



## Study in Bavaria - Doctoral Programmes in English

Would you like to study for a doctorate in Bavaria, but don't know where to start? This list offers you a first overview of structured PhD programmes in Bavaria. These programmes are particularly attractive for international students, as they often have an international or interdisciplinary focus and are frequently conducted in English or other foreign languages. During the PhD programme you will receive intensive supervision from a team of university professors. This arrangement allows most students to complete their PhD programmes within three years. In addition, graduate schools frequently offer programme-specific scholarships and paid PhD positions for research associates. If you would like to receive further information on the individual PhD programmes listed, please contact the relevant university directly.

If the particular subject area you are interested in is missing from the list, don't worry! In Bavaria, most doctorate students take an individual approach to suit their specific needs. If you choose to pursue this "traditional" route, you can apply at any university department or facility to conduct your research and ask a professor to supervise your work on a one-to-one basis.

For more information on PhD programmes in Bavaria and ways to finance your doctorate visit [www.study-in-bavaria.de/en/what-where/find-the-right-course/doctoral-programmes/](http://www.study-in-bavaria.de/en/what-where/find-the-right-course/doctoral-programmes/)



You may also find useful information on living and studying in Bavaria at [www.study-in-bavaria.de](http://www.study-in-bavaria.de).

More information on programmes of the Elite Network of Bavaria for exceptionally talented students and researchers can be found at [www.elitenetzwerk.bayern.de](http://www.elitenetzwerk.bayern.de).

Below, you find an explanation of the German doctoral titles listed in this overview. For information on the process of official recognition procedures in your home country, please enquire at your home university.

### Explanation of the German doctoral titles:

Dr.- Ing. = (engineer): Doctor of Engineering Sciences  
Dr. oec. publ. = (oecologiae publicae): Doctor of Economics  
Dr. rer. pol. = (rerum politicarum): Doctor of Political Science  
Dr. theol. = (theologiae): Doctor of Theology

Dr. iur. / Dr. jur. = (iuris / juris): Doctor of Law  
Dr. med. = (medicinae): Doctor of Medicine  
Dr. rer. nat. = (rerum naturalium): Doctor of Science  
Dr. rer. biol. vet. = (rerum biologiae veterinariae): Doctor of Veterinary Biologics

Dr. hum. biol. = (biologiae humanum): Doctor of Human Biology  
Dr. phil. = (philosophiae): Doctor of Philosophy  
Dr. rer. biol. hum. = (rerum biologiae humanae): Doctor of Human Biology

## Engineering

Course / Programme	Title	University
Advanced Optical Technologies, Graduate School (SAOT)	Dr.-Ing.   Dr.rer.nat.   Dr.hum.biol.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Advanced Materials and Processes, Graduate School (GS AMP)	Dr.-Ing.   Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Graduate Center TUM CREATE	Dr.-Ing.   Dr.rer.nat.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a> in cooperation with NTU Singapore
Information Science in Health (GSISH), TUM Graduate School	Dr.-Ing.   Dr.rer.nat.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a>
Innovation Management and Entrepreneurship	PhD <sup>1</sup>	Strascheg Center for Entrepreneurship (SCE) at Munich University of Applied Sciences in cooperation with the European Graduate School NITIM (Networks on Information Technologies and Innovation Management): <a href="http://www.sce.de/nitim">www.sce.de/nitim</a>
In-Situ Microscopy with Electrons, X-rays and Scanning Probes / GRK 1896 <sup>2</sup>	Dr.-Ing.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Molecular Sciences, Graduate School (GSMS)	Dr.-Ing.   Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Multimedia Distributed and Pervasive Systems (MDPS)	Dr.rer.nat.   Dr. en informatique	University of Passau: <a href="http://www.uni-passau.de">www.uni-passau.de</a>
Physics of Light, International Max Planck Research School (IMPRS-PL)	Dr.-Ing.   Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Science and Engineering (IGSSE), TUM International Graduate School	Dr.-Ing.   Dr.rer.nat.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a>

