

Curriculum Vitae

Christian Mühlfeld Professor, Dr. med.
d.o.b. July 02nd, 1976, in Siegen, Germany

University Education

2009 Habilitation Anatomy and Cell Biology, Justus-Liebig-University Gießen
2003 Doctorate Medicine, Georg-August-University Göttingen
1997-2003 Studies of Medicine, Georg-August-University Göttingen

Scientific Career

Since 2024 Head of Institute of Functional and Applied Anatomy, Hannover Medical School
Since 2019 Head of Core Unit Electron Microscopy, Hannover Medical School
2019-2024 Interim Head of Department, Institute of Functional and Applied Anatomy, Hannover Medical School
Since 2012 Principal Investigator of the German Center for Lung Research (DZL)
Since 2011 Professor of Anatomy, Institute of Functional and Applied Anatomy, Hannover Medical School
2010-2011 Assistant Professor and Head of Core Unit Electron Microscopy, Institute of Anatomy and Cell Biology, Justus-Liebig-University Gießen
2008-2009 Postdoctoral Fellow, Institute of Anatomy and Cell Biology, Justus-Liebig-University Gießen
2006-2008 Postdoctoral Fellow, Institute of Anatomy, University of Bern, Switzerland
2003-2006 Postdoctoral Fellow, Institute of Anatomy, Georg-August-University Göttingen

Awards and Honors

2020 Robert Feulgen-Prize, Society for Histochemistry
Since 2023 Elected Member of the Ethics Committee of the Anatomical Society
2025-2027 Elected Dean of Studies, Hannover Medical School

Citation Record

Total citations: 7,784; h-index: 43 (Scopus March 4th, 2026)

Top-10 selected Publications

Appuhn S, Siebert S, Myti D, Wrede C, Brandenberger C, Schipke J, Morty RE, Grothausmann R, **Mühlfeld C** (2021): Capillary changes precede disordered alveolarization in a mouse model of bronchopulmonary dysplasia. *Am J Respir Cell Mol Biol* 65: 81-91.

Schipke J, Hegermann J, Kuhlmann S, Fassbender S, Kühnel M, Jonigk D, **Mühlfeld C** (2021): Lipofibroblasts in normal, fibrotic and emphysematous human lung. *Am J Respir Crit Care Med* 204: 227-230.

Schipke J, Jütte D, Brandenberger C, Autillio C, Perez-Gil J, Bernhard W, Ochs M, **Mühlfeld C** (2021): Dietary carbohydrates and fat induce distinct surfactant alterations in mice. *Am J Respir Cell Mol Biol* 64: 379-390.

Kang MH, van Lieshout LP, Xu L, Domm JM, Vadivel A, Renesme L, **Mühlfeld C**, Hurskainen M, Mizikova I, Pei Y, Milazzo C, Cyr-Depauw C, Whitsett JA, Nogee LM, Wootton SK, Thébaud B (2020): AAV-Mediated Gene Therapy Restores Surfactant Homeostasis and Enhances Survival in a Mouse Model of Inherited Surfactant B Deficiency. *Nat Comm* 11(1):3929.

Hegermann J, Wrede C, Faßbender S, Schliep R, Ochs M, Knudsen L, **Mühlfeld C** (2019): Volume-CLEM: A Method for Correlative Light- and Electron-Microscopy in Three Dimensions. *Am J Physiol Lung Cell Mol Physiol* 317: L778-L784.

Schneider JP, Wrede C, Hegermann J, Weibel ER, **Mühlfeld C**, Ochs M (2019): On the topological complexity of human alveolar epithelial type I cells. *Am J Respir Crit Care Med* 199: 1153-1156.

Grothausmann R, Knudsen L, Ochs M, **Mühlfeld C** (2017): Digital reconstructions of histological serial sections demonstrated on the alveolar capillary network of the lung. *Am J Physiol Lung Cell Mol Physiol* 312: L243-L257.

Willführ A, Brandenberger C, Piatkowski T, Grothausmann R, Nyengaard JR, Ochs M, **Mühlfeld C** (2015): A new method to evaluate the alveolar capillary network based on the Euler-Poincaré characteristic. *Am J Physiol Lung Cell Mol Physiol* 309: L1286-L1293.

Mühlfeld C, Becker L, Bussinger C, Vollroth M, Nagib R, Schaefer IM, Knudsen L, Richter J, Madershahian N, Wahlers T, Wittwer T, Ochs M (2010): Effect of exogenous surfactant on endogenous surfactant pools in rat lung ischemia/reperfusion injury. *J Heart Lung Transplant* 29: 327-334.

Mühlfeld C, Schaefer IM, Becker L, Bussinger C, Vollroth M, Bosch A, Nagib R, Madershahian N, Richter J, Wahlers T, Wittwer T, Ochs M (2009): Preischemic exogenous surfactant reduces pulmonary injury in rat ischaemia/reperfusion. *Eur Respir J* 33 (3): 625-633. Joined first authorship