



# Research in Germany

NEUROSCIENCES



AN INITIATIVE OF THE

Federal Ministry  
of Education  
and Research

Research in  
Germany



Land of Ideas

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



# Research in Germany



## **Imprint**

Published by: German Research Foundation (DFG), Bonn, Germany

Editor: Vera Pfister

Assistance: Sonja Schaffartzik

Contact: [researchmarketing@dfg.de](mailto:researchmarketing@dfg.de)

Sources: DFG, Fraunhofer Society, Helmholtz Association, Leibniz Association,  
Max Planck Society

Graphic Design: KLINKEBIEL GmbH Kommunikationsdesign, [www.klinkebiel.com](http://www.klinkebiel.com)

Printed by: DCM Druckcenter Meckenheim GmbH, [www.druckcenter.de](http://www.druckcenter.de)

Photo Credits: Fotolia.com © adimas

© DFG, September 2016

This publication was funded by the German Federal Ministry of Education and  
Research.

## NEUROSCIENCES

## PREFACE

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

Neuroscience 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 neuroscience 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 neurosciences.

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 neurosciences. 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 GEPRIIS that provides an overview of all DFG funded research projects. You will also find additional important links for further information about profiles of German universities, research institutions and funding.

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

# OVERVIEW



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

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 13 and 17.

