Funding research and education today to improve the practice of tomorrow.
Mission

The Foundation’s mission is to “foster the development of surgeon scientists in cardiothoracic surgery; increasing knowledge and innovation to benefit patient care.”
Dear Colleagues, Patients, and Friends:

It has been my privilege to serve as The Thoracic Surgery Foundation's President for the past 2 years. This time has afforded me the opportunity to learn and experience firsthand the generosity of the members of our specialty in supporting the Foundation’s research and education initiatives.

I am so grateful to you, our wonderful donors, who make everything we do possible. From exemplary patient care, to groundbreaking research, to educating the next generation of cardiothoracic surgery leaders, you are the heart and soul of all our endeavors.

2018 was a great year for The Thoracic Surgery Foundation. The Foundation’s established role as The Society of Thoracic Surgeon’s charitable arm has strengthened our fundraising potential and covered our administrative costs, enabling us to have a greater impact with our mission.

TSF is truly Your Foundation. Research grants, fellowships, and educational scholarships from TSF represent all of our disciplines (cardiac, general thoracic, and congenital) and surgeons at all career stages. The Foundation’s awards have been instrumental in developing hundreds of young surgeons by providing the support needed for their career advancement. These awards also have been important stepping stones in furthering innovation in cardiothoracic surgery. I’m certain that under the leadership of TSF’s new President, Dr. Joseph Bavaria, the foundation will reach new heights.

If you have not given to the Foundation recently, I urge you to consider doing so now. And, if you generously donated in 2018, please consider another gift at this time. Let’s make 2019 TSF’s best year yet. You can click here or anywhere on the bottom of each page to make an online donation. Your generosity will help us ensure a bright future for surgeon-scientists and excellent care for our patients.

Thank you for your continued support of TSF.

Douglas E. Wood, MD, FRCSEd
TSF President, 2017–2019
The Thoracic Surgery Foundation's mission is to provide better patient care through four main avenues—research, education, global outreach, and innovation. To advance the field of cardiothoracic surgery and improve the care we give to patients in the future, we must conduct research to better understand cardiothoracic disease, and we also must train the next generation of cardiothoracic surgeons and surgeon-scientists. The research grants provided by the TSF are meant specifically for this purpose.

The TSF is the literal foundation for our specialty. Giving to the Foundation will help support innovative, impactful research, which will help patient care in the future. It also will help support today's trainees and young cardiothoracic surgeons who will be the leaders in the field in the future. Grants for these surgeons can be extremely important for launching their research careers. I know this firsthand.

In 2005, I was a grateful recipient of a TSF grant that was co-sponsored by the NIH. This helped me develop the research skills I needed to cultivate a research program focused on thoracic aortic disease and help launch my career. I can't begin to imagine what I would be doing right now if I hadn't received that initial grant. So, contributing to the Foundation, both in terms of leadership and in making donations, is an important way I can give back for everything that it has done for me.

It has been my pleasure and an honor to serve as the TSF Research Chair for the past 2 years. I wish to express my sincere thanks to the members of the Research Committee.

Scott A. LeMaire, MD
2018 TSF Research Chair

The 2018 TSF Research Committee

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It has been my pleasure and an honor to serve as the TSF Research Chair for the past 2 years. I wish to express my sincere thanks to the members of the Research Committee.

Scott A. LeMaire, MD
2018 TSF Research Chair
2018 TSF Award Offerings

Research Awards

**TSF Research Award**

This award provides operational support of original research efforts by cardiothoracic surgeons who have completed their formal training and who are seeking initial support and recognition for the research program. Awards of up to $40,000 per year for up to 2 years are granted to support the work of early career cardiothoracic surgeons (within 7 years of first faculty appointment at the time of application deadline).

**STS Research Award**

This award provides operational support of original research efforts by cardiothoracic surgeons who have completed their formal training and who are seeking initial support and recognition for the research program. Awards of up to $40,000 per year for up to 2 years are granted to support the work of early career cardiothoracic surgeons (within 7 years of first faculty appointment at the time of application deadline). The STS Research Award designation is given to the highest-ranking research application awarded by TSF based on merit as judged by a rigorous peer-review process.

**Nina Starr Braunwald Research Award**

Nina Starr Braunwald, MD was the first woman to be certified by the American Board of Thoracic Surgery (ABTS) and the first woman to perform open heart surgery. This award in her name provides operational support of original research efforts by women cardiac surgeons who have completed their formal training and who are seeking initial support and recognition for their research program. Awards of up to $40,000 per year for up to 2 years are made each year to support the work of early career women cardiac surgeons (within 5 years of first faculty appointment).

