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born 29.9.1962 in Hanover, Germany

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### **University Education**

1982-1989 Biochemistry, Eberhard-Karls University, Tübingen  
1989 Diplom in Biochemistry, Eberhard-Karls University, Tübingen

### **Scientific certificates**

2002-2006 apl. Professor, Universität Lübeck, Lübeck  
1996 Habilitation and venia legendi for Pharmacology and Toxicology,  
University of Konstanz, Konstanz  
1992 Dr. rer. nat, University of Konstanz, Konstanz

### **Scientific Career**

2011 to present Dean Medical Faculty, RWTH Aachen University, Aachen  
2006 to present Professor for Pharmacology and Toxicology, RWTH Aachen University, Aachen  
2002-2003 Visiting professor, St. Michael's Hospital, Toronto, Canada  
1996-2006 Head Division Pulmonary Pharmacology, Research Center Borstel, Borstel  
1991-1996 Associate and Assistant Professor, Biochemical Pharmacology,  
University of Konstanz, Konstanz

### **Academic distinctions**

2014 Fellow of the European Respiratory Society, FERS  
2004 Hermann Rein-Preis der Gesellschaft für Mikrozirkulation  
und Vaskuläre Biologie e.V.  
1999 Prize for the Substitution of Animal Experimentation (Schleswig-Holstein)  
1997 Annual European Prize for the Substitution of Animal Experimentation (FISEA)  
1996 Gerhard-Hess Award, Deutschen Forschungsgemeinschaft  
1995 Servier Young Investigator Award  
1987-1992 Fellow „Studienstiftung des Deutschen Volkes“

## 10 selected publications

1. von Bethmann AN, Brasch F, Nüsing R, Vogt K, Volk HD, Müller KM, Wendel A, **Uhlig S**. Hyperventilation induces release of cytokines from perfused mouse lung. *Am J Respir Crit Care Med* 157: 263-272, 1998
2. Ehlers S, Benini J, Held HD, Roeck C, Alber G, **Uhlig S**.  $\alpha\beta$ TCR<sup>+</sup> cells and IFN $\gamma$ , but not iNOS, are critical for granuloma necrosis in a mouse model of mycobacteria-induced pulmonary immunopathology. *J Exp Med* 194: 1847-1859, 2001.
3. Held HD, Boettcher S, Hamann L, **Uhlig S**. Ventilation-induced chemokine and cytokine release is associated with activation of NF- $\kappa$ B and is blocked by steroids. *Am J Respir Crit Care Med* 162: 711-716, 2001.
4. Uhlig U, Fehrenbach H, Lachmann RA, Goldmann T, Vollmer E, Lachmann B, **Uhlig S**. A phosphoinositide 3-OH kinase inhibitor prevents ventilation-induced, but not LPS-induced NF- $\kappa$ B activation and cytokine release. *Am J Respir Crit Care Med* 169: 201-8, 2004.
5. Göggel R, Winoto-Morbach S, Vielhaber G, Imai Y, Lindner K, Brade L, Brade H, Ehlers S, Slutsky AS, Schütze S, Gulbins E, **Uhlig S**. PAF-mediated pulmonary edema: a new role for acid sphingomyelinase and ceramide. *Nat. Med.* 10: 155-160, 2004.
6. Imai Y, Kuba K, Rao S, Huan Y, Guo F, Guan B, Yang P, Sarao R, Wada T, Leong-Poi H, Crackower MA, Fukamizu A, Hui CC, Hein L, **Uhlig S**, Slutsky AS, Jiang C, Penninger JM. Angiotensin-converting enzyme 2 protects from severe acute lung failure. *Nature* 436: 112-116, 2005.
7. Yang Y, Yin J, Baumgartner W, Samapati R, Solymosi EA, Reppien E, Kübler W, **Uhlig S**. Platelet-activating factor reduces endothelial NO production - Role of acid sphingomyelinase. *Eur. Respir. J.* 36: 417-427, 2010.
8. Samapati R, Yang Y, Yin J, Stoerger C, Arenz C, Dietrich A, Gudermann T, Adam D, Wu S, Freichel M, Flockerzi V, Uhlig S\*, Kuebler WM\*. Lung endothelial Ca<sup>2+</sup> and permeability response to PAF is mediated by acid sphingomyelinase and TRPC6. *Am J Respir Crit Care Med* 185: 160-170, 2012. \* shared last authorship.
9. Kuebler WM, Wittenberg C, Lee WL, Reppien E, Goldenberg NM, Lindner K, Gao Y, Winoto-Morbach S, Drab M, Mühlfeld C, Dombrowsky H, Ochs M, Schütze S, **Uhlig S**. Thrombin stimulates albumin transcytosis in lung microvascular endothelial cells via activation of acid sphingomyelinase. *Am J Physiol Lung Cell Mol Physiol* 310: L720-32, 2016.
10. Lex D, **Uhlig S**. One-hit models of ventilator-induced lung injury: benign inflammation versus inflammation as a by-product. *Anesthesiology*, 2017.