# 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				
 Berlin	Charité - Universitätsmedizin Berlin	<b>NeuroCure - Towards a Better Outcome of Neurological Disorders (EXC 257)</b>	2007	<a href="http://www.neurocure.de/en">www.neurocure.de/ en</a>
 Bonn	Universitätsklinikum Bonn	<b>ImmunoSensation: The Immune Sensory System (EXC 1023)</b>	2012	<a href="http://www.immunosensation.de">www. immunosensation.de</a>
 Freiburg	Albert-Ludwigs- Universität Freiburg	<b>BrainLinks - BrainTools (EXC 1086)</b>	2012	<a href="http://www.brainlinks-braintools.uni-freiburg.de">www.brainlinks- braintools.uni-freiburg. de</a>
 Göttingen	Georg-August- Universität Göttingen	<b>Nanoscale Microscopy and Molecular Physiology of the Brain (EXC 171)</b>	2006	<a href="http://www.cmpb.uni-goettingen.de">www.cmpb.uni- goettingen.de</a>
 Hannover Oldenburg	Leibniz Universität Hannover Carl von Ossietzky Universität Oldenburg	<b>Hearing4all: Models, Technology and Solutions for Diagnostics, Restoration and Support of Hearing (EXC 1077)</b>	2012	<a href="http://hearing4all.eu/EN">http://hearing4all. eu/EN</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>
 Tübingen	Eberhard Karls Universität Tübingen	<b>Werner Reichardt Centre for Integrative Neuroscience (CIN) (EXC 307)</b>	2007	<a href="http://www.cin.uni-tuebingen.de">www.cin.uni- tuebingen.de</a>
COLLABORATIVE RESEARCH CENTRES				
 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>
 Bochum	Ruhr-Universität Bochum	<b>Integration and Representation of Sensory Processes (CRC 874)</b>	2010	<a href="http://www.ruhr-uni-bochum.de/sfb874">www.ruhr-uni- bochum.de/sfb874</a>
 Bonn	Rheinische Friedrich- Wilhelms-Universität Bonn	<b>Synaptic Micronetworks in Health and Disease (CRC 1089)</b>	2013	<a href="http://sfb1089.de">http://sfb1089.de</a>
 Dresden	Technische Universität Dresden	<b>Volition and Cognitive Control: Mechanisms, Modulators and Dysfunctions (CRC 940)</b>	2012	<a href="http://www.sfb940.de/en">www.sfb940.de/en</a>
 Göttingen	Georg-August- Universität Göttingen	<b>Cellular Mechanisms of Sensory Processing (CRC 889)</b>	2010	<a href="http://www.sfb889.uni-goettingen.de">www.sfb889.uni- goettingen.de</a>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Hamburg	Universität Hamburg	<b>Multi-Site Communication in the Brain (CRC 936)</b>	2011	<a href="http://www.sfb936.net">www.sfb936.net</a>
Heidelberg	Ruprecht-Karls-Universität Heidelberg	<b>From Nociception to Chronic Pain: Structure-Function Properties of Neural Pathways and their Reorganisation (CRC 1158)</b>	2015	<a href="http://www.sfb1158.de">www.sfb1158.de</a>
Heidelberg	Ruprecht-Karls-Universität Heidelberg	<b>Functional Ensembles: Cellular Components, Patterned Activity and Plasticity of Co-Active Neurons in Local Networks (CRC 1134)</b>	2014	<a href="http://sfb1134.uni-heidelberg.de">http://sfb1134.uni-heidelberg.de</a>
Magdeburg	Otto-von-Guericke-Universität Magdeburg	<b>Neurobiology of Motivated Behavior (CRC 779)</b>	2007	<a href="http://www.sfb779.de">www.sfb779.de</a>
Mainz	Johannes Gutenberg-Universität Mainz	<b>Molecular and Cellular Mechanisms of Neural Homeostasis (CRC 1080)</b>	2012	<a href="http://crc1080.com">http://crc1080.com</a>
Munich	Ludwig-Maximilians-Universität München	<b>Assembly and Function of Neuronal Circuits in Sensory Processing (CRC 870)</b>	2009	<a href="http://www.sfb870.mcn.uni-muenchen.de">www.sfb870.mcn.uni-muenchen.de</a>
Saarbrücken	Universität des Saarlandes	<b>Ca2+Signaling: Molecular Mechanisms und Integrative Functions (CRC 894)</b>	2010	<a href="http://sfb894.uni-saarland.de/en">http://sfb894.uni-saarland.de/en</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">www.sfb1047.uni-wuerzburg.de</a>
<b>COLLABORATIVE RESEARCH CENTRES/TRANSREGIOS</b>				
Cologne Hamburg Lübeck	Universität zu Köln Universität Hamburg Universität Lübeck	<b>Ingestive Behaviour: Homeostasis and Reward (TRR 134)</b>	2013	<a href="http://sfb134.de/en">http://sfb134.de/en</a>
Gießen Marburg	Justus-Liebig-Universität Gießen Phillips-Universität Marburg	<b>Cardinal Mechanisms of Perception: Prediction, Valuation, Categorisation (TRR 135)</b>	2013	<a href="http://www.allpsych.uni-giessen.de/sfb">www.allpsych.uni-giessen.de/sfb</a>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Frankfurt/ Main Mainz Münster Munich	Johann Wolfgang Goethe-Universität Frankfurt am Main Johannes Gutenberg-Universität Mainz Westfälische Wilhelms-Universität Münster Ludwig-Maximilians-Universität München Technische Universität München	<b>Initiating/Effector versus Regulatory Mechanisms in Multiple Sclerosis - Progress towards Tackling the Disease (TRR 128)</b>	2012	<a href="http://www.sfbtr128.de">www.sfbtr128.de</a>
Hamburg Münster Würzburg	Universität Hamburg Westfälische Wilhelms-Universität Münster Julius-Maximilians-Universität Würzburg	<b>Fear, Anxiety, Anxiety Disorders (TRR 58)</b>	2008	<a href="http://sfbtrr58.uni-muenster.de">http://sfbtrr58.uni-muenster.de</a>
Hamburg Beijing (China)	Universität Hamburg Tsinghua University	<b>Crossmodal Learning: Adaptivity, Prediction and Interaction (TRR 169)</b>	2015	<a href="http://www.crossmodal-learning.org">www.crossmodal-learning.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.

