-program
INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES				
 Cologne	Universität zu Köln	Integrated Research Training Group within: Molecular Mechanisms Regulating Skin Homeostasis (CRC 829)	2008	http://sfb829.uni-koeln.de
 Cologne	Universität zu Köln	Integrated Research Training Group within: Cell-Autonomous Immunity (CRC 670)	2006	www.sfb670.uni-koeln.de

GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
□ Düsseldorf	Heinrich-Heine-Universität Düsseldorf	Integrated Research Training Group within: Communication and Systems Relevance in Liver Injury and Regeneration (CRC 974)	2011	www.uniklinik-duesseldorf.de/unternehmen/kliniken/klinik-fuer-gastroenterologie-hepatologie-und-infektiologie/sfb-974/graduierntenkolleg-974
□ Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	Integrated Research Training Group within: Checkpoints for Resolution of Inflammation (CRC 1181)	2015	www.sfb1181.forschung.fau.eu/integrated-research-training-group-2
□ Frankfurt/Main	Goethe-Universität Frankfurt am Main	Integrated Research Training Group within: Signalling by Fatty Acid Derivatives and Sphingolipids in Health and Disease (CRC 1039)	2013	www.lipidsignalling.de/en/kolleg/
□ Frankfurt/Main	Goethe-Universität Frankfurt am Main	Integrated Research Training Group within: Redox-Regulation: Generatorsystems and Functional Consequences (CRC 815)	2008	www.redox-sfb.de/english/graduierntenkolleg/graduierntenkolleg.php
□ Hamburg	Universität Hamburg	Integrated Research Training Group "Mechanisms of Immune-Mediated Tissue Injury" within: Immune-Mediated Glomerular Diseases – Basic Concepts and Clinical Implications (CRC 1192)	2015	www.sfb1192.de/research-training-group
□ Magdeburg	Otto-von-Guericke-Universität Magdeburg	Graduate School within: Molecular Organization of Cellular Communication within the Immune System (CRC 854)	2009	www.sfb854.de/SFB854/en/Graduate+School-p4134.html
□ Mainz	Johannes Gutenberg-Universität Mainz	Integrated Research Training Group within: Targeting Convergent Mechanisms of Inefficient Immunity in Tumors and Chronic Infection (CRC 1292)	2017	http://gepris.dfg.de/gepris/projekt/264599542
□ Munich	Ludwig-Maximilians-Universität München	Graduate Program within: Control and Plasticity of Cell-Fate Decisions in the Immune System (CRC 1054)	2011	www.sfb1054.med.uni-muenchen.de/graduate_program/index.html

GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
□ Munich	Ludwig-Maximilians-Universität München	Graduate Program "Leukocyte Trafficking" within: Trafficking of Immune Cells in Inflammation, Development and Disease (CRC 914)	2011	www.sfb914.med.uni-muenchen.de/graduate_program/index.html
INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES/TRANSREGIOS				
□ Berlin	Charité – Universitätsmedizin Berlin	Integrated Research Training Group "B Cells and Beyond" within: B Cells: Immunity and Autoimmunity (TRR 130)	2013	www.trr130.forschung.uni-erlangen.de/index.php/en/research-training-group.html
Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg			
Freiburg	Albert-Ludwigs-Universität Freiburg			
□ Berlin	Charité – Universitätsmedizin Berlin	Integrated Graduate Programme "NeuroMac School" within: Development, Function and Potential of Myeloid Cells in the Central Nervous System (NeuroMac) (TRR 167)	2016	www.sfb-trr167.uni-freiburg.de/irtg-neuromac-school
Freiburg	Albert-Ludwigs-Universität Freiburg			
□ Berlin	Charité – Universitätsmedizin Berlin	Graduate College within: Principles and Applications of Adoptive T Cell Therapy (TRR 36)	2006	www.sfb-trr36.com
Munich	Ludwig-Maximilians-Universität München Technische Universität München			
□ Freiburg	Albert-Ludwigs-Universität Freiburg	Graduate School "Immunovirology" within: Determinants and Dynamics of Elimination versus Persistence of Hepatitis Virus Infection (TRR 179)	2016	www.trr179.de/en/graduate-school
Heidelberg	Ruprecht-Karls-Universität Heidelberg			
Munich	Ludwig-Maximilians-Universität München Technische Universität München			

GRADUATE TRAINING

- AT NON-UNIVERSITY RESEARCH INSTITUTIONS -

Helmholtz Graduate Schools provide a roof under which a varied number of curricula in different fields, or across disciplines, can find a home. Helmholtz Graduate Schools constitute a valuable addition to the wide range of training programmes available within the Helmholtz Association. They offer optimal conditions for PhD students to work and enable them to create a network of contacts with fellow university researchers while also fostering the integration of participants into the research environment.

Leibniz Graduate Schools were established to foster the systematic promotion of junior researchers. Young researchers are given the opportunity to do their doctorates in an excellent, collaborative, cross-disciplinary research environment. To this end, Leibniz institutions cooperate closely with universities. As every Leibniz institution focuses on clearly defined, socially-relevant themes, doctoral candidates have a wealth of networking opportunities in a large, dedicated scientific community. The particular character of research at the institutions in the Leibniz Association, which includes fundamental, large-scale and application-oriented research, means doctoral candidates can conduct research from basic idea right through to application.

