

EXHIBIT 2

UNIVERSITY OF MARYLAND CARDIAC SURGEONS AND BIOGRAPHIES



Murtaza Yousuf Dawood, M.D.

Clinical Instructor of Surgery

Dr. Dawood is Clinical Instructor of Surgery, and also serves as a cardiac surgeon at the University of Maryland Medical Center and University of Maryland St. Joseph's Medical Center

He received his medical degree from Saba University School of Medicine in the Dutch Antilles. He completed his general surgery residency at Western Reserve Care System in Youngstown, Ohio, and a cardiothoracic surgery residency at The Ohio State University Medical Center.

Dr. Dawood came to the University of Maryland Heart Center in 2010 where he completed a valve disease fellowship under the mentorship of Dr. James Gammie. Dr. Dawood joined the University of Maryland School of Medicine faculty in 2012.

Dr. Dawood's interests include mitral and tricuspid valve repair, endocarditis, pulmonary embolectomy, atrial fibrillation, and minimally-invasive cardiac surgery.



Stewart Finney, MD, FACS

*Chief, Cardiac Surgery at University of Maryland St. Joseph Medical Center
Clinical Associate Professor, University of Maryland School of Medicine*

Dr. Stewart Finney is the chief of cardiac surgery at University of Maryland Saint Joseph Medical Center.

He is a cardiac surgeon in the Division of Cardiac Surgery and a Clinical Associate Professor at the University of Maryland Medical Center. He has practiced at St. Joseph Medical Center for 19 years. His specialty is adult cardiac surgery, primarily coronary artery bypass surgery and valve repair and replacement, with special interests in aortic valve and aortic aneurysm surgery.

Dr. Finney is recognized as a highly skilled cardiothoracic surgeon who has been named a Top Doc by *Baltimore* magazine numerous times. He believes in a system of compassionate care that ensures that cardiac patients receive high quality surgical treatment.

He received his medical degree and completed residency training in general surgery and cardiothoracic surgery at Johns Hopkins and did a fellowship in cardiac surgery at Prince Charles Hospital in Brisbane, Australia. He is a member of the American Board of Surgery, the American Board of Thoracic Surgery, the American College of Surgeons and the American Medical Association.



James Gammie, M.D.

*Professor of Surgery
Chief, Division of Cardiac Surgery*

Dr. Gammie joined the University of Maryland Heart Center from the University of Massachusetts Medical Center, where he was an assistant professor of cardiothoracic surgery and surgical director of cardiac transplantation and mechanical circulatory support.

He received his medical degree from the University of Massachusetts Medical School. He completed his general surgery residency at the University of Pittsburgh Medical Center, where he also completed a research fellowship in the Divisions of cellular therapeutics and cardiothoracic surgery.

His clinical and research interests include minimally invasive and video-assisted mitral valve repair, off-pump bypass or "beating heart" surgery, and the treatment of atrial fibrillation using a modified MAZE-type procedure, cryoprobes, and microwave technology. He also contributes to the growing heart and lung transplant program and the mechanical circulatory support program at the University of Maryland Medical Center.



Bartley Griffith, M.D.

Professor of Surgery

Thomas E. and Alice Marie Hales Distinguished Professor

Dr. Griffith is a professor of surgery at the University of Maryland School of Medicine.

Prior to his arrival at the University of Maryland, Dr. Griffith served as vice chair in the department of surgery at the University of Pittsburgh School of Medicine, where he was also chief of cardiothoracic surgery and the Henry T. Bahnson Professor of Surgery. He also served as the founding director for the internationally recognized McGowan Center for Artificial Organ Development.

Dr. Griffith's clinical work focuses on coronary artery surgery, mitral and aortic valve replacement and aneurysmal disease of the thoracic aorta. His research interests are concentrated on heart and lung transplantation, cell transplantation and advancing the use of artificial organs. He has directed more than 1,200 heart transplants and 600 lung transplants and is an innovator in the use of immunosuppression after transplant and mechanical blood pumps prior to transplant.

In August of 2003 he reconstructed the top two chambers of a woman's heart with animal and human donor tissue. This first-of-its-kind surgery was performed to remove a potentially deadly and recurring tumor called a myxoma.

In September of 2002, he led a team of Heart Center cardiac surgeons to implant a revolutionary new rotary heart pump called the Jarvik 2000 to save the life of a man with heart failure.

Dr. Griffith received his medical degree from Jefferson Medical College and completed a surgery internship and general and cardiothoracic surgery residency at the University of Pittsburgh School of Medicine Health Center Hospitals. He is an NHLBI investigator and is currently developing an artificial lung. He has published over 500 articles and book chapters, lectured at professional meetings nationally and internationally, and is the recipient of numerous honors and awards, including induction into the Royal College of Surgeons, Edinburgh, Scotland.



