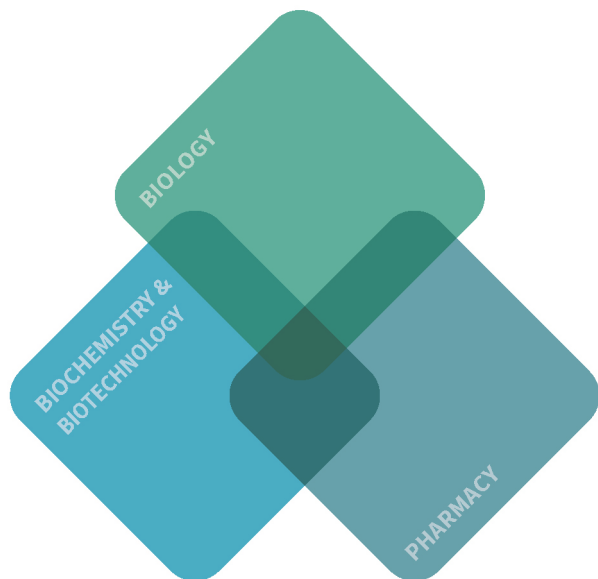


# Professors of the Faculty

## Research Focus and Scientific Career

2020/21



# Professors of the Faculty: Research Focus and Scientific Career

## FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

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**Institute of Biochemistry and Biotechnology** ■

**Institute of Biology** ■

**Institute of Pharmacy** ■

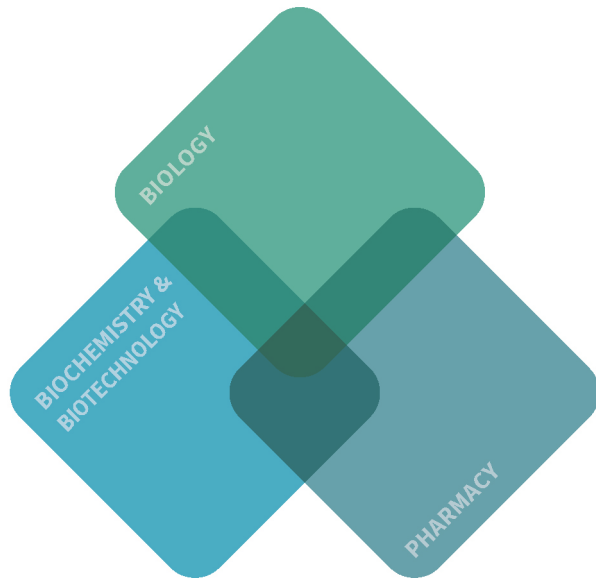
**Joint Professorships** ■

Martin Luther University of Halle-Wittenberg  
Faculty of Natural Sciences 1 – Biosciences  
Dean's office  
Faculty Marketing  
Kurt-Mothes-Straße 3  
D-06120 Halle/Saale  
Germany

e-mail: [marketing.dekanat@natfak1.uni-halle.de](mailto:marketing.dekanat@natfak1.uni-halle.de)

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3rd updated english edition – Mar 2021



MARTIN-LUTHER  
UNIVERSITÄT  
HALLE-WITTENBERG

**Dear reader,**

The Faculty of Natural Sciences 1 – Biosciences of the Martin Luther University Halle-Wittenberg was established in 2006 when the former Faculty of Natural Sciences and of Agriculture was restructured into three new faculties of natural sciences. In the course of this restructuring, the education of engineers in Halle was discontinued and the training of teachers became a new focus of the faculty at the Martin Luther University Halle-Wittenberg.

The three new science faculties at Martin Luther University Halle-Wittenberg interact intensively in teaching and research. Our Faculty of Natural Sciences 1 comprises three institutes: Biochemistry and Biotechnology, Biology, and Pharmacy. The institutes are responsible for teaching, which includes Bachelor and Master courses, as well as state examinations for teachers and pharmacists. All of our teaching programs are highly sought after, and our faculty attaches great importance to the education of students, offering numerous practical and laboratory courses, which range from those for beginners to research group internships and laboratory rotations.

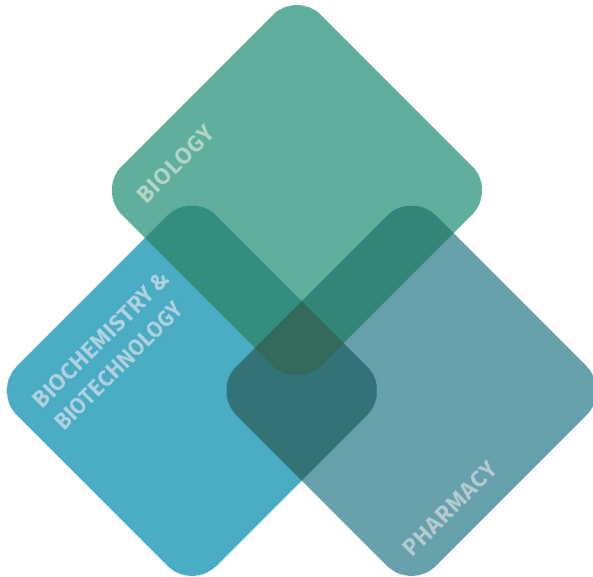
Research within the faculty focuses on three broad themes. An organism-ecological theme focusing on plant and insect ecology has contributed significantly to the founding of the German Centre for Integrative Biodiversity Research (iDiv) in the region Halle-Leipzig-Jena. The continuation and further development of iDiv is a strategic goal of the university. The second research theme combines our long-term experience in the area of plant biochemistry, physiology, genetics, and molecular biology with the protein and RNA fields. Many scientists working in the RNA and protein fields are located in the Charles Tanford Protein Center and the HALOmem Center for Innovation Competence. A Collaborative Research Centre will be established in the strategic plant-protein field and is intended to prepare the three natural science faculties and the two local Leibniz Institutes IPB and IPK to participate in the next round of the federal excellence initiative. Two research training groups have already been successfully established in this research field. The third theme of the faculty is in applied pharmaceutical research and completes our three research themes.

The faculty is led collectively by the dean's office, which, together with the dean, includes the directors and the deputy directors of each of the three institutes.

Yours sincerely,

Prof. Dr. Dietrich H. Nies

Dean of the Faculty of Natural Sciences I – Biosciences



## FACTS

The Faculty of Natural Sciences 1 – Biosciences represents with about 1900 students and 500 employees the largest faculty (in addition to medicine) of the Martin Luther University of Halle-Wittenberg.

### Three institutes belong to the faculty:

- Institute of Biochemistry and Biotechnology
- Institute of Biology
- Institute of Pharmacy

### The following courses are offered at the faculty:

- B. Sc. and M. Sc. in Biochemistry
- B. Sc. and M. Sc. in Biology
- Pharmacy (State Examination and Diploma)
- Pre-Service Teacher Education in Biology for high school ('Gymnasium') and middle school
- M. Sc. in Molecular and Cellular Biosciences (in English)
- M. Sc. in Pharmaceutical and Industrial Biotechnology (in English)
- NEW in WS 2021/22: M. Sc. in Biodiversity Sciences (in English)

### Research in the faculty focuses on the fields:

- Biodiversity Research: organism-ecological theme focusing on plant and insect ecology
- Molecular Biological Sciences: plant biochemistry, physiology, genetics and molecular biology
- Protein & RNA Research
- Pharmaceutical-applied Research: drug discovery, biotechnology, nanotechnology, mass spectrometry, biosynthesis, and biomedical materials

The Faculty of Natural Sciences 1 – Biosciences works closely in research and teaching with other faculties of the university (in particular, Faculties of Sciences 2 and 3 and the Faculty of Medicine), German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, and non-university research institutions (e. g. Helmholtz Centre for Environmental Research – UFZ, Leibniz Institute of Plant Biochemistry (IPB), Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), and others).

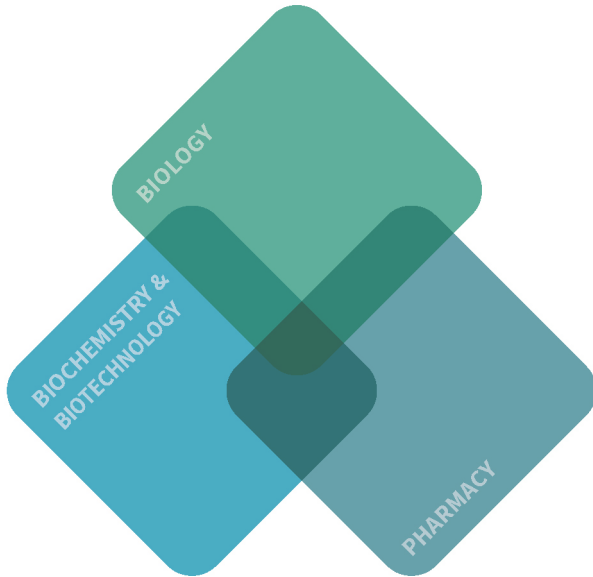
The faculty's teaching buildings and research facilities are concentrated at the Weinberg campus and at individual locations in the city center of Halle/Saale.



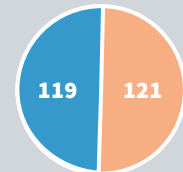
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HALLE-WITTENBERG

- Institute of Biochemistry and Biotechnology
- Institute of Biology
- Institute of Pharmacy
- Joint Professorships

**NUMBERS** (WS 2020/21)

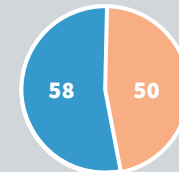


Students  
Biochemistry B.Sc.  
240



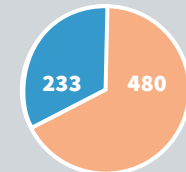
male female

Students  
Biochemistry M.Sc.  
108



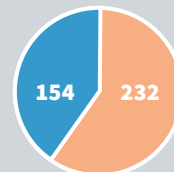
male female

Students  
Pharmacy  
713



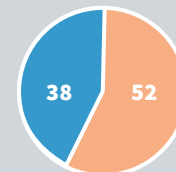
male female

Students  
Biology B.Sc.  
386



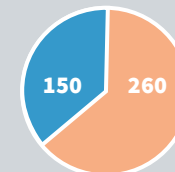
male female

Students  
Biology M.Sc.  
90



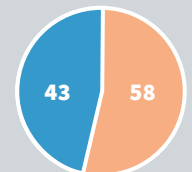
male female

Students  
Teacher Education in Biology  
410



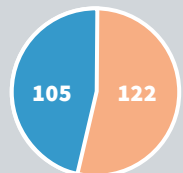
male female

Students  
International Master  
101



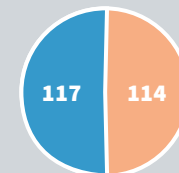
male female

PhD Students  
227



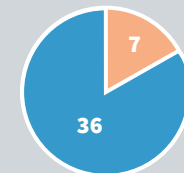
male female

Scientific Staff  
231



male female

Professors  
43



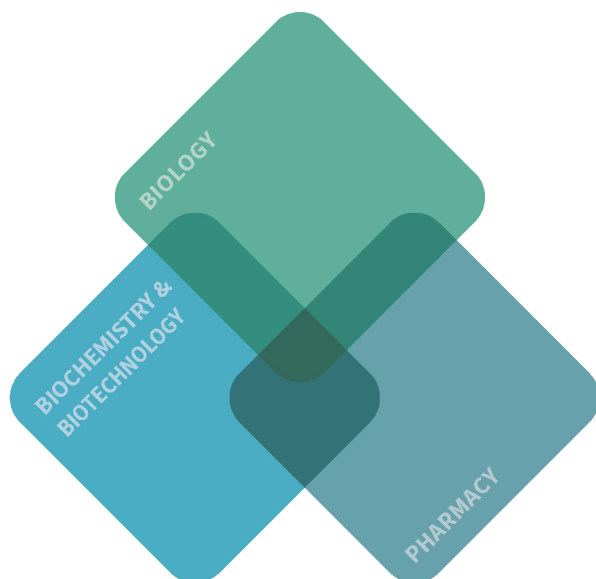
male female



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HALLE-WITTENBERG

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# Professors of the Faculty: Research Focus and Scientific Career

## FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

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### INSTITUTE OF BIOCHEMISTRY AND BIOTECHNOLOGY

**Institute of Biology**  
**Institute of Pharmacy**  
**Joint Professorships**



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#### » **Institute of Biochemistry and Biotechnology:**

