

Prof. Dr. Sarah Hedtrich (née Küchler)

University of British Columbia
Faculty of Pharmaceutical Sciences
2405 Wesbrook Mall
Vancouver, V6T1Z3, Vancouver, BC, Canada
Tel.: +1 604-822-2466
sarah.hedtrich@ubc.ca



EDUCATIONAL BACKGROUND

2006 Approbation as pharmacist
10/2001 – 10/2005 Studies of Pharmaceutical Sciences at University of Leipzig

SCIENTIFIC DEGREES

13.07.2016 Habilitation: Pharmacology & Toxicology, Freie Universität Berlin, Title:
 "Identification of new therapeutic targets and novel approaches for the
 treatment of diseased states of human epithelia"
02/2007 – 04/2009 Doctorate (Ph.D.): Pharmacology, Freie Universität Berlin, 2009

PROFESSIONAL EXPERIENCE

Since 01/2019 Assistant Professor with Tenure Track at the Faculty of Pharmaceutical
 Sciences, University of British Columbia, Canada
04/2015 – 12/2018 Assistant Professor, FU Berlin, Germany
04/2013 – 03/2015 Junior Research Group Leader, Institute for Pharmacy, FU Berlin
11/2012 – 03/2013 Guest researcher Tufts at Boston University, USA
02/2011 – 03/2013 Postdoctoral fellow at Department for Pharmaceutical Sciences, Ludwig-
 Maximilians-Universität München (LMU Munich)
01/2011 Visiting scientist at Wyss Institute at Harvard University, with Prof.
 Donald E. Ingber
05/2009 – 01/2011 Postdoctoral fellow at Institute of Pharmacy, Pharmacology and
 Toxicology, Freie Universität Berlin

HONORS AND AWARDS

2017 Member of "Future Leaders in Dermatology" selected by the European
 Society for Dermatological Research Academy
2016 Research on Skin Dryness Award (ROSA) for basic research in atopic
 dermatitis, sponsored by La Roche-Posay
2015 Astellas Research Award
2014 Award for Excellent Teaching (FU Berlin)
2012 - 2016 Galenus Support
11/2012 - 03/2013 DAAD Research Grant
2011 travel grant of DAAD (German Academic Exchange Service) for

Hasanuddin University, Sulawesi, Indonesia

- 2011 travel grant of Lesmüller foundation (Bavaria, Germany) for Gordon Research Conference Waterville Valley
- 2011 travel grant of Centre for Cluster Development, FU Berlin for visiting Wyss Institute, Harvard University
- 2010 "Heinz-Maurer Award" for fundamental dermatological research
- 2007 – 2009 NaFöG PhD scholarship (Elsa-Neumann-Stipendium)
- 2008 Poster Award European Workshop on Particulate Systems, Berlin

SCIENTIFIC BOARDS

- Since 2018 Editorial Board Member Scientific Report
- Since 2015 Editorial Board Member European Journal of Pharmaceutics and Biopharmaceutics
- Since 2016 Editorial Board Member Skin Pharmacology & Physiology

RESEARCH INTERESTS

Combining expertise in pharmacology, biomedical engineering & drug delivery, the Hedtrich Lab is focused the establishment of Next Generation Therapies, Nanomedicine, Tissue Engineering & Tissue Regeneration. We are particularly interested in healthy and diseased states of human epithelia with a current focus on inflammatory and genetic diseases of the human skin and lung. Our research is highly interdisciplinary requiring intense collaborations with experts in other fields of Life Sciences including chemistry, physics and genetics.