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
<b>Interactions at the Neurovascular Interface (FOR 2325)</b> Subprojects mainly located in: Münster	2015	<a href="http://gepris.dfg.de/gepris/projekt/269353708">http://gepris.dfg.de/gepris/projekt/269353708</a>
<b>Active Perception (FOR 2293)</b> Subprojects mainly located in: Munich	2015	<a href="http://gepris.dfg.de/gepris/projekt/263727500">http://gepris.dfg.de/gepris/projekt/263727500</a>
<b>Calcium Homeostasis in Neuroinflammation and -degeneration: New Targets for Therapy of Multiple Sclerosis? (FOR 2289)</b> Subprojects mainly located in: Heidelberg	2015	<a href="http://www.for2289.de">www.for2289.de</a>
<b>Crossing the Borders: The Interplay of Language, Cognition, and the Brain in Early Human Development (FOR 2253)</b>	2015	<a href="http://gepris.dfg.de/gepris/projekt/258522519">http://gepris.dfg.de/gepris/projekt/258522519</a>
<b>(Lymph)Angiogenesis And Cellular Immunity in Inflammatory Diseases of the Eye (FOR 2240)</b> Subprojects mainly located in: Cologne	2014	<a href="http://www.for2240.de">www.for2240.de</a>
<b>Interneuron Synaptic Plasticity - From Mechanisms to Functions (FOR 2143)</b> Subprojects mainly located in: Freiburg	2014	<a href="http://www.for2143.uni-freiburg.de">www.for2143.uni-freiburg.de</a>
<b>Neurobiology of Affective Disorders: A Translational Perspective on Brain Structure and Function (FOR 2107)</b>	2014	<a href="http://www.for2107.de">www.for2107.de</a>
<b>The Physiology of Distributed Computing Underlying Higher Brain Functions in Non-Human Primates (FOR 1847)</b>	2013	<a href="http://www.dpz.eu/dfg_for1847">www.dpz.eu/dfg_for1847</a>
<b>Learning &amp; Habitization as Predictors of the Development &amp; Maintenance of Alcoholism (FOR 1617)</b> Subprojects mainly located in: Berlin	2011	<a href="http://www.lead-studie.de">www.lead-studie.de</a> (DE)
<b>Extinction Learning: Behavioural, Neural and Clinical Mechanisms (FOR 1581)</b> Subprojects mainly located in: Bochum	2010	<a href="http://www.ruhr-uni-bochum.de/for1581">www.ruhr-uni-bochum.de/for1581</a>
<b>Physiological Functions of the APP Gene Family in the Central Nervous System (FOR 1332)</b> Subprojects mainly located in: Heidelberg	2010	<a href="http://www.uni-heidelberg.de/app-function">www.uni-heidelberg.de/app-function</a>
<b>Expectation and Conditioning as Basic Processes of the Placebo and Nocebo Response (FOR 1328)</b>	2010	<a href="http://placeboforschung.de/en/dfg-research-unit">http://placeboforschung.de/en/dfg-research-unit</a>
<b>Barrel Cortex Function (FOR 1341)</b>	2009	<a href="http://www.bacofun.medicin.uni-mainz.de">www.bacofun.medicin.uni-mainz.de</a>





# 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
 Berlin	Charité - Universitätsmedizin Berlin	Deep Brain Stimulation. Mechanisms of Action, Cortex-Basal Ganglia- Physiology and Therapy Optimization (KFO 247)	2010	<a href="http://www.kfo247.de/en">www.kfo247.de/en</a>
 Cologne	Universität zu Köln	Basal-Ganglia-Cortex-Loops: Mechanisms of Pathological Interactions and Their Therapeutic Modulation (KFO 219)	2009	<a href="http://neurologie-psychiatrie.uk-koeln.de/neurologie/forschung/assoziierte-projekte2/klinische-forschergruppe-219-dfg">http://neurologie-psychiatrie.uk-koeln.de/neurologie/forschung/assoziierte-projekte2/klinische-forschergruppe-219-dfg</a>
 Göttingen	Georg-August- Universität Göttingen	Genotype-Phenotype Relationships of the Longitudinal Course of Psychosis (KFO 241)	2011	<a href="http://www.kfo241.de">www.kfo241.de</a>
 Mannheim	Zentralinstitut für seelische Gesundheit	Mechanisms of Disturbed Emotion Processing in Borderline Personality Disorder (KFO 256)	2011	<a href="http://www.kfo256.de">www.kfo256.de</a>





