

Abigail Giles is currently a postdoctoral fellow at the National Heart, Lung, and Blood Institute (NHLBI) in Bethesda, MD, under the supervision of Dr. Tish Murphy. An Edward D. Korn fellow, Abigail earned her PhD in Medical Sciences at the University of Cambridge with sponsorship from the National Institutes of Health Oxford-Cambridge Scholars Program. During her doctoral training, Abigail led the development of a novel optical approach for measuring mitochondrial membrane potential in the intact heart, in collaboration with Dr. Robert Balaban at NHLBI and Professor Michael P. Murphy at the University of Cambridge. Abigail is broadly interested in mitochondrial energetics and metabolism in the context of cardiac physiology and disease. Her postdoctoral research focuses on mitochondrial mechanisms of cardiovascular disease, with particular emphasis on the role of mitochondrial-derived reactive oxygen species (ROS) in cardiac injury.