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APPLICATION FOR

Cluster of Excellence ImmunoSensation^3

SCIENTIFIC CAREER

Since 07/2023 — Clinician Scientist and Junior Group leader funded by the Bonn Neuroscience Clinician Scientist Program from DFG, Hertie Network of Excellence in Clinical Neuroscience and Cluster of Excellence ImmunoSensation^3
"*In vivo* inflammasome targeting in neuroinflammation"
Department of Neurology / Institute of Physiology II, University Hospital Bonn

Since 04/2022 — Team leader founded by BONFOR / Cluster of Excellence ImmunoSensation^2
"Inflammatory risk factors of cognitive disorders"
Department of Physiology II, University Hospital Bonn

Since 01/2022 — Project leader funded by the Alzheimer Forschung Initiative (AFI)
"The role of NLRP3 on tau pathology after Traumatic Brain Injury"
Department of Physiology II, University Hospital Bonn
Supervisor: Prof. Valentin Stein

08/2020 – 08/2021 — Research assistant funded by BONFOR
"*In vivo* evaluation of inflammasome activation and its pharmacological inhibition as a neuroprotective strategy in acute brain injury"
Department of Neurodegenerative Diseases and Neuroinflammation Cooperation Unit
University Hospital Bonn / German Center for Neurodegenerative Diseases (DZNE)
Supervisor: Prof. Michael T. Heneka

01/2012 – 12/2016 — Research assistant funded by CRC936- DFG
"Dependence of memory consolidation on synaptic consolidation in the cortico-hippocampal network"
Institute of Molecular & Cellular Cognition (IMCC), University Medical Center Hamburg-Eppendorf.
Center for Molecular Neurobiology Hamburg University
Supervisor: Prof. Dietmar Kuhl

WORK EXPERIENCE

From 12/2026 — Neurologist and Clinician-Scientist
Center for Neurology / Department for Cognitive Disorders and Geriatric Psychiatry
German Center for Neurodegenerative Diseases
University Hospital Bonn, Germany
Directors: Prof. Dr. Anja Schneider, Prof. Gabor Petzold, Prof. Dr. Anne-Katrin Pröbstel

07/2017-11/2026 — Neurology Resident, Neurology Physician-Scientist
Center for Neurology
University Hospital Bonn, Germany
Directors: Prof. Dr. Ulrich Herrlinger, Prof. Dr. Anne-Katrin Pröbstel

01/2017 – 06/2017 — Neurology Resident
Department of Neurology, Sana Regio Pinneberg
University Medical Center Hamburg-Eppendorf, Germany
Directors: Prof. Christian Gerloff, Prof. Max Nedelmann

07/2010-07/2011 — General practitioner
San Juan de Dios Hospital
El Carmen de Viboral, Antioquia, Colombia
Director: Sandra Uribe

EDUCATION

06/2017 – 07/2026 Adult Neurology Residency
Center for Neurology / Department for Cognitive Disorders and Geriatric Psychiatry
University Hospital Bonn, Germany
Directors: Prof. Dr. Ulrich Herrlinger, Prof. Dr. Anne-Katrin Pröbstel, Prof. Dr. Anja Schneider

2020-2024 NRW Medicine Didactics certificate (LAMA), 120 class hours, 4 ETCS
Medizindidaktik-Programm DoT.Med
Medical Faculty, University of Bonn

12/2013 – 11/ 2016 Doctor of Medicine and of Philosophy (MD–PhD)
Center for Molecular Neurobiology, Hamburg University
Thesis title: **"Developmental and Adult Expression of Arc/Arg3.1 in Corticolimbic Structures Determines Memory and Emotional Control"**
Dissertation: *„summa cum laude"*
Disputation: *„magna cum laude*"
Supervisor: Prof. Dietmar Kuhl

07/2012 –07/2015 Graduate Studies in Molecular Biology
Center for Molecular Neurobiology, Hamburg University

03/2003 – 07/2010 Medical Degree
Medical Faculty, University of Antioquia, Medellín, Colombia
Grade: 4.43 (Scale from 0.0 to 5.0)

HONOURS AND AWARDS

2026 Membership Cluster of Excellence ImmunoSensation[3]
Junior Group Leader
University of Bonn, Germany

2026 Shortlisted for Assistant Professor Position - 2rd Position
Translational Neuroscience
Ghent University, Department of Head and Skin

2024 Shortlisted for Associate Professor Position - 3rd Position
Translational Neuroscience with a focus on biomedical imaging
Luxembourg Centre for Systems Biomedicine (LCSB) - University of Luxembourg

10/2023 Third Place Best Scientific Presentation
ALS/MND Science Day MND-NET, German Network for Motor Neuron Disease

2010-2011 Guillermo Velasquez Tangarife – Medical Excellence award
Scholarship for international interchange programs.
School of Medicine. Universidad of Antioquia

2002 Andrés Bello Award from the Colombian Government
Best score in the University Entrance Examinations. National Category: Chemistry.
National Center for University Entrance Examinations. ICFES. Bogotá. Colombia.