Sunjay Kaushal, M.D., Ph.D.

Associate Professor of Surgery

Director, Pediatric Cardiac and Adult Congenital Cardiac Surgery

Dr. Kaushal received his Bachelors of Science in Biochemistry at the University of Rochester in 1989. In 1997, he received his medical degree at the Johns Hopkins School of Medicine where he later completed residencies in General Surgery in 2004 and Cardiothoracic Surgery in 2006.

Dr. Kaushal also received a Ph.D. from Harvard University Graduate School of Arts and Sciences in 1995. He completed two fellowships – the first in 2005 in Pediatric Cardiac Surgery at Great Ormond Street Hospital in London, England and in Pediatric Cardiovascular Surgery, in 2007, at the University of Michigan-Mott Children's Hospital. Dr. Kaushal received the following certifications: American Board of Surgery in 2004, American Board of Thoracic Surgery in 2007, and American Board of Congenital Cardiac Surgery in 2010.

Dr. Kaushal is a practicing pediatric cardiac surgeon who operates on the most complex congenital heart conditions, including Hypoplastic Left Heart Syndrome and pediatric heart transplants. He has a particular focus on heart failure patients and an interest in developing new therapeutic options, in particular cardiac stem cell-based therapies, within his research laboratory. The FDA has approved Dr. Kaushal and team to host a groundbreaking clinical trial for the use of cardiac stem cells in infants with hypoplastic left heart syndrome.

Dr. Kaushal is the recipient of numerous grants, including the following: NIH K08 award (2009-2014), Howard Hughes Early Career Investigator (2009-2014), Maryland Stem Cell Grant (2013-2017), and Children's Heart Foundation (2012-2014). He also has published in *Circulation*, *Nature Medicine*, *Journal of Cardiothoracic Surgery*, and *Annals of Thoracic Surgery*.



Teng C. Lee, M.D.

*Assistant Professor of Surgery
Co-Director, Center for Aortic Disease*

In 1999, Dr. Lee received his medical degree from Washington University in St. Louis. He completed his general surgery residency at Case Western Reserve University and a cardiothoracic surgery residency at Duke University Medical Center. In addition, Dr. Lee also completed two fellowships to further his medical expertise. His first fellowship specialized in endovascular and interventional radiology, which he completed at Lunds Universitet, an affiliate of Malmo University Hospital in Malmo, Sweden. His second fellowship specialized in aortic surgery, heart transplantation and mechanical assist devices, which he completed at Duke University Medical Center.

Dr. Lee's special interests include surgery of the thoracic aorta, including aneurysms and dissections using open, hybrid and endovascular approaches; minimally invasive cardiac surgery and adult cardiac surgery. He joined the University of Maryland School of Medicine faculty as an assistant professor of surgery and also serves as a cardiac surgeon at the University of Maryland Medical Center.



Si Pham, M.D.

*Professor of Surgery
Director of Heart and Lung Transplantation*

Dr. Pham received his medical degree from the University of Pittsburgh School of Medicine where he also completed general surgery residency, cardiothoracic surgery residency and surgical research fellowship. Following his training, Dr. Pham joined the faculty of the University of Pittsburgh School of Medicine and became the Director of Adult Heart Transplant Service at the Presbyterian University Hospital under the UPMC Health System. Subsequently, he was recruited to the University of Miami to head the section of Thoracic Organ Transplant.

Dr. Pham has extensive experience in the field of cardiothoracic surgery and transplantation and most recently served as Professor of Surgery and Biomedical Engineering at the University of Miami School of Medicine, as well as Chief of the Division of Heart/Lung Transplant and Artificial Heart at the Miami Transplant Institute. Under his leadership, the Heart and Lung Transplant programs had excellent outcomes and received several national awards.

Dr. Pham is certified by the American Board of Surgery, the American Board of Thoracic Surgery and the American Board of Surgery with additional qualifications in surgical critical care.

Dr. Pham has made several significant contributions to the field of heart/lung transplantation. His team was the first to use tacrolimus (Prograf) to prevent rejection in heart/lung transplant recipients. He was a pioneer in the use of donor bone marrow to prevent rejection in heart and lung recipients. Dr. Pham has published more than 130 scientific papers in leading medical journals, and has received research grants from the National Institute of Health (NIH), the American Heart Association, the American Lung Association, and the Transplant Foundation of Florida. His research interests are in the areas of stem cells and organ regeneration, transplant tolerance, and transplant vasculopathy.

At the University of Maryland, Dr. Pham will focus his clinical work on cardiac surgery, heart and lung transplantation, circulatory assist devices and extracorporeal membrane oxygenation (ECMO).