**Nina Starr Braunwald Research Fellowship Award**

This award supports up to $30,000 per year for up to 2 years for a woman resident working in a cardiothoracic surgical clinic or laboratory research program who has not yet completed cardiothoracic surgical training.

**STSA Research Award**

This award provides operational support of original research efforts by cardiothoracic surgeons who have completed their formal training and who are seeking initial support and recognition for their research program. An award of up to $25,000 for 1 year will be granted to support the work of an early career cardiothoracic surgeon (within 7 years of first faculty appointment at the time of application deadline). Membership in the Southern Thoracic Surgical Association (STSA) is not required; however, applicants must meet STSA membership eligibility requirements.

**TSF Resident Research Fellowship Award**

This award provides up to $30,000 per year for up to 2 years to support a research fellowship for a resident who has not yet completed cardiothoracic surgical training. During the fellowship, the resident will work in a cardiothoracic surgical clinical or laboratory research program.
Robert L. Replogle Traveling Fellowship Award

Robert L. Replogle, MD was a talented pediatric cardiothoracic surgeon, as well as an educator, researcher, and national leader in cardiothoracic surgery. The purpose of the Replogle Fellowship is to facilitate the continuing education of deserving young faculty surgeons or residents committed to the treatment of congenital heart disease in neonates, infants, children, and adults. The award is intended for travel to another institution for the purpose of learning a novel technique, adapting innovative technology, and/or fostering collaboration among surgical investigators in order to further the progress of congenital heart surgery at the recipient’s home institution. This award in Dr. Replogle’s name provides support of up to $10,000 for up to 2 weeks for early career congenital heart surgeons who are within 7 years of ACGME-accredited congenital heart surgery fellowship completion (or its equivalent).

Sarns Terumo Perfusion Education Fellowship Award

The purpose of the Sarns Terumo Perfusion Education Fellowship is to facilitate the continuing education of a deserving board-certified perfusionist who is committed to expanding cardiovascular perfusion education and knowledge. This $10,000 award will support travel to another institution for the purpose of learning unique techniques, simulation approaches, and innovative technology to improve care for cardiothoracic surgery patients at the recipient’s home institution.

Levi Watkins Innovation and Leadership Development Scholarship

Levi Watkins, MD was an accomplished cardiothoracic surgeon and social activist at The Johns Hopkins Medical Center who made medical history by working with innovative physicians and engineers to implant the first automated internal cardiac defibrillator in a human being. The Watkins Scholarship supports travel to a center of excellence for the purposes of acquiring clinical, translational, or leadership training to enhance skills and practice in an area of innovation or surgical significance. This award in Dr. Watkins’s name provides support of up to $5,000 for up to 2 weeks for cardiothoracic surgeons who are within 7 years of first faculty appointment.
Leadership Awards

Alley-Sheridan Scholarships

Ralph D. Alley, MD was a Founder Member of The Society of Thoracic Surgeons and served as its 1975–1976 President. David Sheridan was an inventor and close friend of Dr. Alley, who held more than 50 patents for innovations that have improved health care. Moved by his collaborator and friend’s commitment to cardiothoracic surgery, Sheridan created the Alley-Sheridan Fund, which provides scholarships of $2,500 toward the cost of tuition to attend the Leadership Program for Health Policy and Management at the Heller School of Public Policy and Management at Brandeis University.

Surgical Outreach Awards

TSF International Cardiac Surgical Outreach Award

TSF, through the generosity and philanthropy of the Edwards Lifesciences Foundation, offers support of up to $37,500 for qualified surgeons with proven track records of volunteer experience conducting charity work for underserved regions/populations. Awards are designed to provide support for sustainable programs that educate, screen, and/or treat underserved populations to reduce the global burden of heart valve disease or support other programs that advance health care and address underserved populations.

TSF Travel Awards

These awards of $1,000 provide cardiothoracic surgeons who treat underserved patients and demonstrate a financial need with the opportunity to attend either the STS/EACTS Latin America Cardiovascular Surgery Conference or the STS Annual Meeting. Underserved people are those who have a health disparity as defined by the Centers for Disease Control and Prevention and lack awareness of, or access to, medically appropriate health care. These scholarships are made possible by W.L. Gore & Associates.