**Director:** Prof. Dr. Mike Schutkowski

**Deputy Director:** Prof. Dr. Thomas Kiefhaber

#### » **Student Advisory Service:**

**Head:** PD Dr. Iris Thondorf

**Office:** Christin Hauer



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Source: MLU/Michael Deutsch



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

» Institute of Biochemistry and Biotechnology

» Research Group: Microbial Biotechnology

Institute of Biology

Institute of Pharmacy

Joint Professorships

### PROF. DR. SVEN-ERIK BEHRENS

#### Scientific Career

- since 2005 **Full Professor of Microbial Biotechnology**  
Martin Luther University of Halle-Wittenberg
- 2002–2005 **Member (Associate Professor)**  
Fox Chase Cancer Center, Philadelphia (US)
- 1999 **Post-doctoral lecture qualification (Habilitation) for Medical Virology**  
Justus Liebig University Giessen
- 1996–2002 **Principal Investigator at the Institute of Virology**  
Justus Liebig University Giessen (Prof Thiel)
- 1993–1995 **Postdoctoral associate**  
Istituto di Ricerche di Biologia Molecolare (IRBM) in Rome (IT) (Prof De Francesco, Prof Cortese)
- 1993–1997 **Fellowship awarded from the BMBF (German Federal Ministry of Education and Research)**  
Subject of research: "Molecular determinants of the replication of HCV and the HCV-related pestiviruses"
- 1992–1993 **Staff scientist at the Institute of Molecular Biology and Tumor Research (IMT)**  
Philipps University of Marburg (Prof Lührmann)
- 1992 **Doctors degree (Dr rer nat; PhD),** Free University of Berlin
- 1988–1992 **Doctoral thesis research at the Institute of Molecular Biology and Tumor Research (IMT)**  
Philipps University of Marburg (Prof Lührmann)
- 1988 **Diplom degree (M.Sc.) in Biochemistry,** Free University of Berlin
- 1987–1988 **Degree research,** Max Planck Institute for Molecular Genetics Berlin
- 1980–1988 **Studies in Biology, Chemistry and Biochemistry,** Free University of Berlin

#### Research Focus

- Characterization of functional RNA-protein interactions during virus replication
- Development of new methods of antiviral vaccination





## PROF. DR. FRANK BORDUSA

### Scientific Career

- since 2006 **Full Professor of Natural Biochemistry**  
Martin Luther University of Halle-Wittenberg
- 2005 **Appointment to the chair of Bioorganic Chemistry**  
Philipps University of Marburg
- 2004–2006 **Full Professor of Organic Chemistry**  
Eberhard Karls University of Tübingen
- 1998–2003 **Postdoc**  
University of Leipzig and Max-Planck-Society Halle division "Enzymology of Protein Folding"
- 1997 **Doctorate**  
University of Leipzig
- 1994 **Diploma in Biochemistry**  
University of Leipzig

### Research Focus

- Therapeutic proteins/antibodies
- Enzyme-engineering
- Phage-display/directed evolution
- Protein diagnostics
- Ionic liquids
- NMR



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

» Institute of Biochemistry and Biotechnology

» Research Group: Plant Biochemistry

Institute of Biology

Institute of Pharmacy

Joint Professorships

» Research Focus Program "Molecular Biosciences"

» Research Training Group 2498

### PROF. DR. INGO HEILMANN

#### Scientific Career

- since 2020 **Full Professor of Plant Biochemistry**  
Martin Luther University of Halle-Wittenberg
- since 2019 **Speaker of the RTG 2498 "Communication and Dynamics of Plant Cell Compartments"**
- since 2016 **Speaker of the Research Focus Program "Molecular Biosciences"**
- since 2010 **Full Professor of Cellular Biochemistry**  
Martin Luther University of Halle-Wittenberg
- 2004–2010 **Leader of an Emmy Noether Research Group**  
Georg-August University of Göttingen
- 2001–2004 **Postdoc**  
Brookhaven National Laboratory, Upton/NY (US)
- 2000–2001 **Postdoc**  
North Carolina State University, Raleigh/NC (US)
- 2000 **Dissertation (Dr rer nat)**  
Free University of Berlin
- 1997–1999 **Research**  
North Carolina State University, Raleigh/NC (US)
- 1996 **Diploma in Biology**  
Free University of Berlin

#### Research Focus

- Phosphoinositides and protein-lipid-interactions
- Dynamic association of proteins with membrane microdomains
- Mechanisms of cell polarity
- Plant development and stress responses



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Source: MLU/Maiko Glöckner



## PROF. DR. THOMAS KIEFHABER

### Scientific Career

- since 2014 **Full Professor of Protein Biochemistry**  
Martin Luther University of Halle-Wittenberg
- 2007–2014 **Full Professor of Biophysical Chemistry at the Institute of Physical Chemistry**  
Technical University of Munich
- 2006–2007 **Full Professor (Ordinarius) of Biophysical Chemistry at the Biozentrum**  
University of Basel (CH)
- 1999–2006 **Associate Professor (Extraordinarius) of Biophysical Chemistry at the Biozentrum**  
University of Basel (CH)
- 1995 **Habilitation in Biophysical Chemistry**  
University of Basel (CH)
- 1993–1999 **Research Group Leader/Assistant Professor at the Biozentrum**  
University of Basel (CH)
- 1991–1993 **Postdoc (Group of Prof. R. L. Baldwin)**  
Stanford University (US)
- 1989–1991 **PhD (Group of Prof. F. X. Schmid)**  
University of Regensburg and University of Bayreuth
- 1989 **Diploma in Biology**  
University of Regensburg
- 1988–1989 **Degree research at the Institute of Physical Biochemistry (Group of Prof. F. X. Schmid)**  
University of Regensburg
- 1984–1989 **Studies in Biology**  
University of Regensburg

### Research Focus

- Folding, dynamics and stability of proteins



## PROF. DR. MIKE SCHUTKOWSKI

### Scientific Career

- since 2010 **Full Professor of Enzymology**  
Martin Luther University of Halle-Wittenberg
- 2006–2009 **Managing Director**  
JPT Peptide Technologies GmbH
- 2000–2006 **Direktor Array Technologies**  
JERINI AG
- 1992–1999 **Scientist**  
Max Planck Research Group Halle
- 1991 **PhD Biochemistry**  
Martin Luther University of Halle-Wittenberg
- 1989 **Biochemistry Diploma**  
Martin Luther University of Halle-Wittenberg

### Research Focus

- Development of continuous and direct activity assays for acetyltransferases and protein-lysine-deac(et)ylases
- Application of peptide-microarray-technology in enzymology
- Use of thiocarbonyl compounds in enzymology



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HALLE-WITTENBERG

Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

» Institute of Biochemistry and Biotechnology

» Research Group: Molecular Biophysics

Institute of Biology

Institute of Pharmacy

Joint Professorships

### PROF. DR. MILTON T. STUBBS

#### Scientific Career

- since 2002 **Full Professor of Physical Biotechnology**  
Martin Luther University of Halle-Wittenberg
- 1996–2002 **Head of X-ray Crystallography, Department of Pharmaceutical Chemistry**  
Ludwig Maximilian University of Munich
- 1993–1996 **Senior Postdoc, funded by AKZO Nobel, Oss (NL)**  
Max Planck Institute of Biochemistry, Martinsried
- 1992–1993 **Högskolelektor (Senior Lecturer), Centrum för Strukturbiokemi**  
Karolinska Institutet (SE)
- 1987–1991 **Postdoc**  
Max Planck Institute of Biochemistry, Martinsried
- 1983–1986 **D.Phil. at the Laboratory of Molecular Biophysics under the supervision of Professor Sir David Phillips (Oxford) and Professor Andrew Miller (Edinburgh, Scotland)**  
University of Oxford (UK)
- 1980–1983 **B.Sc. (Hons.) in Physics**  
University of Durham (UK)

#### Research Focus

- Structural biology of therapeutically relevant proteins
- Conformational changes of macromolecules
- Natural product biosynthesis
- Signal transduction
- Membrane proteins
- Investigation of the influence of protein flexibility on ligand binding



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HALLE-WITTENBERG

Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

» Institute of Biochemistry and Biotechnology

» Research Group: General Biochemistry

Institute of Biology

Institute of Pharmacy

Joint Professorships

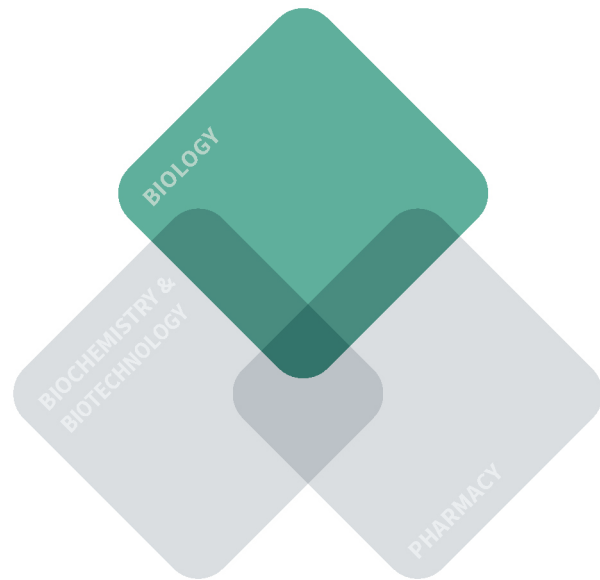
### PROF. DR. ELMAR WAHLE

#### Scientific Career

- since 1997 **Full Professor of Biochemistry**  
Martin Luther University of Halle-Wittenberg
- 1995 **Associate Professor of Biochemistry**  
Justig Liebig University Giessen
- 1993–1995 **Heisenberg Fellow and Research Group Leader, Biozentrum**  
University of Basel (CH)
- 1992 **Habilitation (teaching qualification) in Biochemistry**  
University of Basel (CH)
- 1988–1992 **Scientific Assistant, Biozentrum (Walter Keller)**  
University of Basel (CH)
- 1985–1988 **Postdoc, Department of Biochemistry (Arthur Kornberg)**  
Stanford University (US)
- 1983–1985 **Postdoc, Institute of Zoology (Karl Müller)**  
University of Münster
- 1983 **PhD, Institute of Zoology (Karl Müller)**  
University of Münster
- 1979 **Diploma in Biology**  
University of Münster

#### Research Focus

- Regulation of translation and mRNA stability
- 3' Processing of eukaryotic mRNA precursors



# Professors of the Faculty: Research Focus and Scientific Career

## FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

---

Institute of Biochemistry and Biotechnology

**INSTITUTE OF BIOLOGY** ■

**Institute of Pharmacy**

**Joint Professorships**



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» **Institute of Biology:**

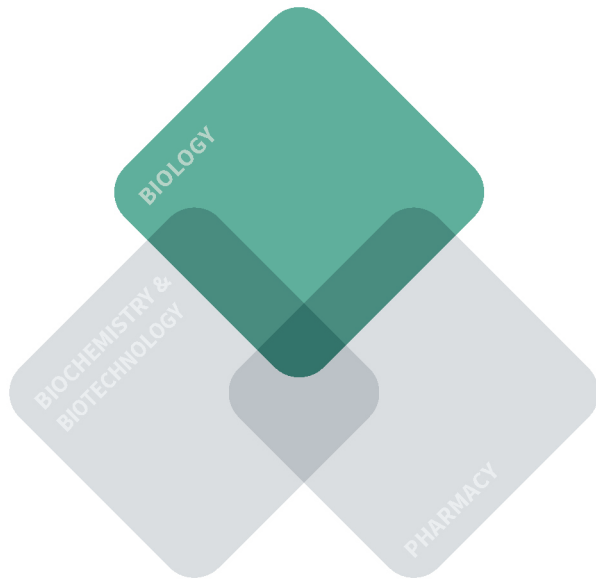
**Director:** Prof. Dr. Klaus Humbeck

**Deputy Director:** Prof. Dr. Robert Gary Sawers

» **Student Advisory Service:**

**Head:** PD Dr. Ulrich Arnold

**Office:** Martina Müller



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UNIVERSITÄT  
HALLE-WITTENBERG

Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» Institute of Biology

» Department: Genetics

» Research Group: Plant Genetics

Institute of Pharmacy

Joint Professorships

### PROF. DR. ULLA BONAS

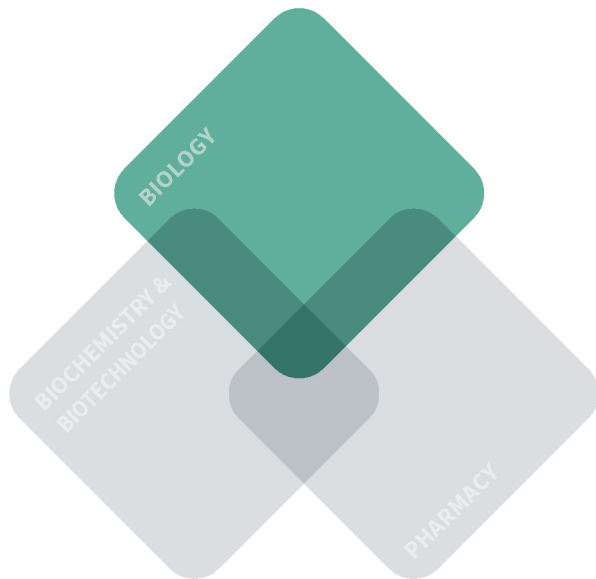
#### Scientific Career

- |            |   |
|------------|---|
| since 1998 | <b>Full Professor of Plant Genetics</b><br>Martin Luther University of Halle-Wittenberg   |
| 1993–1998  | <b>Group Leader</b><br>CNRS Institut des Sciences Végétales, Gif-sur-Yvette (FR)  |
| 1992       | <b>Habilitation</b><br>Free University of Berlin  |
| 1988–1993  | <b>Leader of an Independent Research Group</b><br>Genbiologische Forschung Berlin GmbH, Berlin  |
| 1986–1987  | <b>Postdoctoral Research Fellow, Group of Prof. B. Staskawicz, Department of Plant Pathology</b><br>University of California, Berkeley (US) |
| 1985–1986  | <b>Postdoctoral Research Fellow, Group of Prof. R. Sung, Department of Genetics</b><br>University of California, Berkeley (US)              |
| 1984–1985  | <b>Postdoctoral Research Fellow, Group of Prof. H. Saedler</b><br>Max Planck Institute for Plant Breeding Research, Cologne                 |
| 1984       | <b>PhD</b><br>University of Cologne   |
| 1981–1984  | <b>Graduate Student, Group of Prof. H. Saedler</b><br>Max Planck Institute for Plant Breeding Research, Cologne                             |
| 1981       | <b>Diploma in Biology</b><br>University of Cologne  |

