

Curriculum Vitae

Wolfgang M. Kuebler Professor, Dr. med.
d.o.b. July 19th, 1967, in Cologne, Germany

University Education

2001 Habilitation Experimental Surgery, LMU
1997 Doctorate Medicine, LMU
1987–1994 Studies of Medicine, Ludwig-Maximilians-University Munich (LMU)

Scientific Career

Since 2025 Chair, Advisory Board, Berlin University Alliance
Since 2025 Vice-President, German Physiological Society
Since 2023 Executive Board, Sonnenfeld Foundation
2023–2026 Chair, Publications Committee, American Physiological Society
2021–2022 President, German Society for Microcirculation and Vascular Biology
Since 2019 Spokesperson, Faculty Board, Charité – Universitätsmedizin Berlin
Since 2016 Director, Institute of Physiology, Charité – Universitätsmedizin Berlin
Since 2015 Full Professor, Departments of Physiology and Surgery, UofT
2014–2017 Chair, Section Advisory Committee, American Physiological Society
2014–2016 Founding Director, Critical Care and Injury Research Centre, Toronto
2011–2024 Chair, Scientific Advisory Panel, Ludwig-Boltzmann-Inst. for Lung Vascular Res., Graz
2011–2014 Chair, Respiration Section, American Physiological Society
2010–2015 Associate Professor, Department of Physiology, UofT
2008–2015 Associate Professor, Department of Surgery, University of Toronto (UofT)
2008–2016 Staff Scientist, St. Michael's Hospital, Toronto
2002–2008 Associate Professor for Physiology and Pathophysiology, Charité Universitätsmedizin Berlin, endowed by the German Heart Institute Berlin, Germany
2000–2002 Postdoctoral Research Fellow, Institute for Surgical Research, LMU
1997–1999 DFG Research Fellow, Columbia University, New York
1994–1997 Residency, Institute for Surgical Research and Department of Surgery, LMU

Awards and Honors

2025 Presidential Outstanding Service Award, American Physiological Society
2024 American Thoracic Society Fellow (ATSF)
2024 Comroe Award, American Physiological Society
2019 Fellow of the American Physiological Society (FAPS)
2019 Fellow of the European Respiratory Society (FERS)
2018 Reviewer Award, American Journal of Respiratory Cell and Molecular Biology
2016 Elected Member; College of the Royal Society of Canada
2016 Arthur Weber Award "Forschen um zu helfen"; German Cardiac Society
2000 Lafon Award; European Society for Microcirculation
1999 Hermann Rein Award; German Society for Microcirculation and Vascular Biology

Citation Record

Total citations: 21,072; h-index: 82; h-index since 2021: 49 (Google Scholar March 3rd, 2026)

Top-10 selected Publications (*shared senior authorship)

1. T. Jiang, R. Samapati, S. Klassen, J. Yin, L. Tan, C. Arenz, S. Schulz, S. Simmons, S. Uhlig, **W.M. Kuebler**: Mannose-6-phosphate attenuates acute lung injury by competitive release of acid sphingomyelinase from the mannose-6-phosphate receptor in endothelial caveolae. **Eur Respir J**, 65: 2400003, 2025.

