



# Research in Germany

NEUROSCIENCES

AN INITIATIVE OF THE



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of Education  
and Research

Research in  
Germany



Land of Ideas



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## **Imprint**

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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.

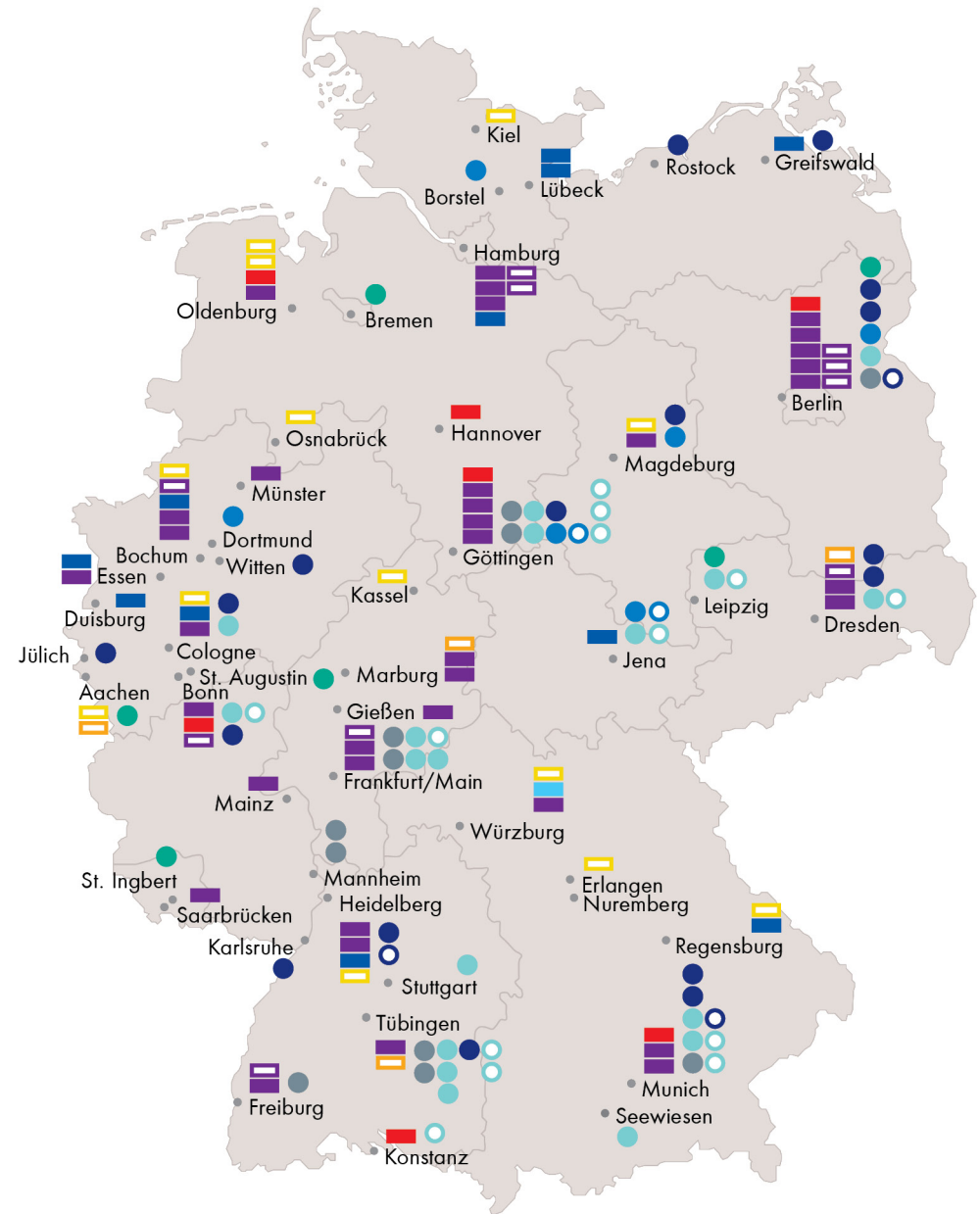
Neuroscience research in Germany is primarily conducted at universities but also at non-university research institutions. Almost all universities and many universities of applied sciences host a neuroscience research section. The spectrum ranges from small monothematic working groups to large interdisciplinary 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



 Research Training Groups	 Helmholtz Graduate Schools
 International Research Training Groups	 Leibniz Graduate Schools
 Integrated Research Training Groups in Collaborative Research Centres/Transregios	 International Max Planck Research Schools
 Clinical Research Units	 Fraunhofer Institutes
 Research Units	 Helmholtz Centres
 Clusters of Excellence	 Leibniz Institutes
 Collaborative Research Centres/Transregios	 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 14, 15 and 19. The map shows the headquarters of the non-university research institutions.