TSF International Medical Volunteer Scholarship

TSF, through the generosity and philanthropy of the Edwards Lifesciences Foundation, offers travel scholarships of $2,500 for qualified cardiothoracic surgery residents and early career cardiothoracic surgeons (within 7 years of CT surgery residency completion) who wish to gain a global cardiothoracic surgery volunteer experience under the mentorship of experienced surgeon volunteers. TSF International Medical Volunteer Scholars will have the opportunity to join a TSF International Cardiac Surgical Outreach Award mission trip team.
“My laboratory is studying the noninvasive diagnostic potential of circulating transplant tissue-specific exosomes in clinical heart transplantation. Thanks to the generous support of the TSF, we have now successfully validated detection and characterization of donor heart exosomes from recipient circulation in heart transplant patients, and preliminary data suggest that acute rejection leads to time-specific changes in transplant tissue exosomes.”

“It is a true privilege to receive this prestigious award, and I would like to thank the TSF for its support and commitment in moving the field forward. Our goal is to make an important contribution in the field of lung cancer screening.”

“The TSF research award enables me to continue my research on lung premalignancy and cancer prevention. The funding will make it possible to generate the additional data and publications required to successfully apply for future grants on the path to becoming an independent surgeon-scientist. I could not be more grateful for this incredible honor and inspiring opportunity.”

Prashanth Vallabhajosyula, MD
University of Pennsylvania
STS Research Award, $80,000
Transplant Heart Exosome Profiling for Noninvasive Monitoring of Immunologic Rejection

Kei Suzuki, MD
Boston University
TSF Research Award, $80,000
Utilization of Nasal Biomarkers as Screening Tools for Lung Cancer

Jane Yanagawa, MD
University of California, Los Angeles
TSF Research Award, $80,000
Targeting SGLT2 in Human Lung Adenocarcinoma

www.thoracicsurgeryfoundation.org
“Support from the STSA-TSF award greatly facilitated an in-depth study of the genomic and transcriptomic events that occur during the course of human donor heart preservation. This funding also provided important preliminary data on how valproic acid can modify these molecular events and impact subsequent ex-vivo heart perfusion.”

“There are few specialties in American medicine in which early career research is supported as well as cardiothoracic surgery, and TSF is a large part of the reason why. As an early career congenital heart surgeon with early stage translational research, I have been so fortunate to gain support from the TSF. The Nina Starr Braunwald Research Award has allowed me to generate preliminary data to be competitive for further funding in the transition from fellowship to faculty.”

Paul C. Tang, MD, PhD
University of Michigan

**STSA Research Award, $25,000**
Improving Donor Heart Function Following Ischemia-Reperfusion Injury by Innate Immune Inhibition Using Valproic Acid

Danielle Gottlieb-Sen, MD
Louisiana State University Health Sciences Center/Children's Hospital of New Orleans

**Nina Starr Braunwald Research Award, $80,000**
Defining Key Regulators of Aortic Valve Growth

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**2018 TSF AWARDS FUNDING BY TYPE**

- **Research** $495,000
- **Education** $81,000
- **Leadership** $32,500
- **Surgical Outreach Missions** $250,000
- **TSF Travel Awards** $25,311

**TOTAL** $883,811
“I am deeply grateful for the generosity and support of TSF. This award has made it possible for me to engage in meaningful research to address clinically important questions and to do so under exemplary mentorship. It is an invaluable experience for me towards building a career as a surgeon-scientist in the field of cardiothoracic surgery.”

Patpilai Kasinpila, MD
Stanford University
Nina Starr Braunwald Research Fellowship Award, $60,000
Evaluation of Sustained Release Engineered Stromal Cell-Derived Factor 1-Alpha Analogue in Injectable Hydrogels in Ovine Myocardial Infarction Model

Ngoc-Quynh T. Chu, MD
Brigham and Women’s Hospital
TSF Resident Research Award, $30,000
Immunomodulation of Tumor-Draining Lymph Nodes for the Prevention of Nodal Metastases in Non-Small Cell Lung Cancer

Khaled T. Ramadan, MD
University of Toronto
TSF Resident Research Award, $60,000
Photodynamic Therapy During In Vivo Lung Perfusion for Treatment of Lung Metastases

“I am honored and grateful to receive this award from the TSF. This funding has provided me an unparalleled opportunity to perform cutting-edge and high-quality research exploring the use of lung perfusion technology for the treatment of lung metastases. It has allowed me to pursue formal training as a surgeon-scientist and spearheaded my aspiring career in this field.”

www.thoracicsurgeryfoundation.org
Education Award Recipients

““It is an enormous privilege holding TSF Michael J. Davidson Fellowship. The award has allowed me to become fully integrated into the Structural Heart Team at MedStar Washington Hospital Center. I have spent the year learning interventional techniques with structural heart cardiologists and surgeons—initially the basics of interventional cardiology, including wire skills and catheter selection; now placing transcatheter aortic valves independently and also being exposed to mitral therapies and new devices.