2. S.-F. Liu, M.M. Kucherenko, P. Sang, Q. Li, J. Yao, N.N. Veetil, T. Gransar, I. Alesutan, J. Voelkl, S. Simmons, C. Knosalla*, **W.M. Kuebler***: TAZ-regulated RUNX2 signaling drives pulmonary artery calcification in pulmonary hypertension due to left heart disease. **Eur Respir J** 64: 2300844, 2024.
3. Q. Zhang, N. Yaoita, A. Tabuchi, S.-F. Liu, S.-H.Chen, Q. Li, C. Li, J. Rodor, S. Timm, H. Laban, T. Finkel, T. Stevens, D. Alvarez, L. Erfinanda, M. de Perrot, M.M. Kucherenko, C. Knosalla, M. Ochs, S. Dimmeler, T. Korff, S. Verma, A. Baker, **W.M. Kuebler**. Endothelial heterogeneity in the response to autophagy drives small vessel muscularization in pulmonary hypertension. **Circulation** 150: 466-487, 2024.
4. M.M. Kucherenko, P. Sang, J. Yao, T. Gransar, S. Dhital, J. Grune, S. Simmons, L. Michalick, D. Wulsten, M. Thiele, O. Shomroni, F. Hennig, R. Yeter, N. Solowjowa, G. Salinas, G.N. Duda, V. Falk, N. Vyavahare, **W.M. Kuebler***, C. Knosalla*: Elastin stabilization restores pulmonary arterial biomechanics and prevents pulmonary hypertension in left heart disease. **Nat Commun** 14: 4416, 2023.
5. Y. Fan, A.M. Zhang, X.L. Wu, Z.S. Huang, K. Kontogianni, K. Sun, W.L. Fu, N. Wu, **W.M. Kuebler**, F.J.F. Herth: Transbronchial needle aspiration combined with cryobiopsy in the diagnosis of mediastinal diseases: a multicentre, open-label, randomised trial. **Lancet Respir Med** 11: 256-264, 2023.
6. L. Erfinanda, L. Zou, B. Gutbier, L. Kneller, S. Weidenfeld, L. Michalick, D. Lei, K. Reppe, L.G. Teixeira Alves, B. Schneider, Q. Zhang, C. Li, D. Fatykhova, P. Schneider, W. Liedtke, E. Sohara, T.J. Mitchell, A. Grube, A. Hocke, S. Hippenstiel, N. Suttorp, A. Oleschewski, M.A. Mall, M. Witzernath, **W.M. Kuebler**: Loss of endothelial CFTR drives barrier failure and edema formation in lung infection and can be targeted by CFTR potentiation. **Sci Transl Med** 14: eabg8577, 2022.
7. T. Jiang, R. Samapati, S. Klassen, D. Lei, V. Jankowski, S. Simmons, J. Yin, C. Arenz, A. Dietrich, T. Gudermann, D. Adam, M. Schaefer, J. Jankowski, V. Flockerzi, R. Nüsing, S. Uhlig, **W.M. Kuebler**: Stimulation of the EP3 receptor causes lung edema by activation of TRPC6 in pulmonary endothelial cells. **Eur Respir J** 60: 2102635, 2022.
8. S. Ahmad, S. Matalon, **W.M. Kuebler**: Understanding COVID-19 susceptibility and presentation based on its underlying physiology. **Physiol Rev** 102: 1579-1585, 2022.
9. P. Georg, R. Astaburuaga-García, L. Bonaguro, S. Brumhard, L. Michalick, L.J. Lippert, T. Kostevc, C. Gäbel, M. Schneider, M. Streitz, V. Demichev, I. Gemünd, M. Barone, P. Tober-Lau, E.T. Helbig, D. Hillus, L. Petrov, J. Stein, H.P. Dey, D. Paclik, C. Iwert, M. Mülleder, S.K. Aulakh, S. Djurdjaj, R.D. Bülow, H.E. Mei, A.R. Schulz, A. Thiel, S. Hippenstiel, A.E. Saliba, R. Eils, I. Lehmann, M.A. Mall, S. Stricker, J. Röhmel, V.M. Corman, D. Beule, E. Wyler, M. Landthaler, B. Obermayer, S. von Stillfried, P. Boor, M. Demir, H. Wesselmann, N. Suttorp, A. Uhrig, H. Müller-Redetzky, J. Nattermann, **W.M. Kuebler**, C. Meisel, M. Ralser, J.L. Schultze, A.C. Aschenbrenner, C. Thibeault, F. Kurth, L.E. Sander, N. Blüthgen, B. Sawitzki; PA-COVID-19 Study Group: Complement activation induces excessive T cell cytotoxicity in severe COVID-19. **Cell** 185: 493-512, 2022.
10. M.J. McVey, M. Maishan, C. Spring, M. Kim, A. Tabuchi, V. Srbely, A. Takabe-French, C. Arenz, J.W. Semple, **W.M. Kuebler**: Platelet-derived extracellular vesicles mediate transfusion-related acute lung injury by imbalancing the bioactive sphingolipid rheostat. **Blood** 137: 690-701, 2021.