



Mary C Dinauer, M.D., Ph.D.

Dr. Dinauer is the Fred M. Saigh Distinguished Chair of Pediatric Research and Professor of Pediatrics at Washington University in St. Louis School of Medicine. Her research is focused on the leukocyte NADPH oxidase, which plays a critical role in microbial killing, as evidenced by the recurrent bacterial and fungal infections in patients with chronic granulomatous disease who lack this enzyme. The NADPH oxidase is also increasingly recognized to have important immunomodulatory functions. Her work has included studies on the structure and regulation of the NADPH oxidase, its role in innate immunity and inflammation, and strategies for treatment of CGD by gene modification of hematopoietic stem cells.

She received her B.A. from Lawrence University in Appleton, Wisconsin, earned an M.D. and Ph.D. from the University of Chicago as an MSTP student, and trained in pediatrics at University of California, San Francisco and pediatric hematology oncology at Boston Children's Hospital and Dana-Farber Cancer Institute. She was a faculty member at Harvard Medical School and Indiana University School of Medicine, and is currently at Washington University in St. Louis where she also serves as scientific director of the Children's Discovery Institute, a partnership between Washington University School of Medicine and St. Louis Children's Hospital, which funds early stage basic and translational child health research.

Dr. Dinauer has published more than 180 peer-reviewed articles, invited manuscripts, and book chapters. Her research has been supported by the NIH, Arthritis Foundation and March of Dimes. She is grateful for the opportunities to train and mentor undergraduates, graduate students, post-doctoral fellows, and clinical fellows throughout her career, who made many important contributions to her lab's research efforts. Dr. Dinauer also has been active in many professional societies. Among these activities, she served as Councilor and then Treasurer for the Society of Leukocyte Biology. She also served as Councilor for the American Society of Hematology, is a former Associate Editor for BLOOD and is currently a Special Section Editor for the BLOOD Podcast series.

Dr. Dinauer was elected to the American Society of Clinical Investigation and the Association of American Physicians, received the Excellence in Pediatrics Research Award from the American Academy of Pediatrics, and is a Fellow of the American Association for Advancement of Science. She was honored by the Society of Leukocyte Biology with the Legacy Keynote Lecture Award in 2018.