# 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 From	Contact
Computational Connectomics (SPP 2041)	2017	tba
Title	Funded Since	Contact
Functional Specializations of Neuroglia as Critical Determinants of Brain Activity (SPP 1757)	2014	<a href="http://www.glia-network.de">www.glia-network.de</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>
Resolving and Manipulating Neuronal Networks in the Mammalian Brain - From Correlative to Causal Analysis (SPP 1665)	2013	<a href="http://www.spp1665.de">www.spp1665.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>



# 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, 67 institutes and more than 24,000 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 - more than 1,100 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)

## NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
FRAUNHOFER INSTITUTES		
● Aachen	Fraunhofer Institute for Molecular Biology and Applied Ecology (IME)	<a href="http://www.ime.fraunhofer.de/en">www.ime.fraunhofer.de/en</a>
● Berlin	Fraunhofer Institute for Reliability and Microintegration (IZM)	<a href="http://www.izm.fraunhofer.de/en">www.izm.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>
● St. Augustin	Fraunhofer Institute for Algorithms and Scientific Computing (SCAI)	<a href="http://www.scai.fraunhofer.de/en">www.scai.fraunhofer.de/en</a>
● St. Ingbert	Fraunhofer Institute for Biomedical Techniques (IBMT)	<a href="http://www.ibmt.fraunhofer.de/en">www.ibmt.fraunhofer.de/en</a>
HELMHOLTZ CENTRES		
● Berlin-Buch	Max Delbrück Center for Molecular Medicine (MDC)	<a href="http://www.mdc-berlin.de/en">www.mdc-berlin.de/en</a>
● Berlin Bonn Dresden Göttingen Magdeburg Munich Rostock/ Greifswald Tübingen Witten	German Center for Neurodegenerative Diseases (DZNE)	<a href="http://www.dzne.de/en">www.dzne.de/en</a>
● Cologne	German Aerospace Center DLR Cologne	<a href="http://www.dlr.de/dlr/en">www.dlr.de/dlr/en</a>
● Dresden	Helmholtz Zentrum Dresden/Rossendorf (HZDR)	<a href="http://www.hzdr.de">www.hzdr.de</a>
● Heidelberg	German Cancer Research Center (DKFZ)	<a href="http://www.dkfz.de/en">www.dkfz.de/en</a>
● Jülich	Forschungszentrum Jülich	<a href="http://www.fz-juelich.de/portal/EN">www.fz-juelich.de/portal/EN</a>
● Karlsruhe	Karlsruher Institut für Technologie (KIT)	<a href="http://www.kit.edu/english">www.kit.edu/english</a>
● Munich	Helmholtz Zentrum München - German Research Center for Environmental Health	<a href="http://www.helmholtz-muenchen.de/en">www.helmholtz-muenchen.de/en</a>
LEIBNIZ INSTITUTES		
● Borstel	Research Center Borstel Leibniz-Center for Medicine and Biosciences (FZB)	<a href="http://www.fz-borstel.de/cms/en/science">www.fz-borstel.de/cms/en/science</a>
● Berlin	Leibniz Institute for Molecular Pharmacology (FMP)	<a href="http://www.fmp-berlin.de">www.fmp-berlin.de</a>
● Dortmund	Leibniz Research Centre of Working Environment and Human Factors (IfaDo)	<a href="http://www.ifado.de/en">www.ifado.de/en</a>

NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
● Göttingen	German Primate Center (DPZ) - Leibniz Institute for Primate Research	www.dpz.eu/en
● Jena	Leibniz Institute for Age-Research - Fritz Lipmann Institut e.V. (FLI)	www.leibniz-flj.de
● Magdeburg	Leibniz Institute for Neurobiology (LIN)	www.ifn-magdeburg.de
MAX-PLANCK-INSTITUTES		
● Cologne	Max Planck Institute for Neurological Research	www.nf.mpg.de
● Dresden	Max Planck Institute of Molecular Cell Biology and Genetics (CBG)	www.mpi-cbg.de/en
● Frankfurt/Main	Max Planck Institute for Brain Research	www.brain.mpg.de
● Frankfurt/Main	Ernst Strüngmann Institute (ESI) gGmbH	www.esi-frankfurt.de
● Göttingen	Max Planck Institute for Biophysical Chemistry (MPIpbc)	www.mpibpc.mpg.de
● Göttingen	Max Planck Institute for Dynamics and Self-Organization	www.ds.mpg.de/en
● Göttingen	Max Planck Institute for Experimental Medicine	www.em.mpg.de
● Jena	Max Planck Institute for Chemical Ecology	www.ice.mpg.de
● Leipzig	Max Planck Institute for Human Cognitive and Brain Sciences	www.cbs.mpg.de/en
● Martinsried (Munich)	Max Planck Institute of Neurobiology	www.neuro.mpg.de
● Munich	Max Planck Institute of Psychiatry	www.mpipsykl.mpg.de/en
● Seewiesen	Max Planck Institute for Ornithology	www.orn.mpg.de/en
● Tübingen	Max Planck Institute for Biological Cybernetics	www.kyb.tuebingen.mpg.de
● Tübingen	Max Planck Institute for Developmental Biology	www.eb.tuebingen.mpg.de
OTHERS		
● Berlin Freiburg Göttingen Heidelberg/ Mannheim Munich Tübingen	Bernstein Network Computational Neuroscience	www.nncn.de
● Frankfurt/Main	Frankfurt Institute for Advanced Studies (FIAS)	http://fias.uni-frankfurt.de/en
● Göttingen	European Neuroscience Institute Göttingen (ENI-G)	www.eni.gwdg.de

NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
● Göttingen	Center for Systems Neuroscience (CSN)	www.znv.de
● Hamburg	Center for Molecular Neurobiology Hamburg	www.zmnh.uni-hamburg.de
● Mannheim	Central Institute of Mental Health	www.zi-mannheim.de
● Tübingen	Hertie Institute for Clinical Brain Research	www.hih-tuebingen.de



# 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	Humboldt-Universität zu Berlin	Berlin School of Mind and Brain (GSC 86)	2006	www.mind-and-brain.de
 Göttingen	Georg-August-Universität Göttingen	Göttingen Graduate School for Neurosciences, Biophysics, and Molecular Biosciences (GGNB) (GSC 226)	2007	www.ggnb.uni-goettingen.de
 Munich	Ludwig-Maximilians-Universität München	Graduate School of Systemic Neurosciences (GSC 82)	2006	www.gsn.uni-muenchen.de
RESEARCH TRAINING GROUPS				
 Berlin	Technische Universität Berlin	Sensory Computation in Neural Systems (RTG 1589)	2009	www.eecs.tu-berlin.de/grk_15891/
 Cologne	Universität zu Köln	Neural Circuit Analysis on the Cellular and Subcellular Level (RTG 1960)	2014	http://rtg-nca.uni-koeln.de
 Erlangen-Nuremberg	Friedrich-Alexander-Universität Erlangen-Nürnberg	Neurodevelopment and Vulnerability of the Central Nervous System (RTG 2162)	2015	www.grk2162.med.fau.de
 Munich	Ludwig-Maximilians-Universität München	Perception in Context and its Neural Basis (RTG 2175)	2016	http://gepris.dfg.de/gepris/projekt/274219368
 Oldenburg	Carl von Ossietzky Universität Oldenburg	Molecular Basis of Sensory Biology (RTG 1885)	2012	www.uni-oldenburg.de/en/sensorybio
INTERNATIONAL RESEARCH TRAINING GROUPS				
 Aachen	Rheinisch-Westfälische Technische Hochschule Aachen	The Neuroscience of Modulating Aggression and Impulsivity in Psychopathology (IRTG 2150)	2015	www.irtg2150.rwth-aachen.de
Philadelphia (USA)	University of Pennsylvania			
 Gießen/Marburg	Universitätsklinikum Gießen und Marburg	The Brain in Action (IRTG 1901)	2012	www.irtg-brainact.de
Kingston (Canada)	Queens University			
London (Canada)	Western University			
Toronto (Canada)	York University			