## Life Science

Course / Programme	Title	University
3D Tissue Models for Studying Microbial Infections by Human Pathogens / GRK 2157 - training program <sup>2</sup> , Graduate School of Life Sciences	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Advanced Optical Technologies, Graduate School (SAOT)	Dr.-Ing.   Dr.rer.nat.   Dr.hum.biol.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Advanced Materials and Processes, Graduate School (GS AMP)	Dr.-Ing.   Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Atherosclerosis – Mechanisms and Networks of Novel Therapeutic Targets / SFB 1123 - Integrated Research Training Group	PhD   Dr.rer.nat.   Dr.med.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
B cells: Immunity and Autoimmunity	Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>

## Life Science

Course / Programme	Title	University
Biofabrication/ TRR 225	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a> , in cooperation with University of Bayreuth and Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)
Biomedical International Graduate School (BIOMEDIGS)	Dr.rer.physiol.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Biopsychology of Pain and Emotions	PhD	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a> , University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Cancer Evolution / SFB 1243 <sup>2</sup> - Integrated Research Training Group)	(The title depends on the participating faculties)	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Cardiovascular Sciences / Training Program, Graduate School of Life Sciences	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Cell-Fate Decisions in the Immune System / SFB 1054 <sup>2</sup>	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Checkpoints for Resolution of Inflammation / SFB 11812 <sup>2</sup>	Dr. rer. nat.   Dr.hum.biol.   Dr.med.   Dr.med.dent.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Chemical Modifications of Epigenetic Modifications (DFG: SFB 1309 - Integrated Research Training Group)	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Chromatin Dynamics / SFB 1064 <sup>2</sup>	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Controlling graft-versus-host and graft-versus-leukaemia immune reactions after allogenic stem cell transplants / TRR 221 <sup>2</sup>	Dr. nat.   Dr. med.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Dynamic Interactions at Biological Membranes - from Single Molecules to Tissue	Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Ecology and Environmental Research, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Emergence of Life: Exploring Mechanisms with Cross-Disciplinary Experiments / SFB Transregio 235 - Integrated Research Training Group	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Environmental Health (HELENA), Helmholtz Graduate School	Dr.rer.nat.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a> in cooperation with Helmholtz Association
Fear, Anxiety, Anxiety Disorders / TRR 58 <sup>2</sup> , Graduate School of Life Sciences	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Graft-versus-host and graft-versus-leukaemia immune responses / TRR 221 <sup>2</sup>		University of Regensburg: <a href="http://www.ur.de">www.ur.de</a> in cooperation with Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a> and University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Gerontology	Dr. phil.   Dr. med.   Dr. rer. biol. hum.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
High-end light microscopy elucidates membrane receptor function - Receptor Light / TRR 166 <sup>2</sup> , Graduate School of Life Sciences	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Infectious Diseases Research, Graduate Program, Graduate School of Life Sciences	Dr. nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>

## Life Science

Course / Programme	Title	University
Immunomodulation, Graduate Program, Graduate School of Life Sciences	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Information Science in Health (GSISH), TUM Graduate School	Dr.rer.nat.   Dr.-Ing.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a>
Integrated Analysis of Macromolecular Complexes and Hybrid	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
International Health	Dr.rer.nat.   PhD   Dr.rer.biol.hum.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
International PhD program at the University of Regensburg (iPUR)	Dr.rer.nat.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Interdisciplinary Centre for Clinical Research (IZKF), Graduate School	Dr. rer. nat.   Dr. rer. biol. hum.   Dr. med.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
i-Target: Immunotargeting of cancer <sup>3</sup>	Dr.rer.nat.   Dr.rer.biol. hum.   Dr.med.   PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a> in cooperation with Technical University of Munich (TUM) and Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)
Key Signals of Adaptive Immune Response	Dr. rer. nat.   Dr. med.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Life Science, Munich Graduate School	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Medical Research	PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Medical Research in Epidemiology & Public Health	PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Medical Research – International Health	PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Medical Research, Graduate School of Life Sciences	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Medical Life Science and Technology, PhD Program	PhD	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a>
Medicinal Chemistry of Selective GPCR Ligands / GRK 1910 <sup>2</sup>	Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a> , University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Molecular Biosciences, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Molecular Principles of Synthetic Biology (DFG: Research Training Group 2062)	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Molecular Sciences, Graduate School (GSMS)	Dr.rer.nat.   Dr.-Ing.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Neurobiology of Emotion Dysfunctions / GSC <sup>2</sup>	Dr. rer. nat.   Dr. med.   Dr. phil.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Neurodevelopment and Vulnerability of the Central Nervous System / GRK 2162 <sup>2</sup>	Dr.rer.nat.   Dr. med.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>

