



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

Dr. Dinauer is the Fred M. Saigh Distinguished Chair of Pediatric Research and Professor of Pediatrics and of Pathology & Immunology 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.

Dr. Dinauer received a B.A. in Biology-Chemistry (summa cum laude) from Lawrence University in Appleton, WI. She then earned medical and doctoral degrees from the University of Chicago, followed by training in pediatrics at the University of California, San Francisco and pediatric hematology-oncology at Boston Children's Hospital and Dana-Farber Cancer Institute. Her research interests were influenced by the pediatric immunodeficiency group while a resident at USCF and by Stuart Orkin, who had identified the gene responsible for the X-linked form of chronic granulomatous disease just prior to her joining his laboratory for postdoctoral studies. Much of her career was spent at Indiana University School of Medicine, where she was also director of the Wells Center for Pediatric Research. Dr. Dinauer moved to Washington University in 2010 to serve as scientific director of the Children's Discovery Institute.

Dr. Dinauer is a member of the American Society of Hematology, the American Pediatrics Society, the Society for Leukocyte Biology, and the American Society for Cell and Gene Therapy. She 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. Dr. Dinauer has been active in many committees and other activities for these organizations, including serving as Associate Editor for BLOOD, Councillor for the American Society of Hematology, and Councillor and then Treasurer for the Society of Leukocyte Biology.