



# Research in Germany



Research in  
Germany



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CELLULAR AND MOLECULAR  
BIOLOGY

A vertical strip on the right side of the page features a microscopic image of cells. The cells are shown in various stages of division or activity, with prominent nuclei and organelles. The background is a deep red color.



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## **Imprint**

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CELLULAR AND MOLECULAR BIOLOGY

## PREFACE

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

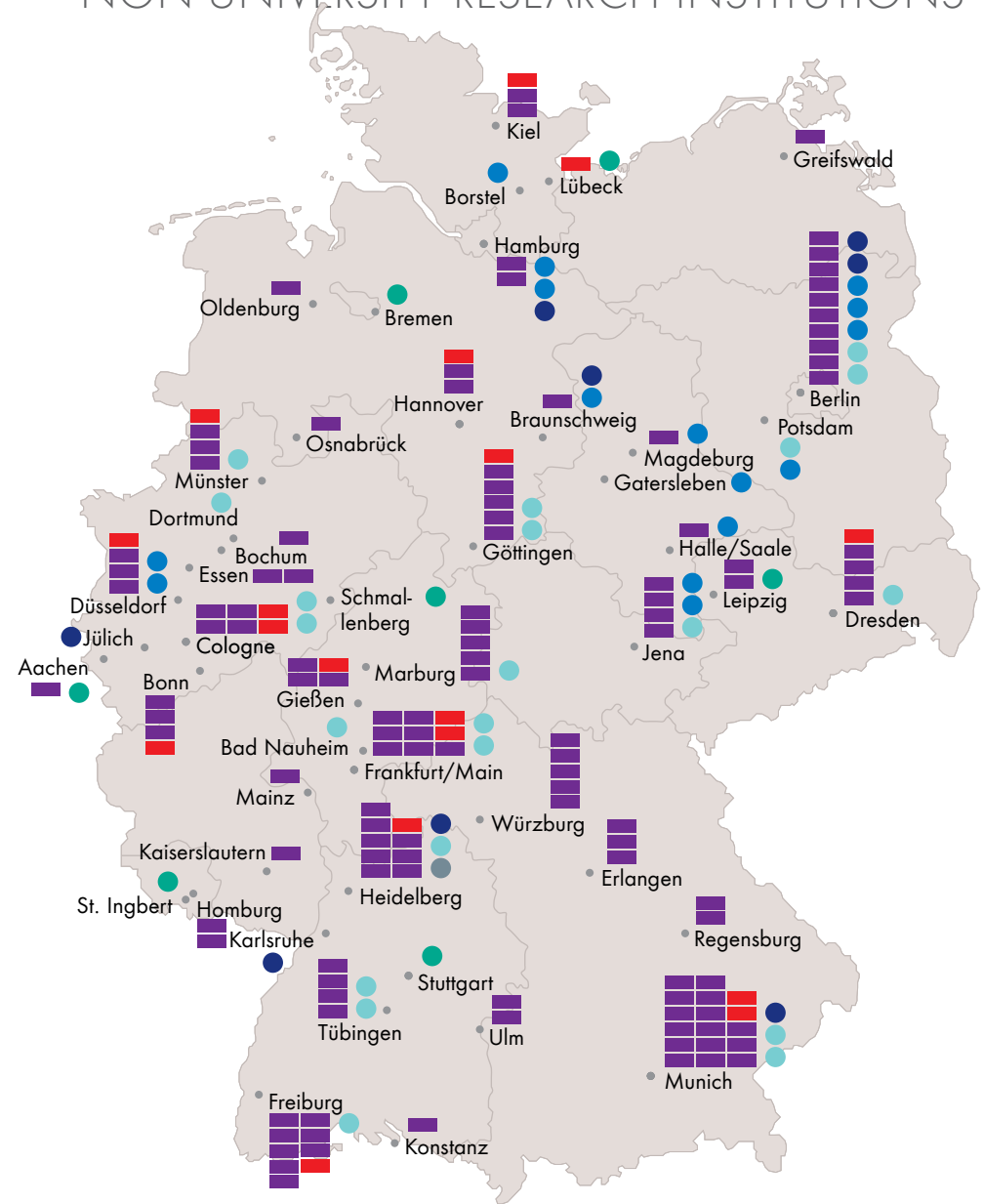
Cellular and molecular biology research in Germany is primarily conducted at universities but also at non-university research institutions. Almost all universities and many universities of applied sciences host a cellular and molecular biology research section. The spectrum ranges from small monothematic 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 maps and tables highlight research consortia and graduate training programmes at universities and non-university research institutes with a main focus on cellular and molecular biology. Application-oriented research centres are included, if they are also focusing on basic research.

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 cellular and molecular biology. 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 cellular and molecular biology 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.

# CENTRES OF RESEARCH/ NON-UNIVERSITY RESEARCH INSTITUTIONS



	Clusters of Excellence		Fraunhofer Institutes
	Collaborative Research Centres/Transregios		Helmholtz Centres
			Leibniz Institutes
			Max Planck Institutes
			Others

DFG funded Priority Programmes and Research Units as well as the German Centres for Health Research (established by the Federal Ministry of Education and Research, BMBWF) are not shown on the map since they are not necessarily located at a single location; they are listed on pages 21, 24 and 31.