#### Research Focus

- Plant-pathogen interaction
- Type III effector proteins and plant targets
- Bacterial protein secretion systems





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Source: MLU/Projektgruppe Fakultätsmarketing NF1



» FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» Institute of Biology

» Department: Geobotany and Botanical Garden

» Research Group: Geobotany

Institute of Pharmacy

Joint Professorships

» DFG GRK 2324

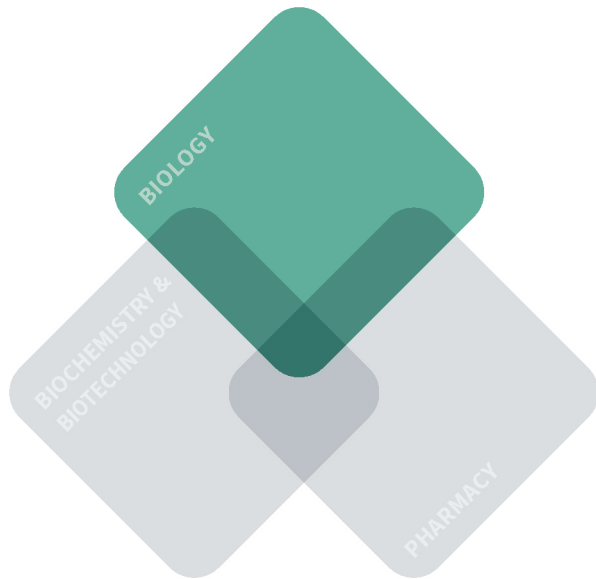
**PROF. DR. HELGE BRUELHEIDE**

**Scientific Career**

- since 2018 Member of the Selection Committee for Research Fellowships of the Alexander von Humboldt Foundation
- since 2018 Speaker of the International Research Training Group TreeDi – 林地 – Tree Diversity Interactions (DFG GRK 2324)
- since 2017 Member of the "Steering Committee sPlot" (global vegetation databases)
- since 2015 Council member of the Scientific Advisory Council of the Hainich National Park
- since 2013 Member of the "Steering Committee BEF-China"
- since 2012 **Co-director of iDiv (German Centre for Integrative Biodiversity Research, DFG Research Centre 118)**
- since 2007 Elected member of the Advisory Council of the "International Association of Vegetation Science" (IAVS)
- since 2004 Council member of the Scientific Advisory Council of the Harz National Park
- since 2004 **Full Professor of Geobotany at the Institute of Biology/Geobotany and Botanical Garden**  
Martin Luther University of Halle-Wittenberg
- 2001–2010 Associate Editor "Journal of Vegetation Science"
- 2001–2003 **Assistant Professor (Oberassistent) in the Department of Ecology and Ecosystem Research**  
Georg-August University of Göttingen
- 2001 **Habilitation (Venia Legendi for Botany)**, Georg-August University of Göttingen
- 1995–2001 **Research assistant (Hochschulassistent) in the Department of Ecology and Ecosystem Research**  
Georg-August University of Göttingen (Group of Prof. Dr. M. Runge)
- 1995 **Dissertation (summa cum laude)**, Georg-August University of Göttingen
- 1990–1995 **Research assistant of the Department of Vegetation Science**, Georg-August University of Göttingen
- 1988–1989 **Diploma thesis in vegetation (with distinction)** (Group of Prof. Dr. H. Dierschke)
- 1986–1988 **Studies in Biology**, Georg-August University of Göttingen
- 1981–1985 **Studies in Biology and Geography**, University of Münster

**Research Focus**

- Biodiversity research, biodiversity and ecosystem functions, biogeography and nature conservation
- Vegetation ecology and vegetation databases, vegetation monitoring
- Invasion biology



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UNIVERSITÄT  
HALLE-WITTENBERG

Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
 » Institute of Biology  
 » Department: Genetics  
 » Research Group: Developmental Genetics  
 Institute of Pharmacy  
 Joint Professorships

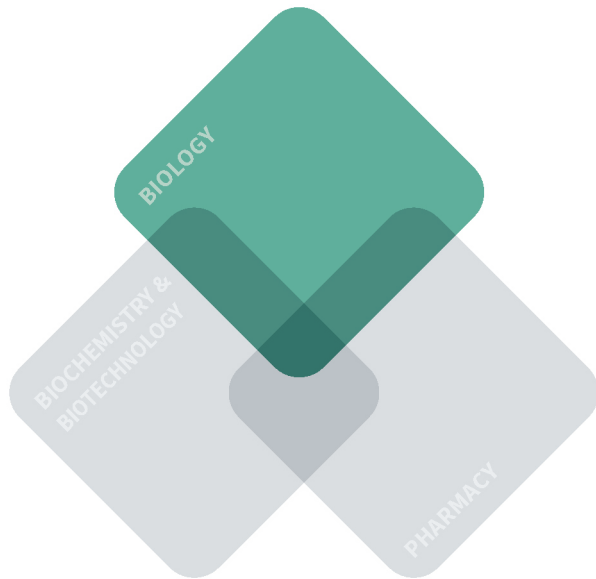
### PROF. DR. CHRISTIAN ECKMANN

#### Scientific Career

- since 2016 **Heisenberg Professor of Developmental Genetics**  
Martin Luther University of Halle-Wittenberg
- 2015–2016 **DFG Heisenberg Fellow and Independent Research Group Leader of Sachsen-Anhalt's Research Program "Molecular Biosciences", Natural Sciences I,**  
Martin Luther University of Halle-Wittenberg
- 2004–2014 **Independent Junior and Senior Research Group Leader**  
Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), Dresden
- 2002–2003 **Research Assistant in the lab of Prof. Kimble, Howard Hughes Medical Institute (HHMI)**  
University of Wisconsin-Madison (US)
- 1999–2002 **Postdoctoral Fellow, Howard Hughes Medical Institute (HHMI), Dept. of Biochemistry**  
University of Wisconsin-Madison (US); Mentors: Profs. Kimble and Wickens;  
**HFSP Longterm-Stipend Holder of the Human Frontiers Science Project Organization**
- 1998–1999 **Research Assistant in the lab of Prof. Jantsch (Dept. of Chromosome Biology)**  
University of Vienna
- 1998 **Graduation in Genetics (Doktor rer. nat.)**  
University of Vienna
- 1995–1998 **PhD Thesis work in the lab of Prof. Jantsch (Dept. of Chromosome Biology)**  
University of Vienna; DOC Stipend-Holder of the Austrian Academy of Sciences
- 1995 **Graduation in Molecular Biology (Magister rer. nat.)**  
University of Vienna (AT)
- 1994–1995 **Master Thesis work in the lab of Prof. Schweizer (Dept. of Cytology and Genetics)**  
University of Vienna (AT)

#### Research Focus

- Biology of germ cells: Formation and differentiation of the germ line; Reductional division (meiosis) and maturation of gametes (egg and sperm); Development and physiology of germ cells
- RNA Biology: Post-transcriptional control of gene expression (RNA stability and translational control); RNA-modifying enzymes and RNA-binding proteins; Dynamics of RNA-Protein complexes; post-translational modifications of RNA-regulating proteins



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» Institute of Biology

» Department: Geobotany and Botanical Garden

» Research Group: Plant Ecology

Institute of Pharmacy

Joint Professorships

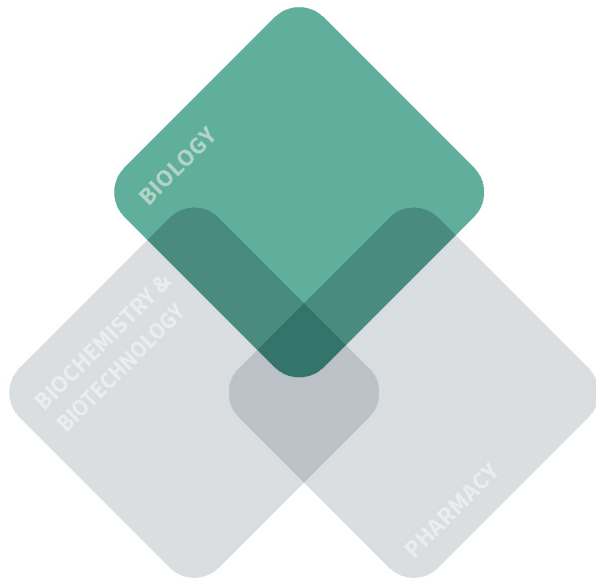
### PROF. DR. ISABELL HENSEN

#### Scientific Career

- 2010–2014 **Director of the Institute of Biology and Dean of Studies**  
Faculty of Natural Sciences 1, Martin Luther University of Halle-Wittenberg
- since 1999 **Full Professor of Plant Ecology**  
Martin Luther University of Halle-Wittenberg
- 1999 **Habilitation (Venia Legendi for Botany)**  
Free University of Berlin
- 1993–1999 **Research Assistant**  
Free University of Berlin
- 1993 **PhD**  
Georg-August University of Göttingen
- 1988–1989 **Research Assistant**  
University of Cochabamba (BO)
- 1988 **Diploma in Biology**  
University of Oldenburg

#### Research Focus

- Reproduction and population genetics of tropical alpine plants
- Population ecology of grassland species
- Nature conservation biology
- Invasion biology
- Seed ecology



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## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» Institute of Biology

» Department: Plant Physiology

» Research Group: Plant Physiology

Institute of Pharmacy

Joint Professorships

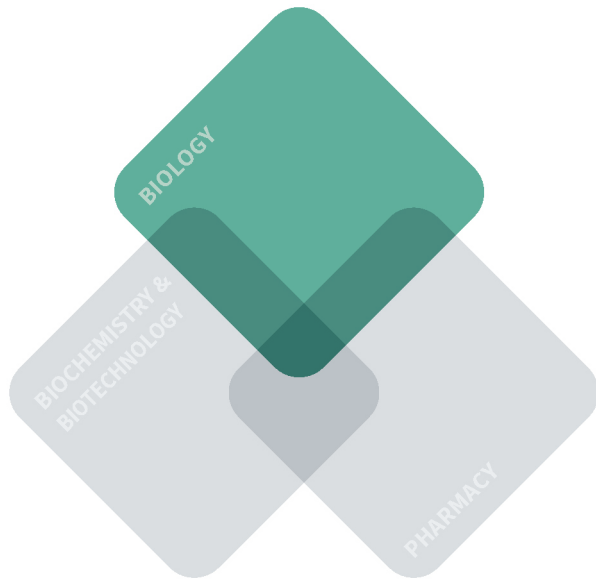
### PROF. DR. KLAUS HUMBECK

#### Scientific Career

- |            |   |
|------------|---|
| since 1997 | <b>Full Professor of Plant Physiology</b><br>Martin Luther University of Halle-Wittenberg |
| 1996–1997  | <b>Lecturer at Institute of Botany</b><br>University of Cologne                           |
| 1990–1995  | <b>Postdoc</b><br>Center of Applied Molecular Biology of Plants, Hamburg                  |
| 1990       | <b>Habilitation in Plant Biochemistry</b>   |
| 1985–1986  | <b>Postdoc</b><br>Oregon State University (US)  |
| 1984       | <b>PhD</b><br>Philipps University of Marburg  |
| 1981       | <b>Diploma in Chemistry</b><br>Philipps University of Marburg                             |

#### Research Focus

- Regulatory pathways of leaf senescence
- Plant responses to abiotic and biotic stress
- Epigenetic control of plant performance



