Curriculum Vitae

Matthias Ochs Professor, Dr. med.
d.o.b. December 05th, 1967, in Kassel, Germany

University Education

2004	Habilitation Anatomy, University of Bern
1998	Doctorate Medicine, Georg August University Göttingen
1987–1994	Studies of Medicine, Georg August University Göttingen

Scientific Career

Since 2020	Member, Review Board Basic Research in Biology and Medicine, German Research Federation (DFG)
Since 2019	Full Professor (W3) and Chair, Institute of Functional Anatomy, Charité - Universitätsmedizin Berlin
Since 2019	Director, Core Facility Electron Microscopy, Charité - Universitätsmedizin Berlin
2012–2019	Co-coordinator, Platform Imaging, German Center for Lung Research (DZL)
2012–2018	Steering Committee Member, REBIRTH Cluster of Excellence, Hannover
2009–2018	Full Professor (W3) and Chair, Institute of Functional and Applied Anatomy Hannover Medical School
2005–2009	Docent and Associate Professor, Institute of Anatomy, University of Bern
2003–2004	Visiting Postdoc, Cardiovascular Research Institute, University of California San Francisco
2002–2004	Junior Professor (W1), Institute of Anatomy, Georg August University Göttingen
1994–2002	Scientific Assistant, Institute of Anatomy, Georg August University Göttingen

Awards and Honors

2020	Teaching Award, Charité - Universitätsmedizin Berlin
2012–2017	Adjunct Professor, University of Saskatchewan, Saskatoon
2010/12–14/ 16–18	Teaching Awards, Hannover Medical School
2009	Teacher of the Year, Medical Faculty, University of Bern
2008	Elected Member, Fleischner Society for Thoracic Imaging and Diagnosis
2003–2004	Feodor Lynen Fellowship, Alexander von Humboldt Foundation
1999	Promotion Award, German Society for Thoracic & Cardiovascular Surgery

Citation Record

Total citations: 10,045; *h-index: 48; h-index since 2017: 35* (Google Scholar September 1st, 2022)

Top-10 selected Publications

Lettau M, Timm S, Dittmayer C, Lopez-Rodriguez E, ***Ochs M***. The ultrastructural heterogeneity of lung surfactant revealed by serial section electron tomography: insights into the 3D architecture of human tubular myelin. Am J Physiol Lung Cell Mol Physiol 322: L873-L881, 2022

Ochs M, Timm S, Elezkurtaj S, Horst D, Meinhardt J, Heppner F, Weber-Carstens S, Hocke AC, Witzenrath M. Collapse induration of alveoli is an ultrastructural finding in a COVID-19 patient. Eur Respir J 57: 2004165, 2021.

Ochs M, Hegermann J, Lopez-Rodriguez E, Timm S, Nouailles G, Matuszak J, Simmons S, Witzenrath M, Kuebler WM. On top of the alveolar epithelium: surfactant and the glycocalyx. Int J Mol Sci 21: 3075, 2020.

Schneider JP, Wrede C, Hegermann J, Weibel ER, Mühlfeld C, ***Ochs M***. On the topological complexity of human alveolar epithelial type 1 cells. Am J Respir Crit Care Med 199: 1153-1156, 2019.

Knudsen L, ***Ochs M***. The micromechanics of lung alveoli: structure and function of surfactant and tissue components. Histochem Cell Biol 150: 661-676, 2018.

Ochs M, Knudsen L, Hegermann J, Wrede C, Grothausmann R, Mühlfeld C. Using electron microscopes to look into the lung. Histochem Cell Biol 146: 695-707, 2016.

Vasilescu DM, Gao Z, Saha PK, Yin L, Wang G, Haefeli-Bleuer B, ***Ochs M***, Weibel ER, Hoffman EA. Assessment of morphometry of pulmonary acini in mouse lungs by non-destructive imaging using multi-scale micro-computed tomography. Proc Natl Acad Sci USA 109: 17105-17110, 2012.

Knudsen L, Weibel ER, Gundersen HJG, Weinstein FV, ***Ochs M***. Assessment of air space size characteristics by intercept (chord) measurement: an accurate and efficient stereological approach. J Appl Physiol 108: 412-421, 2010.

Hsia CCW, Hyde DM, ***Ochs M***, Weibel ER. An official research policy statement of the American Thoracic Society / European Respiratory Society: Standards for quantitative assessment of lung structure. Am J Respir Crit Care Med 181:394-418, 2010.

Ochs M, Nyengaard JR, Jung A, Knudsen L, Voigt M, Wahlers T, Richter J, Gundersen HJG. The number of alveoli in the human lung. Am J Respir Crit Care Med 169:120-124, 2004.