

# Hannah Scheiblich, PhD

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University Hospital Bonn / German Center for  
Neurodegenerative Diseases

## Position (e.g. Postdoctoral researcher)

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hannah.scheiblich@dzne.de

## Research Expertise

Hannah Scheiblich completed her *Bachelor of Science* at the Philipps-University of Marburg in 2009 and her *Master of Science* at the University of Veterinary Medicine in Hannover in 2011. She obtained her *doctoral degree* in 2015 at the Department of Cell Biology at the University of Veterinary Medicine in Hannover in the lab of Prof. Gerd Bicker on the topic "Nitric oxide (NO)- and carbon monoxide (CO)-mediated signal transduction in a co-culture system of microglia and human model neurons". Thereafter she worked as a postdoc in the lab of Dr. Joern Steinert at the Medical Research Council Toxicology Unit in Leicester, England. Since 2016 Hannah Scheiblich is working as a postdoc in the lab of Prof. Michael T. Heneka at the Department of Neurodegenerative Diseases and Gerontopsychiatry at the University Hospital Bonn and the German Center for neurodegenerative diseases with a focus on Parkinson's and Alzheimer's disease.

## Education / Training

University of Veterinary Medicine Hannover, Germany, Dr. rer. nat., 2015

University of Veterinary Medicine Hannover, Germany, Master of Science, 2011

Philipps-University of Marburg, Germany, Bachelor of Science, 2009

## Appointments / Positions Held

08/2012 – 12/2015

Research Assistant in the Dept. of Cell Biology, University of Veterinary Medicine Hannover

01/2016 – 08/2016

Postdoctoral Research Fellow at the Medical Research Council – Toxicology Unit, University of Leicester, England

since 09/2016

Postdoctoral Research Fellow at the Dept. of Neurodegenerative Diseases and Gerontopsychiatry, University Hospital Bonn

## Honors / Awards

2020

Research Grant, Hertie Foundation

2017

3<sup>rd</sup> Place Winner of the Mark A. Smith Award

## Most Relevant Publications

Ising C, Venegas C, Zhang S, **Scheiblich H**, Albasset S, Schmidt SV, Stunden J, Tejera D, Merten M, Schwartz S, Santarelli F, Griep A, Vieira-Saecker A, Opitz S, Kaye R, Latz E, Golenbock DT, Blum D, Buée L, Heneka MT (2019) Innate immune activation of the NLRP3 inflammasome pathway drives tau pathology, *Nature*, 575(7784):669-673.

Friker LL, **Scheiblich H**, Hochheiser IV, Brinkschulte R, Riedel D, Latz E, Geyer M, Heneka MT (2020)  $\beta$ -Amyloid Clustering around ASC Fibrils Boosts Its Toxicity in Microglia, *Cell Rep*, 30(11):3743-3754.

**Scheiblich H**, Schlütter A, Golenbock DT, Latz E, Martinez-Martinez P, Heneka MT (2017) Activation of the NLRP3 inflammasome in microglia: the role of ceramide, *J Neurochem*, 143(5):534-550.  
DOI: 10.1111/jnc.14225

Bourgognon JM, Spiers JG, **Scheiblich H**, Antonov A, Bradley SJ, Tobin AB, Steinert JR (2018) Alterations in neuronal metabolism contribute to the pathogenesis of prion disease, *Cell Death Differ*, 25(8):1408-1425.  
DOI: 10.1038/s41418-018-0148-x

**Scheiblich H**, Bicker G (2017) Regulation of Microglial Phagocytosis by RhoA/ROCK-Inhibiting Drugs, *Cell Mol Neurobiol.*, 37(3):461-473.  
DOI: 10.1007/s10571-016-0379-7