## Life Science

Course / Programme	Title	University
Oral Science	PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Pathogenic fungi and their human host: Networks of Interaction - FungiNet / TRR 124 <sup>2</sup> , Graduate School of Life Sciences	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Pathophysiology of Staphylococci in the Post-Genomic Era / TRR 34 <sup>2</sup> , Graduate School of Life Sciences	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Perception in Context and its Neural Basis / GRK 2175 <sup>2</sup>	PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Pharmaceutical Sciences and Molecular Medicine: Emil Fischer Graduate Programme (EFS)	Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Platelets - Molecular, cellular and systemic functions in health and disease / TRR 240	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a> in cooperation with University of Tübingen and University of Greifswald
Processing of affective stimuli: from the molecular basis to the emotional experience	Dr.rer.nat.	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Receptor Dynamics: Emerging Paradigms for Novel Drugs <sup>3</sup>	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a> , in cooperation with University of Bayreuth, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), and University of Regensburg
Regensburg International Graduate School of Life Sciences (RIGeL) <sup>2</sup>	PhD	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
RNA Biology, Graduate Research Academy	Dr.rer.nat.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Science and Engineering (IGSSE), TUM International Graduate School	Dr.rer.nat.   Dr.-Ing.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a>
Systemic Neurosciences, Graduate School	Dr.rer.nat.   PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Targeting therapeutic windows in essential cellular processes for tumor therapy / FOR 2314 <sup>2</sup> , Graduate School of Life Sciences	Dr.rer.nat.   PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Targets in Toxicology – Deciphering Therapeutic Targets in Lung Toxicology / GRK 2338 <sup>2</sup>	PhD   Dr.rer.nat.   Dr.med.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Trafficking of Immune Cells in Inflammation, Development and Disease	PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Understanding Ubiquitylation: From Molecular Mechanisms to Disease / GRK 2243 <sup>2</sup> , Graduate School of Life Sciences	Dr.rer.nat.	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>

## Natural Sciences

Course / Programme	Title	University
Advanced Optical Technologies, Graduate School (SAOT)	Dr.rer.nat.   Dr.-Ing.   Dr.hum.biol.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Advanced Materials and Processes, Graduate School (GS AMP)	Dr.rer.nat.   Dr.-Ing.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Advanced Medical Physics for Image-Guided Cancer Therapy / GRK 2274 <sup>2</sup>	Dr.rer.nat.   Dr.med.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Analysis, Algebra and Geometry, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
B cells: Immunity and Autoimmunity	Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Checkpoints for Resolution of Inflammation / SFB 11812 <sup>2</sup>	Dr. rer. nat.   Dr.hum.biol.   Dr.med.   Dr.med.dent.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Chemical Photocatalysis	Dr.rer.nat.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
ChemPharm Graduate School Regensburg	PhD   Dr.rer.nat.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Complexity and Topology in Quantum Matter, Center of Excellence	Dr. rer. nat.	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a> in cooperation with TU Dresden
Computational Mathematics in Science and Engineering, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Computing Science, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Curvature, Cycles, and Cohomology / GSC <sup>2</sup>	Dr.rer.nat.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Deep Earth Volatile Cycles / GRK 2156 <sup>2</sup> , BayNAT	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Dynamic Interactions at Biological Membranes - from Single Molecules to Tissue	Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Ecology and Environmental Research, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Electronic Properties of Carbon Based Nanostructures / GSC <sup>2</sup>	Dr.rer.nat.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Emergent Relativistic Effects in Condensed Matter / SFB 1277 <sup>2</sup>	Dr.rer.nat.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Environmental Health (HELENA), Helmholtz Graduate School	Dr.rer.nat.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a> in cooperation with Helmholtz Association
Experimental Geosciences, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Exploring Quantum Matter (ExQM) <sup>3</sup>	PhD	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a> in cooperation with Ludwig-Maximilians-Universität (LMU) Munich, Max-Planck- Institute for of Quantum Optics (MPQ), Walther-Meissner-Institut (WMI) and Walter.Schottky-Institut (WSI)

