

Editorial

The Texas Heart Institute and Ray C. Fish Award for Scientific Achievement in Cardiovascular Disease

Ray C. Fish (1902-1962) was a leading figure in Houston's natural gas industry and a philanthropist. He believed in the American dream of "opportunity for success." The Ray C. Fish Foundation was established so that others might be encouraged to broaden man's self-knowledge and to keep the American dream alive. After its founder's death from heart disease, the Fish Foundation granted \$5 million (equivalent to \$37 million today) to make The Texas Heart Institute a reality. For this reason, the Institute's highest professional award is given in honor of this extraordinary man. The award recognizes those whose innovations have made significant contributions to cardiovascular medicine and surgery.

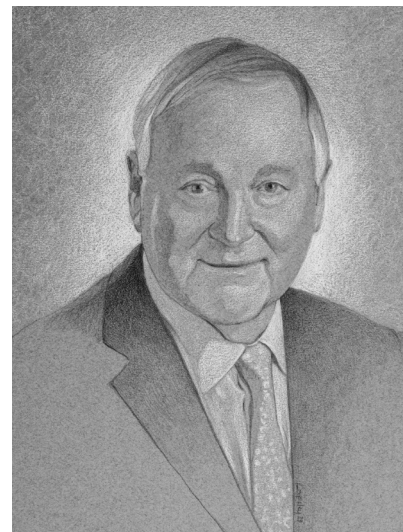
The Texas Heart Institute and Ray C. Fish Award for Scientific Achievement in Cardiovascular Disease were first presented in 1972 to Dr Norman Shumway. Since 1972, 41 other highly deserving recipients have been so honored by the Institute. The complete Roll of Recipients appears on the next page.

Gary Sidney Samuel Roubin, MD, PhD

The recipient of the 2024 Ray C. Fish Award is Gary Sidney Samuel Roubin, MD, PhD. Born and educated in eastern Australia, Dr Roubin is now an interventional cardiology consultant in Jackson, Wyoming. Dr Roubin is known for his pioneering work in coronary and carotid artery stenting, including developing the first coronary artery stent to be approved by the US Food and Drug Administration (FDA). He was later awarded an MD degree from the University of Queensland for his body of scientific work and publications on the development of coronary artery stenting.

Growing up in Brisbane, Queensland, Australia, Dr Roubin was initially interested in animal health and food safety, so he earned a bachelor of veterinary science degree from the University of Queensland. After working in this field for a few years, he developed an interest in human medicine and returned to the University of Queensland to earn an MBBS (Bachelor of Medicine, Bachelor of Surgery) degree. He spent the next several years as a medical officer and training in and then teaching cardiology at the Royal Prince Alfred Hospital in Sydney. In 1985, he earned a PhD from the University of Sydney for his dissertation, titled *The Hemodynamic and Metabolic Basis of Impaired Exercise Tolerance in Heart Disease*.

The next year, Dr Roubin came to the United States to work with Andreas Gruentzig, who had performed the first successful balloon angioplasty, at Emory University Hospital in Atlanta. Dr Roubin then moved on to become director of the catheterization laboratory and a professor of medicine at the University of Alabama in Birmingham. In 1997, he became chief of Cardiovascular Services at Lennox Hill hospital and served as chair of Cardiovascular Medicine there from 2003 to 2012.



Gary Sidney Samuel Roubin, MD, PhD

Dr Roubin and his team performed more than 3000 carotid procedures. In introducing Dr Roubin at The Institute's Grand Rounds, where Dr Roubin gave a presentation titled "Carotid Stenting: State of the Art," Institute President and CEO Dr Joseph Rogers described Dr Roubin as "an internationally renowned interventional cardiologist recognized for his groundbreaking work in the development of coronary and carotid artery stenting, and the first FDA-approved coronary artery stent. Over the past four decades, Dr Roubin's spirit of innovation and pioneering research has changed the lives of patients with atherosclerotic

vascular disease across the globe." Dr Rogers also stated that "an aspect of Dr Roubin's career that I admire most is his ability as an astute clinician to couple his clinical expertise with rigorous scientific inquiry to develop solutions to vexing clinical problems or conditions." This approach to his work, Dr Rogers said, was what enabled Dr Roubin to develop and clinically launch the first balloon-expandable coronary stent as well as carotid stenting, embolic protection devices, and large-bore arterial closure devices.

Roll of Recipients

of The Texas Heart Institute and the Ray C. Fish Award for Scientific Achievement in Cardiovascular Disease

