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Curriculum Vitae Barbara A. Niemeyer

Personal Data

Title	UnivProf., PhD
First name	Barbara A.
Name	Niemeyer
Current position	Professor of Biophysics (permanent)
Current institution(s)/site(s),	Saarland University
country	66421 Homburg
	Deutschland
Identifiers/ORCID	0000-0002-6963-0575

Qualifications and Career

Stages	Periods and Details
School, country	8/1971 – 06/1984: basic school and high school,
	degree: Baccalaureate (Abitur), Germany
Degree programme	10/1984 – 11/1990: Biology (Diploma)
Doctorate	11/1996: PhD (Neurosciences), Prof. Charles S.
	Zuker (HHMI, UCSD Department of Neuroscience)
	University of California San Diego, U.S.A.
Stages of academic/professional	since 2014 Full Professor (W2), for Molecular
career (optional after doctorate)	Biophysics, Saarland University.
	2008-2014 Independent Group leader,
	Biophysics, Saarland University.
	1999-2007 Group leader (C1), Saarland
	University, Pharmacology.
	1997-1999 Postdoc (NIH fellow), Department of
	Molecular and Cellular Physiology,
	Stanford University, USA (Prof. Dr.
	Thomas L. Schwarz).
	1991-1992 Visiting scientist, UCSD, DAAD fellow;
	"Gottlieb-Daimler und Karl-Benz
	Stiftung" fellow.

Supplementary Career Information

Birth of two children (12.04.2001; 26.08.2003, followed by maternity leave: 04/2001-12/2001, 08/2003-10/2003, part-time work: 11/2003-08/2006)

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Engagement in the Research System

2022	Habilitation of group member Dr. rer. nat. Dalia Alansary
2022	Discussion leader Gordon Research Conference
2021	Chair FASEB meeting on Calcium and Cell function
2020	Symposium Organizer NWG Göttingen
since 2020	Board member of the European Calcium Society
since 2020	Vice-Ombudsperson of Saarland University, adjunct member of KEF
2019	Coordinator, proposal for "Graduate school Interconnectivity" – not granted
since 2017	Project leader TRR219, co-speaker IRTG TRR219
2018	Co-Chair FASEB meeting on Calcium and Cell function.
since 2013	Project leader SFB 1027 project C4, 2013-2020 project C7
2011-2022	Project leader SFB 894
2017-2021	Co-speaker and project leader IRTG1830
2012-2016	Co-speaker and project leader GK1326
2015-2018	Project leader, FOR2289
2013-1017	Co-Coordinator for Junior researcher of the SFB1027

Supervision of Researchers in Early Career Phases (+ 2 years, maternity leave)

Year	Name	Degree	Score	Titel	Career track
2015	Stephanie Saul (with M. Hoth)	Dr. rer. nat.	magna cum laude	Orai and STIM proteins regulate Store-operated Calcium Entry in primary human monocytes and melanoma cell lines	Postdoc
2016	Kathrin Dörr	Dr. rer. nat	summa cum laude	Regulation of Store-operated Calcium influx by posttranslational mechanisms	BfArM
2017	Maik Konrad	Dr. rer. med	magna cum laude	Characterization of the thioredoxin TXNDC15	Industry
2017	Anna-Maria Miederer	Dr. rer. nat	summa cum laude	Regulation der Kalzium Homöostase in Immunzellen und in Alzheimer-Modell Zelllinien	Consult. Industry
2017	Sarah Kircher	Dr. rer. nat	magna cum laude	Ca2+ Signaling in CD4 T cell subtypes	Industry
2021	Maylin-Merino Wong (with DA)	Dr. rer. nat	magna cum laude	Investigation of calcium signatures in human CD4+ T cells with a focus on modulation of differentiation by plasma membrane ATPases	Postdoc
2021	Mona Knapp, nee Schöppe	Dr. rer. nat	summa cum laude	Eine neue STIM1- Spleißvariante modifiziert den speichergesteuerten Calciumeinstrom	Industry
2022	Dr. rer nat. Dalia Alansary	Habilitation		Ca2+ signatures in immune cells	Group leader
2023 exp	Girish Ramesh	cand.rer.nat.		Characterization of a short isoform of STIM1 in neurons	
2023 exp	Maryam Amini	cand.rer.nat		Role and processing of IL1 α	
2023 exp	Vanessa Poth	cand.rer.nat	Thesis handed in	STIM2.3: An evolutionary late regulator of intracellular calcium signaling	

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	Lukas Jarzembowski	cand.rer.nat	Neuronal SOCE: Function and regulation	
	Jaizembowski		Ŭ	
Priska Jost	cand.rer.nat	Regulatory T-cell suppressive function and regulation		
	Batul Kamar	cand.rer.nat	Processing of inflammatory cytokines in CKD	

