Curriculum Vitae

Mareike Lehmann Professor, Dr. sci. nat.
d.o.b. April 20th, 1986, in Siegburg, Germany

University Education

2010-2014 Doctoral thesis, University of Zürich, Switzerland
2005–2010 Studies of Molecular Biomedicine, Rheinische Friedrich-Wilhelms University Bonn, Germany and Yale University, New Haven, USA

Scientific Career

since 2023 Emmy Noether Research Group Leader "Cellular heterogeneity of lung aging and regeneration", Philipps University Marburg, Germany
since 2023 Adjunct Faculty, Institute for Lung Health, Gießen
since 2023 Associate Principal Investigator, Loewe Research Group "Diffusible Signals"
since 2022 Professor for Translational Inflammation research (W1 Tenure Track W2) at the Institute for Lung Research, Philipps University Marburg, Germany
since 2022 Principal Investigator, German Center for Lung Research (DZL)
since 2022 Group leader "Lung Inflammaging", Institute of Lung Health and Immunity, Helmholtz Center Munich, Germany
2021 Principal Investigator "Lung Aging", Lung Repair and Regeneration Unit, Helmholtz Center Munich, Germany
2016-2020 Senior postdoctoral researcher / Project Leader "Lung Aging", Lung Repair and Regeneration Unit, Helmholtz Center Munich, Germany
2014-2016 Junior postdoctoral researcher, Lung Repair and Regeneration Unit, Helmholtz Center Munich, Germany
2014-2014 Junior postdoctoral researcher, University of Zurich, Switzerland

Awards and Honors

2024 Carol Basbaum Award of the American Thoracis Society (ATS) 2024 in recognition of outstanding scientific achievement and leadership potential
2023 Early Career Member Award of the European Respiratory Society (ERS) 2023
2023 Best abstract award of the American Thoracic Society (ATS), Assembly for Respiratory Cellular and Molecular Biology, ATS annual meeting 2023, Washington DC, USA
2023 Abstract scholarship by the Pulmonary Fibrosis Foundation, ATS annual meeting 2023, Washington DC, USA
2022 Emmy Noether Junior Research Group "Lung Aging and Regeneration", DFG
2022 Best presentation award of the Deutsche Gesellschaft für Pneumologie und Beatmungsmedizin e.V. (DGP), Sektion Zellbiologie, Herbsttagung 2022, Marburg, Germany
2021 Rising star of Research Award of the American Thoracic Society (ATS)
2020-2021 Selected participant for the Early Career Editorial Mentorship Program of the European Respiratory Journal Open Research (ERJ OR)
2020 International Trainee Scholarship by the American Thoracic Society (ATS)
2017 Young scientist delegate for the Lung Science Conference 2017 in Estoril, Portugal
2016 Best poster award Pittsburgh Munich Lung Conference 2016, Pittsburgh, USA

Citation Record

Total citations: 2,782; *h-index:23; h-index since 2019:22* (Google Scholar September 3rd, 2024)

Top-10 selected Publications

Burgy, O., Mayr, C.H., Schenesse D, Papakonstantinou EF, Ballester B, Sengupta A, She Y, Hu Q, Melo-Narvaéz, MC, Jain, E, Pestoni JC., Estrada-Bernal A., Onwuka, U, Coughlan, C., Parimon, T, Chen, P., Heimerl, T, Bange G.,, Schmeck BT, Lindner, M., Hilgendorff, A., Ruppert, C, Günther, A., Mann, M., Yildirim, AÖ, Eickelberg, o., Jung AL ., Schiller, H.B., ***Lehmann, M.*,*** Burgstaller, G*., Könisghoff, M*. (2022). Fibroblasts-derived extracellular vesicles contain SFRP1 and mediate pulmonary fibrosis., **JCI Insight**, accepted for publication * shared last author

Melo-Narváez, M.C.; Bramey, N.; See, F.; Heinzelmann, K.; Ballester, B.; Steinchen, C.; Jain, E.; Federl, K.; Hu, Q.; Dhakad, D. Behr, J., Eickelberg, O., Yildirim, A.Ö., Königshoff, M., ***Lehmann, M***, Stimuli-Specific Senescence of Primary Human Lung Fibroblasts Modulates Alveolar Stem Cell Function**. Cells** (2024), 13*,* 1129

Kapellos, T., Conlon, T., Yildirim, AÖ., ***Lehmann M.,*** (2023) The impact of the immune system on lung injury and regeneration in COPD, **European Respiratory Journal**, 62, 4