- | | | | |
|------|--|------|---|
| 2024 | <p>Gary Sidney Samuel Roubin
Interventional Cardiology (<i>Recognized for his pioneering work in coronary artery and carotid stenting. He is also acknowledged for the development of the first FDA-approved coronary stent.</i>)</p> | 2015 | <p>Delos M. Cosgrove
Cardiovascular Surgery (<i>Significant contributions to cardiac valve repair</i>)</p> |
| 2023 | <p>Tirone E. David
Cardiovascular Surgery (<i>World-renowned for pioneering surgical innovation and procedures to treat patients with heart valve disease, complications of myocardial infarction, and diseases of the thoracic aorta.</i>)</p> | 2014 | <p>Terence English
Cardiovascular Surgery (<i>Establishing the heart transplantation program in England</i>)</p> |
| 2020 | <p>Christine E. Seidman
Cardiovascular Genetics (<i>Research in molecular mechanisms of cardiomyopathy and other heart diseases</i>)</p> | 2013 | <p>Alain G. Cribier
Interventional Cardiology (<i>First balloon dilation of an aortic valve for calcific aortic stenosis, 1985; first implantation of a prosthetic aortic valve via cardiac catheterization, 2002</i>)</p> |
| 2019 | <p>Emerson C. Perin
Interventional Cardiology (<i>Research in regenerative medicine and stem cells and development of novel stem cell treatments for patients</i>)</p> | 2012 | <p>George J. Reul
Cardiac and Vascular Surgery (<i>Development of an accredited vascular lab at St Luke's Episcopal Health System; leader in quality measures</i>)</p> |
| 2018 | <p>Joseph S. Coselli
Cardiovascular Surgery (<i>Knowledge of and exceptional technical expertise in thoracoabdominal aortic aneurysm repair</i>)</p> | 2011 | <p>Patrick W. Serruys
Interventional Cardiology (<i>Major contributions to interventional cardiology, including those to the development of both bare-metal and drug-eluting stents</i>)</p> |
| 2016 | <p>David A. Ott
Cardiovascular Surgery (<i>Knowledge of and exceptional technical expertise in cardiovascular surgery</i>)</p> | 2010 | <p>Charles D. Fraser, Jr
Cardiovascular Surgery (<i>Development of a program known for its effectiveness in correcting congenital cardiovascular disease in children</i>)</p> |

- 2009 **James T. Willerson**
Cardiology (*Pioneering work in unstable atherosclerotic plaques, acute coronary syndromes, and cardiac stem cells*)
- 2008 **O. H. Frazier**
Cardiovascular Surgery (*Heart transplantation as well as research and development of the left ventricular assist device*)
- 2007 **Charles E. Mullins**
Pediatric Cardiology (*Teaching and pioneering work in interventional techniques for congenital heart disease*)
- 2004 **Stephen Westaby**
Cardiovascular Surgery (*First clinical trial of axial-flow devices for destination therapy and significant contributions to the surgical literature*)
- 2004 **James L. Cox**
Cardiovascular Surgery (*Surgery for atrial fibrillation*)
- 1999 **Thomas J. Fogarty**
Cardiovascular Surgery (*Medical and surgical devices*)
- 1998 **Magdi Yacoub**
Cardiovascular Surgery (*Heart-lung transplantation*)
- 1997 **Julio C. Palmaz**
Radiology (*Endovascular stents*)
- 1997 **Aldo R. Castañeda**
Pediatric Cardiovascular Surgery
- 1992 **Arthur S. Keats**
Cardiovascular Anesthesiology
- 1990 **Sol Sherry**
Cardiology (*Thrombolytic therapy*)
- 1989 **Robert J. Hall**
Cardiology (*Clinical practice and teaching*)
- 1988 **J. Willis Hurst**
Cardiology (*Writing and teaching*)
- 1987 **Dwight E. Harken**
Cardiovascular Surgery (*Intracardiac surgery*)
- 1986 **William J. Rashkind**
Pediatric Cardiology (*Nonsurgical treatment of congenital heart disease*)
- 1985 **Denton A. Cooley**
Cardiovascular Surgery (*Surgery for congenital heart disease, aneurysms of the aorta, and implantation of the artificial heart*)
- 1984 **Hein J. J. Wellens and Douglas P. Zipes (co-recipients)**
Cardiology (*Diagnosis and management of pediatric cardiac arrhythmias*)
- 1983 **Andreas R. Gruentzig**
Cardiology (*Percutaneous transluminal coronary angioplasty*)
- 1981 **Paul M. Zoll**
Cardiology (*Pacemaking*)
- 1980 **W. Proctor Harvey**
Cardiology (*Clinical practice and teaching*)
- 1979 **John J. Gallagher and William C. Sealy (co-recipients)**
Cardiology and Cardiovascular Surgery (*Surgery for preexcitation*)
- 1978 **Bernard Lown**
Cardiology (*Cardiac arrhythmias*)
- 1977 **John W. Kirklin**
Cardiovascular Surgery (*Heart-lung machines*)
- 1976 **Harvey Feigenbaum**
Cardiology (*Echocardiography*)
- 1975 **Willem J. Kolff**
Cardiovascular Surgery (*Artificial organs*)
- 1974 **Eugene E. Braunwald**
Physiology (*Myocardial preservation*)
- 1973 **F. Mason Sones, Jr**
Cardiology (*Coronary angiography*)
- 1972 **Norman E. Shumway**
Cardiovascular Surgery (*Heart transplantation*)

Article Information

Published: 18 April 2024

Open Access: © 2024 The Author. Published by The Texas Heart Institute®. This is an Open Access article under the terms of the Creative Commons Attribution-NonCommercial License (CC BY-NC, <https://creativecommons.org/licenses/by-nc/4.0/>), which permits use and distribution in any medium, provided the original work is properly cited, and the use is noncommercial.