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Alexander Biederstädt, M.D. is a Physician-Scientist and Principal Investigator (Emmy Noether Group Leader) in the Department of Internal Medicine III (Hematology and Medical Oncology) at TUM University Hospital. His clinical work focuses on the treatment of patients with advanced hematologic malignancies, with a particular emphasis on adoptive cell therapy within the CAR-T cell therapy program.

His research program centers on the development of next-generation CAR-engineered immune cell therapies, including NK, iNKT, and $\gamma\delta$ T cells, with a clear focus on early-phase clinical translation. During his postdoctoral training in the Rezvani lab at The University of Texas MD Anderson Cancer Center, he pioneered genome-wide CRISPR screening approaches in primary human NK cells to identify actionable targets that enhance cellular fitness and antitumor activity.

Building on this foundation, his group integrates CRISPR-based discovery, precision gene editing, and synthetic biology to design multi-engineered immune cell therapies. These programs are advanced through clinically relevant preclinical models and positioned for translation into phase 1 clinical trials, supported by direct integration with GMP manufacturing and early clinical trial infrastructure.

Dr. Biederstädt received his medical degree from Ludwig-Maximilians University of Munich, with clinical training experiences at Harvard Medical School, Weill Cornell Medical College, and university hospitals in Tokyo, Sydney, and Zurich. He completed his doctoral research in molecular cardiology and stem cell biology and his clinical training in Internal Medicine and Hematology/Oncology at the Technical University of Munich. He is the recipient of several competitive awards, including the DFG Walter Benjamin Fellowship and the Emmy Noether Program.

Prior to his academic career, Dr. Biederstädt worked at McKinsey & Company as a Junior Engagement Manager and Senior Consultant, advising board-level stakeholders across the healthcare sector, including global pharmaceutical companies, payers, and providers, on clinical development strategy, organizational transformation, and mergers and acquisitions.