

## *Curriculum Vitae*

**Carola Voss** Dr. rer. nat.  
d.o.b. October 1<sup>st</sup>, 1984, Cham, Germany

### **University Education**

2015 Dr. rer. nat. University of Fribourg, Switzerland  
2004–2009 Diploma Biology, KIT and University of Leipzig Germany

### **Scientific Career**

Since 2024 Emmy Noether Group Leader „OrganoidTox“. Hanover Medical School (MHH), Hannover, Germany  
2020 - 2024 Project leader. Lung organoids, disease modelling and cellular crosstalk; Institute of Lung Health and Immunity (LHI), Helmholtz Munich, Germany.  
2017 – 2020 Postdoctoral Researcher. EU Project H2020 SmartNanoTox, Institute of Lung Health and Immunity (LHI), Helmholtz Munich, Germany. Dynamics of Pulmonary Inflammation, Mechanism of Neonatal Chronic Lung Disease  
2016-2017 Postdoctoral Researcher. Human iPSC-derived models for rare neurological diseases; Australian Institute for Bioengineering and Nanotechnology (AIBN), University of Queensland, Brisbane, Australia.  
2011-2015 Researcher. Nanofiber hazard assessment in vitro; Adolphe Merkle Institute, University of Fribourg, Switzerland.  
2010 Technical lead. Field studies for arsenic contamination in drinking water (ARSOLux); Department of Environmental Microbiology, Helmholtz Centre for Environmental Research, Leipzig, Germany/ Bangladesh.

### **Citation Record**

*Total citations: 2574; h-index:20; (Google Scholar April 2026)*

## Top-10 selected Publications (name change from Endes to Voss in 2017)

Voss, C.\*, Han, L.\*, Ansari, M., Strunz, M., Haefner, V., Angelidis, I., Mayr, C.H., Berthing, T., Zhou, Q., Guenther, E.M., Huzain, O., Schmid, O., Vogel, O., Gote-Schniering, J., Gaedcke, S., Theis, F.J., Schiller, H.B.\*, Stoeger, T.\* Toward a ToxAtlas of Carbon-Based Nanomaterials: Single-Cell RNA Sequencing Reveals Initiating Cell Circuits in Pulmonary Inflammation. *ACS Nano*. ACS Nano 2025, 19, 45, 39139–39156. doi.org/10.1021/acsnano.5c12054.

Stoleriu MG, Ansari M, Strunz M, Schamberger A, Heydarian M, Ding Y, Voss C, Schneider JJ, Gerckens M, Burgstaller G, Castelblanco A, Kauke T, Fertmann J, Schneider C, Behr J, Lindner M, Stacher-Priehse E, Irmeler M, Beckers J, Eickelberg O, Schubert B, Hauck SM, Schmid O, Hatz RA, Stoeger T, Schiller HB, Hilgendorff A. COPD basal cells are primed towards secretory to multiciliated cell imbalance driving increased resilience to environmental stressors. *Thorax*. 2024 Feb 5:thorax-2022-219958.

Kastlmeier, M.T., Gonzalez Rodriguez, E., Cabanis, P., Guenther, E.M., Koenig, A., Han, L., Hauck, S., See, F., Asgharpour, S., Bukas, C., Burgstaller, G., Piraud, M., Lehmann, M., Hatz, R., Behr, J., Stoeger, T., Hilgendorff, A., Voss, C. Cytokine signaling converging on IL11 in ILD fibroblasts provokes aberrant epithelial differentiation signatures. *Frontiers of Immunology* 2023, Vol. 14. 10.3389/fimmu.2023.1128239.

Eberherr, A., Maaske, C., Wolf, C., Giesert, F., Berutti, R., Rusha, E., Pertek, A., Kastlmeier, M., Voss, C., Plummer, M., Sayed, A., Graf, E., Effner, R., Volz, T., Drukker, M., Strom, T., Meitinger, T., Stoeger, T., Buyx, A., Hagl, B. and Renner, E. Rescue of STAT3 Function in Hyper-IgE Syndrome Using Adenine Base Editing. *The CRISPR Journal* Volume 4, Number 2, 2021.

Kokot, H., Kokot, B., Sebastijanović, A., Voss, C., Podlipec, R., Zawilska, P., Berthing, T., López, C. B., Danielsen, P. H., Contini, C., Ivanov, M., Krišelj, A., Čotar, P., Zhou, Q., Ponti, J., Zhernovkov, V., Schneemilch, M., Doumandji, Z., Pušnik, M., Umek, P., Pajk, S., Joubert, O., Schmid, O., Urbančič, I., Irmeler, M., Beckers, J., Lobaskin, V., Halappanavar, S., Quirke, N., Lyubartsev, A. P., Vogel, U., Koklič, T., Stoeger, T., Štrancar, J., Prediction of Chronic Inflammation for Inhaled Particles: the Impact of Material Cycling and Quarantining in the Lung Epithelium. *Adv. Mater.* 2020, 2003913.

Strunz, M., Simon, L.M., Ansari, M., Kathiriya, J., Angelidis, I., Mayr, C.H., Tsidiris, G., Lange, M., Mattner, L.F., Yee, M., Ogar, P., Sengupta, A., Kukhtevich, I., Schneider, R., Zhao, Z., Voss, C., Stöger, T., Neumann, J.H.L., Hilgendorff, A., Behr, J., O'Reilly, M., Lehmann, M., Burgstaller, G., Königshoff, 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 Communications*, 11 (1), 3559.

Fröhlich, D., Suchowerska, A. K., Voss, C., He, R., Wolvetang, E., von Jonquieres, G., Simons, C., Fath, T., Housley, G. D., Klugmann, M. (2018) Expression pattern of the aspartyl-tRNA synthetase DARS in the human brain. *Journal of Frontiers in Molecular Neuroscience*. Volume 11, Article 81.

Stoehr, L.\*, Endes, C.\*, Radauer-Preiml, I., Boyles, M., Casals, E., Balog, S., Pesch, M., Petri-Fink, A., Rothen-Rutishauser, B., Himly, M., Clift, M. J. D. and Duschl, A. (2015); Assessment of a panel of interleukin-8 reporter lung epithelial cell lines to monitor the pro-inflammatory response following zinc oxide nanoparticle exposure under different cell culture conditions. *Particle and Fibre Toxicology* 12:29.

Endes, C., Schmid, O., Kinnear, C., Mueller, S., Camarero-Espinosa, S., Vanhecke, D., Foster, E. J., Petri-Fink, A., Rothen-Rutishauser, B., Weder, C. and Clift, M. J. D. (2014); An in vitro testing strategy towards mimicking the inhalation of high aspect ratio nanoparticles. *Particle and Fibre Toxicology*. 11:40.

Kinnear, C., Dietsch, H., Clift, M. J. D., Endes, C., Rothen-Rutishauser, B. and Petri-Fink, A. (2013); Gold nanorods: Controlling their surface chemistry and complete detoxification by a two-step place exchange; *Angewandte Chemie International Edition*; 52; pp. 1934-1938.