

Curriculum Vitae

Lavinia Neubert Dr. med.
d.o.b. March 30th, 1987 in Duderstadt, Germany

University Education

2014 Doctorate Medicine, Medizinische Hochschule Hannover (MHH), Germany
2006-2013 Studies of Medicine, MHH

Scientific Career

since 2023 Principle Investigator, German Center for Lung Research (DZL, DA ROR)
DZL Academy Fellow Coordinator and scientific coordinator DA ROR
Member of nNGM at MHH site (Nationales Netzwerk Genomische Medizin Lungenkrebs)

since 2022 shared head, WG Lung Research, Institute of Pathology, MHH
consultant, Institute of Pathology, MHH

2013-2022 internship and residency, Institute of Pathology, MHH

since 2009 founding member of WG Lung Research, Institute of Pathology, MHH

Awards and Honors

2025 Ellen-Schmidt-Program (MHH)
2024 Ina-Pichelmayr-Mentoring (MHH)
2016 3. Nachwuchsakademie Johannisberg Deutsche Gesellschaft für Pathologie
2015 Promotionspreis Deutsche Gesellschaft für Pathologie
Promotionspreis Deutsche Lungenstiftung
2009 Stipendiat "StrucMed- strukturierte Doktorarbeit" Hannover Biomedical Research School

Top-10 selected Publications

Christian L, Yilmaz H, Ruwisch J, Giercke L, Seeliger B, Kamp JC, Bayraktar S, Ewen R, Graalmann T, Fuge J, Greer M, Ius F, Welte T, Liao SY, Yang IV, Hohlfeld JM, Hoepfer MM, Gottlieb J, Kaminski N, Prasse A, Jonigk D, Li Y, Falk C, Neubert L, Schupp JC. Spatial Transcriptomics Uncovers Hybrid, Pro-Inflammatory and Pro-Fibrotic Cellular Niches in Pulmonary Granuloma of Patients with Chronic Sarcoidosis. *Am J Respir Crit Care Med*. 2026 Jan 23:aamaf089. doi: 10.1093/ajrccm/aamaf089. Epub ahead of print. PMID: 41738160.

Benke CV, Reiser J, D'Amico L, Sagar MMR, Sodini N, Dreossi D, Contillo A, Longo E, Prašek M, Stern S, Baratella E, Cova MA, Confalonieri M, Confalonieri P, Zanconati F, D'Errico S, Radaelli D, Brusca T, Bonazza D, Bayat S, Nolte P, Neubert L, Petzold-Mügge C, Werlein C, Knudsen L, Shin HO, Kamp JC, Hosseini ASA, Wagner WL, Wielpütz MO, Biederer J, Kauczor HU, Alves F, Tromba G, Dullin C. Ultra-high-resolution synchrotron phase-contrast CT enables microstructural pulmonary imaging at clinical dose levels. *Respir Res*. 2026 Feb 11;27(1):105. doi: 10.1186/s12931-026-03561-1. PMID: 41673865; PMCID: PMC12958687.

Schröder LJ, Rückoldt J, Schubert S, Knudsen L, Janciauskiene SM, Werlein C, Knoll M, Engelhardt R, Petzold-Mügge C, Schupp JC, Hoepfer MM, Gottlieb J, Ius F, Zardo P, Lindenberg M, Riehle C, Neubert L, Kamp JC. Optimized culture of primary human alveolar type II cell-derived 3D organoids from fibrotic lung tissue with phenotypic and metabolic profiling. *Respir Res*. 2026 Mar 7. doi: 10.1186/s12931-026-03610-9. Epub ahead of print. PMID: 41792753.

Huisinga C, Shin HO, Vogel-Claussen J, Kamp JC, Neubert L, Hoepfer MM, Olsson KM. Photon-counting Computed Tomography in a Patient with Pulmonary Veno-Occlusive Disease. *Am J Respir Crit Care Med*. 2025 Dec;211(12):2393-2395. doi: 10.1164/rccm.202411-2184IM. PMID: 40811774.

Mayr CH, Santacruz D, Jarosch S, Bleck M, Dalton J, McNabola A, Lempp C, Neubert L, Rath B, Kamp JC, Jonigk D, Kühnel M, Schlüter H, Klimowicz A, Doerr J, Dick A, Ramirez F, Thomas MJ. Spatial transcriptomic characterization of pathologic niches in IPF. *Sci Adv.* 2024 Aug 9;10(32):eadl5473. doi: 10.1126/sciadv.adl5473. Epub 2024 Aug 9. PMID: 39121212; PMCID: PMC11313858.

Jeremiasen I, Peruzzi N, Lampei E, Meyer S, Akyürek LM, Gebre-Medhin E, Mutgan C, Dorfmueller P, Neubert L, Jonigk D, Galambos C, Tran-Lundmark K. Synchrotron-Based Phase-Contrast Micro-CT Combined With Histology to Decipher Differences Between Hereditary and Sporadic Pediatric Pulmonary Venous Occlusive Disease. *Pulm Circ.* 2024 Dec 12;14(4):e70024. doi: 10.1002/pul2.70024. PMID: 39678731; PMCID: PMC11638014.

Kamp JC, Neubert L, Schupp JC, Braubach P, Wrede C, Laenger F, Salditt T, Reichmann J, Welte T, Ruhparwar A, Ius F, Schwerk N, Bergmann AK, von Hardenberg S, Griese M, Rapp C, Olsson KM, Fuge J, Park DH, Hoepfer MM, Jonigk DD, Knudsen L, Kuehnel MP. Multilamellated Basement Membranes in the Capillary Network of Alveolar Capillary Dysplasia. *Am J Pathol.* 2024 Feb;194(2):180-194. doi: 10.1016/j.ajpath.2023.10.012. Epub 2023 Nov 27. PMID: 38029923; PMCID: PMC12178336.

Olsson KM, Corte TJ, Kamp JC, Montani D, Nathan SD, Neubert L, Price LC, Kiely DG. Pulmonary hypertension associated with lung disease: new insights into pathomechanisms, diagnosis, and management. *Lancet Respir Med.* 2023 Sep;11(9):820-835. doi: 10.1016/S2213-2600(23)00259-X. Epub 2023 Aug 14. PMID: 37591300.

Kamp JC, Neubert L, Ackermann M, Stark H, Plucinski E, Shah HR, Janciauskiene S, Bergmann AK, Schmidt G, Welte T, Haverich A, Werlein C, Braubach P, Laenger F, Schwerk N, Olsson KM, Fuge J, Park DH, Schupp JC, Hoepfer MM, Kuehnel MP, Jonigk DD. A Morphomolecular Approach to Alveolar Capillary Dysplasia. *Am J Pathol.* 2022 Aug;192(8):1110-1121. doi: 10.1016/j.ajpath.2022.05.004. Epub 2022 May 29. PMID: 35649494.

Kamp JC, Neubert L, Ackermann M, Stark H, Werlein C, Fuge J, Haverich A, Tzankov A, Steinestel K, Friemann J, Boor P, Junker K, Hoepfer MM, Welte T, Laenger F, Kuehnel MP, Jonigk DD. Time-Dependent Molecular Motifs of Pulmonary Fibrogenesis in COVID-19. *Int J Mol Sci.* 2022 Jan 29;23(3):1583. doi: 10.3390/ijms23031583. PMID: 35163504; PMCID: PMC8835897.