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Saarbrücken Beijing (China)	Universität des Saarlandes Chinese Academy of Sciences	<b>Adaptive Minds: Neural and Environmental Constraints on Learning and Memory (IRTG 1457)</b>	2007	<a href="http://www.adaptiveminds.de">www.adaptiveminds.de</a>
INTEGRATED RESEARCH TRAINING GROUPS IN CLUSTERS OF EXCELLENCE				
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>International Immunology Training Program Bonn (IITB) (EXC 1023, ImmunoSensation)</b>	2012	<a href="http://www.immunosensation.de">www.immunosensation.de</a>
 Hannover Oldenburg	Leibniz Universität Hannover Carl von Ossietzky Universität Oldenburg	<b>Joint Research Academy in Biomedical Engineering and Science of Hearing and Sensory Systems (JRA) (EXC 1077, Hearing4all)</b>	2012	<a href="http://hearing4all.eu/EN/Career">http://hearing4all.eu/EN/Career</a>
 Tübingen	Eberhard Karls Universität Tübingen	<b>Graduate Training Centre of Neuroscience (EXC 307, CIN)</b>	2007	<a href="http://www.neuroschool-tuebingen.de">www.neuroschool-tuebingen.de</a>
INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES				
 Berlin	Freie Universität Berlin	<b>Research Training Group within: Scaffolding of Membranes – Molecular Mechanisms and Cellular Functions (CRC 958)</b>	2011	<a href="http://www.sfb958.de/graduierntenkolleg">www.sfb958.de/graduierntenkolleg</a>
 Bochum	Ruhr-Universität Bochum	<b>Integrated Research Training Group within: Integration and Representation of Sensory Processes (CRC 874)</b>	2010	<a href="http://www.ruhr-uni-bochum.de/sfb874/integrated_research_training_group/irtg.html">www.ruhr-uni-bochum.de/sfb874/integrated_research_training_group/irtg.html</a>
 Bonn	Rheinische Friedrich-Wilhelms Universität Bonn	<b>MGK – Integrated Research Training Group Synaptic Microcircuits within: Synaptic Micronetworks in Health and Disease (CRC 1089)</b>	2013	<a href="http://sfb1089.de">http://sfb1089.de</a>
 Dresden	Technische Universität Dresden	<b>Integrated Research Training Group within: Volition and Cognitive Control: Mechanisms, Modulators and Dysfunctions (CRC 940)</b>	2012	<a href="http://www.sfb940.de/en">www.sfb940.de/en</a>
 Hamburg	Universität Hamburg	<b>Graduate Programme within: Multi-Site Communication in the Brain (CRC 936)</b>	2011	<a href="http://www.sfb936.net/index.php/graduate-programme">www.sfb936.net/index.php/graduate-programme</a>
 Magdeburg	Otto-von-Guericke-Universität Magdeburg	<b>Graduate School within: Neurobiology of Motivated Behavior (CRC 779)</b>	2011	<a href="http://www.sfb779.de/en/graduierntenkolleg.html">www.sfb779.de/en/graduierntenkolleg.html</a>