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» Institute of Biology

» Department: Plant Physiology

» Research Group: General Botany

Institute of Pharmacy

Joint Professorships

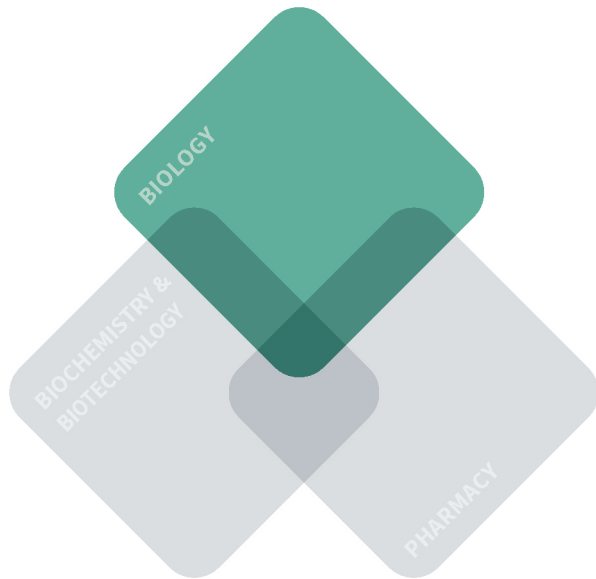
### PROF. DR. RALF BERND KLÖSGEN

#### Scientific Career

since 1998	<b>Full Professor of General Botany</b> Martin Luther University of Halle-Wittenberg
1995–1998	<b>Lecturer at the Botanical Institute</b> Ludwig Maximilian University of Munich
1995	<b>Habilitation</b> Ludwig Maximilian University of Munich
1989–1995	<b>Scientific Assistant at the Botanical Institute, Group of Prof. Dr. Reinhold Herrmann</b> Ludwig Maximilian University of Munich
1987–1989	<b>Postdoc (EMBO Fellowship), Group of Prof. Dr. Jacques-Henry Weil</b> Institut de Biologie Moléculaire des Plantes du CNRS, Strasbourg (FR)
1986–1987	<b>Postdoc, Group of Prof. Dr. Heinz Saedler</b> Max Planck Institute for Plant Breeding Research, Cologne
1986	<b>Dissertation (Dr. rer. nat.)</b> University of Cologne
1984–1986	<b>PhD, Group of Prof. Dr. Heinz Saedler</b> Max Planck Institute for Plant Breeding Research, Cologne
1978–1984	<b>Studies in Biology</b> University of Cologne

#### Research Focus

- Biogenesis of the thylakoid membrane
- Intraorganellar protein sorting
- Transport mechanisms
- Components of the thylakoidal protein transport machinery
- Dual targeting - organelle specificity of nuclear encoded proteins



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
» **Institute of Biology**  
» **Department: Zoology**  
» **Research Group: Animal Physiology**  
Institute of Pharmacy  
Joint Professorships

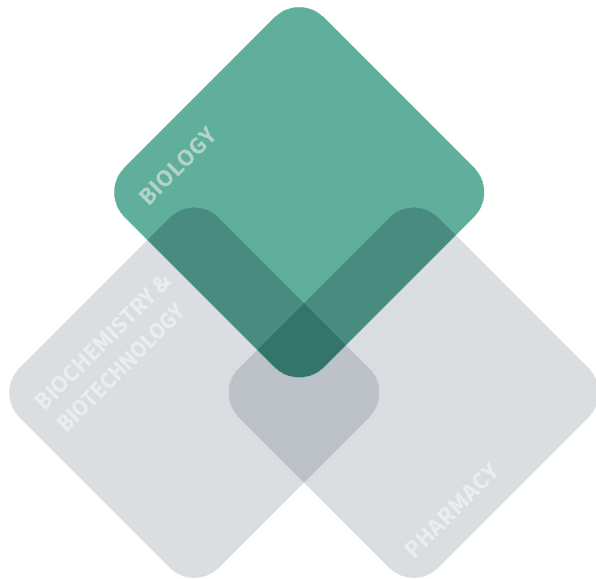
### PROF. DR. JÜRGEN KRIEGER

#### Scientific Career

- |            |  |
|------------|--|
| since 2015 | <b>Full Professor of Animal Physiology</b><br>Martin Luther University of Halle-Wittenberg   |
| 2002–2015  | <b>Associate Professor and Head of the Research Group "Chemoreception in Insects"</b><br>Institute of Physiology, University of Hohenheim, Stuttgart |
| 1995–2002  | <b>Academic Assistant</b><br>Institute of Physiology, University of Hohenheim, Stuttgart   |
| 1991–1995  | <b>Postdoc</b><br>Institute of Animal Physiology, University of Hohenheim, Stuttgart   |
| 1991       | <b>PhD</b><br>University of Hohenheim, Stuttgart   |
| 1987       | <b>Diploma in Biology</b><br>University of Osnabrück   |

#### Research Focus

- Chemosensation in insects
- Cellular and molecular physiology of olfactory systems
- Primary processes of odour detection and signal transduction
- Reception and coding of pheromone signals



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## PROF. DR. KRISTINA KÜHN

### Scientific Career

- |            |  |
|------------|--|
| since 2018 | <b>Full Professor of Cell Physiology</b><br>Martin Luther University of Halle-Wittenberg   |
| 2012–2018  | <b>Junior Professor of Plant Molecular Cell Biology at the Institute of Biology</b><br>Humboldt University of Berlin                         |
| 2010–2012  | <b>Postdoc, Group of Dr. José Gualberto</b><br>Institut de Biologie Moléculaire des Plantes du CNRS, Strasbourg (FR)                         |
| 2006–2009  | <b>Postdoc, Group of Prof. James Whelan</b><br>ARC Centre of Excellence in Plant Energy Biology, University of Western Australia, Perth (AU) |
| 2006       | <b>Dissertation (Dr. rer. nat.)</b><br>Humboldt University of Berlin   |
| 2002–2006  | <b>PhD, Group of Prof. Dr. Heinz Saedler, Institute of Biology</b><br>Humboldt University of Berlin  |
| 1995–2001  | <b>Studies in Biology</b><br>Humboldt University of Berlin   |

### Research Focus

- Transcription on mitochondrial and chloroplast genomes
- Post-transcriptional processes in mitochondria
- Mitochondrial biogenesis and function

## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

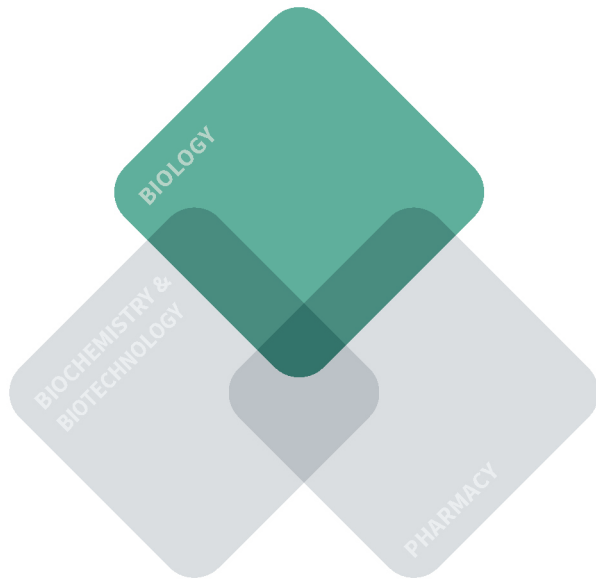
» Institute of Biology

» Department: Plant Physiology

» Research Group: Cell Physiology

Institute of Pharmacy

Joint Professorships



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
 » Institute of Biology  
 » Department: Didactics of Biology  
 Institute of Pharmacy  
 Joint Professorships

### PROF. DR. MARTIN LINDNER

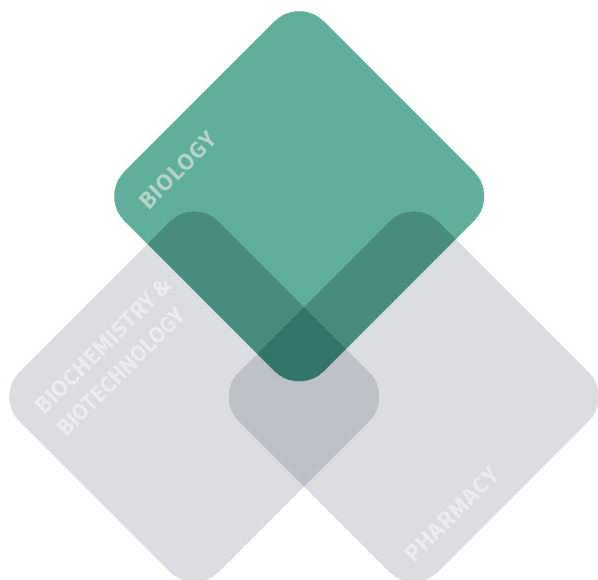
#### Scientific Career

- since 2010 **Full Professor of Biology and Geography Education**  
Martin Luther University of Halle-Wittenberg
- 2002 **PhD "Vegetation and Stratigraphy of Sphagnum bogs in North Germany and South Jotland (Denmark)"**
- 2000–2010 **Coordination of the German SINUS-Program**  
Ministry of Education, Kiel/Schleswig-Holstein
- 1996–2000 **Lecturer ('Abgeordneter Studienrat')**  
University of Flensburg
- 1993–1996 **Lecturer ('Abgeordneter Studienrat')**  
Christian-Albrechts University of Kiel
- 1986–1996 **Teacher at a high school ('Gymnasium') in Rendsburg, North-Germany**
- 1984–1985 **Teacher in-service Training ('Referendariat') at a high school**
- 1976–1983 **Studies as pre-service Teacher in Biology and Chemistry**  
Christian-Albrechts University of Kiel

#### Research Focus

- Electronic media in biology and geography classes
- STEM education
- Outdoor education
- Professional development for teachers in an international context





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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
 » Institute of Biology  
 » Department: Microbiology  
 » Research Group: Molecular Microbiology  
 Institute of Pharmacy  
 Joint Professorships

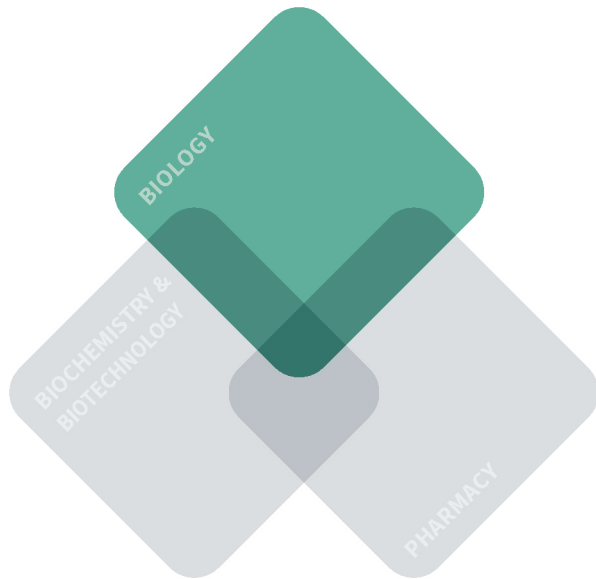
### PROF. DR. DIETRICH H. NIES

#### Scientific Career

- since 2015 **Dean, Faculty of Natural Sciences 1 - Biosciences**  
Martin Luther University of Halle-Wittenberg
- 2009–2011 **Speaker, Conference of German Mathematical and Natural Science Faculties**
- 2008–2012 **Speaker, Conference of German Biological Faculties**
- 2006–2008 **Founding Dean, Faculty of Natural Sciences 1 - Biosciences**  
Martin Luther University of Halle-Wittenberg
- since 1993 **Full Professor of Molecular Microbiology**  
Martin Luther University of Halle-Wittenberg
- 1993 **Habilitation in Microbiology**  
Free University of Berlin
- 1990–1993 **Scientific Assistant (equal Assistant Professor), Institute of Plant Physiology and Microbiology**  
Free University of Berlin
- 1989–1990 **Scientist, Institute of Plant Physiology and Microbiology**  
Free University of Berlin
- 1987–1989 **Visiting Scientist, Department of Microbiology and Immunology**  
University of Illinois at Chicago (US)
- 1985 –1987 **Scientist, Institute of Plant Physiology and Microbiology**  
Free University of Berlin
- 1985 **PhD**  
Georg-August University of Göttingen

#### Research Focus

- Transport and metabolism of transition metals in proteobacteria



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Source: MLU/Michael Deutsch



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» Institute of Biology

» Department: Zoology

» Research Group: General Zoology

Institute of Pharmacy

Joint Professorships

» TEDxUniHalle

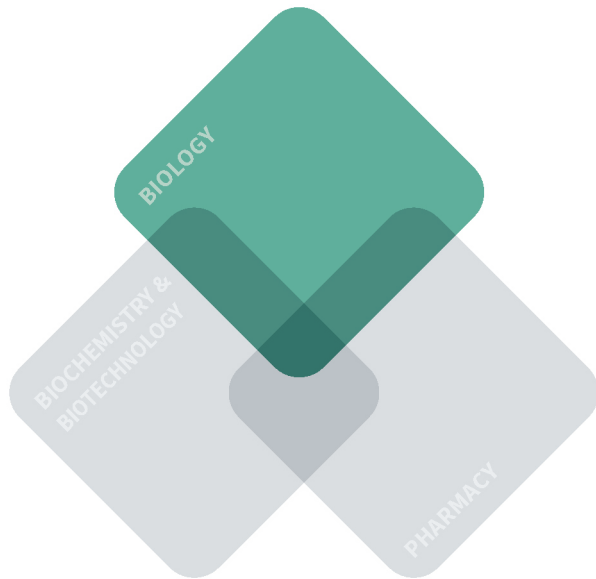
### PROF. DR. ROBERT J. PAXTON

#### Scientific Career

- |            |  |
|------------|--|
| since 2010 | <b>Full Professor of General Zoology</b><br>Martin Luther University of Halle-Wittenberg   |
| 2003–2010  | <b>Reader</b><br>School of Biological Sciences, Queen's University Belfast (GB)            |
| 2000       | <b>Habilitation in Zoology</b><br>Queen's University Belfast (GB)                          |
| 1996–2003  | <b>Scientific Assistant</b><br>Institute of Zoology, Eberhard Karls University of Tübingen |
| 1993–1996  | <b>Postdoctoral Researcher</b><br>Institute for Genetics, Uppsala University (SE)          |
| 1985–1993  | <b>Postdoctoral Assistant</b><br>School of Biology, Cardiff University (GB)                |
| 1980–1985  | <b>PhD</b><br>University of Sussex (GB)  |
| 1977–1980  | <b>Bachelors in Biological Sciences (1st Class)</b><br>University of Sussex (GB)           |