2002 Andrés Bello Award from the Colombian Government
Best score in the University Entrance Examinations. Departmental Category: Biology.
National Center for University Entrance Examinations. ICFES. Bogotá. Colombia.

GRANTS

2025-2026 German National Strategy Gene and cell-based Therapies
Federal Ministry of Education and Research (BMBF) Grant
Project: **"Systemic delivery of VHH-ASC to target neuroinflammation"**
TOTAL €50K, principal investigator

2024-2027 Multisite Seeding Project – Hertie Network of Excellence in Clinical Neuroscience
Project: **"Systemic gene therapy to fight neurodegeneration"**
Total €30k, Co-principal investigator

2023-2027 Clinician Scientist position at the Bonn Neuroscience Clinician Scientist Program
DFG - German Research Foundation (Deutsche Forschungsgemeinschaft)
Project: **"Effects of dietary-induced metaflammation on microglia and cognitive outcomes after acute brain injury"**
Total €200k, principal investigator

2023-2027 Clinician Scientist Fellowship - Hertie Network of Excellence in Clinical Neuroscience
Project: **"Inflammasome targeting in neuroinflammation"**
Total €250k, principal investigator

2022-2024 Alzheimer Forschung Initiative (AFI) – Standard Grant
Project: **"The role of NLRP3 on tau pathology after Traumatic Brain Injury"**
Total €50k, principal investigator

2021 - 2023 BONFOR Junior Group Grant / Cluster of Excellence ImmunoSensation²
Project: **"*In vivo* NLRP3 -Inflammasome modulation after traumatic brain injuries and in an Alzheimer's disease model"**
Total €112k, principal investigator

2020 - 2021 BONFOR Project Grant (Gerok-Stipendium)
Project: ***"In vivo* evaluation of inflammasome activation and its pharmacological inhibition as a neuroprotective strategy in acute brain injury"**
Total €112k, principal investigator

TEACHING ACTIVITIES

2025 Immune activation in Neurodegenerative Disease
Short Educational Course for Postgraduate Student
GEBIN | German-Endocrine-Brain-Immune-Network
Castle Rauischholzhausen, Germany

Since 2023 Amyotrophic lateral sclerosis for Speech Therapists
CME Seminar for Speech Therapists
Dysphagiezentrum Reha & Wissen KDZ
Cologne, Germany

Since 2022 Cognitive Disorders
Lecture for Medical Students in basic modules
Department of Physiology and Anatomy
University Hospital Bonn, Germany

Since 2018 Clinicopathological approach to the diagnosis of dementia
Lecture for Medical Students in advanced semesters
Department of Neuropathology
University Hospital Bonn, Germany

2013-2016 Neurobiology of Learning and Memory
Elective lecture and practical course for the master's in biology
Center for Molecular Neurobiology, Hamburg University

SUPERVISION OF RESEARCHERS IN EARLY CAREER PHASES

Co-supervisor of PhD students, medical students, and master students since 2012: 3, 4, and 3 students respectively. Currently, I supervise 2 PhD students, 1 Master student and 1 medical students (3 in basic translational research, and 1 in clinical research).

CERTIFICATIONS

2023-2025 Group Leaders Training at Hertie Academy of Clinical Neuroscience
Leading people successfully, Stategy for your group, Developing your team and leading change
Hertie Stiftung, Obs Internation Systemic Consulting

2024 Category B - FELASA certification Accreditation for education and training in laboratory animal science.
Society of Laboratory Animal Sciences. Gesellschaft für Versuchstierkunde (GV-SOLAS).
Charité – Universitätsmedizin Berlin. Forschungseinrichtungen für experimentelle Medizin.
Garystraße 5, D-14195 Berlin. Germany. http://www.gv-solas.de - sekretariat@gv-solas.de

2019 Certificate for Good Clinical Practice for Clinical Studies
Studienzentrum Bonn (SZB),Department of Clinical Chemistry and Pharmacology
University Hospital Bonn, Germany

2016 German license to practice human Medicine "Approbation"
State Examination Office for the Medical Professions (LPA) Hamburg, Germany

LENGUAJES

Mother tongue: **Spanish**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
	TOEFL (Test Of English as a Foreign Language) – Educational Testing Service (ETS)				
German	C1	C1	C1	C1	C1
	UNS-Deutschkurse, Hoheluftchaussee 108, 20253 Hamburg				
French	A2	A2	A1	A1	A1
	Alliance française Paris, Ile-de-France,101 Boulevard Raspail, 75270 Paris				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages