

## Curriculum Vitae

**Stefan Karrasch** Priv.-Doz. Dr. med.  
d.o.b. January 02nd, 1978, in Hamburg, Germany

### Education and Degrees

2020 Habilitation Experimental Occupational and Environmental Medicine, Ludwig-Maximilians-Universität München  
2007 MD Thesis, Ludwig-Maximilians-Universität München, Institute and Clinic for Occupational, Social and Environmental Medicine  
2009 Certificate FELASA (Federation of Laboratory Animal Science Associations) category C  
1998–2006 Studies of human medicine, Bayerische Julius-Maximilians-Universität Würzburg and Ludwig-Maximilians-Universität München, Approbation

### Positions and Employment

since 2022 Teaching at the Faculty of Medicine of the University of Augsburg  
(Human medicine clinical part)  
since 2021 Coordinator of the DZL Disease-spanning Working Group Lung Environment Interaction  
since 2019 Teaching at the Faculty of Medicine of the Technical University of Munich  
(Human medicine clinical part)  
since 2019 Research and specialty training in Occupational Medicine at the LMU University Hospital, Ludwig-Maximilians-Universität München  
since 2014 Research at the Institute of Epidemiology, Helmholtz Munich  
2013–2014 Research at the Institute of General Practice, University Hospital Klinikum rechts der Isar, Technische Universität München  
since 2012 Teaching at the Faculty of Medicine of the Ludwig-Maximilians-Universität München  
(Human medicine clinical part, Public Health, Epidemiology)  
2009–2014 Research at the Institute and Outpatient Clinic for Occupational, Social and Environmental Medicine, Ludwig-Maximilians-Universität München  
2007–2009 Research at the Institute of Lung Biology and Disease, Helmholtz Munich

Responsible supervisor for respiratory assessments in the German National Cohort (NAKO) and KORA  
Principal Investigator in the German Center for Lung Research (DZL)  
Speaker of the German National Cohort Expert Group “Respiratory Diseases”  
Member of the German Society for Occupational and Environmental Medicine (DGAUM) and the European Respiratory Society (ERS)  
PI and Co-PI of several ongoing projects on environmental and occupational respiratory health funded by DFG, DZL and the State of Bavaria

### Awards and Honors

2023 Innovation Award, German Society for Occupational and Environmental Medicine (DGAUM)  
2017 Research Award for outstanding work in the field of clinical-therapeutic research, German Respiratory Society (DGP)  
1996/97 Advancement Award of the City of Norderstedt and Annual Award of the Rotary Club Norderstedt

### Citation Record

Total citations: 7,695; h-index: 41; h-index since 2021: 33 (Google Scholar March 31<sup>st</sup>, 2026)

## 10 selected Publications

Folwarczny E, Forster F, Jörres RA, Rakete S, Ye S, Wenig M, Gawlitta N, Schnelle-Kreis J, Winterhalter R, Müller A, Nowak D, **Karrasch S** (2025). Acute health effects of ambient air pollution including ultrafine particles in a semi-experimental setting in young, healthy individuals. *Part Fibre Toxicol* 22(1): 14. doi: 10.1186/s12989-025-00628-7

**Karrasch S**, Linde K, Rücker G, Sommer H, Karsch-Völk M, Kleijnen J, Jörres RA, Schneider A (2017). Accuracy of FENO for diagnosing asthma: a systematic review. *Thorax* 72(2): 109-116. doi: 10.1136/thoraxjnl-2016-208704

**Karrasch S**, Peters A, Meisinger C, Ferland M, Jaeschke L, Pischon T, ..., Leitzmann M, Brenner H, Holleczeck B, Schulz H (2020). Lung function in the German National Cohort: methods and initial results. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 63(3): 322-331. doi: 10.1007/s00103-020-03102-1

Shrine N, Izquierdo AG, Chen J, Packer R, ..., Gharib SA, Flexeder C, **Karrasch S**, Gieger C, Peters A, Stubbe B, Hu X, ..., Silverman EK, Strachan DP, Walters RG, Morris AP, London SJ, Cho MH, Wain LV, Hall IP und Tobin MD (2023). Multi-ancestry genome-wide association analyses improve resolution of genes and pathways influencing lung function and chronic obstructive pulmonary disease risk. *Nat Genet* 55(3): 410–422. doi: 10.1038/s41588-023-01314-0

Abdo M, Trinkmann F, Ewert R, Obst A, Völzke H, Flexeder C, Heier M, Peters A, Herth F, Watz H, Rabe KF, Stubbe B, **Karrasch S** (2025). High Oscillometry-derived Airway Resistance Is Associated with FEV1 Decline and Future Abnormal Spirometry in Smokers with Initially Normal Spirometry. *Am J Respir Crit Care Med* 211(11): 2142–2145. doi: 10.1164/rccm.202507-1645RL

Schulz H, **Karrasch S**, Bölke G, Cyrys J, Hornberg C, Pickford R, Schneider A, Witt C, Hoffmann B (2019). Breathing: Ambient Air Pollution and Health. Parts I, II and III. *Pneumologie* 73(5):288-305; 73(6):347-373; 73(7):407-429. doi: 10.1055/a-0882-9366; 10.1055/a-0895-6494; 10.1055/a-0920-6423

**Karrasch S**, Simon M, Herbig B, Langner J, Seeger S, Kronseder A, Peters S, Dietrich-Gümperlein G, Schierl R, Nowak D, Jörres RA (2017). Health effects of laser printer emissions: a controlled exposure study. *Indoor Air* 27(4): 753-765. doi: 10.1111/ina.12366

Albrecht E\*, Sillanpää E\*, **Karrasch S\***, Alves AC\*, Codd V, Hovatta I, Buxton JL, Nelson CP, Broer L, Hagg S, Mangino M, Willemsen G, Surakka I, Ferreira MA, ..., van Duijn CM, Kaprio J, Samani NJ, Jarvelin MR\*, Schulz H\* (2014). Telomere length in circulating leukocytes is associated with lung function and disease. *Eur Respir J* 43(4): 983-992. doi: 10.1183/09031936.00046213

**Karrasch S**, Holz O, Jörres RA (2008). Aging and induced senescence as factors in the pathogenesis of lung emphysema. *Respir Med* 102(9): 1215-1230. doi: 10.1016/j.rmed.2008.04.013

Breen M, Nwanaji-Enwerem JC, **Karrasch S**, Flexeder C, ..., Vokonas P, Sparrow D, Hou L, Schwartz JD, Baccarelli AA, Peters A, Ward-Caviness CK (2020). Accelerated epigenetic aging as a risk factor for chronic obstructive pulmonary disease and decreased lung function in two prospective cohort studies. *Aging (Albany NY)* 12(16): 16539-16554. doi: 10.18632/aging.103784