**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.

Location	Institution	Title	Funded Since	Contact
CLUSTERS OF EXCELLENCE				
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>ImmunoSensation: The Immune Sensory System (EXC 1023)</b>	2012	<a href="http://www.immunosensation.de">www.immunosensation.de</a>
 Cologne Düsseldorf	Universität zu Köln Heinrich-Heine Universität Düsseldorf	<b>Cluster of Excellence on Plant Sciences – From Complex Traits towards Synthetic Modules (CEPLAS) (EXC 1028)</b>	2012	<a href="http://ceplas.eu/en">http://ceplas.eu/en</a>
 Cologne	Universität zu Köln	<b>Cellular Stress Responses in Aging-Associated Diseases (CECAD) (EXC 229)</b>	2007	<a href="http://www.cecad.uni-koeln.de">www.cecad.uni-koeln.de</a>
 Dresden	Technische Universität Dresden	<b>Center for Regenerative Therapies Dresden (CRTD) (EXC 168)</b>	2006	<a href="http://www.crt-dresden.de">www.crt-dresden.de</a>
 Frankfurt/ Main Gießen	Johann Wolfgang Goethe-Universität Frankfurt am Main Justus-Liebig-Universität Gießen	<b>Cardio-Pulmonary System (ECCPS) (EXC 147)</b>	2006	<a href="http://www.eccps.de">www.eccps.de</a>
 Frankfurt/ Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	<b>Macromolecular Complexes (EXC 115)</b>	2006	<a href="http://www.cef-mc.de">www.cef-mc.de</a>
 Freiburg	Albert-Ludwigs-Universität Freiburg	<b>BIOSS Centre for Biological Signalling Studies – From Analysis to Synthesis (EXC 294)</b>	2007	<a href="http://www.bioss.uni-freiburg.de">www.bioss.uni-freiburg.de</a>
 Göttingen	Georg-August-Universität Göttingen	<b>Nanoscale Microscopy and Molecular Physiology of the Brain (CNMPB) (EXC 171)</b>	2006	<a href="http://www.cmpb.uni-goettingen.de">www.cmpb.uni-goettingen.de</a>
 Hannover	Gottfried Wilhelm Leibniz Universität Medizinische Hochschule Hannover	<b>REBIRTH – From Regenerative Biology to Reconstructive Therapy (EXC 62)</b>	2006	<a href="http://www.rebirth-hannover.de/en">www.rebirth-hannover.de/en</a>
 Heidelberg	Ruprecht-Karls-Universität Heidelberg	<b>Cellular Networks: From Molecular Mechanisms to Quantitative Understanding of Complex Functions (EXC 81)</b>	2006	<a href="http://www.cellnetworks.uni-hd.de">www.cellnetworks.uni-hd.de</a>
 Kiel Lübeck	Christian-Albrechts-Universität Kiel Universität zu Lübeck	<b>Inflammation at Interfaces (EXC 306)</b>	2007	<a href="http://inflammation-at-interfaces.de/en">http://inflammation-at-interfaces.de/en</a>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
 Münster	Westfälische-Wilhelms-Universität Münster	<b>Cells in Motion – CiM: Imaging to Understand Cellular Behaviour in Organisms (EXC 1003)</b>	2012	<a href="http://www.uni-muenster.de/CiMIC">www.uni-muenster.de/CiMIC</a>
 Munich	Ludwig-Maximilians-Universität München Technische Universität München	<b>Munich Cluster for Systems Neurology (SyNergy) (EXC 1010)</b>	2012	<a href="http://www.synergy-munich.de">www.synergy-munich.de</a>
 Munich	Ludwig-Maximilians-Universität München Technische Universität München	<b>Center for Integrated Protein Science Munich (CIPSM) (EXC 114)</b>	2006	<a href="http://www.cipsm.de/en">www.cipsm.de/en</a>
COLLABORATIVE RESEARCH CENTRES				
 Berlin	Freie Universität Berlin	<b>Nanocarriers: Architecture, Transport, and Topical Application of Drugs for Therapeutic Use (CRC 1112)</b>	2013	<a href="http://www.sfb1112.de/en">www.sfb1112.de/en</a>
 Berlin	Freie Universität Berlin	<b>Protonation Dynamics in Protein Function (CRC 1078)</b>	2013	<a href="http://www.sfb1078.de">www.sfb1078.de</a>
 Berlin	Freie Universität Berlin	<b>Priming and Memory of Organismic Responses to Stress (CRC 973)</b>	2012	<a href="http://www.sfb973.de">www.sfb973.de</a>
 Berlin	Freie Universität Berlin	<b>Scaffolding of Membranes: Molecular Mechanisms and Cellular Functions (CRC 958)</b>	2011	<a href="http://www.sfb958.de">www.sfb958.de</a>
 Berlin	Charité – Universitätsmedizin Berlin	<b>From Molecules to Modules: Organisation and Dynamics of Functional Units in Cells (CRC 740)</b>	2006	<a href="http://www.sfb740.de/en">www.sfb740.de/en</a>
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>Molecular Mechanisms and Chemical Modulation of Local Immune Regulation (CRC 704)</b>	2005	<a href="http://www.sfb704.uni-bonn.de">www.sfb704.uni-bonn.de</a>
 Cologne	Universität zu Köln	<b>Mitochondrial Regulation of Cellular Function (CRC 1218)</b>	2016	<a href="http://sfb1218.uni-koeln.de">http://sfb1218.uni-koeln.de</a>
 Cologne	Universität zu Köln	<b>Molecular Mechanisms Regulating Skin Homeostasis (CRC 829)</b>	2008	<a href="http://www.sfb829.uni-koeln.de">www.sfb829.uni-koeln.de</a>
 Cologne	Universität zu Köln	<b>Cell-Autonomous Immunity (CRC 670)</b>	2006	<a href="http://sfb670.uni-koeln.de">http://sfb670.uni-koeln.de</a>
 Cologne	Universität zu Köln	<b>Molecular Basis of Evolutionary Innovations (CRC 680)</b>	2005	<a href="http://www.sfb680.uni-koeln.de">www.sfb680.uni-koeln.de</a>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
 Dresden	Technische Universität Dresden	<b>Cells into Tissues: Stem Cell and Progenitor Commitment and Interactions during Tissue Formation (CRC 655)</b>	2005	<a href="http://www.sfb655.de">www.sfb655.de</a>
 Düsseldorf	Heinrich-Heine Universität Düsseldorf	<b>Identity and Dynamics of Membrane Systems - From Molecules to Cellular Functions (CRC 1208)</b>	2015	<a href="http://www.sfb1208.hhu.de">www.sfb1208.hhu.de</a>
 Düsseldorf	Heinrich-Heine Universität Düsseldorf	<b>Liver Damage and Regeneration (CRC 974)</b>	2011	<a href="http://www.uniklinik-duesseldorf.de/sfb-974">www.uniklinik-duesseldorf.de/sfb-974</a> (DE)
 Düsseldorf	Heinrich-Heine Universität Düsseldorf	<b>Master Switches in Cardiac Ischemia (CRC 1116)</b>	2014	<a href="http://www.sfb1116.hhu.de">www.sfb1116.hhu.de</a>
 Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	<b>Checkpoints for Resolution of Inflammation (CRC 1181)</b>	2015	<a href="http://www.sfb1181.forschung.fau.eu">www.sfb1181.forschung.fau.eu</a>
 Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	<b>Reprogramming of Host Cells by Microbial Effectors (CRC 796)</b>	2008	<a href="http://www.sfb796.forschung.uni-erlangen.de">www.sfb796.forschung.uni-erlangen.de</a>
 Essen	Universität Duisburg-Essen	<b>Supramolecular Chemistry on Proteins (CRC 1093)</b>	2013	<a href="http://www.uni-due.de/crc1093">www.uni-due.de/crc1093</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	<b>Molecular and Functional Characterization of Selective Autophagy (CRC 1177)</b>	2015	<a href="http://www.sfb1177.de">www.sfb1177.de</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	<b>Signalling by Fatty Acid Derivatives and Sphingolipids in Health and Disease (CRC 1039)</b>	2013	<a href="http://www.lipidsignalling.de/en/home">www.lipidsignalling.de/en/home</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	<b>Molecular Principles of RNA-based Regulation (CRC 902)</b>	2011	<a href="http://www.sfb902.de">www.sfb902.de</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	<b>Endothelial Signalling and Vascular Repair (CRC 834)</b>	2009	<a href="http://www.sfb834.de">www.sfb834.de</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	<b>Redox-Regulation: Generatorsystems and Functional Consequences (CRC 815)</b>	2008	<a href="http://www.redox-sfb.de/english">www.redox-sfb.de/english</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	<b>Transport and Communication Across Biological Membranes (CRC 807)</b>	2008	<a href="http://www.sfb807.de">www.sfb807.de</a>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Freiburg	Albert-Ludwigs-Universität Freiburg	IMPATH - Immune-Mediated Pathology as a Consequence of Impaired Immune Reactions (CRC 1160)	2015	<a href="http://www.sfb1160.uni-freiburg.de">www.sfb1160.uni-freiburg.de</a>
Freiburg	Albert-Ludwigs-Universität Freiburg	Medical Epigenetics (MEDEP) From Basic Mechanisms to Clinical Applications (CRC 992)	2012	<a href="http://www.sfb992.uni-freiburg.de">www.sfb992.uni-freiburg.de</a>
Freiburg	Albert-Ludwigs-Universität Freiburg	Control of Cell Motility in Morphogenesis, Cancer Invasion and Metastasis (CRC 850)	2009	<a href="http://www.sfb850.uni-freiburg.de/en">www.sfb850.uni-freiburg.de/en</a>
Freiburg	Albert-Ludwigs-Universität Freiburg	Functional Specificity by Coupling and Modification of Proteins (CRC 746)	2006	<a href="http://www.sfb746.uni-freiburg.de">www.sfb746.uni-freiburg.de</a>
Freiburg	Albert-Ludwigs-Universität Freiburg	Kidney Disease - from Genes to Mechanisms (KIDGEM) (CRC 1140)	2014	<a href="http://www.sfb1140.uni-freiburg.de">www.sfb1140.uni-freiburg.de</a>
Gießen	Justus-Liebig-Universität Gießen	Pulmonary Hypertension and Cor Pulmonale (CRC 1213)	2016	<a href="http://www.uni-giessen.de/fbz/fb11/forschung-neu/schwerpunkte/sfb/SFB1213">www.uni-giessen.de/fbz/fb11/forschung-neu/schwerpunkte/sfb/SFB1213</a>
Göttingen	Georg-August-Universität Göttingen	Compartmental Gates and Contact Sites in Cells (CRC 1190)	2015	<a href="http://www.sfb1190.de">www.sfb1190.de</a>
Göttingen	Georg-August-Universität Göttingen	Modulatory Units in Heart Failure (CRC 1002)	2012	<a href="http://www.herzzentrum-goettingen.de">www.herzzentrum-goettingen.de</a>
Göttingen	Georg-August-Universität Göttingen	Cellular Mechanisms of Sensory Processing (CRC 889)	2010	<a href="http://www.sfb889.uni-goettingen.de">www.sfb889.uni-goettingen.de</a>
Göttingen	Georg-August-Universität Göttingen	Integrative Structural Biology of Dynamic Macromolecular Assemblies (CRC 860)	2010	<a href="http://msb.bio.uni-goettingen.de/SFB860">http://msb.bio.uni-goettingen.de/SFB860</a>
Göttingen	Georg-August-Universität Göttingen	Functionality Controlled by Organization in and Between Membranes (CRC 803)	2008	<a href="http://www.uni-goettingen.de/en/213080.html">www.uni-goettingen.de/en/213080.html</a>
Hamburg	Universität Hamburg	Immune-Mediated Glomerular Diseases - Basic Concepts and Clinical Implications (CRC 1192)	2015	<a href="http://www.sfb1192.de">www.sfb1192.de</a>
Hamburg	Universität Hamburg	Liver Inflammation: Infection, Immune Regulation and Consequences (CRC 841)	2009	<a href="http://sfb841.de">http://sfb841.de</a>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Hannover	Medizinische Hochschule Hannover	Chronic Infections: Microbial Persistence and its Control (CRC 900)	2010	<a href="http://www.mh-hannover.de/sfb900.html">www.mh-hannover.de/sfb900.html</a>
Heidelberg	Ruprecht-Karls-Universität Heidelberg	Cellular Surveillance and Damage Response (CRC 1036)	2012	<a href="http://www.zmbh.uni-heidelberg.de/sfb1036">www.zmbh.uni-heidelberg.de/sfb1036</a>
Heidelberg	Ruprecht-Karls-Universität Heidelberg	Maintenance and Differentiation of Stem Cells in Development and Disease (CRC 873)	2010	<a href="http://www.sfb873.de">www.sfb873.de</a>
Heidelberg	Ruprecht-Karls-Universität Heidelberg	Integrative Analysis of Pathogen Replication and Spread (CRC 1129)	2014	<a href="http://www.sfb1129.de">www.sfb1129.de</a>
Heidelberg	Ruprecht-Karls-Universität Heidelberg	Reactive Metabolites as a Cause of Diabetic Complications (CRC 1118)	2014	<a href="http://www.klinikum.uni-heidelberg.de/Wilkommen.132204.0.html">www.klinikum.uni-heidelberg.de/Wilkommen.132204.0.html</a>
Homburg	Universität des Saarlandes	Ca <sup>2+</sup> Signals: Molecular Mechanisms und Integrative Functions (CRC 894)	2010	<a href="http://sfb894.uni-saarland.de/en">http://sfb894.uni-saarland.de/en</a>
Jena	Friedrich-Schiller-Universität Jena	AquaDiva: Understanding the Links between Surface and Subsurface Biogeosphere (CRC 1076)	2013	<a href="http://www.aquadiva.uni-jena.de">www.aquadiva.uni-jena.de</a>
Jena	Friedrich-Schiller-Universität Jena	Chemical Mediators in Complex Biosystems (CRC 1127)	2014	<a href="http://www.chembiosys.de/en">www.chembiosys.de/en</a>
Kiel	Christian-Albrechts-Universität zu Kiel	Origin and Function of Metaorganisms (CRC 1182)	2015	<a href="http://www.metaorganism-research.com">www.metaorganism-research.com</a>
Kiel	Christian-Albrechts-Universität zu Kiel	Proteolysis as a Regulatory Event in Pathophysiology (CRC 877)	2010	<a href="http://www.uni-kiel.de/Biochemie/sfb877">www.uni-kiel.de/Biochemie/sfb877</a>
Konstanz	Universität Konstanz	Chemical and Biological Principles of Cellular Proteostasis (CRC 969)	2011	<a href="https://sfb969.de">https://sfb969.de</a>
Leipzig	Universität Leipzig	Obesity Mechanisms (CRC 1052)	2012	<a href="http://www.sfb1052.de">www.sfb1052.de</a>
Magdeburg	Otto-von-Guericke-Universität Magdeburg	Molecular Organisation of Cellular Communication in the Immune System (CRC 854)	2009	<a href="http://www.sfb854.de">www.sfb854.de</a>
Mainz	Johannes-Gutenberg-Universität Mainz	Molecular and Cellular Mechanisms of Neural Homeostasis (CRC 1080)	2012	<a href="http://crc1080.com">http://crc1080.com</a>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Marburg	Philipps-Universität Marburg	<b>RNA Viruses: RNA Metabolism, Host Response and Pathogenesis (CRC 1021)</b>	2012	<a href="http://www.uni-marburg.de/sfb1021">www.uni-marburg.de/sfb1021</a>
Marburg	Philipps-Universität Marburg	<b>Microbial Diversity in Environmental Signal Response (CRC 987)</b>	2012	<a href="http://www.sfb987.de">www.sfb987.de</a>
Münster	Westfälische-Wilhelms-Universität Münster	<b>Breaking Barriers – Immune Cells and Pathogens at Cell/Matrix Barriers (CRC 1009)</b>	2012	<a href="http://campus.uni-muenster.de/sfb1009.html">http://campus.uni-muenster.de/sfb1009.html</a>
Münster	Westfälische-Wilhelms-Universität Münster	<b>Molecular Cardiovascular Imaging (MoBil) – From Mouse to Man (CRC 656)</b>	2005	<a href="http://www.uni-muenster.de/Sfbmobil/en">www.uni-muenster.de/Sfbmobil/en</a>
Munich	Ludwig-Maximilians-Universität München	<b>Genetic and Epigenetic Evolution of Hematopoietic Neoplasms (CRC 1243)</b>	2015	<a href="http://www.sfb1243.biologie.uni-muenchen.de">www.sfb1243.biologie.uni-muenchen.de</a>
Munich	Ludwig-Maximilians-Universität München	<b>Atherosclerosis: Mechanisms and Networks of Novel Therapeutic Targets (CRC 1123)</b>	2014	<a href="http://www.sfb1123.med.uni-muenchen.de/index.html">www.sfb1123.med.uni-muenchen.de/index.html</a>
Munich	Ludwig-Maximilians-Universität München	<b>Chromatin Dynamics (CRC 1064)</b>	2013	<a href="http://www.sfb1064.med.uni-muenchen.de">www.sfb1064.med.uni-muenchen.de</a>
Munich	Ludwig-Maximilians-Universität München	<b>Control and Plasticity of Cell-Fate Decisions in the Immune System (CRC 1054)</b>	2012	<a href="http://www.sfb1054.med.uni-muenchen.de">www.sfb1054.med.uni-muenchen.de</a>
Munich	Ludwig-Maximilians-Universität München	<b>Trafficking of Immune Cells in Inflammation, Development and Disease (CRC 914)</b>	2011	<a href="http://www.sfb914.med.uni-muenchen.de">www.sfb914.med.uni-muenchen.de</a>
Munich	Technische Universität München	<b>Control of Protein Function by Conformational Switching (CRC 1035)</b>	2012	<a href="http://www.sfb1035.tum.de/en">www.sfb1035.tum.de/en</a>
Munich	Technische Universität München	<b>Molecular Mechanisms Regulating Yield and Yield Stability in Plants (CRC 924)</b>	2011	<a href="http://sfb924.wzw.tum.de">http://sfb924.wzw.tum.de</a>
Munich	Technische Universität München	<b>Forces in Biomolecular Systems (CRC 863)</b>	2009	<a href="http://www.sfb863.de">www.sfb863.de</a>
Munich	Technische Universität München	<b>Imaging for Selection, Monitoring and Individualization of Cancer Therapies (CRC 824)</b>	2009	<a href="http://www.sfb824.de/en">www.sfb824.de/en</a>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Osnabrück	Universität Osnabrück	<b>Physiology and Dynamics of Cellular Microcompartments (CRC 944)</b>	2010	<a href="http://www.biologie.uni-osnabrueck.de/sonderforschungsbereich/sfb_944_home.html">www.biologie.uni-osnabrueck.de/sonderforschungsbereich/sfb_944_home.html</a>
Regensburg	Universität Regensburg	<b>Ribosome Formation: Principles of RNP Biogenesis and Control of their Function (CRC 960)</b>	2011	<a href="http://sfb960.de">http://sfb960.de</a>
Regensburg	Universität Regensburg	<b>Structural, Physiological and Molecular Determinants of Kidney Function (CRC 699)</b>	2005	<a href="http://www.sfb699.uni-regensburg.de">www.sfb699.uni-regensburg.de</a> (DE)
Tübingen	Eberhard Karls Universität Tübingen	<b>Molecular Encoding of Specificity in Plant Processes (CRC 1101)</b>	2013	<a href="http://www.uni-tuebingen.de/en/research/core-research/collaborative-research-centers/sfb-1101.html">www.uni-tuebingen.de/en/research/core-research/collaborative-research-centers/sfb-1101.html</a>
Tübingen	Eberhard Karls Universität Tübingen	<b>The Bacterial Cell Envelope: Structure, Function and Infection Interface (CRC 766)</b>	2007	<a href="http://www.sfb766.uni-tuebingen.de">www.sfb766.uni-tuebingen.de</a>
Tübingen	Eberhard Karls Universität Tübingen	<b>Immunotherapy: Molecular Basis and Clinical Application (CRC 685)</b>	2005	<a href="http://www.sfb685.de">www.sfb685.de</a>
Ulm	Universität Ulm	<b>Danger Response, Disturbance Factors and Regenerative Potential after Acute Trauma (CRC 1149)</b>	2014	<a href="http://www.uni-ulm.de/en/einrichtungen/crc-1149">www.uni-ulm.de/en/einrichtungen/crc-1149</a>
Ulm	Universität Ulm	<b>Experimental Models and Clinical Translation in Leukemia (CRC 1074)</b>	2012	<a href="http://www.uni-ulm.de/einrichtungen/sfb-1074">www.uni-ulm.de/einrichtungen/sfb-1074</a>
Würzburg	Julius-Maximilians-Universität Würzburg	<b>Insect Timing: Mechanisms, Plasticity and Interactions (CRC 1047)</b>	2012	<a href="http://www.sfb1047.uni-wuerzburg.de/en">www.sfb1047.uni-wuerzburg.de/en</a>
Würzburg	Julius-Maximilians-Universität Würzburg	<b>Mechanisms and Imaging of Cell-Cell-Interactions in the Cardiovascular System (CRC 688)</b>	2005	<a href="http://www.sfb688.uni-wuerzburg.de/en">www.sfb688.uni-wuerzburg.de/en</a>



## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
COLLABORATIVE RESEARCH CENTRES/TRANSREGIOS				
Aachen	Rheinisch-Westfälische Technische Hochschule Aachen	<b>Organ Fibrosis: From Mechanisms of Injury to Modulation of Disease (TRR 57)</b>	2008	www.sfbtrr57.rwth-aachen.de
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn			
Berlin	Charité – Universitätsmedizin Berlin	<b>B Cells: Immunity and Autoimmunity (TRR 130)</b>	2013	www.trr130.forschung.uni-erlangen.de
Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg			
Freiburg	Albert-Ludwigs-Universität Freiburg			
Berlin	Charité – Universitätsmedizin Berlin	<b>Innate Immunity of the Lung: Mechanisms of Pathogen Attack and Host Defence in Pneumonia (TRR 84)</b>	2010	www.sfb-tr84.de
Gießen	Justus-Liebig-Universität Gießen			
Marburg	Philipps-Universität Marburg			
Berlin	Charité – Universitätsmedizin Berlin	<b>Molecular Switches: Spatio-Temporal Control of Cellular Signal Transmission (TRR 186)</b>	2016	http://bzh.db-engine.de
Heidelberg	Ruprecht-Karls-Universität Heidelberg			
Berlin	Humboldt-Universität zu Berlin	<b>The Green Hub - Central Coordinator of Acclimation in Plants (TRR 175)</b>	2016	www.tr175.bio.lmu.de
Kaiserslautern	Technische Universität Kaiserslautern			
Munich	Ludwig-Maximilians-Universität München			
Berlin	Charité – Universitätsmedizin Berlin	<b>Principles and Applications of Adoptive T Cell Therapy (TRR 36)</b>	2006	www.sfb-tr36.com
Munich	Ludwig-Maximilians-Universität München Technische Universität München			

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Bochum Essen	Ruhr-Universität Bochum Universität Duisburg-Essen	<b>Mutual Interaction of Viruses with Cells of the Immune System: From Fundamental Research to Immunotherapy and Vaccination (TRR 60)</b>	2009	www.uni-due.de/trr60
Shanghai (P.R. China)	Fudan University			
Wuhan (P.R. China)	Huazhong University of Science and Technology			
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>Molecular Architecture and Cellular Functions of Lipid/Protein Assemblies (TRR 83)</b>	2009	www.trr83.de
Dresden	Technische Universität Dresden			
Heidelberg	Ruprecht-Karls-Universität Heidelberg			
Braunschweig Oldenburg	Technische Universität Braunschweig Carl von Ossietzky Universität Oldenburg	<b>Ecology, Physiology and Molecular Biology of the Roseobacter Clade: Towards a Systems Biology Understanding of a Globally Important Clade of Marine Bacteria (TRR 51)</b>	2009	www.roseobacter.de
Dresden	Technische Universität Dresden			
Hannover	Medizinische Hochschule Hannover	<b>Biology of Xenogeneic Cell and Organ Transplantation – From Bench to Bedside (TRR 127)</b>	2012	www.klinikum.uni-muenchen.de/SFB-TRR-127
Munich	Ludwig-Maximilians-Universität München Technische Universität München			
Dresden Leipzig	Technische Universität Dresden Universität Leipzig			
Dresden Leipzig	Technische Universität Dresden Universität Leipzig	<b>Functional Biomaterials for Controlling Healing Processes in Bone and Skin - From Material Science to Clinical Application (TRR 67)</b>	2009	http://research.uni-leipzig.de/trr67
Frankfurt/Main Heidelberg	Johann Wolfgang Goethe-Universität Frankfurt am Main Ruprecht-Karls-Universität Heidelberg			
Frankfurt/Main Heidelberg	Johann Wolfgang Goethe-Universität Frankfurt am Main Ruprecht-Karls-Universität Heidelberg	<b>Vascular Differentiation and Remodeling (TRR 23)</b>	2005	www.transregio23.de

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Freiburg Heidelberg Munich	Albert-Ludwigs-Universität Freiburg Ruprecht-Karls-Universität Heidelberg Ludwig-Maximilians-Universität München Technische Universität München	<b>Determinants and Dynamics of Elimination versus Persistence of Hepatitis Virus Infection (TRR 179)</b>	2016	<a href="http://gepris.dfg.de/gepris/projekt/272983813">http://gepris.dfg.de/gepris/projekt/272983813</a>
Freiburg Homburg Munich	Albert-Ludwigs-Universität Freiburg Universität des Saarlandes Ludwig-Maximilians-Universität München	<b>TRiPs to Homeostasis: Maintenance of Body Homeostasis by Transient Receptor Potential Channel Modules (TRR 152)</b>	2014	<a href="http://www.sfb-trr152.med.uni-muenchen.de">www.sfb-trr152.med.uni-muenchen.de</a>
Gießen Marburg Rotterdam (Netherlands)	Justus-Liebig-Universität Gießen Philipps-Universität Marburg Erasmus University Rotterdam Medical Center	<b>Chromatin Changes in Differentiation and Malignancies (TRR 81)</b>	2010	<a href="http://www.uni-giessen.de/cms/fbz/fb08/trr81">www.uni-giessen.de/cms/fbz/fb08/trr81</a>
Greifswald Münster Tübingen Würzburg	Ernst-Moritz-Arndt Universität Greifswald Westfälische Wilhelms-Universität Münster Eberhard Karls Universität Tübingen Julius-Maximilians-Universität Würzburg	<b>Pathophysiology of Staphylococci in the Post-Genome-Era (TRR 34)</b>	2006	<a href="http://www.staphaureus.org">www.staphaureus.org</a>
Jena Würzburg	Friedrich-Schiller-Universität Jena Julius-Maximilians-Universität Würzburg	<b>High-End Light Microscopy Elucidates Membrane Receptor Function - Receptor Light (TRR 166)</b>	2015	<a href="http://www.receptorlight.uni-jena.de">www.receptorlight.uni-jena.de</a>
Jena Würzburg	Friedrich-Schiller-Universität Jena Julius-Maximilians-Universität Würzburg	<b>Pathogenic Fungi and their Human Host: Networks of Interaction – FungiNet – (TRR 124)</b>	2013	<a href="http://www.funginet.de">www.funginet.de</a>
Marburg Munich	Philipps-Universität Marburg Ludwig-Maximilians-Universität München	<b>Spatiotemporal Dynamics of Bacterial Cells (TRR 174)</b>	2016	<a href="http://www.trr174.org">www.trr174.org</a>



# 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.

Research Units are not shown on the map. Only the titles of the thematic focus and the project websites are listed.



