

## Curriculum Vitae

**Herbert Schiller** Professor, Dr.  
d.o.b. October 25th, 1977, in Wels, Austria

### University Education

2004-2008 Doctoral thesis in Molecular Immunology, Medical University of Vienna  
2004 Master of Science in Biology and Genetics, University of Vienna

### Scientific Career

Since 2024 Director, Research Unit for Precision Regenerative Medicine (PRM), Helmholtz Munich  
Since 2023 Professor for Systems Biology of the Airways and Lungs, Medical Faculty of Ludwig Maximilian University (LMU), Munich  
Since 2021 Adjunct faculty Institute of Lung Health, Giessen  
Since 2021 Coordinator of Single Cell Analysis Working group of German Center for Lung Research (DZL)  
2020-2023 Deputy Director, Institute of Lung Health and Immunity (LHI), Helmholtz Munich  
Since 2018 Member of the Single Cell Omics Germany (SCOG) network  
Since 2017 Member of the Human Cell Atlas (HCA) initiative  
2015-2020 Group Leader (tenure track), Helmholtz Munich  
2009-2015 Postdoctoral Scientist, Max Planck Institute of Biochemistry

### Awards and Honors

2018 Research prize of the German Respiratory Society (DGP) for the best publication in respiratory research  
2015 Helmholtz Young Investigator group award with tenure track  
2014 Dick Heinegard European Young Investigator Award for Matrix Biology  
2009-2011 EMBO long term fellowship

### Citation Record

Total citations: 14,094; h-index:43; h-index since 2019: 38 (Google Scholar September 26<sup>th</sup>, 2024)

### Top-10 selected Publications

Mayr CH, Sengupta A, Asgharpour S, Ansari M, Pestoni JC, Ogar P, Angelidis I, Lontos A, Rodriguez-Castillo JA, Lang NJ, Strunz M, Porras-Gonzalez D, Gerckens M, De Sadeleer LJ, Oehrle B, Viteri-Alvarez V, Fernandez IE, Tallquist M, Irmeler M, Beckers J, Eickelberg O, Stoleriu GM, Behr J, Kneidinger N, Wuyts WA, Wasnick RM, Yildirim AÖ, Ahlbrecht K, Morty RE, Samakovlis C, Theis FJ, Burgstaller G, **Schiller HB**. Sfrp1 inhibits lung fibroblast invasion during transition to injury-induced myofibroblasts. **Eur Respir J**. 2024 Feb 8;63(2):2301326. doi: 10.1183/13993003.01326-2023.

Lang NJ, Gote-Schniering J, Porras-Gonzalez D, Yang L, De Sadeleer LJ, Jentsch RC, Shitov VA, Zhou S, Ansari M, Agami A, Mayr CH, Hooshiar Kashani B, Chen Y, Heumos L, Pestoni JC, Molnar ES, Geeraerts E, Anquetil V, Saniere L, Wögrath M, Gerckens M, Lehmann M, Yildirim AÖ, Hatz R, Kneidinger N, Behr J, Wuyts WA, Stoleriu MG, Luecken MD, Theis FJ, Burgstaller G, **Schiller HB**. Ex vivo tissue perturbations coupled to single-cell RNA-seq reveal multilineage cell circuit dynamics in human lung fibrogenesis. **Sci Transl Med**. 2023 Dec 6;15(725):eadh0908. doi: 10.1126/scitranslmed.adh0908.

Leuschner G, Semenova A, Mayr CH, Kapellos TS, Ansari M, Seeliger B, Frankenberger M, Kneidinger N, Hatz RA, Hilgendorff A, Prasse A, Behr J, Mann M, **Schiller HB**. Mass spectrometry-based autoimmune profiling reveals predictive autoantigens in idiopathic pulmonary fibrosis. **iScience**. 2023 Oct 27;26(11):108345. doi: 10.1016/j.isci.2023.108345.

Heumos L, Schaar AC, Lance C, Litinetskaya A, Drost F, Zappia L, Lücken MD, Strobl DC, Henao J, Curion F; Single-cell Best Practices Consortium; **Schiller HB**, Theis FJ. Best practices for single-cell analysis across modalities. **Nat Rev Genet**. 2023 Aug;24(8):550-572. doi: 10.1038/s41576-023-00586-w.

Fischer DS, Ansari M, Wagner KI, Jarosch S, Huang Y, Mayr CH, Strunz M, Lang NJ, D'Ippolito E, Hammel M, Mateyka L, Weber S, Wolff LS, Witter K, Fernandez IE, Leuschner G, Milger K, Frankenberger M, Nowak L, Heinig-Menhard K, Koch I, Stoleriu MG, Hilgendorff A, Behr J, Pichlmair A, Schubert B, Theis FJ, Busch DH, **Schiller HB**, Schober K. Single-cell RNA sequencing reveals ex vivo signatures of SARS-CoV-2-reactive T cells through 'reverse phenotyping'. **Nat Commun**. 2021 Jul 26;12(1):4515. doi: 10.1038/s41467-021-24730-4.

Mayr CH, Simon LM, Leuschner G, Ansari M, Schniering J, Geyer PE, Angelidis I, Strunz M, Singh P, Kneidinger N, Reichenberger F, Silbernagel E, Böhm S, Adler H, Lindner M, Maurer B, Hilgendorff A, Prasse A, Behr J, Mann M, Eickelberg O, Theis FJ, **Schiller HB**. Integrative analysis of cell state changes in lung fibrosis with peripheral protein biomarkers. **EMBO Mol Med**. 2021 Apr 9;13(4):e12871. doi: 10.15252/emmm.202012871.

Strunz M, Simon LM, Ansari M, Kathiriya JJ, Angelidis I, Mayr CH, Tsidiridis G, Lange M, Mattner LF, Yee M, Ogar P, Sengupta A, Kukhtevich I, Schneider R, Zhao Z, Voss C, Stoeger T, Neumann JHL, Hilgendorff A, Behr J, O'Reilly M, Lehmann M, Burgstaller G, Königshoff M, Chapman HA, Theis FJ, **Schiller HB**. Alveolar regeneration through a Krt8+ transitional stem cell state that persists in human lung fibrosis. **Nat Commun**. 2020 Jul 16;11(1):3559. doi: 10.1038/s41467-020-17358-3.

Angelidis I, Simon LM, Fernandez IE, Strunz M, Mayr CH, Greiffo FR, Tsitsiridis G, Ansari M, Graf E, Strom TM, Nagendran M, Desai T, Eickelberg O, Mann M, Theis FJ, **Schiller HB**. An atlas of the aging lung mapped by single cell transcriptomics and deep tissue proteomics. **Nat Commun**. 2019 Feb 27;10(1):963. doi: 10.1038/s41467-019-08831-9.

**Schiller HB**, Fernandez IE, Burgstaller G, Schaab C, Scheltema RA, Schwarzmayr T, Strom TM, Eickelberg O, Mann M. Time- and compartment-resolved proteome profiling of the extracellular niche in lung injury and repair. **Mol Syst Biol**. 2015 Jul 14;11(7):819. doi: 10.15252/msb.20156123.

**Schiller HB**, Hermann MR, Polleux J, Vignaud T, Zanivan S, Friedel CC, Sun Z, Raducanu A, Gottschalk KE, Théry M, Mann M, Fässler R.  $\beta$ 1- and  $\alpha$ v-class integrins cooperate to regulate myosin II during rigidity sensing of fibronectin-based microenvironments. **Nat Cell Biol**. 2013 Jun;15(6):625-36. doi: 10.1038/ncb2747.