

Curriculum Vitae

Markus Weckmann Professor, Dr. rer. nat. / Dipl.-Ing. (FH)
d.o.b. January 07, 1978, Munich, Germany

University Education

2022 Habilitation 'Experimental Pneumology', University of Lübeck
2008 PhD, Children's Hospital Freiburg, Max-Planck-Institute for Immuno-Biology and University of Freiburg, Germany
1998 – 2003 Study of Biotechnology, University of Applied Science Weihenstephan, Freising, Germany

Scientific Career

Since 2025: Chair elect Programming Committee, Respiratory Structure and Function Assembly, American Thoracic Society
Since 2025: Full Member, Excellence Cluster 'Precision Medicine in Inflammation'
Since 2025: Speaker, Focus Area 'Trained Immunity', Research Center Borstel
2023–Present: Executive Board Member, Respiratory Structure and Function Assembly, American Thoracic Society
2024 Basic Science Core Representative of Respiratory Structure and Function Assembly, American Thoracic Society
Since 2022 Joint Professorship for Epigenetics in Pneumology (W2), between the University of Lübeck and the Leibniz Lung Research Center Borstel
Since 2019 Member of the Planning Committee of the Respiratory Structure and Function Assembly, American Thoracic Society
2018 - 2023 Chairman elect of the working group "Experimental Pneumology" at the Society for Pediatric Pneumology
2015 - 2018 Speaker of the Junior Research Cluster "Chrono-inflammation – circadian gating of neutrophil inflammation" (University of Lübeck)
Since 2015 Deputy Head of Research, Department of Pediatric Pneumology and Allergology, University Children's Hospital Lübeck, Germany
Since 2014 Principal Investigator in the German Center for Lung Research
2010 – 2015 Post-Doctoral Fellow, University Children's Hospital Lübeck, Germany
2007 – 2010 Post-Doctoral Fellow, CRC for Asthma and Airways, University of Sydney, Australia

Awards and Honours

2020 Johannes Wenner Award (German lung foundation & Society of Pediatric Pneumology)
2019 Best Scientific Poster Award (Disease Area Asthma, German Center for Lung Research)
2010 LAM Foundation Travel Award (American Thoracic Society)
2005 Hoffmann – La Roche Foundation Travel Award

Citation Record

Total citations: 2125; h-index 26; since 2021: 22 (Google Scholar March 16th, 2026)

Top-10 selected Publications

Reddy KD, Maluje Y, Ott F, Saurabh R, Schaaf A, Bohnhorst A, Biedermann SB, Pierstorff J, Winkelmann S, Voß B, Laudien M, Bahmer T, Heyckendorf J, Brinkmann F, Schreiber S, Lieb W, Jakwerth CA, Schmidt-Weber CB, Hansen G, von Mutius E, Rabe KF, Dittrich AM, Maison N, Schaub B, Kopp MV, Busch H, **Weckmann M**, Fähnrich A; ALLIANCE Study Group as part of the German Centre for Lung Research (DZL). scRNA-seq reveals persistent aberrant differentiation of nasal epithelium driven by TNF α and TGF β in post-COVID syndrome. *Nat Commun.* 2025 Oct 28;16(1):9494. doi: 10.1038/s41467-025-64778-0. PMID: 41152229; PMCID: PMC12569062.

Jakwerth CA, **Weckmann M**, Illi S, Charles H, Zissler UM, Oelsner M, Guerth F, Omony J, Nemani SSP, Grychtol R, Dittrich AM, Skevaki C, Foth S, Weber S, Alejandre Alcazar MA, van Koningsbruggen-Rietschel S, Brock R, Blau S, Hansen G, Bahmer T, Rabe KF, Brinkmann F, Kopp MV, Chaker AM, Schaub B, von Mutius E, Schmidt-Weber CB; ALLIANCE Study Group as part of the German Center for Lung Research. 17q21 Variants Disturb Mucosal Host Defense in Childhood Asthma. **Am J Respir Crit Care Med**. 2024 Apr 15;209(8):947-959. doi: 10.1164/rccm.202305-0934OC.

Nissen G, Hinsenbrock S, Rausch TK, Stichtenoth G, Ricklefs I, **Weckmann M**, Franke A, Herting E, König IR, Kopp MV, Rabe KF, Göpel W. Lung Function of Preterm Children Parsed by a Polygenic Risk Score for Adult COPD. **NEJM Evid**. 2023 Mar;2(3):EVIDoa2200279. doi: 10.1056/EVIDoa2200279. Epub 2023 Feb 24. PMID: 38320054.

Maison N, Omony J, Illi S, Thiele D, Skevaki C, Dittrich AM, Bahmer T, Rabe KF, **Weckmann M**, Happle C, Schaub B, Meier M, Foth S, Rietschel E, Renz H, Hansen G, Kopp MV, von Mutius E, Grychtol R; ALLIANCE Study Group. T-high asthma phenotypes across life span. **Eur Respir J**. 2022 Feb 24:2102288

Weckmann M, Bahmer T, Bülow Sand JM, Rank Rønnow S, Pech M, Vermeulen C, et al. COL4A3 is degraded in allergic asthma and degradation predicts response to anti-IgE therapy. **Eur Respir J**. European Respiratory Society; 2021 Jul 29.

Holz O, Waschki B, Watz H, Kirsten A, Abdo M, Pedersen F, **Weckmann M**, et al. Breath volatile organic compounds and inflammatory markers in adult asthma patients - negative results from the ALLIANCE cohort. **Eur Respir J**. European Respiratory Society; 2020 Oct 2;:2002127.

Vermeulen CJ, Xu C-J, Vonk JM, Hacken Ten NHT, Timens W, Heijink IH, ... **Weckmann M** et al. Differential DNA methylation in bronchial biopsies between persistent asthma and asthma in remission. **Eur Respir J**. European Respiratory Society; 2019 Nov 14;:1901280.

Faiz A, **Weckmann M**, Tasena H, Vermeulen CJ, Van den Berge M, Hacken Ten NHT, et al. Profiling of healthy and asthmatic airway smooth muscle cells following interleukin-1 β treatment: a novel role for CCL20 in chronic mucus hypersecretion. **Eur Respir J**. European Respiratory Society; 2018 Aug;52(2):1800310.

Burgess JK, Boustany S, Moir LM, **Weckmann M**, Lau JY, Grafton K, et al. Reduction of tumstatin in asthmatic airways contributes to angiogenesis, inflammation, and hyperresponsiveness. **Am J Respir Crit Care Med**. 2010 Jan 15;181(2):106–15.

Weckmann M, Collison A, Simpson JL, Kopp MV, Wark PAB, Smyth MJ, et al. Critical link between TRAIL and CCL20 for the activation of TH2 cells and the expression of allergic airway disease. **Nat Med**. 2007 Nov;13(11):1308–15.