# CENTRES OF RESEARCH

- FUNDED BY DFG -

**Clusters of Excellence (EXC)** promote cutting-edge research. They serve to strengthen the research profiles of universities or university consortia in internationally competitive fields. They create excellent training and career opportunities for early career researchers. Within the framework of the Excellence Strategy, they can receive between €3 million and €10 million annually and are funded for seven years, starting in 2019. A second seven-year period is possible.

**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	Freie Universität Berlin Humboldt-Universität zu Berlin	<b>NeuroCure – Comprehensive Approaches to Neurological and Psychiatric Disorders – From Mechanisms to Interventions (EXC 2049)</b>	2019	<a href="http://www.neurocure.de">www.neurocure.de</a>
 Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>ImmunoSensation2 – The Immune Sensory System (EXC 2151)</b>	2019	<a href="http://www.immunosensation.de">www.immunosensation.de</a>
 Göttingen	Georg-August-Universität Göttingen	<b>Multiscale Bioimaging: From Molecular Machines to Networks of Excitable Cells (EXC 2067)</b>	2019	<a href="http://www.mbexc.de">www.mbexc.de</a>
 Hannover	Leibniz Universität Hannover Medizinische Hochschule Hannover	<b>Hearing4all: Medicine, Basic Research and Engineering Solutions for Personalized Hearing Care (H4A 2.0) (EXC 2177)</b>	2019	<a href="http://www.hearing4all.de">www.hearing4all.de</a>
Oldenburg	Carl von Ossietzky Universität Oldenburg			
 Konstanz	Universität Konstanz	<b>Centre for the Advanced Study of Collective Behaviour (EXC 2117)</b>	2019	<a href="http://www.collectivebehaviour.com">www.collectivebehaviour.com</a>
 Munich	Ludwig-Maximilians-Universität München Technische Universität München	<b>Munich Cluster for Systems Neurology (SyNergy) (EXC 2145)</b>	2019	<a href="http://www.synergy-munich.de">www.synergy-munich.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>
 Berlin	Humboldt-Universität zu Berlin	<b>Mechanisms and Disturbances in Memory Consolidation: From Synapses to Systems (CRC 1315)</b>	2018	<a href="http://www.sfb1315.de">www.sfb1315.de</a>
 Bochum	Ruhr-Universität Bochum	<b>Extinction Learning (CRC 1280)</b>	2017	<a href="http://www.sfb1280.ruhr-uni-bochum.de">www.sfb1280.ruhr-uni-bochum.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>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>Synaptic Micronetworks in Health and Disease (CRC 1089)</b>	2013	www.sfb1089.de
Cologne	Universität zu Köln	<b>Key Mechanisms of Motor Control in Health and Disease (CRC 1451)</b>	2021	www.crc1451.uni-koeln.de
Dresden	Technische Universität Dresden	<b>Volition and Cognitive Control: Mechanisms, Modulators and Dysfunctions (CRC 940)</b>	2012	www.tu-dresden.de/sfb940
Göttingen	Georg-August-Universität Göttingen	<b>Cognition of Interaction (CRC 1528)</b>	2022	www.uni-goettingen.de/de/652672
Göttingen	Georg-August-Universität Göttingen	<b>Cellular Mechanisms of Sensory Processing (CRC 889)</b>	2010	www.sfb889.uni-goettingen.de
Göttingen	Georg-August-Universität Göttingen	<b>Quantitative Synaptology (CRC 1286)</b>	2017	www.sfb1286.de
Hamburg	Universität Hamburg	<b>Multi-Site Communication in the Brain (CRC 936)</b>	2011	www.sfb936.net
Frankfurt/Main	Goethe-Universität Frankfurt am Main	<b>Molecular and Cellular Mechanisms of Neural Homeostasis (CRC 1080)</b>	2012	www.crc1080.com
Heidelberg	Ruprecht-Karls-Universität Heidelberg	<b>From Nociception to Chronic Pain: Structure-Function Properties of Neural Pathways and their Reorganisation (CRC 1158)</b>	2015	www.sfb1158.de
Magdeburg	Otto-von-Guericke-Universität Magdeburg	<b>Neural Resources of Cognition (CRC 1436)</b>	2021	www.iknd.ovgu.de/en/SFB+1436.html
Oldenburg	Carl von Ossietzky Universität Oldenburg	<b>Magnetoreception and Navigation in Vertebrates: from Biophysics to Brain and Behaviour (CRC 1372)</b>	2019	www.sfb1372.de
Saarbrücken	Universität des Saarlandes	<b>Ca<sup>2+</sup>Signaling: Molecular Mechanisms und Integrative Functions (CRC 894)</b>	2010	www.sfb894.uni-saarland.de