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Mainz	Johannes Gutenberg-Universität Mainz	<b>Graduate School within: Molecular and Cellular Mechanisms of Neural Homoeostasis (CRC 1080)</b>	2012	<a href="https://crc1080.com/graduate-school">https://crc1080.com/graduate-school</a>
INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES/ TRANSREGIOS				
 Hamburg Beijing (China)	Universität Hamburg Tsinghua University	<b>International Research Training Group within: Crossmodal Learning: Adaptivity, Prediction and Interaction (TRR 169)</b>	2015	<a href="http://gepris.dfg.de/gepris/projekt/261402652">http://gepris.dfg.de/gepris/projekt/261402652</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
○ 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		
○ Göttingen	Leibniz Graduate School for Emerging Infectious Diseases (EIDIS)	www.dpz.eu/en/career
○ Jena	Leibniz Graduate School on Ageing and Age-Related Diseases (LGSA)	http://lgsa.leibnizfli.de/
○ Magdeburg	Leibniz Graduate School SynaptoGenetics	www.lgs-synaptogenetics.de
INTERNATIONAL MAX PLANCK RESEARCH SCHOOLS (IMPRS)		
○ Dresden	IMPRS for Cell, Developmental and Systems Biology	www.imprs-celldevoSYS.de
○ Frankfurt/Main	IMPRS for Neural Circuits	http://brain.mpg.de/graduate-studies.html
○ Göttingen	IMPRS for Molecular Biology	www.gpmolbio.uni-goettingen.de
○ Göttingen	IMPRS for Neurosciences	www.gpneuro.uni-goettingen.de
○ Göttingen	IMPRS for Physics of Biological and Complex Systems	www.uni-goettingen.de/en/58718.html
○ Jena	IMPRS Exploration of Ecological Interactions with Molecular and Chemical Techniques	http://imprs.ice.mpg.de
○ Konstanz	IMPRS for Organismal Biology	www.orn.mpg.de/2453/Short_portrait
○ Leipzig	IMPRS NeuroCom	http://imprs-neurocom.mpg.de
○ Martinsried (Munich)	IMPRS for Molecular and Cellular Life Sciences	https://imprs-ls.open-campus.net
○ Tübingen	IMPRS for Cognitive and Systems Neuroscience	www.neuroschool-tuebingen.de
○ Tübingen	IMPRS From Molecules to Organisms	www.imprs.tuebingen.mpg.de

## SOCIETIES AND ASSOCIATIONS

### IN GERMANY

Deutsche Gesellschaft für Biologische Psychiatrie (DGBP): [www.dgbp.eu](http://www.dgbp.eu) (DE)

Deutsche Gesellschaft für Neurochirurgie (DGNC): [www.dgnc.de](http://www.dgnc.de) (DE)

Deutsche Gesellschaft für Neurologie e.V. (DGN): [www.dgn.org](http://www.dgn.org) (DE)

Deutsche Gesellschaft für Neuroradiologie e.V.(DGNR): [www.dgnr.org](http://www.dgnr.org) (DE)

Deutsche Gesellschaft für Psychologie (DGPs): [www.dgps.de](http://www.dgps.de)

German Association for Psychiatry, Psychotherapy and Psychosomatics (DGPPN):  
[www.dgppn.de](http://www.dgppn.de)

German Neuroscience Society (GNS): <http://nwg.glia.mdc-berlin.de/en>

German Society for Developmental Biology (GfE): [www.vbio.de/der\\_vbio/fachgesellschaften/gfe\\_entwicklungsbiologie](http://www.vbio.de/der_vbio/fachgesellschaften/gfe_entwicklungsbiologie)

German Society of Neurogenetics (DGNG): [www.dgng.de](http://www.dgng.de)

German Society of Neuropathology and Neuroanatomy (DGNN): [www.dgnn.de](http://www.dgnn.de)

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

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