Lang,N.* Gote-Schniering, J.*, Porras-Gonzalez, D., Yang, L., De Sadeleer, L., Jentzsch, C.R., Shitov, V.A., Zhou, S., Ansari, M., Agami, A., Mayr, C., Kashani, B.H., Chen, Y., Heumos, L., Pestoni, J.C., Monar, E.S.Geeraerts, E., Anquetil, V., Saniere, L., Wögrath, M., Gerckens, M., ***Lehmann, M***., Yildirim A.Ö., Hatz, R., Kneidinger, N., Behr, J., Wuyts, W.A., Stoleriu, G.M.,Luecken, M.D., Theis, F.J., Burgstaller, G*., Schiller,H*., Ex vivo tissue perturbations coupled to single cell RNA-seq reveal multi-lineage cell circuit dynamics in human lung fibrogenesis, **Science Translational Medicine**, (2023), **15**, eadh0908 *equal contribution,

Heinzelmann, K., Hu, QJ., Dobrinskikh, E., Ulke, H., Ansari, M., Leavitt, C., Mirita, C., Trudeau., T., Saal, M., Rice, P., Gao, B., Janssen, W., Yang, I., Schiller, H., Vladar, E., ***Lehmann, M****., Königshoff, M.,*, Single cell RNA Sequencing Identifies G-protein Coupled Receptor 87 as a Novel Basal Cell Marker of Distal Honeycomb Cysts in Idiopathic Pulmonary Fibrosis, **European Respiratory Journal,** * equal contribution, co-corresponding authors, 2022: 59(6).

Conlon, T.M.*, John-Schuster*, G , Heide, D., Pfister, D., ***Lehmann, M.***, Hu, Y., Ertüz Z., Lopez, M., Ansari, M., Strunz, M., Mayr, C., Ciminieri, C., Costa, R., Kohlhepp, M.S., Guillot, A., Günsel, G., Jeridi, A., Funk, M.C., Beroshvili, G., Prokosch, S., Hetzer, J., Verleden, S.E., Alsafadi, H., Lindner, M., Burgstaller , Lore Becker, G., Irmler, M., Dudek, M., Janzen, J., Goffin, E., Gosens, R., Knolle, P., Pirotte, B., Stöger, T., Beckers, J., Wagner, D.E., Singh, I., Theis, F.J., Hrabe de Angelis, M., O´Connor, T., Tacke, F., Boutros, M., Dejardin, E., Eickelberg, O., Schiller, H., Königshoff, M., Heikenwalder, M., Yildirim, AÖ. Inhibition of LTβR-signalling blocks epithelial apoptosis and activates endogenous Wnt-induced regeneration. (2020) **Nature**; 588(7836):151-156. *these authors contributed equally.

Strunz,M., Simon, L.M., Ansari, M., Mattner, L.F., Angelidis, I., Mayr, C.H., Kathiriya, J., Yee, M., Ogar, P., Sengupta, A., Kukhtevich, I., Schneider, R., Zhao, Z., Neumann, J.H.L, Behr, J., Voss, C., Stöger,T., ***Lehmann, M***., Königshoff, M., Burgstaller, G., O'Reilly, M., Chapman, H.A., Theis, F J., Schiller, H.B. (2020) Alveolar regeneration through a Krt8+ transitional stem cell state that persists in human lung fibrosis, **Nature Communication**s, 11 (1), 3559

Lehmann, M*., Hu, Q., Hafner, K., Costa, R., van den Berg, A., Königshoff, M*, (2020) WNT/β-catenin signaling induces cellular senescence in lung alveolar epithelial cells, **Cellular Signaling**, *70*. 109588*co-corresponding author

Lehmann M., Buhl L, Alsafadi H.N., Klee S., Hermann S., Mutze K., Ota C., Lindner M., Behr J., Hilgendorff A., Wagner D.E., Königshoff M. (2018) Differential effects of Nintedanib and Pirfenidone on lung alveolar epithelial cell function in ex vivo murine and human lung tissue cultures of pulmonary fibrosis. **Respiratory Research** 19:175.

Lehmann, M., Korfei, M., Mutze, K., Klee, S., Skronska-Wasek, W., Alsafadi, H.N., Ota, C., Costa, R., Schiller, H.B., Lindner, M.Wagner, D.E:, Günther, A., Königshoff, M. (2017). Senolytic drugs target alveolar epithelial cell function and attenuate experimental lung fibrosis ex vivo. **The European Respiratory Journal** *50*: 1602367.