

Curriculum Vitae

Peter König Professor, Dr. med.
d.o.b. December 25th, 1972, in Göttingen, Germany

University Education

2011 Habilitation in Anatomy, University of Lübeck
2003 Doctorate in Medicine, Justus Liebig University Giessen (JLU)
2001 Board certification as physician, State Examination Office, Hesse, Germany
1999-2002 Member, Research Training Group *Basics of Vascular Medicine*, JLU and Internship
Clinic for Anaesthesiology, Intensive Care and Pain Medicine, JLU
1992-1999 Studies of Medicine, Philipps University Marburg and JLU

Scientific Career

Since 2020 Member of the Board, Airway Research Center North (ARCN)
Since 2019 Co-Scientific Coordinator, Platform Imaging, German Center for Lung Research (DZL)
Since 2019 Member, Excellence Cluster Precision Medicine in Chronic Inflammation (EXC 2167)
Since 2012 Professor of Anatomy and Associate Director, Institute of Anatomy, University of
Lübeck
Since 2011 Principal Investigator, DZL
2011-2012 Adjunct Professor, Institute of Anatomy, University of Lübeck
2009-2019 Member, Excellence Cluster Inflammation at interfaces (EXC 306)
2009-2014 Principal Investigator Collaborative Research Center TR22 "Allergic Immune Response
of the Lung"
2003-2011 Group leader, Institute of Anatomy, University of Lübeck
2003-2006 Postdoctoral Fellow, Institute of Anatomy and Cell Biology, JLU

Citation Record

Total citations: 3549; h-index:37; h-index since 2017: 26 (Google Scholar August 26th, 2022)

Top-10 selected Publications

Hollenhorst, MI, Nandigama, R, Evers, SB, Gamayun, I, Abdel Wadood, N, Salah, A, Pieper, M, Wyatt, A, Stukalov, A, Gebhardt, A, Nadolni, W, Burow, W, Herr, C, Beisswenger, C, Kusumakshi, S, Ectors, F, Kichko, TI, Hubner, L, Reeh, P, Munder, A, Wienhold, SM, Witzenrath, M, Bals, R, Flockerzi, V, Gudermann, T, Bischoff, M, Lipp, P, Zierler, S, Chubonov, V, Pichlmair, A, **König, P**, Boehm, U, Krasteva-Christ, G. Bitter taste signaling in tracheal epithelial brush cells elicits innate immune responses to bacterial infection. *J Clin Invest* 2022 132(13):e150951. doi: [10.1172/JCI150951](https://doi.org/10.1172/JCI150951).

Wenzel J, LJ, Müller-Fielitz H, Schuster R, Zille M, Müller K, Krohn M, Körbelin J, Zhang L, Özorhan Ü, Neve V, Wagner Jug, Bojkova D, Shumliakivska M, Jiang Y, Fähnrich a, Ott F Sencio V, Robil C, Pfeifferle S, Sauve F, Coêlho Cff, Franz J, Spiecker F, Lembrich B, Binder S, Feller N, **König P**, Busch H, Collin L, Villaseñor R, Jöhren O, Altmeppen Hc, Pasparakis M, Dimmeler S, Cinat J, Püschel K, Zelic M, Ofengeim D, Stadelmann C, Trottein F, Nogueiras R, Hilgenfeld R, Glatzel M, Prevot V, Schwaninger M. The sars-cov-2 main protease mpro causes microvascular brain pathology by cleaving nemo in brain endothelial cells. *Nat Neurosci* 2021 11):1522-1533. doi: [10.1038/s41593-021-00926-1](https://doi.org/10.1038/s41593-021-00926-1).

Pieper, M, Schulz-Hildebrandt, H, Mall, MA*, Hüttmann, G*, **König, P***. Intravital microscopic optical coherence tomography imaging to assess mucus-mobilizing interventions for muco-obstructive lung disease in mice. *Am J Physiol Lung Cell Mol Physiol* 2020 318(3):L518-L524. doi: [10.1152/ajplung.00287.2019](https://doi.org/10.1152/ajplung.00287.2019). *Equal contribution

Hoffmann, FM, Berger, JL, Lingel, I, Laumonnier, Y, Lewkowich, IP, Schmudde, I, **König, P**. Distribution and interaction of murine pulmonary phagocytes in the naive and allergic lung. *Front Immunol* 2018 9:1046. doi: [10.3389/fimmu.2018.01046](https://doi.org/10.3389/fimmu.2018.01046).

Lindner, K, Stroebele, M, Schlick, S, Webering, S, Jenckel, A, Kopf, J, Danov, O, Sewald, K, Buj, C, Creutzenberg, O, Tillmann, T, Pohlmann, G, Ernst, H, Ziemann, C, Hüttmann, G, Heine, H, Bockhorn, H, Hansen, T, **König, P***, Fehrenbach, H*. Biological effects of carbon black nanoparticles are changed by surface coating with polycyclic aromatic hydrocarbons. *Part Fibre Toxicol* 2017 14(1):8. doi: [10.1186/s12989-017-0189-1](https://doi.org/10.1186/s12989-017-0189-1). *Equal contribution

Kretschmer, S, Pieper, M, Klinger, A, Hüttmann, G, **König, P**. Imaging of wound closure of small epithelial lesions in the mouse trachea. *Am J Pathol* 2017 187(11):2451-2460. doi: [10.1016/j.ajpath.2017.07.006](https://doi.org/10.1016/j.ajpath.2017.07.006).

Zehethofer, N, Bermbach, S, Hagner, S, Garn, H, Müller, J, Goldmann, T, Lindner, B, Schwudke, D*, **König, P***. Lipid analysis of airway epithelial cells for studying respiratory diseases. 2015;78(5-6):403-413. doi: [10.1007/s10337-014-2787-5](https://doi.org/10.1007/s10337-014-2787-5). *Equal contribution

Bermbach, S, Weinhold, K, Roeder, T, Petersen, F, Kugler, C, Goldmann, T, Rupp, J, **König, P**. Mechanisms of cilia-driven transport in the airways in the absence of mucus. *Am J Respir Cell Mol Biol* 2014 51(1):56-67. doi: [10.1165/rcmb.2012-0530OC](https://doi.org/10.1165/rcmb.2012-0530OC).

Groneberg, D, **König, P**, Wirth, A, Offermanns, S, Koesling, D, Friebe, A. Smooth muscle-specific deletion of nitric oxide-sensitive guanylyl cyclase is sufficient to induce hypertension in mice. *Circulation* 2010 121(3):401-9. doi: [10.1161/CIRCULATIONAHA.109.890962](https://doi.org/10.1161/CIRCULATIONAHA.109.890962).

Klein, MK, Haberberger, RV, Hartmann, P, Faulhammer, P, Lips, KS, Krain, B, Wess, J, Kummer, W, **König, P**. Muscarinic receptor subtypes in cilia-driven transport and airway epithelial development. *Eur Respir J* 2009 May;33(5):1113-21. doi: [10.1183/09031936.00015108](https://doi.org/10.1183/09031936.00015108).