

Curriculum Vitae

Sebastian Marwitz PD, Dr.rer.nat.

University Education

2024 Habilitation Molecular Medicine, University of Lübeck
2014 PhD, University of Lübeck
2008-2010 Master of Science (Biology), Christian-Albrechts-University of Kiel
2006-2008 Bachelor of Science (Biology), Hamburg University

Scientific Career

Since 2023 Deputy Group Leader, Histology Core Unit, Research Center Borstel – Leibniz Lung Center, Germany
Since 2021 Principal Investigator, German Center for Lung Research
Since 2020 Principal Investigator, Airway Research Center North (ARCN)
2018-2019 Independent Fellow, Laboratory of Molecular and Tumor Immunology, Earle A Chiles Research Institute, Portland, Oregon, USA
Since 2014 Postdoctoral Scientist, Research Center Borstel – Leibniz Lung Center, Germany
2011-2014 PhD student, Research Center Borstel – Leibniz Lung Center, Germany

Awards and Honors

2022 Innovation in Cancer (InCa) Award, Novartis
2022 Award for best clinical research, German Society for Respiratory Medicine

Citation Record

Total citations: 843; h-index:17

Selected Publications

Brandenburg J, **Marwitz S**, Tazoll SC, Waldow F, Kalsdorf B, Vierbuchen T, Scholzen T, Gross A, Goldenbaum S, Hölscher A, Hein M, Linnemann L, Reimann M, Kispert A, Leitges M, Rupp J, Lange C, Niemann S, Behrends J, Goldmann T, Heine H, Schaible UE, Hölscher C, Schwudke D, Reiling N (2021) WNT6/ACC2-induced storage of triacylglycerols in macrophages is exploited by Mycobacterium tuberculosis. J Clin Invest 131(16) e141833, [10.1172/JCI141833](https://doi.org/10.1172/JCI141833)

Heyckendorf J, **Marwitz S**, Reimann M, Avsar K, DiNardo A, Günther G, Hoelscher M, Ibraim E, Kalsdorf B, Kaufmann SHE, Kontsevaya I, van Leth F, Mandalakas AM, Maurer FP, Müller M, Nitschkowski D, Olaru ID, Popa C, Rachow A, Rolling T, Rybniker J, Salzer HJF, Sanchez-Carballo P, Schuhmann M, Schaub D, Spinu V, Suarez I, Terhalle E, Unnewehr M, Weiner J 3rd, Goldmann T, Lange C (2021) Prediction of anti-tuberculosis treatment duration based on a 22-gene transcriptomic model. Eur Respir J 58(3): 2003492, [10.1183/13993003.03492-2020](https://doi.org/10.1183/13993003.03492-2020)

Marwitz S, Ballesteros-Merino C, Jensen SM, Reck M, Kugler C, Perner S, Drömann D, Goldmann T, Fox BA (2021) Phosphorylation of SMAD3 in immune cells predicts survival of patients with early stage non-small cell lung cancer. J Immunother Cancer 9:e001469, [10.1136/jitc-2020-001469](https://doi.org/10.1136/jitc-2020-001469)

Marwitz S, Turkowski K, Nitschkowski D, Weigert A, Brandenburg J, Reiling N, Thomas M, Reck M, Drömann D, Seeger W, Rabe KF, Savai K, Goldmann T (2020) The Multi-Modal Effect of the Anti-fibrotic Drug Pirfenidone on NSCLC. Front Oncol 21;9:1550, [10.3389/fonc.2019.01550](https://doi.org/10.3389/fonc.2019.01550)

Goldmann T, Zissel G, Watz H, Drömann D, Reck M, Kugler C, Rabe KF, **Marwitz S** (2018) Human alveolar epithelial cells type II are capable of TGFβ-dependent epithelial-mesenchymal-transition and collagen-synthesis. Respir Res 19(1):138, [10.1186/s12931-018-0841-9](https://doi.org/10.1186/s12931-018-0841-9)

Marwitz S, Heinbockel L, Scheufele S, Kugler C, Reck M, Rabe KF, Perner S, Goldmann T, Ammerpohl O (2018) Fountain of youth for squamous cell carcinomas? On the epigenetic age of non-small cell lung cancer and corresponding tumor-free lung tissues. *Int J Cancer* 143(12):3061-3070, [10.1002/ijc.31641](https://doi.org/10.1002/ijc.31641)

Marwitz S, Scheufele S, Perner S, Reck M, Ammerpohl O, Goldmann T (2017) Epigenetic modifications of the immune-checkpoint genes CTLA4 and PDCD1 in non-small cell lung cancer results in increased expression. *Clin epigenetics* 9:51, [10.1186/s13148-017-0354-2](https://doi.org/10.1186/s13148-017-0354-2)

Marwitz S, Depner S, Dvornikov D, Merkle R, Szczygiel M, Müller-Decker K, Lucarelli P, Wäsch M, Mairböurl H, Rabe KF, Kugler C, Vollmer E, Reck M, Scheufele S, Kröger M, Ammerpohl O, Siebert R, Goldmann T, Klingmüller U (2016) Downregulation of the TGF- β pseudoreceptor BAMBI in non-small cell lung cancer enhances TGF- β signaling and invasion. *Cancer Res* 76(13):3785-801, [10.1158/0008-5472.CAN-15-1326](https://doi.org/10.1158/0008-5472.CAN-15-1326)