## Natural Sciences

Course / Programme	Title	University
Graduate Center TUM CREATE	Dr.rer.nat.   Dr.-Ing.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a> in cooperation with NTU Singapore
Gerontology	Dr. phil.   Dr. med.   Dr. rer. biol. hum.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
IntComSin: Interfaces, Complex Structures and Singular Limits <sup>2</sup>	PhD	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a> ; FAU-Erlangen Nürnberg: <a href="http://www.fau.de">www.fau.de</a>
Interdisciplinary Centre for Clinical Research (IZKF), Graduate School	Dr. rer. nat.   Dr. rer. biol. hum.   Dr. med.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
i-Target: Immunotargeting of cancer <sup>3</sup>	Dr.rer.nat.   Dr.rer.biol. hum.   Dr.med.   PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a> in cooperation with Technical University of Munich (TUM) and Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)
Key Signals of Adaptive Immune Response	Dr. rer. nat.   Dr. med.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Life Science, Munich Graduate School	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Materials Chemistry and Catalysis, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Mathematical Modelling, Simulation and Optimization using the Example of Gas Networks / SFB Transregio 1542 <sup>2</sup>	Dr. rer. nat.	Friedrich-Alexander-Universität Erlangen (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Mathematics with integrated Doctorate Studies (TopMath)	Dr.rer.nat.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a>
Medical Life Science and Technology (PhD Program)	PhD	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a>
Medicinal Chemistry of Selective GPCR Ligands / GRK 1910 <sup>2</sup>	Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a> , University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Molecular Biosciences, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Molecular biradicals: structure, properties and reactivity / GRK 2112 <sup>2</sup>	Dr.rer.nat.	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>
Molecular Sciences, Graduate School (GSMS)	Dr.rer.nat.   Dr.-Ing.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Multimedia Distributed and Pervasive Systems (MDPS)	Dr. rer. nat.   Dr. en informatique	University of Passau: <a href="http://www.uni-passau.de">www.uni-passau.de</a>
Nanoagents for Spatiotemporal Control of Molecular and Cellular Reactions (DFG: SFB 1032 - Integrated Research Training Group)	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Neurodevelopment and Vulnerability of the Central Nervous System / GRK 2162 <sup>2</sup>	Dr.rer.nat.   Dr. med.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Pharmaceutical Sciences and Molecular Medicine: Emil Fischer Graduate Programme (EFS)	Dr.rer.nat.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>

## Natural Sciences

Course / Programme	Title	University
Photophysics of Synthetic and Biological Multichromophoric Systems, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Plasma Physics (HEPP), International Helmholtz Graduate School	Dr.rer.nat.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a> in cooperation with Helmholtz Association, Max-Planck-Institut für Plasmaphysik (IPP) and Universität Greifswald
Physics with Integrated Doctorate Programme	Dr.rer.nat.	University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Physics of Light, International Max Planck Research School (IMPRS-PL)	Dr.rer.nat.   Dr.-Ing.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a> in cooperation with Max-Planck-Institute for the Science of Light (MPL)
Polymer Science, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Quantitative Biosciences, Munich Graduate School	Dr.rer.nat   PhD   Dr.rer.biol.vet.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Science and Engineering (IGSSE), TUM International Graduate School	Dr.rer.nat.   Dr.-Ing.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a>
Social Geography, BIGSAS	Dr.rer.nat.   Dr. phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Soft Matter Physics, Nonlinear Dynamics and Solid State Physics, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Space and Society, BayNat	Dr.rer.nat.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Statistics: Theory and Methods for Empirical Modelling	Dr.rer.nat.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Topological Insulators <sup>3</sup>	PhD	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a> , in cooperation with University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Topological and Correlated Electronics at Surfaces and Interfaces (ToCoTronics) / SFB 1170 <sup>2</sup>	Dr.rer.nat.	University of Würzburg: <a href="http://www.uni-wuerzburg.de">www.uni-wuerzburg.de</a>

## Humanities, Business and Social Studies

Course / Programme	Title	University
African Linguistics, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Affective and Cognitive Sciences / Bamberg Graduate School (BaGrACS)	Dr.phil.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a>