From a research perspective, I have been exposed to large datasets from STS National Database, been involved in a substudy of a major landmark TAVR trial, as well as utilized our large local database. These studies will be presented at the major meetings in 2019.”

James B. Edelman, MD
Toronto General Hospital,
University of Toronto
Michael J. Davidson Fellowship,
$25,000
Advanced Transcatheter Valve Surgery

“The support of TSF made it possible for me to have an immersive experience with interventional cardiologists, cardiac imaging specialists, and experts in MICS to get additional training in complex catheter-based interventions, minimally invasive and robotic-assisted surgery, as well as advanced imaging technology.”

Moritz C. Wyler von Ballmoos, MD, PhD
Houston Methodist Hospital
Michael J. Davidson Fellowship,
$25,000
TCT Training
“I am incredibly grateful to the TSF for its support. This fellowship will lay the groundwork for a lifelong collaboration which is committed to the continued maturation of congenital cardiac surgery in Armenia.”

“His generous award from the TSF will allow me to expand my thoracic skills and build a well-rounded esophageal practice. Incorporating advanced endoscopic skills in both benign and malignant diseases offers patients the full spectrum of care and helps to move the field of thoracic surgery forward. This award will also allow me to collaborate with other surgeons and expand research opportunities in the area of esophageal disease.”

Harma K. Turbendian, MD
Children’s Hospital Colorado
Robert L. Replogle Traveling Fellowship, $10,000
Congenital Cardiac Surgery in Armenia

Natalie Lui, MD
Stanford University
Carolyn E. Reed Traveling Fellowship, $10,000
Advanced Endoscopic Techniques for Esophageal Disease at The Oregon Clinic

Stephanie G. Worrell, MD
University of Michigan
Carolyn E. Reed Traveling Fellowship, $5,000
Advanced Endoscopic Skills
“I am very grateful to the TSF for providing me the opportunity to delve deeper into exploring how ex vivo techniques and ECMO can expand capabilities in lung transplantation.”

David T. Cooke, MD
UC Davis Medical Center

Levi Watkins Innovation and Leadership Development Scholarship, $5,000

Obtaining Leadership Skills to Manage Complex Academic Teams and Tools to Study and Develop Strategies to Diversify the Cardiothoracic Surgery Workforce: The Johns Hopkins Department of Surgery and the AAMC

“Through TSF Levi Watkins Innovation and Leadership Development Scholarship, I had wonderful professional development experiences with the Association of American Medical Colleges in Washington, DC, and Dr. Robert S.D. Higgins, Surgeon-in-Chief at Johns Hopkins Medicine. These experiences improved my understanding of the needs and best practices of a modern academic medical system, as well as the challenges, complexities, and rewarding experiences of leading a large surgery department. I am forever grateful to the TSF for this unparalleled opportunity.”

Jeremiah W. Hayanga, MD
West Virginia University

Levi Watkins Innovation and Leadership Development Scholarship, $5,000

Lung Transplantation, ECMO, and Ex Vivo Perfusion
Alley-Sheridan Scholarship Recipients

Usman Ahmad, MD  
Cleveland Clinic  
Cleveland, OH

Domenico Calcaterra, MD  
Abbott Northwestern Hospital  
Minneapolis, MN

Dan W. Choi, MD  
The Johns Hopkins University  
Baltimore, MD

William A. Killinger Jr., MD  
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Raleigh, NC

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Houston Methodist  
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Pittsburgh, PA

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Cedars-Sinai Medical Center  
Los Angeles, CA

Daniel G. Tang, MD  
Virginia Commonwealth University  
Richmond, VA

Curtis J. Wozniak, MD  
David Grant Medical Center/University of California  
San Francisco, CA

Leadership Program for Health Policy and Management, Brandeis University, Class of 2018
Surgical Outreach Missions Award Recipients