#### Research Focus

- Origins of sociality and the evolution of social systems in insects, with a focus on bees
- Pollination as an ecosystem service, and the conservation of pollinators
- Host-parasite interactions, especially between bees and their viral pathogens, and with a focus on the population genetics of those parasites



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Source: Staffan Widstrand



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
» **Institute of Biology**  
» **Department: Zoology**  
» **Research Group: Biodiversity Conservation**  
Institute of Pharmacy  
Joint Professorships

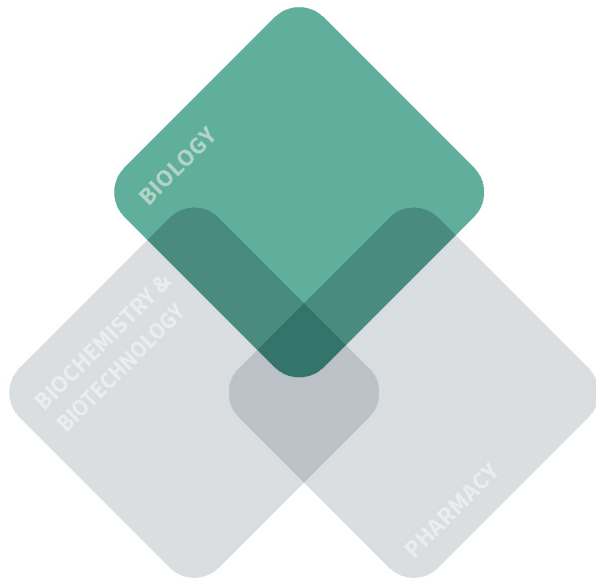
### PROF. DR. HENRIQUE MIGUEL PEREIRA

#### Scientific Career

- since 2013 **Full Professor of Biodiversity and Nature Conservation at the Institute of Biology**  
Martin Luther University of Halle-Wittenberg and  
**Head of Research Group "Biodiversity and Conservation"**  
German Center for Integrative Biodiversity Research (iDiv), Halle-Jena-Leipzig
- since 2015 **Visiting Professor of Biodiversity at CIBIO (Research Centre in Biodiversity and Genetic Resources)**  
University of Porto (PT)
- 2011 **Habilitation in Ecology**  
University of Lisbon (PT)
- 2002 **Doctorate (PhD) in Biological Sciences**  
Stanford University (US)
- 1998 **M. Sc. in Biophysics**  
University of Lisbon (PT)
- 1995 **Diploma "Electrical and Computer Engineering"**  
University of Lisbon (PT)

#### Research Focus

- Global biodiversity change
- Biodiversity scenarios and modelling
- "Rewilding" and land-use change
- Biodiversity monitoring



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» Institute of Biology

» Department: Geobotany and Botanical Garden

» Research Group: Systematics & Biodiversity

Institute of Pharmacy

Joint Professorships

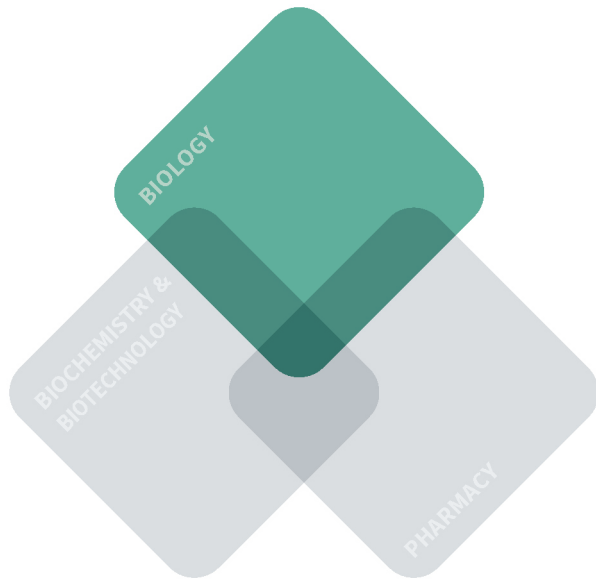
### PROF. DR. MARTIN RÖSER

#### Scientific Career

- |            |  |
|------------|--|
| since 2001 | <b>Full Professor of Systematic Botany and Biodiversity Research</b><br>Martin Luther University of Halle-Wittenberg |
| 1999       | <b>Habilitation</b><br>University of Leipzig   |
| 1995–2000  | <b>Research Associate</b><br>University of Leipzig   |
| 1990–1995  | <b>Postdoc and Research Associate</b><br>University of Vienna  |
| 1978–1989  | <b>University Studies and PhD</b><br>Eberhard Karls University of Tübingen   |

#### Research Focus

- Morphology
- Cytogenetics
- Biogeography
- Phylogeny and evolution of seed plants



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Source: MLU/Markus Scholz



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
» Institute of Biology  
» Department: Microbiology  
» Research Group: General Microbiology  
Institute of Pharmacy  
Joint Professorships

### PROF. DR. ROBERT GARY SAWERS

#### Scientific Career

- since 2007 **Full Professor of General Microbiology**  
Martin Luther University of Halle-Wittenberg
- 2006–2007 **Guest Professor**  
Max-Planck Institute for Terrestrial Microbiology, Marburg
- 1995–2005 **Project Leader, Department of Molecular Microbiology**  
John Innes Centre, Norwich (UK)
- 1990–1994 **Senior Research Scientist, Department of Microbiology**  
Ludwig Maximilian University of Munich
- 1985–1990 **Post-doctoral Researcher, Department of Microbiology**  
Ludwig Maximilian University of Munich
- 1981–1985 **PhD, Department of Biochemistry**  
University of Dundee, Scotland (UK)
- 1977–1981 **B.Sc. (Hons), Biochemistry**  
Hariat-Watt University, Edinburgh, Scotland (UK)

#### Research Focus

- Structure function analyses of hydrogenases
- Hydrogen and formate metabolism in microorganisms
- Oxygen-stress and nitrate respiration in streptomycetes



# Professors of the Faculty: Research Focus and Scientific Career

## FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

---

**Institute of Biochemistry and Biotechnology**

**Institute of Biology**

**INSTITUTE OF PHARMACY** ■

**Joint Professorships**

» **Institute of Pharmacy**

**Director:** Prof. Dr. Karsten Mäder

**Deputy Director:** Prof. Dr. Andrea Sinz

» **Student Advisory Service: Pharmacy** (State Examination/Diploma)

**Head:** Prof. Dr. Andreas Hilgeroth

**Office:** Marion Tannhäuser

» **Student Advisory Service: Pharmaceutical and Industrial Biotechnology** (M. Sc.)

**Head:** Prof. Dr. Markus Pietzsch

**Office:** Sylvi Magdeburg



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HALLE-WITTENBERG

Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Chemistry and Clinical Pharmacy

» Research Group: Clinical Pharmacy

Joint Professorships

## PROF. DR. RALF ANTON BENNDORF

### Scientific Career

- since 2013 **Full Professor and Head of the Department of Clinical Pharmacy and Pharmacotherapy**  
Martin Luther University of Halle-Wittenberg
- 2012–2013 **Associate Professor - Cardiovascular Research**  
Julius Maximilian University of Würzburg
- 2011 **Habilitation in Experimental and Clinical Pharmacology and Toxicology**  
University of Hamburg
- 2009–2012 **Assistant Professor, Institute of Pharmacology and Clinical Pharmacy**  
Technical University of Braunschweig
- 2005–2009 **Senior Research Fellow, Institute of Experimental and Clinical Pharmacology and Toxicology**  
University Medical Center Hamburg-Eppendorf
- 2004–2005 **Resident, Department of General and Interventional Cardiology**  
University Medical Center Hamburg-Eppendorf
- 2001–2004 **Research Fellow, Institute of Experimental and Clinical Pharmacology and Toxicology**  
University Medical Center Hamburg-Eppendorf

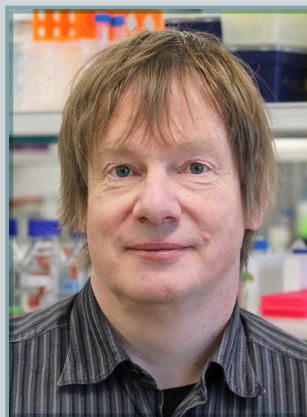
### Research Focus

- Role of G protein-coupled receptors in angiogenesis
- Development of live-cell techniques for the analysis of angiogenesis in vitro
- Isoprostanes as biomarkers and mediators of cardiovascular disease
- Role of vascular thromboxane A<sub>2</sub> receptors in atherosclerosis
- Pharmacogenetics of ATP-binding cassette (ABC) transporters



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Biology and Pharmacology

» Research Group: Pharmaceutical Biotechnology

Joint Professorships

### PROF. DR. JÖRG DEGENHARDT

#### Scientific Career

- |            |   |
|------------|---|
| since 2008 | <b>Full Professor of Pharmaceutical Biotechnology</b><br>Martin Luther University of Halle-Wittenberg |
| 2007       | <b>Habilitation</b><br>Friedrich Schiller University Jena   |
| 1998–2008  | <b>Group Leader</b><br>Max Planck Institute for Chemical Ecology, Jena                                |
| 1995–1998  | <b>Postdoc</b><br>Boyce Thompson Institute, Cornell University (US)                                   |
| 1995       | <b>PhD</b><br>Ruhr-University Bochum and University of California at Los Angeles (US)                 |
| 1990       | <b>Diploma in Biology</b><br>Ruhr-University Bochum   |

#### Research Focus

- Biosynthesis of plant natural products of pharmaceutical importance
- Plant signal transduction processes in response to herbivory
- Generation of plants with altered natural product profile and elevated insect resistance





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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Technology and Biopharmaceutics

» Research Group: Biomedical Materials

Joint Professorships

## PROF. DR. THOMAS GROTH

### Scientific Career

- 2020–2023 **Secretary & Treasurer International Federation for Artificial Organs**
- 2020 **ESAO Editor "Artificial Organs"**
- 2015–2017 **President European Society for Artificial Organs (ESAO, until 2019 Past President)**
- since 2014 **Elected Member Leibniz Sozietät der Wissenschaften zu Berlin e.V.**
- since 2004 **Full Professor of Biomedical Materials**  
Martin Luther University of Halle-Wittenberg
- 2003 **Habilitation (DSc) in Biotechnology/Biomaterials Research**  
University of Potsdam
- 1995–2004 **Research Associate and Head of Department Biomaterials, Institute of Chemistry**  
GKSS Research Center Geesthacht
- 1991 **PhD (Dr. rer. nat) in Biophysics, Institute of Biology**  
Humboldt University of Berlin
- 1985–1994 **PhD Student & Research Assistant , Department Biomaterials Research Medical School Charité**  
Humboldt University of Berlin
- 1985 **Diploma (MSc) in Biology**
- 1980–1985 **Studies in Biology and Biophysics**  
Humboldt University of Berlin

### Research Focus

- Development of biomaterials for application in pharmacy and regenerative medicine
- Development of methods of tissue engineering of bone and cartilage
- Synthesis and testing of hydrogels for bioprinting applications



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UNIVERSITÄT  
HALLE-WITTENBERG

Source: privat



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Chemistry and Clinical Pharmacy

» Research Group: Pharmaceutical Chemistry

Joint Professorships

### PROF. DR. PETER IMMING

#### Scientific Career

- since 2004 **Full Professor of Pharmaceutical Chemistry and Head of the Department of Clinical Pharmacy and Pharmacotherapy**  
Martin Luther University of Halle-Wittenberg
- 2001–2004 **Assistant Professor of Pharmaceutical Chemistry**  
Philipps University of Marburg
- 1999–2001 **Acting Chair of Pharmaceutical Chemistry**  
University of Münster
- 1995 **Habilitation in Pharmaceutical Chemistry**  
Philipps University of Marburg
- 1988–1989 **DFG scholarship-funded Postdoc with Prof. Dr. Jack E. Baldwin**  
Department of Organic Chemistry, University of Oxford (UK)
- 1987 **Dr. rer.nat. (PhD) "summa cum laude"**  
Philipps University of Marburg

#### Research Focus

- New drugs against tuberculosis and Mycobacterium abscessus infections: design, synthesis, physicochemical characterisation, assaying, pharmacokinetic investigation
- German Federal Ministry of Education and Research funded TRISUSTAIN Project (investigation of anti-infective East African plants)
- Stable radicals as EPR probes for diagnostic purposes
- Near Infrared Spectroscopy for Industrial Pharmaceutical Quality Control