## RESEARCH UNITS

Title	Funded Since	Contact
Pemphigus - From Pathogenesis to Therapeutics (Pegasus) (FOR 2497)	2016	<a href="http://gepris.dfg.de/gepris/projekt/289113135">http://gepris.dfg.de/gepris/projekt/289113135</a>
Cell Plasticity in Colorectal Carcinogenesis (FOR 2438)	2016	<a href="http://www.for2438.de">www.for2438.de</a>
Exploring Articular Cartilage and Subchondral Bone Degeneration and Regeneration in Osteoarthritis (ExCarBon) (FOR 2407)	2015	<a href="http://www.excarbon.com">www.excarbon.com</a>
Macromolecular Complexes in mRNA Translocation (FOR 2333)	2015	<a href="http://for2333.de">http://for2333.de</a>
VIROCARB: Glycans Controlling Non-Enveloped Virus Infections (FOR 2327)	2015	<a href="http://www.virocarb.de">www.virocarb.de</a>
Targeting Therapeutic Windows in Essential Cellular Processes for Tumor Therapy (FOR 2314)	2015	<a href="http://www.pch2.biozentrum.uni-wuerzburg.de/for2314">www.pch2.biozentrum.uni-wuerzburg.de/for2314</a>
Understanding Intramembrane Proteolysis (FOR 2290)	2015	<a href="http://www.i-proteolysis.de">www.i-proteolysis.de</a>
Sociality and the Reversal of the Fecundity-Longevity Trade-Off (FOR 2281)	2015	<a href="http://gepris.dfg.de/gepris/projekt/261675780">http://gepris.dfg.de/gepris/projekt/261675780</a>
Adaptation and Persistence of the Emerging Pathogen Acinetobacter Baumannii (FOR 2251)	2014	<a href="http://www.acinetobacter.de">www.acinetobacter.de</a>
(Lymph)Angiogenesis and Cellular Immunity in Inflammatory Diseases of the Eye (FOR 2240)	2014	<a href="http://www.for2240.de">www.for2240.de</a>
Regeneration in Aged Individuals: Using Bone Healing as a Model System to Characterize Regeneration under Compromised Conditions (FOR 2165)	2014	<a href="https://jwi.charite.de/en/about_us/research_network/research_unit_regeneration_in_aged/">https://jwi.charite.de/en/about_us/research_network/research_unit_regeneration_in_aged/</a>
Elucidation of Adhesion-GPCR signaling (FOR 2149)	2014	<a href="http://www.adhesiongpcr.de/en_US">www.adhesiongpcr.de/en_US</a>
Selection and Adaptation during Metastatic Cancer Progression (FOR 2127)	2014	<a href="http://for2127.de">http://for2127.de</a> (DE)
Biogenesis of Thylakoid Membranes: Spatiotemporal Organization of Photosynthetic Protein Complex Assembly (FOR 2092)	2014	<a href="http://www.uni-kl.de/for2092">www.uni-kl.de/for2092</a>
Sphingolipid Dynamics in Infection Control (FOR 2123)	2013	<a href="http://www.virologie.uni-wuerzburg.de/for2123">www.virologie.uni-wuerzburg.de/for2123</a>
cGMP Signalling in Cell Growth and Survival (FOR 2060)	2013	<a href="http://www.cyclic-gmp.de">www.cyclic-gmp.de</a>
Nanopatterned Organic Matrices in Biological Silica Mineralization (FOR 2038)	2013	<a href="http://www.nanomee.de">www.nanomee.de</a>
New Insights into Bcl-2 Family Interactions: From Biophysics to Function (FOR 2036)	2013	<a href="http://bioinformatics.uni-konstanz.de/for2036">http://bioinformatics.uni-konstanz.de/for2036</a>
The Hematopoietic Niches (NicHem) (FOR 2033)	2013	<a href="http://www.for2033.med.tum.de">www.for2033.med.tum.de</a>
Mature T-Cell Lymphomas - Mechanisms of Perturbed Clonal T-Cell Homeostasis (FOR 1961)	2013	<a href="http://www.control.t.de">www.control.t.de</a>
Structure and Function of the Peroxisomal Translocon (PerTrans) (FOR 1905)	2013	<a href="http://www.pertrans.org">www.pertrans.org</a>

RESEARCH UNITS

Title	Funded Since	Contact
The Forgotten Part of Carbon Cycling: Organic Matter Storage and Turnover in Subsoils (SUBSOM) (FOR 1806)	2013	<a href="http://www.subsom.de">www.subsom.de</a>
Ribosome Dynamics in Regulation of Speed and Accuracy of Translation (FOR 1805)	2012	<a href="http://www.uni-potsdam.de/for1805">www.uni-potsdam.de/for1805</a>
Heme and Heme Degradation Products (HHDP): Alternative Functions and Signalling Mechanisms (FOR 1738)	2012	<a href="http://www.hhdp.uni-jena.de">www.hhdp.uni-jena.de</a>
Functional Dynamics of Cell Contacts in Cellular Assemblies and Migratory Cells (FOR 1756)	2011	<a href="http://for1756.uni-goettingen.de">http://for1756.uni-goettingen.de</a>
Unravelling the Prokaryotic Immune System (FOR 1680)	2011	<a href="http://www.uni-ulm.de/navi/navi-for1680.html">www.uni-ulm.de/navi/navi-for1680.html</a>
SKELMET - Mesenchymal and Osteogenic Signalling Pathways in Malignant Bone Diseases (FOR 1586)	2011	<a href="http://www.skelmet.de">www.skelmet.de</a>
Shear Flow Regulation of Hemostasis - Bridging the Gap between Nanomechanics and Clinical Presentation (FOR 1543)	2011	<a href="http://www.shenc.de">www.shenc.de</a>
INTERNANO: Mobility, Aging and Functioning of Engineered Inorganic Nanoparticles at the Aquatic-Terrestrial Interface (FOR 1536)	2011	<a href="http://www.uni-koblenz-landau.de/de/landau/fb7/umweltwissenschaften/forschung/internano">www.uni-koblenz-landau.de/de/landau/fb7/umweltwissenschaften/forschung/internano</a>
Anaerobic Biological Dehalogenation: Organisms, Biochemistry, and (Eco-)physiology (FOR 1530)	2010	<a href="http://www.uni-jena.de/en/FOR1530-EGOTEC-n40nafn4.html">www.uni-jena.de/en/FOR1530-EGOTEC-n40nafn4.html</a>
Exploiting the Potential of Natural Compounds: Myxobacteria as Source for Leads, Tools and Therapeutics in Cancer Research (FOR 1406)	2010	<a href="http://www.for1406.uni-muenchen.de">www.for1406.uni-muenchen.de</a>
Physiological Functions of the APP Gene Family in the Central Nervous System (FOR 1332)	2010	<a href="http://www.uni-heidelberg.de/app-function/index.html">www.uni-heidelberg.de/app-function/index.html</a>
Photorespiration: Origins and Metabolic Integration in Interacting Compartments (FOR 1186)	2009	<a href="http://www.promics.uni-rostock.de">www.promics.uni-rostock.de</a>



# PRIORITY PROGRAMMES

- FUNDED BY DFG -

**Priority Programmes (SPP)** have a programmatic focus and have 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. One programme can consist of up to 30 individual researchers and subprojects located at several institutions across Germany; it usually has one coordinating person. Priority Programmes normally receive funding for a period of six years.

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

Title	Funded Since	Contact
Innate Lymphoid Cells (SPP 1937)	2016	<a href="http://gepris.dfg.de/gepris/projekt/273942223">http://gepris.dfg.de/gepris/projekt/273942223</a>
Deciphering the mRNP Code: RNA-bound Determinants of Post-Transcriptional Gene Regulation (SPP 1935)	2016	<a href="http://spp1935.de">http://spp1935.de</a>
Iron-Sulfur for Life (SPP 1927)	2016	<a href="http://www.ironulfurforlife.de">www.ironulfurforlife.de</a>
Next Generation Optogenetics: Tool Development and Application (SPP 1926)	2016	<a href="http://www.spp1926.org">www.spp1926.org</a>
Innate Sensing and Restriction of Retroviruses (SPP 1923)	2016	<a href="http://spp1923.de">http://spp1923.de</a>
Nucleotide Second Messenger Signaling in Bacteria (SPP 1897)	2016	<a href="http://www.biologie.hu-berlin.de/de/gruppenseiten/mikrobiologie/hengge/dfg_priority_programme/SPP%201879">www.biologie.hu-berlin.de/de/gruppenseiten/mikrobiologie/hengge/dfg_priority_programme/SPP%201879</a>
Epithelial Intercellular Junctions as Dynamic Hubs to Integrate Forces, Signals and Cell Behaviour (SPP 1782)	2015	<a href="http://www.maginlab.eu/home-dfg-spp-1782.html">www.maginlab.eu/home-dfg-spp-1782.html</a>
Emerging Roles of Non-Coding RNAs in Nervous System Development, Plasticity and Disease (SPP 1738)	2014	<a href="http://www.spp1738.de">www.spp1738.de</a>

# PRIORITY PROGRAMMES

Title	Funded Since	Contact
Dynamics of Thiol-Based Redox Switches in Cellular Physiology (SPP 1710)	2014	<a href="http://www.thiolswitches.de">www.thiolswitches.de</a>
Rapid Evolutionary Adaptation: Potential and Constraints (SPP 1819)	2013	<a href="https://dfg-spp1819.uni-hohenheim.de">https://dfg-spp1819.uni-hohenheim.de</a>
Intestinal Microbiota - A Microbial Ecosystem at the Edge between Immune Homeostasis and Inflammation (SPP 1656)	2013	<a href="http://www.intestinal-microbiota.de">www.intestinal-microbiota.de</a>
Ecology and Species Barriers in Emerging Viral Diseases (SPP 1596)	2013	<a href="http://www.spp1596.com">www.spp1596.com</a>
THYROID TRANS ACT - Translation of Thyroid Hormone Actions beyond Classical Concepts (SPP 1629)	2012	<a href="http://www.thyroidtransact.de">www.thyroidtransact.de</a>
Chemoselective Reactions for the Synthesis and Application of Functional Proteins (SPP 1623)	2012	<a href="http://www.spp1623.de">www.spp1623.de</a>
Phenotypic Heterogeneity and Sociobiology of Bacterial Populations (SPP 1617)	2012	<a href="http://spp1617.tu-bs.de">http://spp1617.tu-bs.de</a>
Ultrafast and Temporally Precise Information Processing: Normal and Dysfunctional Hearing (SPP 1608)	2012	<a href="http://www.pp1608.com">www.pp1608.com</a>
Intracellular Compartments as Places of Pathogen-Host-Interactions (SPP 1580)	2011	<a href="http://www.spp1580.uni-bonn.de">www.spp1580.uni-bonn.de</a>
Flowering Time Control: From Natural Variation to Crop Improvement (SPP 1530)	2011	<a href="http://www.flowercrop.uni-kiel.de/en">www.flowercrop.uni-kiel.de/en</a>
Evolutionary Plant Solutions to Ecological Challenges: Molecular Mechanisms Underlying Adaptive Traits in the Brassicaceae s.l. (Adaptomics) (SPP 1529)	2011	<a href="http://www.ruhr-uni-bochum.de/dfg-spp1529">www.ruhr-uni-bochum.de/dfg-spp1529</a>
Epigenetic Regulation of Normal Hematopoiesis and its Dysregulation in Myeloid Neoplasia (SPP 1463)	2010	<a href="http://www.myeloid-epigenetics.de">www.myeloid-epigenetics.de</a>





**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](http://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 38,000 employees in 18 research centres and an annual budget of approximately 4.24 billion euros, the Helmholtz Association is Germany's largest scientific organisation. [www.helmholtz.de](http://www.helmholtz.de)

**The Leibniz Association** is an umbrella organisation of 89 research institutes. The annual budget amounts to 1.73 billion euros. Some 9,300 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](http://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 2016. A combined total of more than 13,000 researchers, postdoctoral/junior researchers and visiting researchers at 83 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](http://www.mpg.de)