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Tübingen	Eberhard Karls Universität Tübingen	<b>Robust Vision – Inference Principles and Neural Mechanisms (CRC 1233)</b>	2016	www.uni-tuebingen.de/en/research/core-research/collaborative-research-centers/crc-1233
COLLABORATIVE RESEARCH CENTRES/TRANSREGIOS				
Berlin	Freie Universität Berlin Humboldt-Universität zu Berlin	<b>Development, Function and Potential of Myeloid Cells in the Central Nervous System (NeuroMac) (TRR 167)</b>	2016	www.sfb-trr167.uni-freiburg.de
Freiburg	Albert-Ludwigs-Universität Freiburg			
Berlin	Charité - Universitätsmedizin Berlin	<b>Losing and Regaining Control over Drug Intake: From Trajectories to Mechanisms to Interventions (TRR 265)</b>	2019	www.sfb-trr265.charite.de
Dresden	Technische Universität Dresden			
Heidelberg	Ruprecht-Karls-Universität Heidelberg			
Berlin	Charité - Universitätsmedizin Berlin	<b>Retuning Dynamic Motor Network Disorders Using Neuromodulation (TRR 295)</b>	2020	www.sfb-retune.de
Würzburg	Universität Würzburg			
Duisburg-Essen	Universität Duisburg-Essen	<b>Treatment Expectation – The Impact of Expectation on Health Outcome (TRR 289)</b>	2020	www.treatment-expectation.de
Hamburg	Universität Hamburg			
Marburg	Phillips-Universität Marburg			
Gießen	Justus-Liebig-Universität Gießen	<b>Cardinal Mechanisms of Perception: Prediction, Valuation, Categorisation (TRR 135)</b>	2013	www.uni-giessen.de/research/research-organizations/crc/SFBTRR135en
Marburg	Phillips-Universität Marburg			

CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
<p>Frankfurt/Main</p> <p>Mainz</p> <p>Münster</p> <p>Munich</p>	<p>Johann Wolfgang Goethe-Universität Frankfurt am Main</p> <p>Johannes Gutenberg-Universität Mainz</p> <p>Westfälische Wilhelms-Universität Münster</p> <p>Ludwig-Maximilians-Universität München</p> <p>Technische Universität München</p>	<p><b>Initiating/Effector versus Regulatory Mechanisms in Multiple Sclerosis – Progress towards Tackling the Disease (TRR 128)</b></p>	2012	<a href="http://www.sfbtr128.de">www.sfbtr128.de</a>
<p>Hamburg</p> <p>Beijing (China)</p>	<p>Universität Hamburg</p> <p>Tsinghua University</p>	<p><b>Crossmodal Learning: Adaptivity, Prediction and Interaction (TRR 169)</b></p>	2015	<a href="http://www.crossmodal-learning.org">www.crossmodal-learning.org</a>
<p>Munich</p> <p>Göttingen</p>	<p>Technische Universität München</p> <p>Georg-August-Universität Göttingen</p>	<p><b>Checkpoints of Central Nervous System Recovery (TRR 274)</b></p>	2020	<a href="http://www.sfb274.de">www.sfb274.de</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.