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UNIVERSITÄT  
HALLE-WITTENBERG

Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Biology and Pharmacology

» Research Group: Biosynthesis of Active Substances

Joint Professorships

## PROF. DR. BJÖRN JUNKER

### Scientific Career

since 2013	<b>Full Professor of Biosynthesis of Active Substances</b> Martin Luther University of Halle-Wittenberg
2008–2013	<b>Group leader</b> Leibniz Institute of Plant Genetics and Crop Plant Research (IPK Gatersleben)
2007–2008	<b>Project coordinator</b> Leibniz Institute of Plant Genetics and Crop Plant Research (IPK Gatersleben)
2006–2007	<b>Postdoc</b> Brookhaven National Laboratory (BNL), Long Island, NY (US)
2003–2006	<b>Postdoc</b> Leibniz Institute of Plant Genetics and Crop Plant Research (IPK Gatersleben)
2003	<b>PhD (Dr. rer. nat.)</b> University of Potsdam
2000–2003	<b>PhD student</b> Max Planck Institute of Molecular Plant Physiology, Potsdam-Golm
2000	<b>Diploma student</b> Massachusetts Institute of Technology (MIT), Cambridge, MA (US)
1997–2000	<b>Studies in Biotechnology, Diploma in Biotechnology/Diplôme d'Ingénieur en Biotechnologie</b> École Supérieure de Biotechnologie de Strasbourg (ESBS) (FR)

### Research Focus

- Terpene biosynthesis in plants
- Central metabolism of crops
- Metabolic modeling
- Mass spectrometry



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Source: Ehrlich



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Biology and Pharmacology

» Research Group: Pharmacology & Toxicology for Natural Sciences  
Joint Professorships

## PROF. DR. SONJA M. KESSLER

### Scientific Career

- since 2019 **Full Professor of Experimental Pharmacology for Natural Sciences**  
Martin Luther University of Halle-Wittenberg
- 2019 **Habilitation in Pharmacology and Pharmaceutical Biology**
- 2017–2018 **Visiting Professor of Molecular and Clinical Pharmacy**  
Friedrich–Alexander University Erlangen–Nürnberg
- 2015–2019 **Senior Postdoc**, Pharmaceutical Biology, Saarland University
- 2014 **Postdoc/Visiting Scientist, Laboratory of Hepato-Gastroenterology**  
Institut de Recherche Expérimentale et Clinique, Université Catholique de Louvain, Brussels (BE)
- 2012 **Postdoc/Visiting Scientist (EASL Dame Sheila Sherlock Short Term Fellowship)**  
Institute of Pathology, Medical University Graz (AT)
- 2011–2015 **Postdoc, Pharmaceutical Biology**, Saarland University
- 2011 **PhD (Dr. rer. nat.)**, Pharmaceutical Biology, Saarland University
- 2006 **Industrial training, Department of Cell Biology and Antibody Development**  
Roche Diagnostics GmbH, Penzberg
- 2005 **Licence as Pharmacist** (PharmD; Approbation)
- 2004–2005 **Diploma in Pharmaceutical Technology**, Beiersdorf AG, Hamburg
- 2000–2004 **Studies in Pharmacy**, University of Greifswald

### Research Focus

- Pathomechanisms of gastrointestinal carcinogenesis
- Pathophysiology of inflammatory and malignant liver diseases
- Post-transcriptional regulation



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Chemistry and Clinical Pharmacy

» Research Group: Biochemical Pharmacy

Joint Professorships

## PROF. DR. ANDREAS LANGNER

### Scientific Career

since 1998	<b>Full Professor of Biochemical Pharmacy</b> Martin Luther University of Halle-Wittenberg
1993	<b>Habilitation</b> "Complementary Methods for Investigating the Biotransformation of Drugs"
1988	<b>Specialized Pharmacist for Pharmaceutical Analytics</b>
1985–1998	<b>Research Fellow</b> Humboldt University of Berlin
1985	<b>Dr. rer. nat. (PhD)</b> "Investigations on the Biochemistry and Pharmacology of Inflammatory Mediators"
1982	<b>Approbation as Pharmacist</b>
1981–1985	<b>Research Fellow</b> Martin Luther University of Halle-Wittenberg
1981	<b>Diploma</b> "Analgesic and Ant-inflammatory Effects of Some Salicylic Acid Derivatives"
1977–1981	<b>Studies in Pharmacy</b> Martin Luther University of Halle-Wittenberg

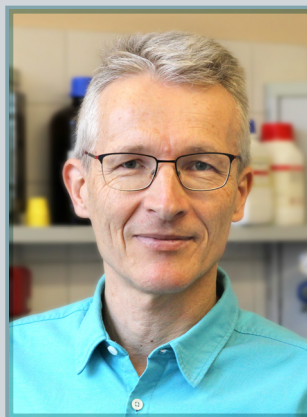
### Research Focus

- Development of compounds for the lipid-based nucleic acid transfer (Lipofection)
- Synthesis and characterization of bipolar phospholipids
- Development and characterization of modulators of the biosynthesis of lipid mediators



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Technology and Biopharmaceutics

» Research Group: Pharmaceutical Technology

Joint Professorships

## PROF. DR. KARSTEN MÄDER

### Scientific Career

- since 2003 **Full Professor of Pharmaceutical Technology and Biopharmaceutics**  
Martin Luther University of Halle-Wittenberg
- 2000–2003 **Member and Group Leader of the "Galenic Research" group**  
Fa. Hoffmann-La Roche AG, Basel (CH)
- 1998–2000 **Senior scientist at the Institute of Pharmaceutical Technology and Biopharmacy**  
Free University of Berlin
- 1998 **Habilitation in Pharmaceutical Technology and Biopharmacy**  
Title: "In vitro and in vivo investigations on release processes from biodegradable drug delivery systems."
- 1997–1998 **Postdoc, Group of Prof. Dr. T. Kissel, Institute of Pharmaceutical Technology and Biopharmacy**  
Philipps University of Marburg
- 1995–1997 **Fellowship (DFG-Stipendium) for Habilitation at the Institute of Pharmacy**  
Humboldt University of Berlin
- 1994–1995 **Postdoc (sponsored by DAAD), Group of Prof. Dr. H. M. Swartz, Dept. of Radiology**  
Dartmouth Medical School Hanover, NH (US)
- 1993 **Defence of PhD thesis (Summa cum laude)**  
Title: "Biopharmaceutical Applications of ESR spectroscopy and Imaging"
- 1991 **Approbation as Pharmacist**
- 1990 **Diploma in Pharmacy (Summa cum laude)**  
Title: "ESR investigations on microemulsions and pharmaceutical relevant polymers"
- 1986–1990 **Studies in Pharmacy**  
Humboldt University of Berlin

### Research Focus

- Nanoscale drug delivery systems
- Parenteral controlled release, polymer-drug conjugates
- Spectroscopy and imaging (ESR, MRI, optical imaging)



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Biology and Pharmacology

» Research Group: Biogenic Drugs

Joint Professorships

## PROF. DR. TIMO NIEDERMEYER

### Scientific Career

- since 2017 **Full Professor of Pharmacognosy**  
Martin Luther University of Halle-Wittenberg
- 2013–2017 **Assistant Professor of Antiinfective Natural Products**  
Eberhard Karls University of Tübingen as part of the German Centre for Infection Research (DZIF)
- 2008–2013 **Head of Natural Product R&D**  
Cyano Biotech GmbH, Berlin
- 2004–2008 **Research Fellow**  
Riemser Arzneimittel AG, Greifswald
- 2002–2004 **Practical work for the doctoral thesis (PhD awarded 2006)**  
School of Pharmacy (Pharmacognosy) of the EMA-University Greifswald
- 2001–2002 **Practical training for pharmacists**  
Welsh School of Pharmacy, Cardiff (UK) & Prenz'l-Apotheke (a local pharmacy) Berlin
- 1996–2001 **Studies in Pharmacy**  
Free University of Berlin

### Research Focus

- Chemical and biological screening of actinomycetes, cyanobacteria, and basidiomycetes
- Isolation and structure elucidation of biologically active natural products (esp. with anti-infective and cytotoxic activity)
- Chemical interactions between (micro-)organisms, quorum sensing
- Uptake and transport of natural products in the human body
- Imaging mass spectrometry



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Technology and Biopharmaceutics

» Research Group: Downstream Processing

Joint Professorships

## PROF. DR. MARKUS PIETZSCH

### Scientific Career

- |            |  |
|------------|--|
| since 2001 | <b>Full Professor of Downstream Processing</b><br>Martin Luther University of Halle-Wittenberg   |
| 2000–2001  | <b>Administrator of the chair of Biochemistry and Biotechnology</b><br>Technical University of Braunschweig                                  |
| 1999       | <b>Habilitation in Technical Microbiology</b><br>Institute of Biochemical Engineering, University of Stuttgart                               |
| 1993–1998  | <b>Researcher, Leader of the group "Biocatalysis and Enzyme technology"</b><br>Institute of Biochemical Engineering, University of Stuttgart |
| 1992–1993  | <b>Postdoc</b><br>Department of Enzyme technology, GBF Braunschweig  |
| 1992       | <b>PhD thesis</b><br>Institute of Biochemistry and Biotechnology, Technical University of Braunschweig                                       |
| 1989       | <b>Studies in Chemistry</b><br>Technical University of Braunschweig  |

### Research Focus

- Biotechnology of gaseous substrates
- Bioeconomy/Biorefinery
- New materials based on renewable resources
- Metabolic Engineering & Directed Evolution
- Biocatalysis/Biotransformation
- Biopharmaceuticals/Glykosylation in-vitro





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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» **Institute of Pharmacy**

» **Department: Pharmaceutical Chemistry and Clinical Pharmacy**

» **Research Group: Pharmaceutical Chemistry and Bioanalytics**

Joint Professorships

» Research Training Group 2467

## PROF. DR. ANDREA SINZ

### Scientific Career

- since 2017 **President of the German Society for Mass Spectrometry (DGMS)**
- since 2007 **Full Professor of Pharmaceutical Chemistry and Bioanalytics**  
Martin Luther University of Halle-Wittenberg
- 2005 **Habilitation in Bioanalytical Chemistry**  
Faculty of Chemistry and Mineralogy, University of Leipzig
- 2001 to 2006 **Head of Junior Research Group**  
"Protein-Ligand Interaction by Ion Cyclotron Resonance Mass Spectrometry" at the  
Biotechnological-Biomedical Center, Faculty of Chemistry and Mineralogy, University of Leipzig
- 2000 to 2001 **Scientific Assistant (Mass Spectrometry)**  
Proteome Center Rostock, University of Rostock & Justus Liebig University Giessen
- 1998 to 2000 **Postdoctoral Fellow**  
National Institutes of Health, National Institute of Arthritis, Musculoskeletal and Skin Diseases &  
National Eye Institute, Bethesda, MD (US)
- 1997 **PhD in Pharmaceutical Chemistry**  
Institute of Pharmaceutical Chemistry, Philipps University of Marburg
- 1988 to 1993 **Studies in Pharmacy**  
Eberhard Karls University of Tübingen

### Research Focus

- Mass spectrometric protein analysis
- Protein-ligand interaction studies
- Speaker of the Research Training Group 2467 "Intrinsically Disordered Proteins – Molecular Principles, Cellular Functions and Diseases"



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Source: MLU/Projektgruppe Fakultätsmarketing NF1



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Department: Pharmaceutical Chemistry and Clinical Pharmacy

» Research Group: Medicinal Chemistry  
Joint Professorships

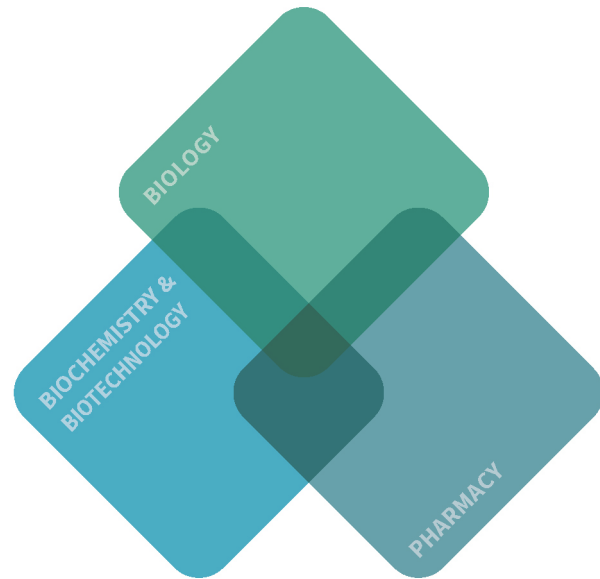
## PROF. DR. WOLFGANG SIPPL

### Scientific Career

- 2010–2018 **Director Institute of Pharmacy**  
Martin-Luther-University of Halle-Wittenberg
- since 2003 **Full Professor of Medicinal Chemistry**  
Martin-Luther-University of Halle-Wittenberg
- 2002 **Habilitation (Venia Legendi) in Pharmaceutical and Medicinal Chemistry**  
Heinrich Heine University Düsseldorf
- 1998–2003 **Assistant Professor**  
Heinrich Heine University Düsseldorf
- 1997–1998 **Postdoc with Prof. Camille G. Wermuth**  
Institute of Pharmacy, Louis Pasteur University Strasbourg (FR)
- 1997 **PhD in Pharmaceutical and Medicinal Chemistry (Dr. rer. nat.)**
- 1992–1996 **PhD student, PhD thesis: "Molecular modelling studies on the binding mode of histamine receptor ligands", Prof. H.-D. Hoeltje**  
Free University of Berlin and Heinrich Heine University Düsseldorf
- 1992 **Approbation as Pharmacist**
- 1987–1992 **Studies in Pharmacy**  
Free University of Berlin