## Humanities, Business and Social Studies

Course / Programme	Title	University
African Politics and Development Policy, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Arabic Linguistics, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Arts in Africa, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Bavarian Graduate Program in Economics (BGPE)	Dr.rer.pol.	University of Passau: <a href="http://www.uni-passau.de">www.uni-passau.de</a> , in co-operation with other Bavarian universities (LMU, Bayreuth, Bamberg, TUM, Regensburg, Würzburg, FAU, Augsburg)
Behavioral Macroeconomics, Bamberg Doctoral Research Group (BaGBeM)	Dr.rer.pol.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a>
Buddhist Studies	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Business	DBA <sup>1</sup>	Strascheg Center for Entrepreneurship (SCE) at Munich University of Applied Sciences: <a href="http://www.sce.de/dba">www.sce.de/dba</a> , in cooperation with Edinburgh Napier University
Business Administration <sup>1</sup>	PhD	SCE and MUAS: <a href="https://www.hm.edu/en/index.en.html">https://www.hm.edu/en/index.en.html</a> in co-operation with Edinburgh Napier University: <a href="https://www.napier.ac.uk/">https://www.napier.ac.uk/</a>
Business Administration & Management, Bamberg Graduate School (BaGSB)	Dr.rer.pol.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a> in cooperation with University of Bayreuth
Business and Economics, Graduate School at the School of Business and Economics	Dr.rer.pol.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Classical and Ancient Studies (PAW)	Dr.phil.   Dr.theol.   Dr.jur.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Cultural Encounters, BayKULT	Dr.phil.   PhD	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Culture and Society, BayKULT	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Culture and Technology in Africa, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Communicative Construction of Knowledge, BayKULT	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Development Sociology, BIGSAS	Dr.rer.nat.   Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Distant Worlds: Munich Graduate School for Ancient Studies (Excellence Initiative: Graduate School 1039)	Dr.phil.   Dr.theol.   Dr.jur.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
East and Southeast European Studies, Graduate School	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a> , University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Economics / Development Economics, BIGSAS	Dr.rer.pol.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Economics, Munich Graduate School (MGSE)	Dr.oec.publ.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>

## Humanities, Business and Social Studies

Course / Programme	Title	University
Economics, BayREW	Dr. rer. pol.   Dr. jur.   Dr. phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
English Linguistics, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
English and Anglophone Literatures, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Environment and Society	Dr.phil.   Dr.rer.nat.   Dr.iur.   Dr.oec. publ.   Dr.theol.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Evidence-Based Economics <sup>3</sup>	Dr.oec.publ.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a> in cooperation with Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), University of Regensburg: <a href="http://www.ur.de">www.ur.de</a>
Francophone Literatures, Cultures and Media in Africa, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Gerontology	Dr. phil.   Dr. med.   Dr. rer. biol. hum.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Geschichte, History, Histoire, BayKULT	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Globalization and Literature. Representations, Transformations, Interventions / GRK 1733 <sup>2</sup>	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
GradAB - Graduate Programme of the Institute for Employment Research and the School of Business and Economics	Dr.rer.pol.	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU): <a href="http://www.fau.eu">www.fau.eu</a>
Healthcare Economics, BayREW	Dr.rer.pol.   Dr.jur.   Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Historical Studies, Bamberg Graduate School (BaGraHist)	Dr.phil.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a>
History of Africa, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
International Cultural Studies, Graduate School (GSICS)	Dr.phil.   Dr. rer. pol.   Dr. rer. soc.   Dr. rer. cult.	University of Passau: <a href="http://www.uni-passau.de">www.uni-passau.de</a>
Islamic Studies, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
IT and Innovation Management <sup>1</sup>	PhD	European Graduate School NITIM: <a href="http://www.nitim.eu">www.nitim.eu</a>
Joint doctoral degree program Universität Passau - Indian Institute of Technology Madras (Indien)	Passau: Dr.rer.pol.   Madras: PhD	University of Passau: <a href="http://www.uni-passau.de">www.uni-passau.de</a>
Language & Literature: Class of Language	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Language & Literature: Class of Language Education	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>