International Max Planck Research Schools (IMPRS) offer talented German and international junior scientists the opportunity to earn a doctorate under excellent research conditions. The research schools are established by one or several Max Planck Institutes. These IMPRS work in close cooperation with universities and other – sometimes international – research institutions. This provides an extraordinary framework for the graduate students to work in, and is a great advantage in interdisciplinary research projects, or in projects that require special equipment.

GRADUATE TRAINING

Location	Title	Contact
HELMHOLTZ GRADUATE SCHOOLS		
○ Berlin-Buch	Helmholtz Graduate School "Molecular Cell Biology"	www.mdc-berlin.de/content/graduate-school
○ Braunschweig	The Helmholtz Graduate School for Infection Research (HZI Graduate School)	www.helmholtz-hzi.de/en/career/graduate_school
○ Heidelberg	Helmholtz International Graduate School for Cancer Research	www.dkfz.de/en/phd-program
○ Munich	Helmholtz Graduate School Environmental Health - HELENA	www.helmholtz-helena.de
LEIBNIZ GRADUATE SCHOOLS		
○ Berlin	Leibniz Graduate School for Rheumatology (LGRh)	www.drfg.de/drfg-im-profil/lehre-und-ausbildung/lgrh
○ Hamburg	Leibniz Graduate School at the Leibniz Centre Infection (LCI) – (BNITM HPI, FZB)	www.lci-infection.de/lci-graduate-school.html
○ Jena	International Leibniz Research School for Microbial and Biomolecular Interactions (ILRS)	www.ilrs.de
INTERNATIONAL MAX PLANCK RESEARCH SCHOOLS (IMPRS)		
○ Berlin	IMPRS for Infectious Diseases and Immunology	www.mpiib-berlin.mpg.de/graduate_program
○ Freiburg	IMPRS for Molecular and Cellular Biology	www.ie-freiburg.mpg.de/IMPRS-PhD-Program
○ Martinsried (Munich)	IMPRS for Molecular and Cellular Life Sciences	www.imprs-ls.de

SOCIETIES AND ASSOCIATIONS

IN GERMANY

Association for General and Applied Microbiology (VAAM): www.vaam.de (DE)

Deutsche Dermatologische Gesellschaft (DDG): www.derma.de (DE)

Deutsche Gesellschaft für Allergologie und klinische Immunologie (DGAKI):
www.dgaki.de (DE)

Deutsche Gesellschaft für Gastroenterologie, Verdauungs- und
Stoffwechselkrankheiten (DGVS): www.dgvs.de (DE)

Deutsche Gesellschaft für Hämatologie und Medizinische Onkologie (DGHO):
www.dgho.de (DE)

Deutsche Gesellschaft für Infektiologie (DGI): www.dgi-net.de (DE)

Deutsche Gesellschaft für Innere Medizin (DGIM): www.dgim.de (DE)

Deutsche Gesellschaft für Rheumatologie (DGRh): <https://dgrh.de> (DE)

Deutsche Gesellschaft für Tropenmedizin und Internationale Gesundheit (DTG):
www.dtg.org (DE)

German Cardiac Society (DGK): <https://dgk.org> (DE)

German Society for Immunology (DGfI): www.dgfi.org

German Society for Hygiene and Microbiology (DGHM): www.dghm.org

German Society for Parasitology (DGP): www.dgparasitologie.de (DE)

German Society of Pediatrics and Adolescent Medicine (DGKJ): www.dgkj.de

Gesellschaft für Virologie (GfV): www.g-f-v.org (DE)

OPEN POSITIONS

Research in Germany: www.research-in-germany.org/jobs

Fraunhofer Society: www.fraunhofer.de/en/jobs-career

Helmholtz Association: www.helmholtz.de/en/jobs_talent

Leibniz Society: www.leibniz-gemeinschaft.de/en/karriere

Max Planck Society: www.mpg.de/jobboard

FURTHER INFORMATION

RESEARCH INSTITUTIONS, PROJECTS, FUNDING, CONTACTS

Research in
Germany

Land of Ideas

The “Research in Germany” Portal: Information on research and funding opportunities, academic and research-related job portals, as well as advice on preparing a research stay or initiating a collaboration with German research organisations. www.research-in-germany.org



German Project Information System (GEPRIIS): Online database providing information about all current DFG-funded research projects and contact information for the Principal Investigators. <http://gepris.dfg.de>



The Research Explorer: Information on more than 19 000 institutes at German universities and non-university research institutions, searchable by geographic location, subject and other structural criteria. <http://research-explorer.dfg.de>



Website of the DFG: Further background information about DFG funding programmes, funding guidelines, and lists of currently DFG-funded activities. www.dfg.de



The German Rectors’ Conference (HRK) Research Map: The interactive HRK *Research Map* database provides information on the research priorities that are of strategic institutional importance for each university. www.hrk.de/home (go to → *Research Map*)



The Higher Education Compass: Information on Germany’s higher education institutions, the range of courses and programmes that they offer, their worldwide cooperation, and who to contact locally. www.hochschulkompass.de/en/higher-education-compass





Contact

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DFG Deutsche
Forschungsgemeinschaft