Title	Funded Since	Contact
Modulation of Brain Networks for Memory and Learning by Transcranial Electrical Brain Stimulation: A Systematic, Lifespan Approach (FOR 5429) Subprojects mainly located in: Greifswald	2022	tba
Modulation of Olfaction: How Recurrent Circuits Govern State-dependent Behaviour (FOR 5424)	2022	tba
From Imprecision to Robustness in Neural Circuit Assembly (FOR 5289)	2022	www.gepris.dfg.de/gepris/projekt/453877723
Towards Precision Psychotherapy for Non-respondent Patients: From Signatures to Predictions to Clinical Utility (FOR 5187)	2022	www.gepris.dfg.de/gepris/projekt/442075332
Membrane Trafficking Processes Underlying Presynaptic Proteostasis (FOR 5228)	2021	www.syntophagy.de
Resolving the Prefrontal Circuits of Cognitive Flexibility (FOR 5159)	2021	www.for5159.de
Constructing Scenarios of the Past: A New Framework in Episodic Memory (FOR 2812) Subprojects mainly located in: Bochum	2021	www.for2812.rub.de
Affective and Cognitive Mechanisms of Specific Internet-use Disorders (ACSID) (FOR 2974) Subprojects mainly located in: Duisburg	2020	www.uni-due.de/for2974

## RESEARCH UNITS

Title	Funded Since	Contact
Synaptic Pathology in Autoimmune Encephalitis – SYNABS (FOR 3004) Subprojects mainly located in: Jena	2019	www.uniklinikum-jena.de/synabs/en
ImmunoStroke: From Immune Cells to Stroke Recovery (FOR 2879) Subprojects mainly located in: Essen	2019	www.immunostroke.de/
Role of Translocator Protein (18 kDa) (TSPO) as a Diagnostic and Therapeutic Target in the Nervous System (FOR 2858) Subprojects mainly located in: Regensburg	2019	www.uni-regensburg.de/research/for-2858
Synapses under Stress: Early Events Induced by Metabolic Failure at Glutamatergic Synapses (FOR 2795)	2018	www.for2795.hhu.de
Dissection of a Brain Circuit: Structure, Plasticity and Behavioral Function of the Drosophila Mushroom Body (FOR 2705)	2018	www.uni-goettingen.de/en/601524.html
Cognitive Theory for Tourette Syndrome – A Novel Perspective (FOR 2698) Subprojects mainly located in: Lübeck	2018	www.tec4tic.uni-luebeck.de
Epileptogenesis of Genetic Epilepsies (FOR 2715)	2017	www.medizin.uni-tuebingen.de/en-de/medizinische-fakultaet/forschung/forschergruppen/for-2715
Reduced Penetrance in Hereditary Movement Disorders: Elucidating Mechanisms of Endogenous Disease Protection (FOR 2488) Subprojects mainly located in: Lübeck	2016	www.protect-move.de
Plasticity versus Stability – Molecular Mechanisms of Synaptic Strength (FOR 2419) Subprojects mainly located in: Hamburg	2017	www.uke.de/english/departments-institutes/centers/center-for-molecular-neurobiology-hamburg-(zmnh)/research-unit-for-2419.html
Calcium Homeostasis in Neuroinflammation and -degeneration: New Targets for Therapy of Multiple Sclerosis? (FOR 2289) Subprojects mainly located in: Heidelberg	2015	www.for2289.de
(Lymph)Angiogenesis And Cellular Immunity in Inflammatory Diseases of the Eye (FOR 2240) Subprojects mainly located in: Cologne	2014	www.for2240.de
Neurobiology of Affective Disorders: A Translational Perspective on Brain Structure and Function (FOR 2107)	2014	www.for2107.de






# 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
 Würzburg	Universitätsklinikum Würzburg	Peripheral Mechanisms of Pain and Their Resolution (KFO 5001)	2020	<a href="http://www.ukw.de/research/clinical-research-group-kfo-5001">www.ukw.de/ research/clinical- research-group- kfo-5001</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 Since	Contact
Sensing LOOPS: Cortico-subcortical Interactions for Adaptive Sensing (SPP 2411)	2022	<a href="http://www.brainloops.de">www.brainloops.de</a>
Local and Peripheral Drivers of Microglial Diversity and Function (SPP 2395)	2022	<a href="http://www.gepris.dfg.de/gepris/projekt/461101128">www.gepris.dfg.de/gepris/projekt/461101128</a>
Evolutionary Optimisation of Neuronal Processing (SPP 2205)	2020	<a href="http://www.uni-goettingen.de/en/618311.html">www.uni-goettingen.de/en/618311.html</a>
Gene and Cell Based Therapies to Counteract Neuroretinal Degeneration (SPP 2127)	2018	<a href="http://www.spp2127.de">www.spp2127.de</a>
Computational Connectomics (SPP 2041)	2017	<a href="http://www.spp2041.de">www.spp2041.de</a>



