



Fischer, Anthony

Anthony Fischer is an Assistant Professor of Pediatrics at the University of Iowa, where he specializes in Pediatric Pulmonology. He earned M.D. and Ph.D. degrees at the University of Iowa in 2009. His thesis research in the laboratory of Dr. Paul McCray focused on how surface epithelial cells and submucosal glands defend against viral infections. After medical school, he completed his residency in Pediatrics at Children's Hospital of Pittsburgh in 2012. He returned to the University of Iowa, completing a fellowship in Pediatric Pulmonology in 2015. Since starting his fellowship, he has worked under the mentorship of Dr. Michael Welsh. Dr. Fischer's research focuses on how mucus transports inhaled particles and respiratory pathogens, and how this normal host defense is disrupted in cystic fibrosis. Using a pig model, Dr. Fischer and colleagues showed that mucus strands are required for the transporting large particles. In cystic fibrosis, mucus strands fail to release from submucosal glands, leading to retention of inhaled particles. Dr. Fischer was recognized as an outstanding junior investigator at the 2013 North American Cystic Fibrosis Conference. He has received grant funding from the Cystic Fibrosis Foundation and a K08 award from NHLBI. Dr. Fischer's clinical interests include asthma, cystic fibrosis, and respiratory physiology.