Location	Institution	Contact
FRAUNHOFER INSTITUTES		
● Aachen Schmallenberg	Fraunhofer Institute for Molecular Biology and Applied Ecology (IME)	<a href="http://www.ime.fraunhofer.de/en">www.ime.fraunhofer.de/en</a>
● Bremen	Fraunhofer Institute for Medical Image Computing (MEVIS)	<a href="http://www.mevis.fraunhofer.de/en">www.mevis.fraunhofer.de/en</a>
● Leipzig	Fraunhofer Institute for Cell Therapy and Immunology (IZI)	<a href="http://www.izi.fraunhofer.de">www.izi.fraunhofer.de</a>
● Lübeck	Fraunhofer Research Institution for Marine Biotechnology (EMB)	<a href="http://www.emb.fraunhofer.de/en">www.emb.fraunhofer.de/en</a>
● St. Ingbert	Fraunhofer Institute for Biomedical Engineering (IBMT)	<a href="http://www.ibmt.fraunhofer.de/en">www.ibmt.fraunhofer.de/en</a>
● Stuttgart	Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB)	<a href="http://www.igb.fraunhofer.de/en">www.igb.fraunhofer.de/en</a>
HELMHOLTZ CENTRES		
● Berlin-Buch	Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch	<a href="http://www.mdc-berlin.de">www.mdc-berlin.de</a>
● Braunschweig	Helmholtz Centre for Infection Research	<a href="http://www.helmholtz-hzi.de/en">www.helmholtz-hzi.de/en</a>
● Hamburg	Deutsches Elektronen-Synchrotron DESY	<a href="http://www.desy.de">www.desy.de</a>
● Heidelberg	German Cancer Research Centre (DKFZ)	<a href="http://www.dkfz.de">www.dkfz.de</a>
● Jülich	Forschungszentrum Jülich	<a href="http://www.fz-juelich.de">www.fz-juelich.de</a>
● Karlsruhe	Karlsruhe Institute of Technology (KIT)	<a href="http://www.kit.edu">www.kit.edu</a>
● Munich	Helmholtz Zentrum München - German Research Center for Environmental Health	<a href="http://www.helmholtz-muenchen.de">www.helmholtz-muenchen.de</a>
● Teltow (Berlin)	Helmholtz-Zentrum Geesthacht – Centre for Materials and Coastal Research / Institute for Biomaterial Science in Teltow	<a href="http://www.hzg.de">www.hzg.de</a>
LEIBNIZ INSTITUTES		
● Berlin	German Rheumatism Research Centre (DRFZ)	<a href="http://www.dr fz.de">www.dr fz.de</a>
● Berlin	Leibniz-Institute for Molecular Pharmacology (FMP)	<a href="http://www.fmp-berlin.de">www.fmp-berlin.de</a>
● Berlin	Leibniz Institute for Zoo and Wildlife Research (IZW)	<a href="http://www.izw-berlin.de">www.izw-berlin.de</a>
● Borstel	Leibniz Center for Medicine and Biosciences (FZB)	<a href="http://www.fz-borstel.de">www.fz-borstel.de</a>
● Braunschweig	Leibniz Institute DSMZ – German Collection of Microorganisms and Cell Cultures	<a href="http://www.dsmz.de">www.dsmz.de</a>
● Düsseldorf	German Diabetes Center (DDZ)	<a href="http://ddz.uni-duesseldorf.de/en">http://ddz.uni-duesseldorf.de/en</a>
● Düsseldorf	Leibniz Institute for Environmental Medicine (IUF)	<a href="http://www.iuf-duesseldorf.de">www.iuf-duesseldorf.de</a>
● Gatersleben	Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)	<a href="http://www.ipk-gatersleben.de/en">www.ipk-gatersleben.de/en</a>

NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
● Halle/Saale	Leibniz Institute of Plant Biochemistry (IPB)	www.ipb-halle.de/en
● Hamburg	Bernhard-Nocht-Institute for Tropical Medicine (BNITM)	www.bnitm.de
● Hamburg	Leibniz Institute for Experimental Virology (HPI)	www.hpi-hamburg.de/en
● Jena	Leibniz Institute for Age Research (FLI)	www.fli-leibniz.de
● Jena	Leibniz-Institute for Natural Product Research and Infection Biology (HKI)	www.hki-jena.de
● Magdeburg	Leibniz-Institute for Neurobiology (LIN)	www.lin-magdeburg.de
● Potsdam	German Institute of Human Nutrition (DIFE)	www.dife.de
MAX-PLANCK-INSTITUTES		
● Bad Nauheim	Max Planck Institute for Heart and Lung Research	www.mpi-hlr.de
● Berlin	Max Planck Institute for Infection Biology	www.mpiib-berlin.mpg.de/2285/en
● Berlin	Max Planck Institute for Molecular Genetics	www.molgen.mpg.de
● Cologne	Max Planck Institute for Biology and Ageing	www.age.mpg.de
● Cologne	Max Planck Institute for Plant Breeding Research	www.mpipz.mpg.de
● Dortmund	Max Planck Institute of Molecular Physiology	www.mpi-dortmund.mpg.de
● Dresden	Max Planck Institute of Molecular Cellbiology and Genetics	www.mpi-cbg.de
● Frankfurt/Main	Max Planck Institute of Biophysics	www.biophys.mpg.de
● Frankfurt/Main	Max Planck Institute for Brain Research	www.brain.mpg.de
● Freiburg	Max Planck Institute of Immunobiology and Epigenetics	www.ie-freiburg.mpg.de
● Göttingen	Max Planck Institute for Biophysical Chemistry	www.mpibpc.mpg.de
● Göttingen	Max Planck Institute for Experimental Medicine	www.em.mpg.de
● Heidelberg	Max Planck Institute for Medical Research	www.mpimf-heidelberg.mpg.de
● Jena	Max Planck Institute for Chemical Ecology	www.ice.mpg.de
● Marburg	Max Planck Institute for Terrestrial Microbiology	www.mpi-marburg.mpg.de
● Martinsried (Munich)	Max Planck Institute of Biochemistry	www.biochem.mpg.de
● Martinsried (Munich)	Max Planck Institute of Neurobiology	www.neuro.mpg.de
● Münster	Max Planck Institute for Molecular Biomedicine	www.mpi-muenster.mpg.de

NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
● Potsdam - Golm	Max Planck Institute for Molecular Plant Physiology	www.mpimp-golm.mpg.de
● Tübingen	Friedrich Miescher Laboratory of the Max Planck Society	www.fml.tuebingen.mpg.de
● Tübingen	Max Planck Institute for Developmental Biology	www.eb.tuebingen.mpg.de
OTHERS		
● Heidelberg	European Molecular Biology Laboratory (EMBL) Heidelberg	www.embl.de



# 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.

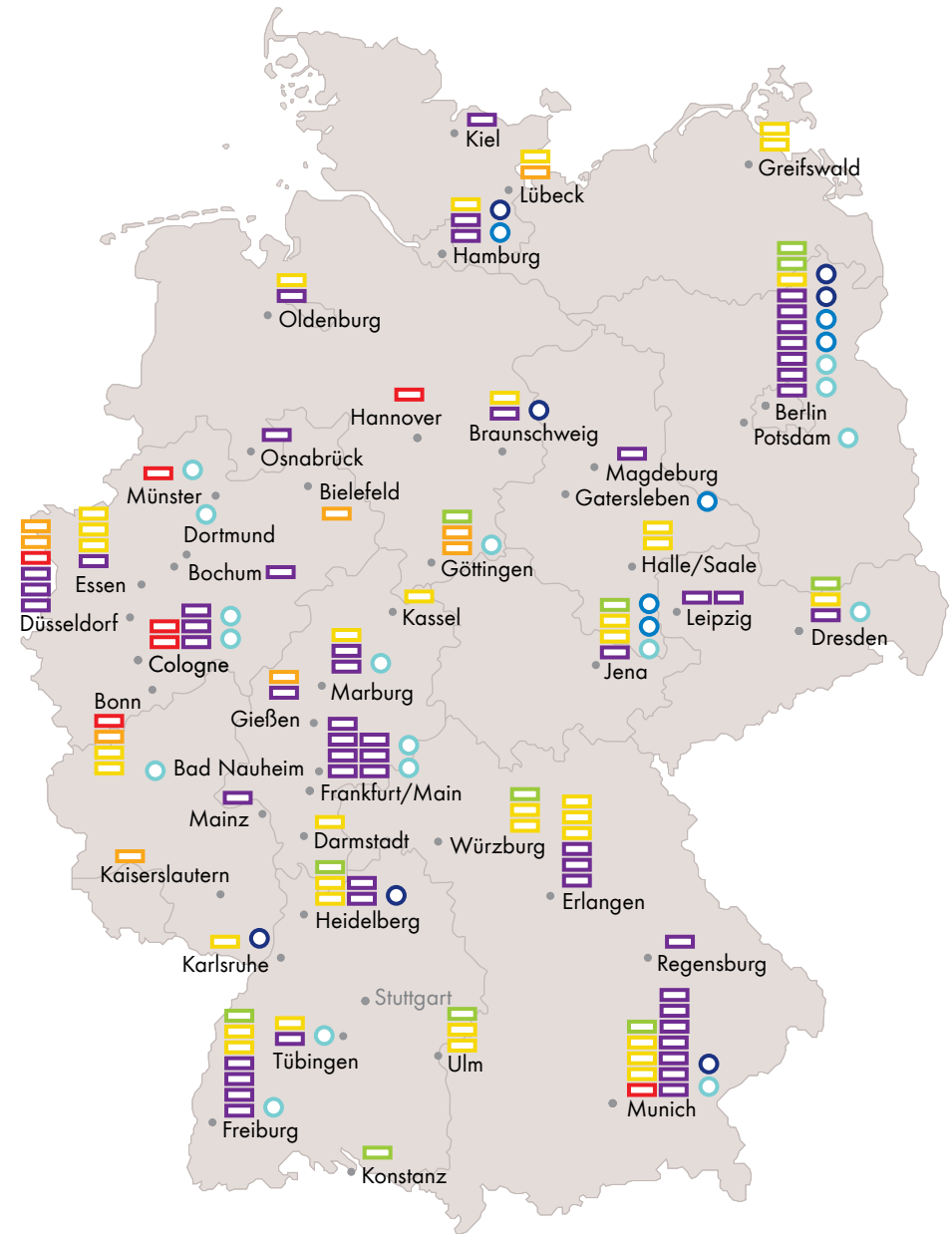
## GERMAN CENTRES FOR HEALTH RESEARCH

Title	Funded Since	Contact
German Centre for Cardiovascular Research (DZHK)	2011	<a href="http://dzhk.de/1">http://dzhk.de/1</a>
German Center for Infection Research (DZIF)	2011	<a href="http://www.dzif.de/en">www.dzif.de/en</a>
German Consortium for Translational Cancer Research (DKTK)	2011	<a href="http://www.dkfz.de/en/dktk">www.dkfz.de/en/dktk</a>
The German Center for Lung Research (DZL)	2011	<a href="http://www.dzl.de/index.php/en">www.dzl.de/index.php/en</a>
German Center for Diabetes Research (DZD)	2009	<a href="http://www.dzd-ev.de/en">www.dzd-ev.de/en</a>
German Center for Neurodegenerative Diseases (DZNE)	2009	<a href="http://www.dzne.de/en">www.dzne.de/en</a>





# GRADUATE TRAINING



- |  |   |
|--|---|
|  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                     |   |
|  Integrated Research Training Groups in Collaborative Research Centres/Transregios |   |

