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Scientific interest: **Molecular pharmacology and biophysics of voltage- and ligand-gated ion channels, ligand-recognition of ligand-gated ion channels**

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PROFESSIONAL CAREER

- 2019- Group leader Biophysical Pharmacology of Ion channels, Institute of Clinical Pharmacology, RWTH Aachen University
- 2015-2016 Visiting Scientist, Institute of Complex Systems, Zelluläre Biophysik (ICS-4, Prof. Fahlke), Forschungszentrum Jülich
- 2008-2019 Group leader electrophysiology lab, Dept. of Molecular Pharmacology, Institute of Pharmacology and Toxicology, RWTH Aachen University
- 2005-2008 Postdoctoral Fellow, Dept. of Molecular Pharmacology, Institute of Pharmacology and Toxicology, RWTH Aachen University
- 2003-2005 Junior Research Scientist, Dept. of Molecular Pharmacology, Institute of Pharmacology and Toxicology, RWTH Aachen University

UNIVERSITY EDUCATION AND ACADEMIC DEGREES

- 2013 Habilitation and *venia legendi* for Pharmacology and Toxicology, RWTH Aachen University
- 2005 Doctor of medicine (summa cum laude), RWTH Aachen University, Germany
- 2001-2003 Residency and Assistant doctor, Department of Otorhinolaryngology and Head and Neck Surgery, University Hospital of RWTH Aachen University
- 1994-2001 Medical school, RWTH Aachen University, Germany

AWARDS

- 2016 “RWTH Lecturer” Award to distinguish researchers characterized by extraordinary teaching and research activities, part of the Place To Be program of the Excellence Initiative (ISII) at RWTH Aachen University
- 2014 Poster Award, Annual Meeting of the German Society of Pharmacology and Toxicology, Hannover 2014
- 2007 Faculty award for an outstanding successful START funding of the Faculty of Medicine, RWTH Aachen University
- 2006 Borchers award for a “summa cum laude” doctoral thesis, RWTH Aachen
- 2005 Faculty award for an outstanding doctoral thesis founded by the Grünenthal Company, Faculty of Medicine, RWTH Aachen University

SELECTED RESEARCH FUNDING (PAST 5 YEARS)

- 2018-2020 DFG research project „Molecular Dynamics Guided Analysis of Ligand Activation, Ion Permeation and Subtype-specific Ligand Interactions in P2X Receptors” (HA 6095/1-2; PI (project leader))
- 2013-2017 DFG research project „Structure-guided analysis of subtype-specific interactions between P2X receptors and their ligands” (HA 6095/1-1; PI)
- 2010-2015 DFG FOR 748: Neuronal and glial P2 receptors; molecular basis and functional significance; Sub-project “Characterization of affinity-tagged fluorescent P2X and P2Y receptors in BAC transgenic mice in health and disease” (DFG project-no. 22935240; co-PI)
- 2010-2014 Interdisciplinary research project „The role of electrical effects across biological membranes“ funded in context of the Excellence Initiative at RWTH Aachen University (ERS project, Pathfinder-/Boost-Fund OPBo45; co-PI)