### Research Focus

- Computational and structure-based design of novel epigenetic modulators for the therapy of cancer and parasitic diseases



# Professors of the Faculty: Research Focus and Scientific Career

## FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

Institute of Biology

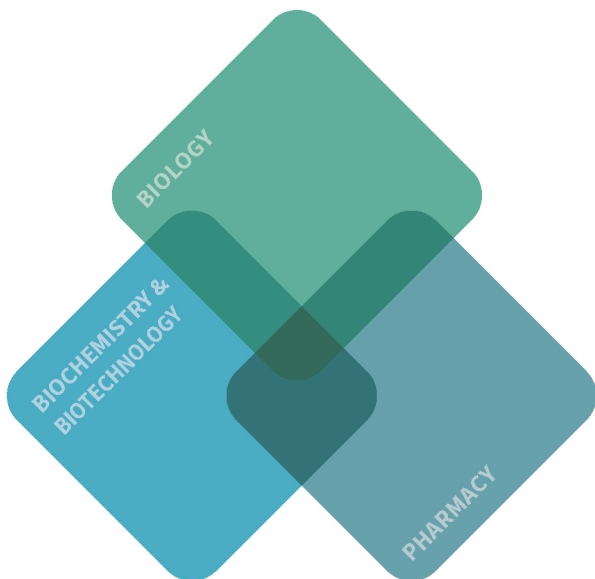
Institute of Pharmacy

**JOINT PROFESSORSHIPS** ■



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Source: IPB

## PROF. DR. STEFFEN ABEL

### Scientific Career

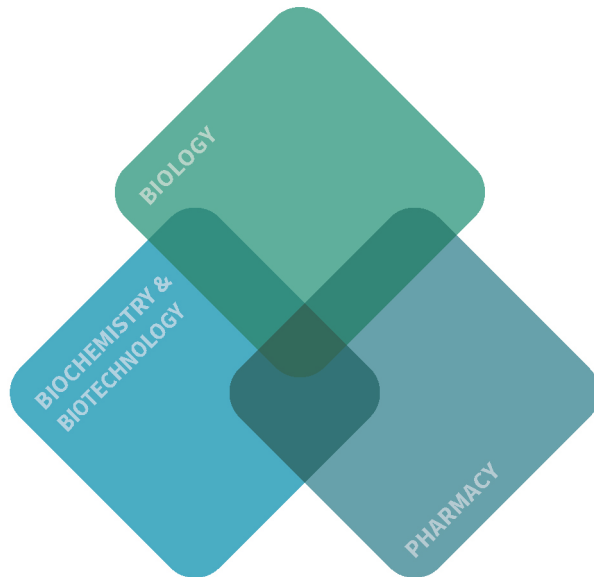
- since 2017 **Managing Director**  
Leibniz Institute of Plant Biochemistry (IPB), Halle
- 2010–2017 **Vice-Director**  
Leibniz Institute of Plant Biochemistry (IPB), Halle
- since 2009 **Full Professor of Plant Biochemistry and Biotechnology**  
Martin Luther University of Halle-Wittenberg and  
**Department Chair, Department of Molecular Signal Processing**  
Leibniz Institute of Plant Biochemistry (IPB), Halle
- 2007–2009 **Full Professor, Department of Plant Sciences (since 2009 Professor Emeritus)**  
University of California, Davis (US)
- 2002–2007 **Associate Professor, Department of Plant Sciences**  
University of California, Davis (US)
- 1997–2002 **Assistant Professor, Department of Plant Sciences**  
University of California, Davis (US)
- 1991–1996 **Postdoctoral Associate, Plant Gene Expression Center**  
University of California, Berkeley (US)
- 1989–1990 **Staff Scientist, Department of Biological Sciences**  
Martin Luther University of Halle-Wittenberg
- 1987–1989 **Visiting Scientist, Hungarian Academy of Sciences**  
Biological Research Center, Szeged (HU)
- 1984–1987 **PhD in Biochemistry (Dr. rer. nat. "summa cum laude")**  
Martin Luther University of Halle-Wittenberg

### Research Focus

- Biochemistry, cell biology, molecular biology of plants

## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

- » **Institute of Biochemistry and Biotechnology**
  - Institute of Biology
  - Institute of Pharmacy
  - » **Joint Professorships**
- » **Leibniz Institute of Plant Biochemistry (IPB)**
- » **Plant biochemistry and plant biotechnology**
  - » **Molecular Signal Processing**



## PROF. DR. THOMAS ALTMANN

### Scientific Career

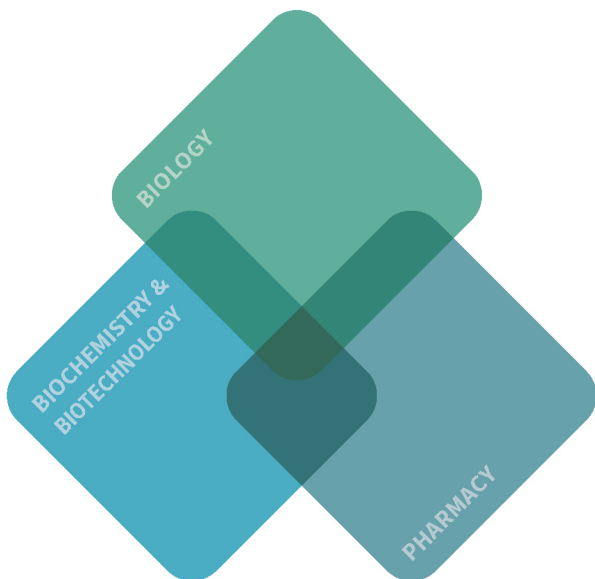
- since 2008 **Full Professor of Molecular Plant Genetics at the Institute of Biology**  
Martin Luther University of Halle-Wittenberg and  
**Head of the Department for Molecular Genetics**  
Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)
- 2001–2008 **Professor of Genetics**  
University of Potsdam and  
**Visiting Scientist/Group Leader**  
Max Planck Institute of Molecular Plant Physiology, Potsdam
- 1995–2001 **Research Associate/Group Leader**  
Max Planck Institute of Molecular Plant Physiology, Potsdam (Dept. of Prof. Dr. L. Willmitzer)
- 1999 **Habilitation in Botany, Department of Biology, Chemistry and Pharmacy**  
Free University of Berlin
- 1993 **Visiting Scientist**  
California Institute of Technology, Pasadena, CA (US)
- 1991–1995 **Research Associate/Project Leader**  
Institut für Genbiologische Forschung Berlin GmbH (Group of Prof. Dr. L. Willmitzer)
- 1991 **PhD, Institut für Genbiologische Forschung Berlin GmbH**  
Free University of Berlin (Group of Prof. Dr. L. Willmitzer)
- 1989 **Diploma in Biology, Institut für Genbiologische Forschung Berlin GmbH**  
Free University of Berlin (Group of Prof. Dr. L. Willmitzer)
- 1983–1989 **Studies in Biology**  
Justus Liebig University Giessen & Free University of Berlin

### Research Focus

- Investigation of the control mechanisms of growth and development of plants in interaction with plant metabolism
- Clarification of the molecular processes of (biomass) heterosis in plants
- Identification of genetic and biological markers for the prediction of complex characteristics and heterosis
- Establishment and use of automated non-invasive phenotyping of plant performance characteristics in controlled environments



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Source: MLU/Maika Glöckner



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institute of Biology

» Institute of Pharmacy

» Joint Professorships

» Helmholtz Centre for Environmental Research – UFZ

» Solar Materials

» Applied Biocatalysis

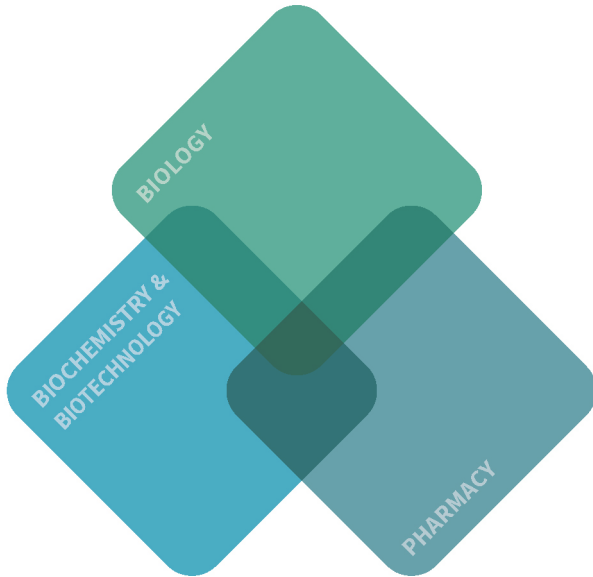
## PROF. DR. BRUNO BÜHLER

### Scientific Career

- since 2015 **Full Professor of Applied Biocatalysis**  
Institute of Pharmacy, Martin Luther University of Halle-Wittenberg and  
**Head of the Applied Biocatalysis Group at the Department of Solar Materials**  
Helmholtz-Centre for Environmental Research – UFZ, Leipzig
- 2015–2016 **Guest Scientist**, Faculty of Biochemical and Chemical Engineering, Technical University of Dortmund
- 2014–2015 **Guest Scientist**, Helmholtz-Centre for Environmental Research – UFZ, Leipzig
- 2014 **Habilitation (Venia Legendi) in Biotechnology and Technical Microbiology**  
Technical University of Dortmund
- 2004–2015 **Head of the Applied Biocatalysis group at the chair of Chemical Biotechnology**  
Faculty of Biochemical and Chemical Engineering, Technical University of Dortmund
- 2003–2004 **Postdoc**, Institute of Biotechnology, Swiss Federal Institute of Technology (ETH), Zürich (CH)
- 1998–2003 **Research associate, PhD (Dr. sc. nat. )**  
Swiss Federal Institute of Technology (ETH), Zürich (CH)  
awarded with the "ETH-Medal for outstanding PhD theses"
- 1993–1998 **Studies in Biology/Biochemistry (specialization in Biotechnology), Diploma (Dipl. Natw. ETH)**  
Swiss Federal Institute of Technology (ETH), Zürich (CH)

### Research Focus

- Photobiotechnology
- (continuous) Redox- and multistep biocatalysis based on microbial cell factories (whole-cell biocatalysts)
- Hydrogen production coupled to natural photosynthesis
- Metabolic engineering – Design of heterologous pathways and systems biotechnology in Cyanobacteria, *Escherichia coli*, and Pseudomonads
- Biochemical engineering
- Eco-efficiency



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Source: Helmholtz-Zentrum für Umweltforschung – UFZ



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» Institute of Biology

Institute of Pharmacy

» Joint Professorships

» Helmholtz Centre for Environmental Research – UFZ

» Physiological Diversity

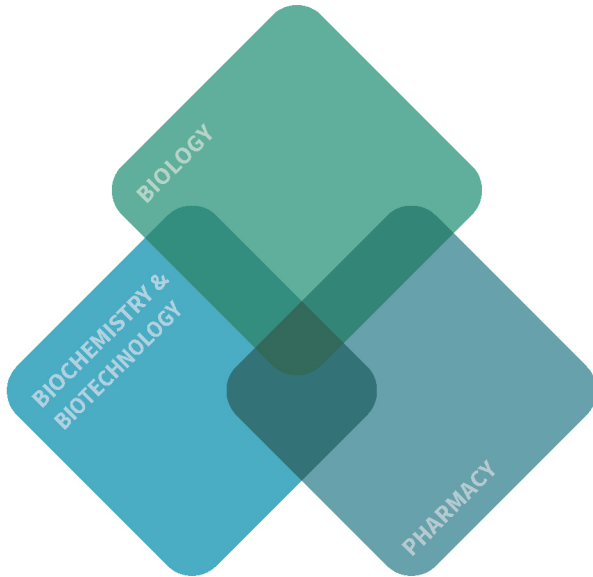
## PROF. DR. W. STANLEY HARPOLE

### Scientific Career

- since 2014 **Full Professor of Physiological Diversity at the Institute of Biology**  
Martin Luther University of Halle-Wittenberg and  
**Head of the Physiological Diversity Department (PhyDiv)**  
Helmholtz Centre for Environmental Research – UFZ, Leipzig and  
**Head of the Physiological Diversity Department (PhyDiv)**  
German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig
- 2014–2015 **Associate Professor of Ecology, Evolution and Organismal Biology**  
Iowa State University (US)
- 2008–2014 **Assistant Professor of Ecology, Evolution and Organismal Biology**  
Iowa State University (US)
- 2005–2008 **Postdoctoral Scholar**  
University of California Irvine (US)
- 2005 **PhD in Ecology (Dr. David Tilman)**  
University of Minnesota (US)
- 1997 **B. S. Botany**  
University of Washington (US)