# 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/Transregios) 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	Freie Universität Berlin Humboldt-Universität zu Berlin	Berlin School of Integrative Oncology (BSIO) (GSC 1091)	2012	www.bsiocancerschool.de
 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
 Göttingen	Georg-August-Universität Göttingen	Göttingen Graduate School for Neurosciences, Biophysics and Molecular Biosciences (GGNB) (GSC 226)	2007	www.uni-goettingen.de/en/sh/56640.html
 Heidelberg	Ruprecht-Karls-Universität Heidelberg	The Hartmut Hoffmann-Berling International Graduate School of Molecular and Cellular Biology Heidelberg (HBIGS) (GSC 249)	2007	www.hbigs.uni-heidelberg.de
 Jena	Friedrich-Schiller-Universität Jena	Jena School for Microbial Communication (JSMC) (GSC 214)	2007	www.jsmc.uni-jena.de
 Konstanz	Universität Konstanz	Konstanz Research School Chemical Biology (KoRS-CB) (GSC 218)	2007	www.chembiol.uni-konstanz.de
 Munich	Ludwig-Maximilians-Universität München	Graduate School of Quantitative Biosciences Munich (QBM) (GSC 1006)	2012	www.qbm.genzentrum.lmu.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

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
<b>RESEARCH TRAINING GROUPS</b>				
 Berlin	Freie Universität Berlin	<b>Parasite Infections: From Experimental Models to Natural Systems (RTG 2046)</b>	2014	www.zibi-graduateschool-berlin.de
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>Water Use Efficiency and Drought Stress Responses: From Arabidopsis to Barley (RTG 2064)</b>	2015	www.imbio.uni-bonn.de/GRK2064-en
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>Pharmacology of 7TM-Receptors and Downstream Signaling Pathways (RTG 1873)</b>	2012	www.grk1873.uni-bonn.de
 Braunschweig	Technische Universität Braunschweig	<b>Protein Complex Assembly (PROCOMPAS) (RTG 2223)</b>	2016	www.tu-braunschweig.de/procompas
 Darmstadt	Technische Universität Darmstadt	<b>Molecular and Cellular Responses to Ionizing Radiation (RTG 1657)</b>	2010	www.bio.tu-darmstadt.de/ag/forschen/grk1657/index.en.jsp
 Dresden	Technische Universität Dresden	<b>Immunological and Cellular Strategies in Metabolic Disease (ICSMD) (RTG 2251)</b>	2016	http://transcampus.eu/irtg
 Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	<b>Dynamic Interactions at Biological Membranes – From Single Molecules to Tissue (RTG 1962)</b>	2013	www.biomembranes.org
 Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	<b>Key Signals of Adaptive Immune Response (RTG 1660)</b>	2010	www.lymphozyten.de (DE)
 Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	<b>Medicinal Chemistry of Selective GPCR Ligands (RTG 1910)</b>	2012	www.grk1910.de
 Essen	Universität Duisburg-Essen	<b>Biomedicine of the Acid Sphingomyelinase/Acid Ceramidase System (RTG 2098)</b>	2015	www.uni-due.de/grk2098
 Essen	Universität Duisburg-Essen	<b>Immune Response in Infectious Diseases – Regulation Between Innate and Adaptive Immunity (RTG 1949)</b>	2013	www.uni-due.de/grk1949












## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Essen	Universität Duisburg-Essen	<b>Molecular Determinants of the Cellular Radiation Response and their Potential for Response Modulation (RTG 1739)</b>	2011	www.uni-due.de/grk1739
 Freiburg	Albert-Ludwigs-Universität Freiburg	<b>Transport across and into Membranes (RTG 2202)</b>	2016	www.taim.uni-freiburg.de
 Freiburg	Albert-Ludwigs-Universität Freiburg	<b>Functional Diversity of Cofactors in Enzymes (RTG 1976)</b>	2014	www.cofactor-diversity.uni-freiburg.de/RTG/RTGstart
 Greifswald	Ernst-Moritz-Arndt Universität Greifswald	<b>Bacterial Respiratory Infections – Common and Specific Mechanisms of Pathogen Adaptation and Immune Defense (RTG 1870)</b>	2013	https://biologie.uni-greifswald.de/en/research-activities/research-training-groups-german-research-council-dfg/research-training-group-1870-bacterial-respiratory-infections
 Greifswald	Ernst-Moritz-Arndt Universität Greifswald	<b>Biochemical, Biophysical and Biomedical Effects of Reactive Oxygen and Nitrogen Species on Biological Membranes (RTG 1947)</b>	2014	www.physik.uni-greifswald.de/biox
 Halle/Saale	Martin-Luther-Universität Halle-Wittenberg	<b>Posttranscriptional Control of Gene Expression: Mechanisms and Role in Pathogenesis (RTG 1591)</b>	2009	www.intmeet.grk1591.de
 Halle/Saale Jena	Martin-Luther-Universität Halle-Wittenberg Friedrich-Schiller-Universität Jena	<b>ProMoAge - Protein Modification: A Key Mechanism for Ageing (RTG 2155)</b>	2015	www.promoage.de
 Hamburg	Universität Hamburg	<b>Sorting and Interactions Between Proteins of Subcellular Compartments (RTG 1459)</b>	2007	www.grk1459.de
 Heidelberg	Ruprecht-Karls-Universität Heidelberg	<b>Hallmarks of Skin Cancer (RTG 2099)</b>	2014	www.rtg2099.de
 Heidelberg	Ruprecht-Karls-Universität Heidelberg	<b>Diabetic Microvascular Complications (DIAMICOM) (RTG 1874)</b>	2012	www.umm.uni-heidelberg.de/ag/grk1874

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Jena	Friedrich-Schiller-Universität Jena	<b>Molecular Signatures of Adaptive Stress Responses (RTG 1715)</b>	2011	<a href="http://www.grk1715.uni-jena.de">www.grk1715.uni-jena.de</a>
 Karlsruhe	Karlsruher Institut für Technologie	<b>Molecular Architectures for Fluorescent Cell Imaging (RTG 2039)</b>	2014	<a href="http://www.grk2039.kit.edu">www.grk2039.kit.edu</a>
 Lübeck	Universität zu Lübeck	<b>Adipocyte - Brain - Crosstalk (RTG 1957)</b>	2013	<a href="http://www.grk1957.uni-luebeck.de">www.grk1957.uni-luebeck.de</a>
 Marburg	Philipps-Universität Marburg	<b>Membrane Plasticity in Tissue Development and Remodeling (RTG 2213)</b>	2016	<a href="http://www.uni-marburg.de/fb17/forschung/gradkoll/gradkoll5/index_html">www.uni-marburg.de/fb17/forschung/gradkoll/gradkoll5/index_html</a>
 Munich	Ludwig-Maximilians-Universität München	<b>Integrated Analysis of Macromolecular Complexes and Hybrid Methods in Genome Biology (RTG 1721)</b>	2011	<a href="http://www.grk1721.genzentrum.lmu.de">www.grk1721.genzentrum.lmu.de</a>
 Munich	Ludwig-Maximilians-Universität München	<b>Molecular Principles of Synthetic Biology (RTG 2062)</b>	2014	<a href="http://www.grk2062.uni-muenchen.de">www.grk2062.uni-muenchen.de</a>
 Munich	Technische Universität München	<b>Interface Functions of the Intestine between Luminal Factors and Host Signals (RTG 1482)</b>	2007	<a href="http://www.grk1482.de">www.grk1482.de</a>
 Oldenburg	Carl von Ossietzky Universität Oldenburg	<b>Molecular Basis of Sensory Biology (RTG 1885)</b>	2012	<a href="http://www.uni-oldenburg.de/en/sensorybio">www.uni-oldenburg.de/en/sensorybio</a>
 Tübingen	Eberhard Karls Universität Tübingen	<b>Molecular Principles of Bacterial Survival Strategies (RTG 1708)</b>	2011	<a href="http://www.uni-tuebingen.de/forschung/forschungsschwerpunkte/graduiertenkollegs/grk-molecular-principles-of-bacterial-survival-strategies">www.uni-tuebingen.de/forschung/forschungsschwerpunkte/graduiertenkollegs/grk-molecular-principles-of-bacterial-survival-strategies</a>
 Ulm	Universität Ulm	<b>Cellular and Molecular Mechanisms in Aging (CEMMA) (RTG 1789)</b>	2012	<a href="http://www.uni-ulm.de/med/med-cemma">www.uni-ulm.de/med/med-cemma</a>
 Ulm	Universität Ulm	<b>Heterogeneity and Evolution in Solid Tumors (HEIST): Molecular Characterization and Therapeutic Consequences (RTG 2254)</b>	2016	<a href="http://www.uni-ulm.de/en/med/heist">www.uni-ulm.de/en/med/heist</a>








## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Würzburg	Julius-Maximilians-Universität Würzburg	<b>3D Tissue Models for Studying Microbial Infections by Human Pathogens (RTG 2157)</b>	2015	<a href="http://www.uni-wuerzburg.de/grk2157">www.uni-wuerzburg.de/grk2157</a>
 Würzburg	Julius-Maximilians-Universität Würzburg	<b>Understanding Ubiquitylation: From Molecular Mechanisms to Disease (RTG 2243)</b>	2015	<a href="http://www.uni-wuerzburg.de/grk2243">www.uni-wuerzburg.de/grk2243</a>
<b>INTERNATIONAL RESEARCH TRAINING GROUPS</b>				
 Bielefeld	Universität Bielefeld	<b>Computational Methods for the Analysis of the Diversity and Dynamics of Genomes (IRTG 1906)</b>	2012	<a href="http://wiki.techfak.uni-bielefeld.de/did">http://wiki.techfak.uni-bielefeld.de/did</a>
 Bonn	Burnaby (Canada) Simon Fraser University	<b>Myeloid Antigen Presenting Cells and the Induction of Adaptive Immunity (IRTG 2168)</b>	2015	<a href="http://bomerang.iei-bonn.de/bomerang.html">http://bomerang.iei-bonn.de/bomerang.html</a>
 Düsseldorf	Melbourne (Australia) The University of Melbourne	<b>Intra- and Interorgan Communication of the Cardiovascular System (IRTG 1902)</b>	2013	<a href="http://www.irtg1902.hhu.de">www.irtg1902.hhu.de</a>
 Düsseldorf	Heinrich-Heine-Universität Düsseldorf	<b>The Dynamic Response of Plants to a Changing Environment (IRTG 1525)</b>	2009	<a href="http://www.igrad-plant.hhu.de">www.igrad-plant.hhu.de</a>
 East Lansing (USA)	Heinrich-Heine-Universität Düsseldorf Michigan State University	<b>Molecular Pathogenesis of Male Reproductive Disorders (IRTG 1871)</b>	2012	<a href="http://www.uni-giessen.de/cms/fbz/fb11/institute/anatomie/forschung/ag-reproduktion/irtg">www.uni-giessen.de/cms/fbz/fb11/institute/anatomie/forschung/ag-reproduktion/irtg</a>
 Gießen	Justus-Liebig-Universität Gießen	<b>Phosphorylation- and Redox-Mediated Signalling Mechanisms in the Failing Heart (IRTG 1816)</b>	2013	<a href="http://www.grk1816.med.uni-goettingen.de">www.grk1816.med.uni-goettingen.de</a>
 Göttingen	Clayton (Australia) Monash University	<b>PRoTECT - Plant Responses To Eliminate Critical Threats (IRTG 2172)</b>	2015	<a href="http://www.uni-goettingen.de/de/529150.html">www.uni-goettingen.de/de/529150.html</a>
 Göttingen	Georg-August-Universität Göttingen	<b>Phosphorylation- and Redox-Mediated Signalling Mechanisms in the Failing Heart (IRTG 1816)</b>	2013	<a href="http://www.grk1816.med.uni-goettingen.de">www.grk1816.med.uni-goettingen.de</a>
 Vancouver (Canada)	Georg-August-Universität Göttingen University of British Columbia	<b>PRoTECT - Plant Responses To Eliminate Critical Threats (IRTG 2172)</b>	2015	<a href="http://www.uni-goettingen.de/de/529150.html">www.uni-goettingen.de/de/529150.html</a>







## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Kaiserslautern Edmonton (Canada)	Technische Universität Kaiserslautern University of Alberta	<b>Complex Membrane Proteins in Cellular Development and Disease (IRTG 1830)</b>	2011	www.irtg1830.com
 Lübeck Cincinnati (USA)	Universität zu Lübeck University of Cincinnati	<b>Immune Regulation of Inflammation in Allergy and Infection (IRTG 1911)</b>	2012	www.irtg1911.uni-luebeck.de
INTEGRATED RESEARCH TRAINING GROUPS IN CLUSTERS OF EXCELLENCE				
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>IITB - International Immunology Training Program Bonn within: ImmunoSensation: the Immune Sensory System (EXC 1023)</b>	2012	www.immunosensation.de/career/phd.html
 Cologne Düsseldorf	Universität zu Köln Heinrich-Heine Universität Düsseldorf	<b>The CEPLAS Graduate School within: Cluster of Excellence on Plant Sciences - From Complex Traits Towards Synthetic Modules (CEPLAS) (EXC 1028)</b>	2012	www.ceplas.eu/en/training-careers/ceplas-graduate-school
 Cologne	Universität zu Köln	<b>Cologne Graduate School of Ageing Research within: Cellular Stress Responses in Aging-Associated Diseases (CECAD) (EXC 229)</b>	2007	www.ageing-grad-school.de
 Hannover	Gottfried Wilhelm Leibniz Universität Medizinische Hochschule Hannover	<b>Integrated PhD Program "Regenerative Sciences" within REBIRTH – From Regenerative Biology to Reconstructive Therapy (EXC 62)</b>	2006	www.rebirth-hannover.de/en/phd-program
 Münster	Westfälische Wilhelms-Universität Münster	<b>Integrated Joint Graduate Program "CiM-IMPRS" within: Cells in Motion (CiM): Imaging to Understand Cellular Behaviour in Organisms (EXC 1003) in Cooperation with IMPRS - Molecular Biomedicine</b>	2012	www.cim-imprs.de
 Munich	Ludwig-Maximilians-Universität München Technische Universität München	<b>Graduate School Life Science Munich (LSM) within: Center for Integrated Protein Science Munich (CIPSM) (EXC 114)</b>	2006	www.lsm.bio.lmu.de









## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES				
 Berlin	Freie Universität Berlin	<b>Integrated Research Training Group "Nanocarriers" within: Nanocarriers: Architecture, Transport, and Topical Application of Drugs for Therapeutic Use (CRC 1112)</b>	2013	www.sfb1112.de/en/Graduiertenkolleg
 Berlin	Freie Universität Berlin	<b>Integrated Graduate School within: Protonation Dynamics in Protein Function (CRC 1078)</b>	2012	www.sfb1078.de/igk2
 Berlin	Freie Universität Berlin	<b>Integrated Research Training Group "Biocommunication: Mechanisms and Consequences of Information Storage and Retrieval in Plants and Microbes" within: Priming and Memory of Organismic Responses to Stress (CRC 973)</b>	2012	www.sfb973.de/irtg
 Berlin	Freie Universität Berlin	<b>Integrated Research Training Group within: Scaffolding of Membranes: Molecular Mechanisms and Cellular Functions (CRC 958)</b>	2011	www.sfb958.de/graduiertenkolleg
 Cologne	Universität zu Köln	<b>Integrated Research Training Group "mito-RTG" within: Mitochondrial Regulation of Cellular Function (CRC 1218)</b>	2016	http://sfb1218.uni-koeln.de/20938.html
 Cologne	Universität zu Köln	<b>Integrated Research Training Group within: Molecular Mechanisms Regulating Skin Homeostasis (CRC 829)</b>	2008	www.sfb829.uni-koeln.de/integrated-research-training-group-molecular-mechanisms-regulating-skin-homeostasis
 Cologne	Universität zu Köln	<b>Integrated Research Training Group within: Cell-autonomous Immunity (CRC 670)</b>	2006	http://sfb670.uk-koeln.de/individual_projects/central-project-z5

## GRADUATE TRAINING







Location	Institution	Title	Funded Since	Contact
 Düsseldorf	Heinrich-Heine Universität Düsseldorf	Integrated Graduate School "MB Train" within: Identity and Dynamics of Membrane Systems - From Molecules to Cellular Functions (CRC 1208)	2015	<a href="http://www.sfb1208.hhu.de">www.sfb1208.hhu.de</a>
 Düsseldorf	Heinrich-Heine Universität Düsseldorf	Integrated Research Training Group within: Master Switches in Cardiac Ischemia (CRC 1116)	2014	<a href="http://www.sfb1116.hhu.de">www.sfb1116.hhu.de</a>
 Düsseldorf	Heinrich-Heine-Universität Düsseldorf	Integrated Research Training Group within: Liver Damage and Regeneration (CRC 974)	2011	<a href="http://www.uniklinik-duesseldorf.de/unternehmen/kliniken/klinik-fuer-gastroenterologie-hepatologie-und-infektiologie/sfb-974/graduierntenkolleg-974-DE">www.uniklinik-duesseldorf.de/unternehmen/kliniken/klinik-fuer-gastroenterologie-hepatologie-und-infektiologie/sfb-974/graduierntenkolleg-974-DE</a>
 Essen	Universität Duisburg-Essen	Integrated Graduate School within: Supramolecular Chemistry on Proteins (CRC 1093)	2013	<a href="http://www.uni-due.de/crc1093/en/graduate-school">www.uni-due.de/crc1093/en/graduate-school</a>
 Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	Integrated Research Training Group within: Checkpoints for Resolution of Inflammation (CRC 1181)	2015	<a href="http://www.sfb1181.forschung.fau.eu/integrated-research-training-group-2">www.sfb1181.forschung.fau.eu/integrated-research-training-group-2</a>
 Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	Integrated Research Training Group "Erlangen School of Molecular Communication" within: Reprogramming of Host Cells by Microbial Effectors (CRC 796)	2008	<a href="http://www.sfb796-gk.forschung.uni-erlangen.de">www.sfb796-gk.forschung.uni-erlangen.de</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	Integrated Research Training Group within: Molecular and Functional Characterization of Selective Autophagy (CRC 1177)	2015	<a href="http://www.sfb1177.de/education.html">www.sfb1177.de/education.html</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	Integrated Research Training Group within: Signalling by Fatty Acid Derivatives and Sphingolipids in Health and Disease (CRC 1039)	2013	<a href="http://www.lipidsignalling.de/en/kolleg">www.lipidsignalling.de/en/kolleg</a>

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	Integrated Research Training Group within: Molecular Principles of RNA-based Regulation (CRC 902)	2011	<a href="http://www.sfb902.de/integrated-research-training-group">www.sfb902.de/integrated-research-training-group</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	Integrated Research Training Unit "Vascular Biology and Medicine" within: Endothelial Signalling and Vascular Repair (CRC 834)	2009	<a href="http://www.sfb834.de/SFBEN/Graduate">www.sfb834.de/SFBEN/Graduate</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	Integrated Research Training Group within: Redox-Regulation: Generatorsystems and Functional Consequences (CRC 815)	2008	<a href="http://www.redox-sfb.de/english/graduierntenkolleg/graduierntenkolleg.php">www.redox-sfb.de/english/graduierntenkolleg/graduierntenkolleg.php</a>
 Frankfurt/Main	Johann Wolfgang Goethe-Universität Frankfurt am Main	Integrated Research Training Group TRAM (TRansport Across Membranes) within: Transport and Communication Across Biological Membranes (CRC 807)	2008	<a href="http://www.sfb807.de/mgk.html">www.sfb807.de/mgk.html</a>
 Freiburg	Albert-Ludwigs-Universität Freiburg	Integrated Research Training Group within: Medical Epigenetics (MEDEP) From Basic Mechanisms to Clinical Applications (CRC 992)	2012	<a href="http://www.sfb992.uni-freiburg.de/irtg">www.sfb992.uni-freiburg.de/irtg</a>
 Freiburg	Albert-Ludwigs-Universität Freiburg	Integrated Research Training Group within: Cell Motility in Morphogenesis, Cancer Invasion and Metastasis (CRC 850)	2009	<a href="http://www.sfb850.uni-freiburg.de/en/education/irtg-graduate-school">www.sfb850.uni-freiburg.de/en/education/irtg-graduate-school</a>
 Hamburg	Universität Hamburg	Integrated Research Training Group within: Immune-Mediated Glomerular Diseases - Basic Concepts and Clinical Implications (CRC 1192)	2015	<a href="http://www.sfb1192.de/research-training-group">www.sfb1192.de/research-training-group</a>
 Hamburg	Universität Hamburg	Integrated Research Training Group within: Liver Inflammation: Infection, Immune Regulation and Consequences (CRC 841)	2009	<a href="http://sfb841.de/deutsch/graduierntenkolleg/beschreibung.html-DE">http://sfb841.de/deutsch/graduierntenkolleg/beschreibung.html-DE</a>








## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Jena	Friedrich-Schiller-Universität Jena	Integrated Research Training Group within: AquaDiva: Understanding the Links between Surface and Subsurface Biogeosphere (CRC 1076)	2013	www.aquadiva.uni-jena.de/Graduate+school.html
 Kiel	Christian-Albrechts-Universität zu Kiel	Integrated Research Training Group Proteolysis and Pathophysiology within: Proteolysis as a Regulatory Event in Pathophysiology (CRC 877)	2010	www.uni-kiel.de/Biochemie/sfb877/irtg
 Leipzig	Universität Leipzig	Integrated Research Training Group within: Obesity Mechanisms (CRC 1052)	2012	www.sfb1052.de/index.php/en/irtg-obesity-mechanisms
 Magdeburg	Otto-von-Guericke-Universität Magdeburg	Integrated Research Training Group within: Molecular Organization of Cellular Communication in the Immune System (CRC 854)	2013	www.sfb854.de/en/MGK854.html
 Mainz	Johannes-Gutenberg-Universität Mainz	Graduate School within: Molecular and Cellular Mechanisms of Neural Homeostasis (CRC 1080)	2012	http://crc1080.com/graduate-school
 Marburg	Philipps-Universität Marburg	Graduate School within: Microbial Diversity in Environmental Signal Response (CRC 987)	2012	www.sfb987.de/index.php/homepage/graduate-school.html
 Munich	Ludwig-Maximilians-Universität München	Integrated Research Training Group within: Genetic and Epigenetic Evolution of Hematopoietic Neoplasms (CRC 1243)	2015	www.sfb1243.biologie.uni-muenchen.de/graduate-program
 Munich	Ludwig-Maximilians-Universität München	Integrated Research Training Group within: Atherosclerosis: Mechanisms and Networks of Novel Therapeutic Targets (CRC 1123)	2014	www.sfb1123.med.uni-muenchen.de
 Munich	Ludwig-Maximilians-Universität München	Integrated Research Training Group within: Chromatin Dynamics (CRC 1064)	2013	www.sfb1064.med.uni-muenchen.de/irtg
 Munich	Ludwig-Maximilians-Universität München	Graduate Program within: Control and Plasticity of Cell-Fate Decisions in the Immune System (CRC 1054)	2012	www.sfb1054.med.uni-muenchen.de/graduate_program