Craig H. Selzman, MD
University of Utah Cardiothoracic Surgery
Center for Global Surgery–Cardiothoracic Surgery
Division in Mongolia
International Cardiac Surgical Outreach Award, $37,500

R. Morton “Chip” Bolman III, MD
University of Vermont
Increasing Access to Care for Valvular Heart Disease from Diagnostics to Post-Operative Care in Rwanda
International Cardiac Surgical Outreach Award, $37,500

Frederick L. Grover, MD
University of Colorado Anschutz Medical Campus
Enhancing Access to Care and Treatment of Cardiovascular Disease in Nepal
International Cardiac Surgical Outreach Award, $37,500

Jeffrey D. McNeil, MD
Cardiothoracic and Vascular Surgeons, PA
VOOM Foundation Cardiac Surgery Project in Nigeria
International Cardiac Surgical Outreach Award, $37,500

Pranava Sinha, MD
Children’s National Medical Center
Management of Rheumatic Heart Disease in Uganda
International Cardiac Surgical Outreach Award, $37,500

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Surgical Outreach Missions Award Recipients

Kellianne C. Kleeman, MD
University of Michigan
Enhancing Access to Care and Treatment of Cardiovascular Disease in Nepal
International Medical Volunteer Scholarship Award, $2,500

Aldo E. Rafael, MD
Baylor University Medical Center in Dallas
5th Annual Salvando Corazones in Peru
International Cardiac Surgical Outreach Award, $20,000

Lyle D. Joyce, MD, PhD
Medical College of Wisconsin
Tenwek Project/Kenya Bomet
International Cardiac Surgical Outreach Award, $37,500

Andrea M. Steely, MD
Beth Israel Deaconess Medical Center
Increasing Access to Care for Valvular Heart Disease from Diagnostics to Post-Operative Care in Rwanda
International Medical Volunteer Scholarship Award, $2,500

Supported by the generosity of:
2018 Travel Award Scholarship Recipients

Supported by the generosity of W.L. Gore & Associates, the following attended the 2018 STS/EACTS Latin America Cardiovascular Surgery Conference in Cartagena, Colombia:

Omar Alonso, MD
Nuevo Leon, Mexico

Jorge Israel Leyva-Villegas, MD
Nuevo Leon, Mexico

Pablo Anibal Alterini, MD
Entre Rios, Argentina

Nestor J. Medeot, MD
Cordoba, Argentina

Cesar N. Benitez Pozo, MD
Guayas, Ecuador

Maria Andrea Medina, MD
Bogota, Colombia

Norberto César Blanco, MD
Buenos Aires, Argentina

Diego Bernardo Ortega Zhindón, MD
Mexico City, Mexico

Manuel Roque Cervetti, MD
Buenos Aires, Argentina

Leonardo Paim, MD
Sao Paulo, Brazil

Nestor Manuel Clusa, MD
Buenos Aires, Argentina

Juan Carlos Parra Mendoza, MD
Buenos Aires, Argentina

Suheidy De La Hoz Dominguez
Barranquilla, Colombia

Francisco Mauricio Rincón, MD
Bogota, Colombia

Debora Klein Ferreira, MD
Rio Grande do Sul, Brazil

Josías Caleb Ríos Ortega, MD
Lima, Peru

Marcelo J. Figueroa, MD
Cordoba, Argentina

Raquel Vega Hernandez, MD
Nuevo Leon, Mexico

Jesus Garcia Pinzas, MD
Lima, Peru

Andy W. Zevallos, MD
Lima, Peru

Manuel Giraldo Grueso, MD
Bogota, Colombia

STS/EACTS Award

Michael O. Kayatta, MD
Emory University
The David V Valve Sparing Aortic Root Replacement Provides Equivalent Long-Term Outcomes in Patients with Bicuspid and Trileaflet Aortic Valves.

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“...collaboratively support the TSF mission, to accomplish the goals of supporting and nurturing the next generation of cardiovascular and general thoracic surgeon-scientists. Your contributions will help to maintain and support a sustainable future for generations of surgical scientists in the field of cardiothoracic surgery.”

—Robert S.D. Higgins, MD, MSHA

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<table>
<thead>
<tr>
<th>OPTION</th>
<th>BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gift of appreciated assets</td>
<td>Income tax deduction</td>
</tr>
<tr>
<td>Charitable remainder unitrust</td>
<td>Payments and income tax deduction</td>
</tr>
<tr>
<td>Beneficiary designation</td>
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<td>Life estate</td>
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