

EXPERIENCE

INSTITUTE FOR IMMUNOLOGY, RWTH Aachen University,
January 2019 – today

Group leader: Zinc-mediated immune regulation in preclinical disease models.

- Analysis of zinc-linked signaling pathways
- Zinc-mediated Treg induction in health and disease

INSTITUTE FOR NEUROIMMUNOLOGY AND MULTIPLE SCLEROSIS RESEARCH,
Göttingen

July 2016 – December 2018

Head of the rat transgenesis facility

Establishment and adaption of new transgenesis techniques for the development of new and innovative preclinical disease models.

- Rendering Pronucleus injections in Lewis rat oocytes possible
- Manipulation of the rat genome using state-of-the-art techniques
- Transgenic expression of fluorescent calcium markers to study activation in real-time *in vivo*
- Generation of T-cell receptor transgenic rats

INSTITUTE FOR NEUROIMMUNOLOGY AND MULTIPLE SCLEROSIS RESEARCH,
January 2016 – December 2018

Postdoc Position

Topic : New preclinical models for neuroimmunological research

- Generation and characterization of transgenic rats *in vivo* and *in vitro*
- Design and conduction of a translational study regarding the impact of glucocorticoids on monocytes from MS patients
- Cell culture (cell lines, primary cells)
- Continuous teaching (Molecular Medicine, Biology and Medicine)
- Writing manuscripts and grant applications

INSTITUTE FOR CELLULAR AND MOLECULAR IMMUNOLOGY 2013-2015

Postdoc position

The project was funded by the DFG (SFB-TRR43, B13)

- Analysis of the metabolic regulation of T cell activation *in vivo* and *in vitro*
- Establishment of new preclinical animal models (Experimental Autoimmune Encephalomyelitis, Graft-vs.-Host disease, Type 1 diabetes)
- Management of the rat breeding of the institute
- Isolation and analysis of T cells from MS patients
- Supervision of MD, PhD and Master theses
- Lectures and Seminars for Medical Students, Molecular Medicine M.Sc., Biology M.Sc., German and English

EDUCATION GÖTTINGEN GRADUATE SCHOOL FOR NEUROSCIENCES, BIOPHYSICS, AND MOLECULAR BIOSCIENCES 2009-2013
Institute for Cellular and Molecular Biology
PhD Thesis: „Endocrine control of T cell functions and its implications for the pathogenesis of neuroinflammatory diseases“
final grade: Magna cum laude (thesis), summa cum laude (defense)

GEORG-AUGUST UNIVERSITY Göttingen 2004 - 2009
Biology (majors: Genetics, Immunology, Zoology)
Diploma thesis: „Role of Gimap5 during T cell development“
final grade: excellent (1,2)

**A W A R D S
& G R A N T S** European Network of Immunology Institutes (ENII): waver fellowship 2011
GlaxoSmithKline Stiftung travel award 2011 and 2013
Luminex award (Best Poster Third Prize) 2012
Universitätsbund Göttingen travel stipend 2012
European Society of Neuroimmunology: Young investigator stipend 2013
Felgenhauer Stiftung zur Förderung junger Neurowissenschaftler: travel stipend 2013
GÖ-VIP (Very important publication, Award of the University of Göttingen Medical Center) 2014
Heidenreich-von-Siebold grant (full position) May 2017- Oct 2018