### Research Focus

- Ecosystem, theoretical and community ecology
- Developing, testing and applying biodiversity theory to understand the interactive effects of multiple global change drivers on ecosystems
- Ecological stoichiometry, niche theory and mechanisms of coexistence



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## PROF. DR. TIFFANY MARIE KNIGHT

### Scientific Career

- since 2016 **Alexander von Humboldt Professorship and Head of Research Group Spatial Interaction Ecology**  
Institute of Biology, Martin Luther University of Halle-Wittenberg, Helmholtz Centre for Environmental Research – UFZ and German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig
- 2014–2015 **Visiting Scientist (while on academic sabbatical)**  
German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig
- 2010–2015 **Associate Professor (with tenure)**  
Washington University, St. Louis (US)
- 2012–2013 **Visiting Scientist (while on academic sabbatical)**  
University of Hawai'i, Honolulu (US)
- 2010–2014 **Director, Environmental Studies Program**  
Washington University, St. Louis (US)
- 2005–2010 **Assistant Professor**  
Washington University, St. Louis (US)
- 2004–2005 **Postdoctoral Research Associate**  
National Center for Ecological Analysis and Synthesis, Santa Barbara (US)
- 2003–2004 **Postdoctoral Research Associate**  
University of Florida (US)
- 2003 **PhD in Ecology and Evolution**  
University of Pittsburgh (US)

### Research Focus

- Invasive species
- Pollination networks and pollination ecology
- Restoration ecology
- Global change
- Forest dynamics

## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» **Institute of Biology**

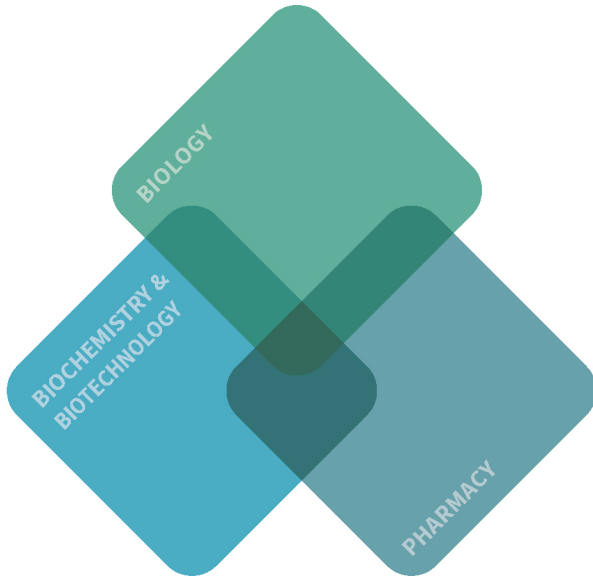
Institute of Pharmacy

» **Joint Professorships**

» **Helmholtz Centre for Environmental Research – UFZ**

» **Spatial Interaction Ecology**





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Source: UFZ/Sebastian Wiedling



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» Institute of Biology

Institute of Pharmacy

» Joint Professorships

» Helmholtz Centre for Environmental Research – UFZ

» Macroecology

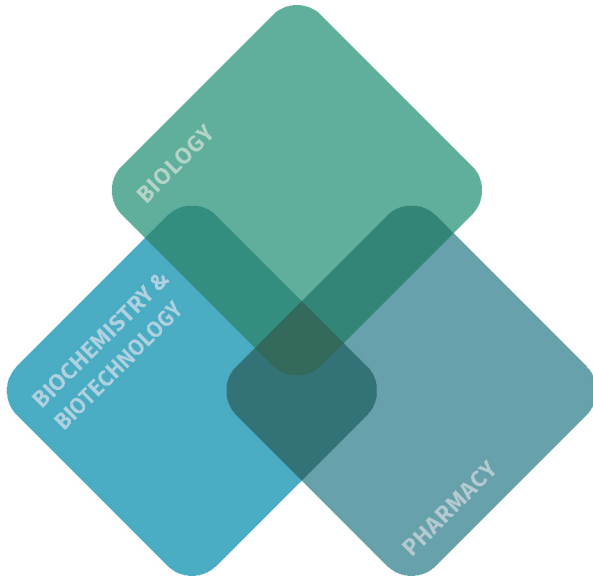
## PROF. DR. INGOLF KÜHN

### Scientific Career

- since 2014 **Full Professor of Macroecology**  
Martin Luther University of Halle-Wittenberg and the  
Helmholtz Centre for Environmental Research – UFZ, Halle
- 2010 **Call on the Chair (W3) for "Landscape Ecology and Vegetation Science"**  
University of Hohenheim, Stuttgart (declined)
- since 2010 **Deputy Head of Department**  
Helmholtz Centre for Environmental Research – UFZ, Halle
- since 2004 **Senior Scientist, Head of the 'Macroecology' Group**  
Helmholtz Centre for Environmental Research – UFZ, Halle
- 2001–2004 **Postdoc**  
Centre for Environmental Research Leipzig-Halle (UFZ)
- 1997–2000 **PhD**  
Ruhr-University Bochum
- 1990–1994 **Studies in Biology and Geography**  
Ruhr-University Bochum
- 1988–1990 **Studies in Biology and Geography**  
University of Münster

### Research Focus

- Functional macroecology
- Biological invasions
- Impacts of climate change and land use change on flora and vegetation
- Spatial statistics



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Source: MLU/Maike Glöckner



## PROF. DR. TINA ROMEIS

### Scientific Career

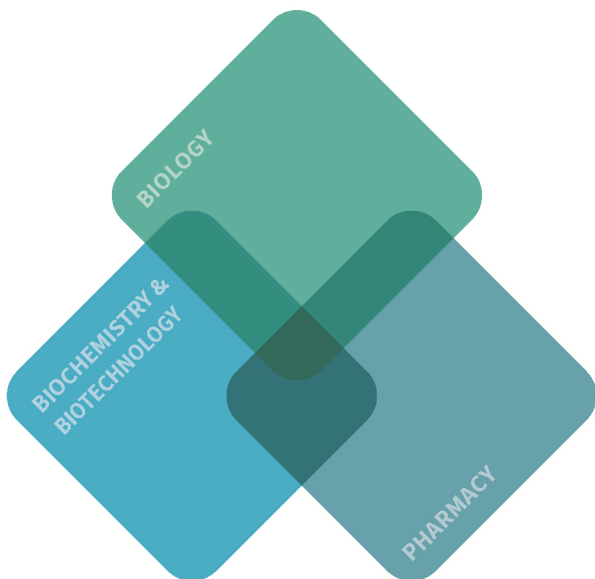
- since 2019 **Full Professor of Biochemistry of Plant Interactions**  
Martin Luther University of Halle-Wittenberg and  
Leibniz Institute of Plant Biochemistry (IPB), Halle
- 2004–2019 **Full Professor of Plant Biochemistry**  
Free University of Berlin
- 2001–2004 **Group Leader**  
Max Planck Institute for Plant Breeding Research, Department of Plant Microbe Interactions, Cologne
- 1997–2001 **Postdoc and Senior Postdoc, Group of Prof. Dr. Jonathan Jones**  
The Sainsbury Laboratory, John Innes Centre, Norwich (GB)
- 1994–1996 **Research Associate, Group of Prof. Dr. Regine Kahmann**  
Ludwig Maximilian University of Munich, Institute of Genetics
- 1991–1993 **PhD, Group of Prof. Dr. Joachim-Volker Höltje**  
Max Planck Institute for Developmental Biology, Department of Biochemistry, Tübingen
- 1984–1991 **Studies in Biochemistry**  
Eberhard Karls University of Tübingen

### Research Focus

- Biochemical regulation of CDPKs
- Function of calcium-mediated signal transduction in plants after environmental stress, pathogen attack and in plant development
- Changes in protein phosphorylation and protein conformation
- Translation of biochemical mechanisms in for agricultural science relevant selection and breeding programs

## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

- » **Institute of Biochemistry and Biotechnology**  
Institute of Biology  
Institute of Pharmacy
- » **Joint Professorships**
- » **Leibniz Institute of Plant Biochemistry (IPB)**  
» **Biochemistry of Plant Interactions**



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Source: TCZ Halle GmbH / Marco Warmuth



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology  
Institut für Biologie

» Institute of Pharmacy

» Joint Professorships

» Leibniz Institute of Plant Biochemistry (IPB)

» Biochemistry of plant secondary metabolism

» Cell and Metabolic Biology

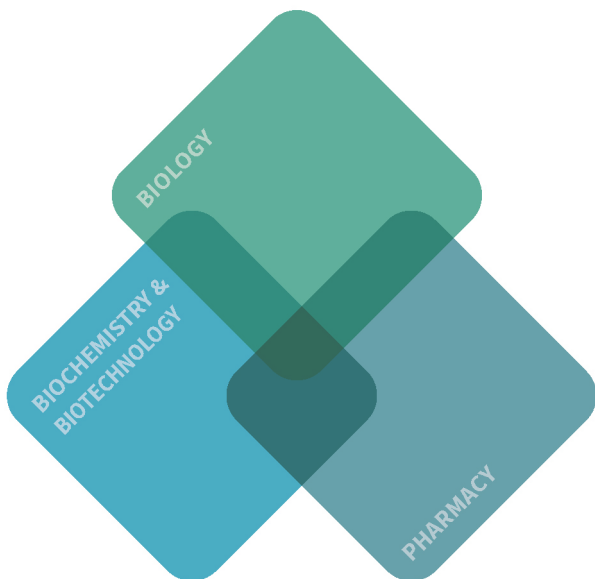
### PROF. DR. ALAIN TISSIER

#### Scientific Career

- since 2010 **Full Professor of Biochemistry of Plant Secondary Metabolism at the Institute of Pharmacy**  
Martin Luther University of Halle-Wittenberg and  
**Head of the Department of Cell and Metabolic Biology**  
Leibniz Institute of Plant Biochemistry (IPB), Halle
- 2009–2010 **Professor of Plant Biochemistry**  
Université de Montpellier (FR)
- 2003–2008 **Founder and CEO**  
Librophyt (Plant biotechnology start-up), Cadarache (FR)
- 1997–2003 **Staff Scientist**  
Commissariat à l'Énergie Atomique, Department of Plant Ecophysiology, Cadarache (FR)  
Research topic: "Plant responses to ionizing radiation"
- 1994–1996 **Long-term postdoctoral Fellowship**  
European Molecular Biology Organisation (EMBO) Sainsbury Laboratory, Norwich (UK), in the group of Prof. Dr. Jonathan DG Jones; Research topic: "Transposon-induced mutagenesis in Arabidopsis thaliana"
- 1989–1993 **Doctoral thesis in Plant Biochemistry**  
Université Paris XI-Orsay (FR); Research at the Massachusetts Institute of Technology (US), supervisor: Prof. Dr. Ethan Signer. Title of the thesis: "Purification and characterization of enzymes involved in homologous recombination from broccoli"
- 1984–1989 **Studies**  
École Normale Supérieure, Paris (FR)

#### Research Focus

- Systems biology of plant secretory structures (glandular trichomes and laticifers)
- Regulation of isoprenoid metabolism in plants
- Elucidation of the biosynthesis of plant secondary metabolites, specifically terpenoids
- Metabolic Engineering of microorganisms (e.g. yeast) and plants for the production of industrially relevant terpenoids



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Source: IPK Gatersleben/J.-S. Himpe



## » FACULTY OF NATURAL SCIENCES 1 – BIOSCIENCES

Institute of Biochemistry and Biotechnology

» **Institute of Biology**

Institute of Pharmacy

» **Joint Professorships**

» **Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)**

» **Molecular Physiology and Cell Biology**

» **Molecular Plant Nutrition**

## PROF. DR. NICOLAUS VON WIRÉN

### Scientific Career

- since 2009 **Full Professor of Plant Physiology and Cell Biology**  
Martin Luther University of Halle-Wittenberg and  
**Head of the Department for Physiology & Cell Biology**  
Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)
- 2006 **Sabbatical**  
Australian Centre for Plant Functional Genomics and University of Adelaide (AU)
- 2001–2009 **Full Professor of Plant Nutrition, Head of Institute for Plant Nutrition**  
University of Hohenheim, Stuttgart
- 1999 **Habilitation in Plant Physiology**  
Eberhard Karls University of Tübingen
- 1995–2001 **Independent research group leader at the "Center for Plant Molecular Biology" (ZMBP)**  
Eberhard Karls University of Tübingen
- 1995 **BBSRC fellowship**  
King's College London (UK)
- 1994–1995 **Humboldt and EMBO fellowship**  
CNRS-INRA Montpellier (FR)
- 1994 **PhD**  
University of Hohenheim, Stuttgart
- 1992 **Fellowship**  
University of Tokyo (JP)
- 1989 **Studies in Agrobiolology**  
University of Hohenheim, Stuttgart

### Research Focus

- Nutrient sensing and root development
- Membrane transport of mineral elements
- Plant mechanisms conferring nutrient efficiency



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