Richard N. Pierson III, M.D.

*Professor of Surgery
Director, Surgical Care Service, Veterans Administration Maryland Health Care System
Senior Associate Dean, Academic Affairs
Interim Director, Research Affairs*

Dr. Pierson received his medical degree from the Columbia University College of Physicians and Surgeons. His postgraduate clinical training included general surgery at the University of Michigan, cardiac and thoracic surgery at the Massachusetts General Hospital and a clinical and research fellowship in cardiothoracic transplantation at Papworth Hospital at Cambridge University. After eight years at the Vanderbilt University Medical Center, he joined the University of Maryland Heart Center in 2002.

His clinical interests include heart and lung transplantation and heart assist device therapy. He is an established investigator in the area of immunobiology of transplantation, and has special experience in xenotransplantation. His laboratory is funded by the NIH and Veterans Affairs Research Program, and he has had numerous grants and awards from other funding agencies, including ALA, AHA, ASTS and DOD ONR.

Dr. Pierson is a fellow of the American College of Surgeons and a member of the Association of VA Surgeons. He has been selected annually as one of the Best Doctors in America since 2001 and by America's Top Doctors since 2002. He is a member of the American Association of Thoracic Surgeons, American Society of Transplant Surgeons, International Society of Heart and Lung Transplantation, Society of Thoracic Surgeons, Society of University Surgeons, UNOS Policy Oversight Committee, VA National Transplant and Thoracic Transplant Boards, and President-Elect of the Xenotransplantation Association, a section of the Transplantation Society.



Keshava Rajagopal, M.D., Ph.D.

Assistant Professor of Surgery

Dr. Rajagopal received his medical and doctoral degrees from the University of Chicago as part of the Medical Scientist Training Program, in 2002. He completed his general surgery residency at Duke University Medical Center in 2009, during which time he also undertook and completed a 2 year research fellowship in cardiovascular biology at Duke University Medical Center. He completed a cardiothoracic surgical residency at Duke University Medical Center in 2012. During this time, he undertook advanced training in heart transplantation, lung transplantation, and mechanical cardiac and pulmonary support.

Dr. Rajagopal's clinical interests are in adult cardiac surgery, and are focused on the treatments of end-stage heart and lung disease. His research interests are in basic and translational cardiovascular/pulmonary biology and physiology.



Rawn Salenger, M.D.

Dr. Salenger is a clinical assistant professor at the University of Maryland School of Medicine and cardiac surgeon in the Division of Cardiac Surgery at the University of Maryland Medical Center and the University of Maryland St. Joseph Medical Center. Dr. Salenger performs the full array of adult cardiac surgical services with a special interest in complex valve surgery and coronary bypass surgery.

Previously, Dr. Salenger served as the Director of Valve Surgery at Good Samaritan Regional Medical Center in Suffern, New York where he established a multi-disciplinary Heart Valve Team.

Dr. Salenger graduated Phi Beta Kappa from the Union College/Albany Medical College Seven Year Medical Program in 1995. He completed his cardiothoracic surgery residency at the University of Massachusetts, and subsequently, a fellowship at The Mount Sinai Hospital in New York.

He has published medical literature on minimizing stroke risk during bypass surgery as well as a book chapter on patient care after heart surgery.



Brad S. Taylor, M.D., M.P.H.

*Associate Professor of Surgery
Director, Coronary Revascularization*

Dr. Taylor serves as the Director of Coronary Revascularization at the University of Maryland Medical Center. Here, he performs robotic assisted coronary artery bypass grafting and hybrid revascularization of multi-vessel coronary artery disease. He received his medical degree and a degree in Health Administration from the Emory University School of Medicine. After completing his general surgery and cardiothoracic surgery residency, he stayed on as an assistant professor of cardiac surgery at the University of Pittsburgh Medical Center. In addition, he completed a minimally invasive cardiac surgery Fellowship at the OLVZ in Aalst, Belgium in 2006.

He joins the faculty after leaving a busy private practice in York, PA. There he performed the full array of cardiac surgery and was instrumental in developing and implementing an advanced endovascular aortic repair program. His clinical and research interests include robotic cardiac surgery, hybrid revascularization of coronary arteries, endovascular and open repair of aortic pathology including aneurysms and dissections. He is also involved in the transcatheter aortic valve repair program.

Source: [Maryland Heart Center-Biographies | University of Maryland Medical Center](http://umm.edu/programs/heart/about-us/our-physicians/biographies#Salenger#ixzz3S7JWdLGM)
<http://umm.edu/programs/heart/about-us/our-physicians/biographies#Salenger#ixzz3S7JWdLGM>