# NON-UNIVERSITY RESEARCH INSTITUTIONS

**Fraunhofer Society** is one of the world's leading organisations for applied research with an annual research budget of 2.9 billion euros, 75 institutes and more than 30,000 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 43,000 employees in 19 research centres and an annual budget of approximately 5 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 97 research institutes. The annual budget amounts to 2 billion euros. Some 11,500 researchers – approximately 25% 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. A combined total of more than 15,300 researchers, postdoctoral/junior researchers and visiting researchers at 86 Max Planck Institutes conduct basic research in the natural sciences, life sciences, social sciences and humanities. [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">www.ime.fraunhofer.de</a>
● Berlin	Fraunhofer Institute for Reliability and Microintegration (IZM)	<a href="http://www.izm.fraunhofer.de">www.izm.fraunhofer.de</a>
● Bremen	Fraunhofer Institute for Medical Image Computing (MEVIS)	<a href="http://www.mevis.fraunhofer.de">www.mevis.fraunhofer.de</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">www.scai.fraunhofer.de</a>
● St. Ingbert	Fraunhofer Institute for Biomedical Techniques (IBMT)	<a href="http://www.ibmt.fraunhofer.de">www.ibmt.fraunhofer.de</a>
HELMHOLTZ CENTRES		
● Berlin-Buch	Max Delbrück Center for Molecular Medicine (MDC)	<a href="http://www.mdc-berlin.de">www.mdc-berlin.de</a>
● Berlin Bonn Dresden Göttingen Magdeburg Munich Rostock/ Greifswald Tübingen Witten	German Center for Neurodegenerative Diseases (DZNE)	<a href="http://www.dzne.de">www.dzne.de</a>
● Cologne	German Aerospace Center DLR Cologne	<a href="http://www.dlr.de/dlr">www.dlr.de/dlr</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">www.dkfz.de</a>
● Jülich	Forschungszentrum Jülich	<a href="http://www.fz-juelich.de">www.fz-juelich.de</a>
● Karlsruhe	Karlsruher Institut für Technologie (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/en/helmholtz-zentrum-muenchen/index.html">www.helmholtz-muenchen.de/en/helmholtz-zentrum-muenchen/index.html</a>
LEIBNIZ INSTITUTES		
● Berlin	Leibniz Institute for Molecular Pharmacology (FMP)	<a href="http://www.leibniz-fmp.de">www.leibniz-fmp.de</a>
● Borstel	Research Center Borstel – Leibniz Lung Center (FZB)	<a href="http://www.fz-borstel.de">www.fz-borstel.de</a>
● Dortmund	Leibniz Research Centre of Working Environment and Human Factors (IfaDo)	<a href="http://www.ifado.de">www.ifado.de</a>
● Göttingen	German Primate Center (DPZ) – Leibniz Institute for Primate Research	<a href="http://www.dpz.eu">www.dpz.eu</a>

NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
● Jena	Leibniz Institute for Age-Research – Fritz Lipmann Institut e.V. (FLI)	www.leibniz-flf.de
● Magdeburg	Leibniz Institute for Neurobiology (LIN)	www.lin-magdeburg.de
MAX-PLANCK-INSTITUTES		
● Berlin	Max Planck Institute for Human Development	www.mpib-berlin.mpg.de
● Bonn	Center for Advanced European Studies and Research (Associated Institute)	www.caesar.de
● Cologne	Max Planck Institute for Metabolism Research	www.sf.mpg.de
● Dresden	Max Planck Institute of Molecular Cell Biology and Genetics	www.mpi-cbg.de
● Frankfurt/Main	Ernst Strüngmann Institute (ESI) gGmbH (Associated Institute)	www.esi-frankfurt.de
● Frankfurt/Main	Max Planck Institute for Brain Research	www.brain.mpg.de
● Frankfurt/Main	Max Planck Institute for Empirical Aesthetics	www.aesthetics.mpg.de
● Göttingen	Max Planck Institute for Dynamics and Self-Organization	www.ds.mpg.de
● Göttingen	Max Planck Institute for Multidisciplinary Sciences	www.mpibpc.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
● Martinsried (Munich) Seewiesen	Max Planck Institute for Biological Intelligence	www.bi.mpg.de
● Munich	Max Planck Institute of Psychiatry	www.psych.mpg.de
● Stuttgart Tübingen	Max Planck Institute for Intelligent Systems	www.is.mpg.de
● Tübingen	Max Planck Institute for Biological Cybernetics	www.kyb.tuebingen.mpg.de
● Tübingen	Max Planck Institute for Developmental Biology	www.eb.tuebingen.mpg.de

NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
OTHERS		
● Berlin Frankfurt/Main Freiburg Göttingen Heidelberg/Mannheim Munich Tübingen and other locations	Bernstein Network Computational Neuroscience – Bringing together Experimental Approaches in Neurobiology with Theoretical Models and Computer Simulations, Developing New Approaches for Scientific Insight, Technical Applications, and Machine Learning	www.bernstein-network.de
● Frankfurt/Main	Frankfurt Institute for Advanced Studies (FIAS)	www.fias.institute
● Göttingen	European Neuroscience Institute Göttingen (ENI-G)	www.eni.gwdg.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 -












**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 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
RESEARCH TRAINING GROUPS				
 Aachen	Rheinisch-Westfälische Technische Hochschule Aachen	<b>MultiSenses-MultiScales: Novel Approaches to Decipher Neural Processing in Multisensory Integration (RTG 2416)</b>	2018	<a href="http://www.rtg2416.rwth-aachen.de">www.rtg2416.rwth-aachen.de</a>
 Bochum Osnabrück	Ruhr-Universität Bochum Universität Osnabrück	<b>Situated Cognition – New Concepts in Investigating Core Mental Phenomena (RTG 2185)</b>	2016	<a href="http://www.situated-cognition.com">www.situated-cognition.com</a>
 Cologne	Universität zu Köln	<b>Neural Circuit Analysis on the Cellular and Subcellular Level (RTG 1960)</b>	2014	<a href="http://www.rtg-nca.uni-koeln.de">www.rtg-nca.uni-koeln.de</a>
 Erlangen-Nuremberg	Friedrich-Alexander-Universität Erlangen-Nürnberg	<b>Neurodevelopment and Vulnerability of the Central Nervous System (RTG 2162)</b>	2015	<a href="http://www.grk2162.med.fau.de">www.grk2162.med.fau.de</a>
 Heidelberg	Ruprecht-Karls-Universität Heidelberg	<b>Impact of Adverse Childhood Experience on Psychiatric and Somatic Disorders across the Lifespan (RTG 2350)</b>	2018	<a href="http://www.grk2350.de">www.grk2350.de</a>
 Kassel	Universität Kassel	<b>Biological Clocks on Multiple Time Scales (RTG 2749)</b>	2022	<a href="http://www.uni-kassel.de/forschung/multiscaleclocks">www.uni-kassel.de/forschung/multiscaleclocks</a>
 Kiel	Christian-Albrechts-Universität zu Kiel	<b>Materials for Brain (M4B): Thin Film Functional Materials for Minimally Invasive Therapy of Brain Diseases (RTG 2154)</b>	2016	<a href="http://www.grk2154.uni-kiel.de">www.grk2154.uni-kiel.de</a>
 Magdeburg	Otto-von-Guericke-Universität Magdeburg	<b>The Ageing Synapse – Molecular, Cellular and Behavioral Underpinnings of Cognitive Decline (RTG 2413)</b>	2018	<a href="http://www.synage.de">www.synage.de</a>
 Oldenburg	Carl von Ossietzky Universität Oldenburg	<b>Molecular Basis of Sensory Biology (RTG 1885)</b>	2012	<a href="http://www.uol.de/sensorybio">www.uol.de/sensorybio</a>
 Oldenburg	Carl von Ossietzky Universität Oldenburg	<b>Neuromodulation of Motor and Cognitive Function in Brain Health and Disease (RTG 2783)</b>	2022	TBA
 Regensburg	Universität Regensburg	<b>Neurobiology of Emotion Dysfunctions (RTG 2174)</b>	2016	<a href="http://www.ur.de/research/grk-emotion">www.ur.de/research/grk-emotion</a>

