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born 29.07.1967 in Kiel, Germany

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### University Education

1995 Diploma in Microbiology, Biochemistry and Zoology

1989 – 1995 Study of Biology, University of Kiel

### Scientific certificates

2009 Habilitation and *venia legendi* in Pharmacology and Toxicology, Medical Faculty, RWTH Aachen University

2004 Habilitation and *venia legendi* in Biochemistry, Medical Faculty, Kiel University

1998 Dissertation in Cell Biology, Research Center Borstel, Prof. H-D Flad, University of Kiel

### Scientific Career

2010 Univ.-Prof. (W2) for Inflammation Pharmacology, Institute for Pharmacology and Toxicology, Medical Faculty, RWTH Aachen University

2009 APL-Professor, Institute for Pharmacology and Toxicology, Medical Faculty, RWTH Aachen University

2008 Research Assistant (C2), Institute for Pharmacology and Toxicology, Prof. S. Uhlig  
1998 - 2001 Postdoctoral Research Fellow, Research Center Borstel, Prof. H-D Flad

2006 Group leader, Vascular Pharmacology, Interdisciplinary Center for Clinical Research IZKF BIOMAT, RWTH Aachen University, Research Assistant (C2), Institute for Molecular Cardiovascular Research, Prof. C. Weber

2005-2006 Research Assistant (C2), Institute for Biochemistry, Kiel University, Prof. S. Rose-John

2002 - 2006 Research Assistant (C1), Institute for Biochemistry, Kiel University, Prof. S. Rose-John

2001 – 2002 Postdoctoral Researcher , GlaxoSmithKline, Vascular Biology Unit, UK

### Other professional/academic positions and prizes

2002-2017 DFG Project leader Lu869/1-1,2,3, FOR809 project 5, Lu869/4-1, SFB542 project A12, Lu869/5-1,2, Lu869/7-1

2014-2017 Vice-Speaker of the IZKF Aachen Consortium Decisions in Inflammation

2001 - 2002 Marie Curie Industrial Host Fellowship

1999 PhD thesis award Bad Segeberg

1991-1995 Fellowship of the Studienstiftung des deutschen Volkes,

## 10 selected publications

- Pasqualon T, Pruessmeyer J, Jankowski V, Babendreyer A, Groth E, Schumacher J, Koenen A, Weidenfeld S, Schwarz N, Denecke B, Jahr H, Dreymueller D, Jankowski J, **Ludwig A**. 2015. A cytoplasmic C-terminal fragment of Syndecan-1 is generated by sequential proteolysis and antagonizes Syndecan-1 dependent lung tumor cell migration. *Oncotarget* 6:31295-312.
- Pruessmeyer J, Hess FM, Alert H, Groth E, Pasqualon T, Schwarz N, Nyamoya S, Kollert J, van der Vorst E, Donners M, Martin C, Uhlig S, Saftig P, Dreymueller D, **Ludwig A**. 2014 Leukocytes require ADAM10 but not ADAM17 for their migration and inflammatory recruitment into the alveolar space. *Blood* 123:4077-88.
- Dreymueller D, Martin C, Schumacher J, Groth E, Boehm JK, Reiss LK, Uhlig S, **Ludwig A**. 2 Smooth muscle cells relay acute pulmonary inflammation via distinct ADAM17/ErbB axes. *J Immunol* 192:722-31.
- Shimoda M, Principe S, Jackson HW, Luga V, Fang H, Molyneux SD, Shao YW, Aiken A, Waterhouse PD, Karamboulas C, Hess FM, Ohtsuka T, Okada Y, Ailles L, **Ludwig A**, Wrana JL, Kislinger T, Khokha R. 2014. Loss of the Timp gene family is sufficient for the acquisition of the CAF-like cell state. *Nat Cell Biol* 16:889-901.
- Dreymueller D, Martin C, Kogel T, Pruessmeyer J, Hess FM, Horiuchi K, Uhlig S, **Ludwig A**. 1012. Lung endothelial ADAM17 regulates the acute inflammatory response to lipopolysaccharide. *EMBO Mol Med* 4:412-23.
- Schwarz N, Pruessmeyer J, Hess MF, Pantaler E, Windoffer R, Voss M, Sarabi A, Weber C, Sechi A, Uhlig S, **Ludwig A**. 2010. Sequential steps of leukocyte recruitment via the transmembrane chemokine CX3CL1. *Mol Cell Life Sci* 67:4233-48.
- Koenen R, Pruessmeyer J, Soehnlein O, Lindbom L, Kenne E, Fraemohs L, Schwarz N, Reiss K, Zerneck A, Sarabi A, Hackeng T, Weber C, **Ludwig A**. 2009. Shedding of the junctional adhesion molecule JAM-A by the disintegrin and metalloproteinase ADAM17 modulates leukocyte recruitment. *Blood* 113:4799-809.
- Frommhold D\*, **Ludwig A**\*, Bixel G, Zarbock A, Babushkinal I, Weissinger M, Lange-Sperandio B, Ellies LG, Marth JD, Beck-Sickinger AG, Linderkamp O, Zerneck A, Weber C, Vestweber D, Ley K, Sperandio M. 2008. Sialyltransferase ST3Gal-IV controls CXCR2-mediated firm leukocyte arrest during inflammation *J Exp Med* 205:1435-46 (\* equal contribution).
- Weskamp G, Ford J, Sturgill J, Martin S, Docherty M, Svendemann S, Broadway N, Hartmann D, Saftig P, Black R, **Ludwig A**, Becherer D, Conrad D, Blobel C. 2006. ADAM10 is a major sheddase of the low affinity IgE receptor CD23. *Nat Immunol* 7:1293-1298.
- Hundhausen C, Misztela D, Berkhout TA, Broadway N, Saftig P, Reiss K, Hartmann D, Fahrenholz F, Postina R, Matthews V, Kallen KJ, Rose-John S, **Ludwig A**. 2003. The disintegrin-like metalloproteinase ADAM10 is involved in constitutive cleavage of CX3CL1 (fractalkine) and regulates CX3CL1-mediated cell-cell adhesion. *Blood* 102:1186-1195.