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Munich	Ludwig-Maximilians-Universität München	Graduate Program within: Trafficking of Immune Cells in Inflammation, Development and Disease (CRC 914)	2011	www.sfb914.med.uni-muenchen.de/graduate_program
 Osnabrück	Universität Osnabrück	Integrated Research Training Group within: Physiology and Dynamics of Cellular Microcompartments (CRC 944)	2010	www.biologie.uni-osnabrueck.de/sonderforschungsbereich/sfb_944_home/irtg.html
 Tübingen	Eberhard Karls Universität Tübingen	Integrated Research Training Group within: Immunotherapy: Molecular Basis and Clinical Application (CRC 685)	2005	www.sfb685.de/index.php?id=155
 Regensburg	Universität Regensburg	Graduate Research Academy RNA Biology within: Ribosome Formation: Principles of RNP Biogenesis and Control of their Function (CRC 960)	2011	http://graduate-academy.sfb960.de
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	Graduate College within: Principles and Applications of Adoptive T Cell Therapy (TRR 36)	2006	www.sfb-tr36.com
Munich	Ludwig-Maximilians-Universität München Technische Universität München			

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Braunschweig Oldenburg	Technische Universität Braunschweig  Carl von Ossietzky Universität Oldenburg	<b>Integrated Research Training Group “Von der Mikrobiellen Ökologie zur Systembiologie”</b> within: Ecology, Physiology and Molecular Biology of the Roseobacter Clade: Towards a Systems Biology Understanding of a Globally Important Clade of Marine Bacteria (TRR 51)	2009	<a href="http://www.roseobacter.de/structuredphdprogramme">www.roseobacter.de/structuredphdprogramme</a>
 Dresden Leipzig	Technische Universität Dresden Universität Leipzig	<b>Integrated Research Training Group “Matrixengineering”</b> within: Functional Biomaterials for Controlling Healing Processes in Bone and Skin - From Material Science to Clinical Application (TRR 67)	2009	<a href="http://research.uni-leipzig.de/trr67">http://research.uni-leipzig.de/trr67</a>
 Frankfurt/Main Heidelberg	Johann Wolfgang Goethe-Universität Frankfurt am Main Ruprecht-Karls-Universität Heidelberg	<b>Integrated Research Training Group “Vascular Cell Biology”</b> within: Vascular Differentiation and Remodeling (TRR 23)	2009	<a href="http://www.transregio23.de/Projects/graduates.html">www.transregio23.de/Projects/graduates.html</a>
 Freiburg Heidelberg  Munich	Albert-Ludwigs-Universität Freiburg Ruprecht-Karls-Universität Heidelberg Ludwig-Maximilians-Universität München Technische Universität München	<b>Integrated Research Training Group within: Determinants and Dynamics of Elimination versus Persistence of Hepatitis Virus Infection (TRR 179)</b>	2016	<a href="http://gepris.dfg.de/gepris/projekt/272983813">http://gepris.dfg.de/gepris/projekt/272983813</a>
 Gießen Marburg  Rotterdam (Netherlands)	Justus-Liebig-Universität Gießen Philipps-Universität Marburg Erasmus University Rotterdam Medical Center	<b>Integrated Research Training Group „Epigenetics and Chromatin”</b> within: Chromatin Changes in Differentiation and Malignancies (TRR 81)	2010	<a href="http://www.uni-giessen.de/cms/fbz/fb08/trr81/irtg">www.uni-giessen.de/cms/fbz/fb08/trr81/irtg</a>





# 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.

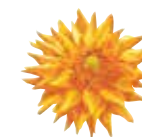
**International Max Planck Research Schools (IMPRS)** offer talented German and international junior scientists the opportunity to earn a doctorate under excellent research conditions. The research schools are established by one or several Max Planck Institutes. These IMPRS work in close cooperation 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
○ Teltow (Berlin)	Helmholtz Graduate School for Macromolecular Bioscience	http://macrobio.hzg.de
○ Braunschweig	The Helmholtz Graduate School for Infection Research (HZI Graduate School)	www.helmholtz-hzi.de/en/career/graduate_school
○ Hamburg	Partnership for Innovation, Education and Research Helmholtz Graduate School (PIER)	http://graduateschool.pier-campus.de/
○ Heidelberg	Helmholtz International Graduate School for Cancer Research	www.dkfz.de/en/phd-program
○ Karlsruhe	BioInterfaces International Graduate School (BIF-IGS)	www.bif-igs.kit.edu
○ Munich	Helmholtz Graduate School Environmental Health - HELENA	www.helmholtz-helena.de
LEIBNIZ GRADUATE SCHOOLS		
○ Berlin	Leibniz Graduate School for Molecular Biophysics (FMP)	www.fmp-berlin.de
○ Berlin	Leibniz Graduate School for Rheumatology (LGRh)	www.drfz.de/drfz-im-profil/lehre-und-ausbildung/lgrh
○ Gatersleben	Leibniz Graduate School for Yield Formation in Cereals	www.ipk-gatersleben.de/ipk-graduate-program/leibniz-graduierenschule
○ Hamburg	Leibniz Graduate School at the Leibniz Centre Infection (LCI) - (BNITM HPI, FZB)	www.lci-infection.de/lci-graduate-school.html
○ Jena	Leibniz Graduate School on Ageing and Age-Related Diseases (LGSA)	www.fli-leibniz.de/phd
○ Jena	International Leibniz Research School for Microbial and Biomolecular Interactions	www.ilrs.hki-jena.de
INTERNATIONAL MAX PLANCK RESEARCH SCHOOLS (IMPRS)		
○ Bad Nauheim	IMPRS for Heart and Lung Research	http://imprs.mpi-hlr.de
○ Berlin	IMPRS for Computational Biology and Scientific Computing	www.molgen.mpg.de/IMPRS
○ Berlin	IMPRS for Infectious Diseases and Immunology	www.mpiib-berlin.mpg.de/graduate_program
○ Cologne	IMPRS AGE	www.ageing-grad-school.de
○ Cologne	IMPRS on Understanding Complex Plant Traits Using Computational and Evolutionary Approaches	www.mpipz.mpg.de/imprs

GRADUATE TRAINING

Location	Title	Contact
○ Dortmund	IMPRS for Chemical Biology	<a href="http://www.imprs-cmb.mpg.de">www.imprs-cmb.mpg.de</a>
○ Dresden	IMPRS for Cell, Developmental and Systems Biology	<a href="http://www.imprs-celldevosys.de">www.imprs-celldevosys.de</a>
○ Frankfurt/Main	IMPRS for Neural Circuits	<a href="http://brain.mpg.de/graduate-studies.html">http://brain.mpg.de/graduate-studies.html</a>
○ Frankfurt/Main	IMPRS on Structure and Function of Biological Membranes	<a href="http://www.biophys.mpg.de/de/imprs.html">www.biophys.mpg.de/de/imprs.html</a>
○ Freiburg	IMPRS for Molecular and Cellular Biology	<a href="http://www.ie-freiburg.mpg.de/IMPRS-PhD-Program">www.ie-freiburg.mpg.de/IMPRS-PhD-Program</a>
○ Göttingen	IMPRS for Molecular Biology	<a href="http://www.gpmolbio.uni-goettingen.de">www.gpmolbio.uni-goettingen.de</a>
○ Jena	IMPRS Exploration of Ecological Interactions with Molecular and Chemical Techniques	<a href="http://imprs.ice.mpg.de/ext">http://imprs.ice.mpg.de/ext</a>
○ Marburg	IMPRS for Environmental, Cellular and Molecular Microbiology	<a href="http://www.imprs-microbiology.mpg.de">www.imprs-microbiology.mpg.de</a>
○ Martinsried (Munich)	IMPRS for Molecular and Cellular Life Sciences	<a href="http://www.imprs-ls.de">www.imprs-ls.de</a>
○ Münster	IMPRS - Molecular Biomedicine <i>in Cooperation with the Integrated Graduate Program of the Cluster of Excellence Cells in Motion (CiM)</i>	<a href="http://www.imprs-mbm-cedad.mpg.de">www.imprs-mbm-cedad.mpg.de</a>
○ Potsdam - Golm	IMPRS "Primary Metabolism and Plant Growth"	<a href="http://www.mpimp-golm.mpg.de/IMPRS-PhD">www.mpimp-golm.mpg.de/IMPRS-PhD</a>
○ Tübingen	IMPRS From Molecules to Organisms	<a href="http://www.imprs.tuebingen.mpg.de">www.imprs.tuebingen.mpg.de</a>



## **SOCIETIES AND ASSOCIATIONS**

### IN GERMANY

Association for General and Applied Microbiology (VAAM): [www.vaam.de](http://www.vaam.de) (DE)

German Bunsen Society for Physical Chemistry (DBG): [www.bunsen.de](http://www.bunsen.de)

German Catalysis Society (GeCatS): [www.gecats.de](http://www.gecats.de)

German Chemical Society (GDCh): [www.gdch.de](http://www.gdch.de)

German Society for Hygiene and Microbiology (DGHM): [www.dghm.org](http://www.dghm.org)

German Society for Parasitology (DGP): [www.dgparasitologie.de](http://www.dgparasitologie.de) (DE)

IVAM Microtechnology Network (IVAM): [www.ivam.de](http://www.ivam.de)

Society for Biochemistry and Molecular Biology (GBM): [www.gbm-online.de/gbm.html](http://www.gbm-online.de/gbm.html)

Society for Chemical Engineering and Biotechnology (DECHEMA): [www.dechema.de](http://www.dechema.de)

The Colloid Society: [www.kolloid-gesellschaft.de](http://www.kolloid-gesellschaft.de)

Verband der Chemischen Industrie e.V. (VCI): [www.vci.de](http://www.vci.de)

## **OPEN POSITIONS**

Research in Germany: [www.research-in-germany.org/jobs](http://www.research-in-germany.org/jobs)

Fraunhofer Society: [www.fraunhofer.de/en/jobs-career](http://www.fraunhofer.de/en/jobs-career)

Helmholtz Association: [www.helmholtz.de/en/jobs\\_talent](http://www.helmholtz.de/en/jobs_talent)

Leibniz Society: [www.leibniz-gemeinschaft.de/en/careers](http://www.leibniz-gemeinschaft.de/en/careers)

Max Planck Society: [www.mpg.de/jobboard](http://www.mpg.de/jobboard)

## FURTHER INFORMATION

### RESEARCH INSTITUTIONS, PROJECTS, FUNDING, CONTACTS



**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](http://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](http://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](http://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](http://www.hochschulkompass.de/en/higher-education-compass)





## Contact

German Research Foundation (DFG)  
DFG Head Office Germany  
[www.dfg.de](http://www.dfg.de)  
[researchmarketing@dfg.de](mailto:researchmarketing@dfg.de)

**DFG** Deutsche  
Forschungsgemeinschaft