Scientific Results

Category A

- Knapp, ML, Alansary D, Poth V, Förderer K, Sommer F, Zimmer D, Schwarz Y, Künzel N, Kless A, Machaca K, Helms V, Mühlhaus T, Schroda M, Lis A, **Niemeyer BA** (2022): A longer isoform of Stim1 is a negative SOCE regulator but increases cAMP modulated NFAT signaling, *EMBO Rep.*, 23: e53135. doi: 10.15252/embr.202153135.
- 2. Rizo T, Gebhardt L, Riedlberger J, Eberhardt E, Fester L, Alansary D, Winkler J, Turan S, Arnold P, **Niemeyer BA**, Fischer MJM, Winner B (2022): Store-operated calcium entry is reduced in spastin-linked hereditary spastic paraplegia. *Brain*, 145, 3131-3146. doi: 10.1093/brain/awac122
- Ramesh G, Jarzembowski L, Schwarz Y, Konrad M, Poth V, Schwär G, Lauer AA, Grimm MOW, Alansary D, Bruns D, Niemeyer BA (2021): Short novel STIM1B uncovers a mechanism of synaptic enhancement. *Cell Reports* 34:108844. doi: 10.1016/j.celrep.2021.108844.
- 4. Zewinger S, Reiser J, Jankowski V, Alansary D, Hahm E, Triem S, Klug M, Schunk SJ, Schmit D, Kramann R, Körbel C, Ampofo E, Laschke MW, Selejan SR, Paschen A, Herter T, Schuster S, Silbernagel G, Sester M, Sester U, Aßmann G, Bals R, Kostner G, Jahnen-Dechent W, Menger MD, Rohrer L, März W, Böhm M, Jankowski J, Kopf M, Latz E, Niemeyer BA, Fliser D, Laufs U, Speer T. (2020): Apolipoprotein C3 induces systemic inflammation and organ damage by alternative inflammasome activation. Nature Immunol., 1, 30-41. doi: 10.1038/s41590-019-0548-1.
- Alansary D, Schmidt B, Dörr K, Bogeski I, Rieger H, Kless A, Niemeyer BA (2016). Thiol dependent intramolecular locking of Orai1 channels. Sci Rep 6, 33347. doi: 10.1038/srep33347.
- Miederer AM, Alansary D, Schwär G, Lee PH, Jung M, Helms V, Niemeyer BA (2015). A STIM2 splice variant negatively regulates store-operated calcium entry. *Nat Commun.* 6, 6899. doi: 10.1038/ncomms7899.
- Kilch T, Alansary D, Peglow M, Dörr K, Rychkov G, Rieger H, Peinelt C, Niemeyer BA (2013). Mutations of the Ca2+-sensing stromal interaction molecule STIM1 regulate Ca2+ influx by altered oligomerization of STIM1 and by destabilization of the Ca2+ channel Orai1. *J Biol Chem* 288, 1653-1664. doi: 10.1074/jbc.M112.417246.
- 8. Bogeski I, Kummerow C, Al-Ansary D, Schwarz EC, Koehler R, Kozai D, Takahashi N, Peinelt C, Griesemer D, Bozem M, Mori Y, Hoth M, **Niemeyer BA** (2010). Differential redox regulation of ORAI ion channels: a mechanism to tune cellular calcium signalling. *Sci Signal* 3, ra24. doi: 10.1126/scisignal.2000672.
- Erler I, Hirnet D, Wissenbach U, Flockerzi V, Niemeyer BA (2004). Ca2+-selective transient receptor potential V channel architecture and function require a specific ankyrin repeat. *J Biol Chem* 279, 34456-34463 doi: 10.1074/jbc.M404778200. (selected Faculty of 1000).

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Niemeyer BA, Suzuki E, Scott K, Jalink K, Zuker CS (1996). The Drosophila light-activated conductance is composed of the two channels TRP and TRPL. *Cell* 85, 651-659. doi: 10.1016/s0092-8674(00)81232-5.

Category B

Academic Distinctions

2002	Calogero-Pagliarello Research Prize
2001	Offered a Professorship for Biomedical Sciences, Cornell University, USA
1997-1999	National Research Service Award (NRSA), Fellowship
1997-1998	Stanford University Dean's Fellowship
1992-1995	Fellowship "Gottlieb-Daimler und Karl-Benz Stiftung"
1991-1992	Fellowship DAAD

Other Information

Dual Career with my husband, Prof. Dr. Markus Hoth

Data protection and consent to the processing of optional data

If you provide voluntary information (marked as optional) in this CV, your consent is required. Please confirm your consent by checking the box below.

[x] I expressly consent to the processing of the voluntary (optional) information, including "special categories of personal data" in connection with the DFG's review and decision-making process regarding my proposal. This also includes forwarding my data to the external reviewers, committee members and, where applicable, foreign partner organisations who are involved in the decision-making process. To the extent that these recipients are located in a third country (outside the European Economic Area), I additionally consent to them being granted access to my data for the above-mentioned purposes, even though a level of data protection comparable to EU law may not be guaranteed. For this reason, compliance with the data protection principles of EU law is not guaranteed in such cases. In this respect, there may be a violation of my fundamental rights and freedoms and resulting damages. This may make it more difficult for me to assert my rights under the General Data Protection Regulation (e.g. information, rectification, erasure, compensation) and, if necessary, to enforce these rights with the help of authorities or in court.

I may **revoke** my consent in whole or in part at any time – with effect for the future, freely and without giving reasons – vis-à-vis the DFG (postmaster@dfg.de). The lawfulness of the processing carried out up to that point remains unaffected. Insofar as I transmit "special categories of personal data" relating to third parties, I confirm that the necessary legitimation under data protection law exists (e.g. based on consent).

I have taken note of the DFG's Data Protection Notice relating to research funding, which I can access at www.dfg.de/privacy_policy and I will forward it to such persons whose data the DFG processes as a result of being mentioned in this CV.

¹ Special categories of personal data are those "revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership, and (...) genetic data, biometric data for the purpose of uniquely identifying a natural person, data concerning health or data concerning a natural person's sex life or sexual orientation" (Article 9(1) GDPR).