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
Würzburg	Julius-Maximilians-Universität Würzburg	<b>Neural Mechanisms of (Mal)adaptive Approach and Avoidance Behaviour (RTG 2660)</b>	2021	<a href="http://www.uni-wuerzburg.de/grk2660">www.uni-wuerzburg.de/grk2660</a>
INTERNATIONAL RESEARCH TRAINING GROUPS				
Dresden London (Great Britain))	Technische Universität Dresden King's College London	<b>Risks and Pathomechanisms of Affective Disorders (IRTG 2773)</b>	2022	<a href="http://www.transcampus.eu/project/mental-health/irtg2773">www.transcampus.eu/project/mental-health/irtg2773</a>
Aachen  Philadelphia (USA)	Rheinisch-Westfälische Technische Hochschule Aachen University of Pennsylvania	<b>The Neuroscience of Modulating Aggression and Impulsivity in Psychopathology (IRTG 2150)</b>	2015	<a href="http://www.irtg2150.rwth-aachen.de">www.irtg2150.rwth-aachen.de</a>
Gießen/ Marburg  Kingston (Canada) London (Canada) Toronto (Canada)	Universitätsklinikum Gießen und Marburg Queens University Western University York University	<b>The Brain in Action (IRTG 1901)</b>	2012	<a href="http://www.irtg-brainact.de">www.irtg-brainact.de</a>
Tübingen Uppsala (Schweden)	Eberhard Karls Universität Tübingen Uppsala University	<b>Women's Mental Health across the Reproductive Years (IRTG 2804)</b>	2022	tba
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>
Berlin	Humboldt-Universität zu Berlin	<b>Research Training Group within: Mechanisms and Disturbances in Memory Consolidation: From Synapses to Systems (CRC 1315)</b>	2018	<a href="http://www.sfb1315.de">www.sfb1315.de</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.sfb874.ruhr-uni-bochum.de/graduate-programme">www.sfb874.ruhr-uni-bochum.de/graduate-programme</a>

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
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://www.sfb1089.de">www.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.tu-dresden.de/bereichsuebergreifendes/sfb940/research/zentralprojekte/mgk">www.tu-dresden.de/bereichsuebergreifendes/sfb940/research/zentralprojekte/mgk</a>
Frankfurt/ Main	Goethe-Universität Frankfurt am Main	<b>Graduate School within: Molecular and Cellular Mechanisms of Neural Homeostasis (CRC 1080)</b>	2012	<a href="http://www.crc1080.com/young-scientists/graduate-school">www.crc1080.com/young-scientists/graduate-school</a>
Hamburg	Universität Hamburg	<b>Graduate Programme within: Multi-Site Communication in the Brain (CRC 936)</b>	2011	<a href="http://www.sfb936.net/curriculum-graduate-training">www.sfb936.net/curriculum-graduate-training</a>
INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES/ TRANSREGIOS				
Berlin  Freiburg	Freie Universität Berlin Humboldt-Universität zu Berlin Albert-Ludwigs-Universität Freiburg	<b>Graduate Program “NeuroMac School” within: Development, Function and Potential of Myeloid Cells in the Central Nervous System (NeuroMac) (TRR 167)</b>	2016	<a href="http://www.sfb-trr167.uni-freiburg.de/irtg-neuromac-school">www.sfb-trr167.uni-freiburg.de/irtg-neuromac-school</a>
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://www.crossmodal-learning.org">www.crossmodal-learning.org</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.

**Max Planck Schools** are a joint initiative of the Max Planck Society, German universities and the German research organizations. As national networks of graduate education, the Max Planck Schools complement the highly successful regional cooperation formats such as the International Max Planck Research Schools (IMPRS). The three pilot Schools will receive a total of nine million euros in funding from the Federal Ministry of Education and Research (BMBF) each year over an initial period of five years. Max Planck Schools are not shown on the map.

## GRADUATE TRAINING

Location	Title	Contact
HELMHOLTZ GRADUATE SCHOOLS		
○ Berlin-Buch	Helmholtz Graduate School "Molecular Cell Biology"	<a href="http://www.mdc-berlin.de/phd">www.mdc-berlin.de/phd</a>
○ Heidelberg	Helmholtz International Graduate School for Cancer Research	<a href="http://www.dkfz.de/en/phd-program">www.dkfz.de/en/phd-program</a>
○ Munich	Helmholtz Graduate School Environmental Health – HELENA	<a href="http://www.helmholtz-helena.de">www.helmholtz-helena.de</a>
LEIBNIZ GRADUATE SCHOOLS		
○ Göttingen	Leibniz Graduate School for Emerging Infectious Diseases (EIDIS)	<a href="http://www.dpz.eu/en/career/graduate-training/emerging-infectious-diseases.html">www.dpz.eu/en/career/graduate-training/emerging-infectious-diseases.html</a>
○ Jena	Leibniz Graduate School on Ageing and Age-Related Diseases (LGSA)	<a href="http://www.lgsa.leibniz-flj.de">www.lgsa.leibniz-flj.de</a>
INTERNATIONAL MAX PLANCK RESEARCH SCHOOLS (IMPRS)		
○ Bonn	IMPRS for Brain and Behavior	<a href="http://www.imprs-brain-behavior.mpg.de">www.imprs-brain-behavior.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://www.brain.mpg.de/graduate-studies">www.brain.mpg.de/graduate-studies</a>
○ Göttingen	IMPRS for Molecular Biology	<a href="http://www.gpmolbio.uni-goettingen.de">www.gpmolbio.uni-goettingen.de</a>
○ Göttingen	IMPRS for Neurosciences	<a href="http://www.gpneuro.uni-goettingen.de">www.gpneuro.uni-goettingen.de</a>
○ Göttingen	IMPRS for Physics of Biological and Complex Systems	<a href="http://www.uni-goettingen.de/en/58718">www.uni-goettingen.de/en/58718</a>
○ Jena	IMPRS Exploration of Ecological Interactions with Molecular and Chemical Techniques	<a href="http://www.imprs.ice.mpg.de">www.imprs.ice.mpg.de</a>
○ Konstanz	IMPRS for Organismal Biology	<a href="http://www.orn.mpg.de/2453/Short_portrait">www.orn.mpg.de/2453/Short_portrait</a>
○ Leipzig	IMPRS NeuroCom	<a href="http://www.imprs-neurocom.mpg.de">www.imprs-neurocom.mpg.de</a>
○ Martinsried (Munich)	IMPRS for Molecular and Cellular Life Sciences	<a href="http://www.imprs-ls.opencampus.net">www.imprs-ls.opencampus.net</a>
○ Munich	IMPRS for Translational Psychiatry	<a href="http://www.imprs-tp.mpg.de">www.imprs-tp.mpg.de</a>
○ Tübingen	IMPRS for Cognitive and Systems Neuroscience	<a href="http://www.neuroschool-tuebingen.de">www.neuroschool-tuebingen.de</a>
○ Tübingen	IMPRS From Molecules to Organisms	<a href="http://www.imprs.tuebingen.mpg.de">www.imprs.tuebingen.mpg.de</a>

Location	Title	Contact
MAX PLANCK RESEARCH SCHOOLS		
various locations	Max Planck School of Cognition	www.cognition. maxplanckschools.org



## SOCIETIES AND ASSOCIATIONS IN GERMANY

Bernstein Network Computational Neuroscience: [www.bernstein-network.de](http://www.bernstein-network.de)

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

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

German Neuroscience Society (GNS): [www.nwg-info.de](http://www.nwg-info.de)

German Psychological Society (DGPs): [www.dgps.de](http://www.dgps.de)

German Society of Developmental Biology (GfE): [www.vbio.de/gfe-entwicklungsbiologie](http://www.vbio.de/gfe-entwicklungsbiologie)

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

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

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



## 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-and-career.html](http://www.fraunhofer.de/en/jobs-and-career.html)

Helmholtz Association: [www.helmholtz.de/en/career/job-vacancies](http://www.helmholtz.de/en/career/job-vacancies)

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

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

## FURTHER INFORMATION

RESEARCH INSTITUTIONS, PROJECTS, FUNDING, CONTACTS

Research in  
Germany



**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. [www.gepris.dfg.de](http://www.gepris.dfg.de)



**German Research Institutions (GERIT):** Information on more than 25,000 institutes at German universities and non-university research institutions, searchable by geographic location, subject and other structural criteria. [www.gerit.org](http://www.gerit.org)



**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/study-in-germany](http://www.hochschulkompass.de/en/study-in-germany)





## 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