

Personal details

Date of birth: 28th of July 1975
Place of birth: London (UK)
Nationality: German-British
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University education

1995-2006 Study of Biology at RWTH Aachen University
2006-2007 Diploma thesis 'The role of ubiquitin in the signal transduction of TrkA in neurodegenerative diseases', Institute of Neuropathology, Medical Faculty of RWTH Aachen University, Prof. Dr. J. Weis

Scientific career

2007-2012 PhD thesis 'A mouse intensive care unit to study TNF-induced sepsis and acid-induced lung injury', Institute of Pharmacology and Toxicology, Medical Faculty of RWTH Aachen University, Prof. Dr. S. Uhlig
Since 2012 Postdoctoral researcher at the Institute of Pharmacology and Toxicology, Medical Faculty of RWTH Aachen University

Research focus

- Lung pharmacology
- ARDS and Sepsis in large and small animal models
- Molecular principles of pulmonary inflammation

Awards and travel awards

- 2012 Travel award, *Deutsche Lungenstiftung*, for the American Thoracic Society Conference in San Francisco, USA
- 2012 Travel award, GlaxoSmithKline foundation, for the ERS Annual Congress in Vienna, Austria
- 2013 Naunyn-Schmiedeberg-price, best poster in experimental pharmacology
- 2013 Borchers Badge for passing the doctoral examination with *summa cum laude*
- 2016 Travel award (for excellent abstract), European Respiratory Society, for the Lung Science Conference in Estoril, Portugal

Funding

- 2014 NRW / RWTH Aachen innovation programme ‚START‘ ‚The role of the transcription factor Nrf2 (*Nuclear factor E2-related factor 2*) in a mouse model of acute lung injury‘
- 2014-2016 NRW / RWTH Aachen innovation programme ‚START‘ ‚The regulatory role of the *Y-box-binding-protein-1* (YB-1) in inflammation and hyperinflammation in the lung and the effect on the kidney function‘
- 2014-2017 IZKF joint project ‚Decisions in Inflammation‘
- 2017-2020 DFG individual grant ‚The role of YB-1 in the early pathogenesis of murine ARDS‘ (RE 3879/2-1)

Selected publications

1. **Reiss, LK**, Kowallik, A, Uhlig, S: Recurrent Recruitment Manoeuvres Improve Lung Mechanics and Minimize Lung Injury during Mechanical Ventilation of Healthy Mice. *PLoS One*. 6: e24527, 2011.
2. **Reiss, LK**, Uhlig, U, Uhlig, S: Models and mechanisms of acute lung injury caused by direct insults. *Eur J Cell Biol*. 91: 590-601, 2012.
3. Fragoulis A, Laufs J, Müller S, Soppa U, Siegl S, **Reiss LK**, Tohidnezhad M, Rosen C, Tenbrock K, Varoga D, Lippross S, Pufe T, Wruck CJ: Sulforaphane has opposing effects on TNF-alpha stimulated and unstimulated synoviocytes. *Arthritis Res Ther*. 14: R220, 2012.
4. Engel, M, Nowacki, RM, **Reiss, LK**, Uhlig, S, Willems, CH, Kloosterboer, N, van Iwaarden, JF, Sewing, AC, Seehase, M, Lambermont, VA, Collins, JJ, Zimmermann, LJ, Vos, GD, Kramer, BW: Comparison of recruitment manoeuvres in ventilated sheep with acute respiratory distress syndrome. *Lung*. 191: 77-86, 2013.
5. Bruells CS, Smuder AJ, **Reiss LK**, Hudson MB, Nelson WB, Wiggs MP, Sollanek KJ, Rossaint R, Uhlig S, Powers SK: Negative pressure ventilation and positive pressure ventilation promote comparable levels of ventilator-induced diaphragmatic dysfunction in rats. *Anesthesiology*. 119: 652-62, 2013.
6. **Reiss, LK**, Fragoulis, A, Siegl, S, Platen, C, Kan, YW, Nautiyal, J, Parker, M, Pufe, T, Uhlig, U, Martin, C, Uhlig, S, Wruck, CJ: Interplay between nuclear factor erythroid 2-related factor 2 and amphiregulin during mechanical ventilation. *Am J Respir Cell Mol Biol*. 51: 668-677, 2014.
7. Dreymueller D, Martin C, Schumacher J, Groth E, Boehm JK, **Reiss LK**, Uhlig S, Ludwig A: Smooth muscle cells relay acute pulmonary inflammation via distinct ADAM17/ErbB axes. *J Immunol*. 192: 722-31, 2014.
8. Verjans E, Ohl K, **Reiss LK**, van Wijk F, Toncheva AA, Wiener A, Yu Y, Rieg AD, Gaertner VD, Roth J, Knol E, Kabesch M, Wagner N, Uhlig S, Martin C, Tenbrock K. The cAMP response element modulator (CREM) regulates TH2 mediated inflammation. *Oncotarget*. 6: 38538-51, 2015.
9. **Reiss LK**, Uhlig S. Toward the molecular signature of ARDS. *Am J Resp Crit Care Med*. 194: 922-924, 2016.
10. Horst K, Simon TP, Pfeifer R, Teuben M, Almahmoud K, Zhi Q, Santos SA, Wemmers CC, Leonhardt S, Heussen N, Störmann P, Auner B, Relja B, Marzi I, Haug AT, van Griensven M, Kalbitz M, Huber-Lang M, Tolba R, **Reiss LK**, Uhlig S, Marx G, Pape HC, Hildebrand F. Characterization of blunt chest trauma in a long-term porcine model of severe multiple trauma. *Sci Rep*. 6: 39659, 2016.