## Humanities, Business and Social Studies

Course / Programme	Title	University
Language & Literature: Class of Literature	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Law with Focus on Comparative Law, BIGSAS	Dr.jur.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Learning Sciences	Dr.rer.nat.   Dr.phil.   Dr.med.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Linguistics, Bamberg Graduate School (BaGL)	Dr.phil.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a>
Literature and the Arts, Munich Doctoral Program (MIMESIS) <sup>3</sup>	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a> in cooperation with Technical University of Munich (TUM) and University of Television and Film Munich (HFF)
Literatures in African Languages, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Literary, Cultural and Media Studies, Bamberg Graduate School (BaGraLCM)	Dr.phil.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a>
Management Science, BayREW	Dr. rer. pol.   Dr. jur.   Dr. phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Media in Africa, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Media Culture and Media Economy, BayKULT	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Medieval and Renaissance Studies	Dr.phil.   Dr.theol.   Dr.jur.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Medieval Studies, Bamberg Graduate School (BaGraMS)	Dr.phil.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a>
Microeconomic Determinants of Labor Productivity	Dr.oec.publ.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Modern and Contemporary History (ProMoHist)	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Music and Performance, BayKULT	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Near and Middle Eastern Studies, Bamberg Graduate School (BaGOS)	Dr.phil.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a>
Poland and Germany in Modern Europe	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Privacy and Digitalisation / GRK 1681 <sup>2</sup>	Dr.phil.   Dr. rer. pol.   Dr. rer. soc.   Dr. rer. cult.   Dr. iuris	University of Passau: <a href="http://www.uni-passau.de">www.uni-passau.de</a>
ProAmHist: American History - History of the Americas	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>

## Humanities, Business and Social Studies

Course / Programme	Title	University
Professional Sciences (PoPS)	Dr.phil.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a> , in cooperation with Ludwigsburg University of Education
Reason - Scientific Reasoning and Argumentation <sup>3</sup>	Dr.phil.   PhD	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a> in cooperation with Katholische Stiftungshochschule (KSH) and Technical University of Munich (TUM)
Religious Cultures in 19th and 20th Century Europe / GRK 1542 <sup>2</sup>	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>
Religious Studies, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Research on Religions, BayKULT	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Romance and General Linguistics, Bayreuth BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Social Anthropology, Cultural Anthropology, BIGSAS	Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Social Geography, BIGSAS	Dr.rer.nat.   Dr.phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
Social Sciences, Bamberg Graduate School (BAGSS)	Dr.rer.pol.   Dr.phil.	University of Bamberg: <a href="http://www.uni-bamberg.de">www.uni-bamberg.de</a>
Sports Economics and Sport Science, BayREW	Dr. rer. pol.   Dr. jur.   Dr. phil.	University of Bayreuth: <a href="http://www.uni-bayreuth.de">www.uni-bayreuth.de</a>
TechnoScienceStudies. Technology in Society	Dr. phil.   Dr. rer. pol.   Dr. rer. soc.   Dr. oec.	Technical University of Munich (TUM): <a href="http://www.tum.de">www.tum.de</a>
Transformations in European Societies, International Doctoral Programme	Dr.phil.	Ludwig-Maximilians-Universität (LMU) Munich: <a href="http://www.lmu.de">www.lmu.de</a>

### Footnotes

**1** Degree awarded by the international partner university.

**2** Programme funded by DFG (Deutsche Forschungsgemeinschaft / German Research Foundation):

FOR - Forschergruppe / Research Unit

GRK - (Internationales) Graduiertenkolleg / (International) Research Training Group, RTG

GSC - Graduate School

KFOR - Klinische Forschergruppe / Clinical Research Unit

SFB - Sonderforschungsbereich / Collaborative Research Centre, CRC

SFB/TRR - Sonderforschungsbereich/Transregio / Collaborative Research Centre/Transregio, CRC/TRR

**3** This programme is part of the “Elite Network of Bavaria”, consisting inter alia of Elite Graduate Programs and International Doctorate Programs for highly qualified students and academics (see [www.elitenetzwerk.bayern.de](http://www.elitenetzwerk.bayern.de)).

**4** For this doctoral programme a tuition fee is payable. For detailed information, please contact the university in question.