



2025

ANNUAL REPORT



Sarver Heart
Center



MESSAGE FROM THE DIRECTOR

As I reflect on my first year as Director of the Sarver Heart Center and Chief of Cardiology at the University of Arizona, I am proud of the strides we have made in our clinical, research, and educational missions. Over the past year, we have strengthened our commitment to delivering world-class cardiovascular care, expanded our research portfolio, and launched innovative training programs to shape the next generation of leaders in cardiology. We've made significant progress in advancing patient care through our partnership with Banner — University Medical Center, where innovative treatments and a patient-centered approach continue to transform lives. The Center has grown in both reach and impact—securing new funding, and forging partnerships with academic institutions in the U.S. and across the globe.

These achievements would not have been possible without the dedication and support of our faculty, our staff, our volunteers, and our donors. Your passion, philanthropy, and collaboration have been instrumental in helping us elevate our role as a regional and national leader in cardiovascular health and research. I am deeply grateful for your continued partnership as we look ahead to even greater accomplishments in the years to come.

HESHAM A. SADEK, MD, PHD

ALLAN C. HUDSON & HELEN LOVAAS – ENDOWED CHAIR OF
CARDIOVASCULAR MEDICINE
DIRECTOR, SARVER HEART CENTER
PROFESSOR, MEDICINE AND CELLULAR AND MOLECULAR MEDICINE
CHIEF, DIVISION OF CARDIOLOGY



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Faculty & Staff



SHC LEADERSHIP



Hesham A. Sadek, MD, PhD

*Professor, Medicine | Cellular & Molecular Medicine
Chief, Division of Cardiology
Director, Sarver Heart Center
Allan C. Hudson & Helen Lovaas - Endowed
Chair of Cardiovascular Medicine*



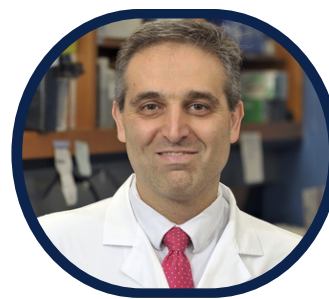
Sakthivel Sadayappan, PhD

*Professor & Department Head,
Cellular and Molecular Medicine
Associate Director, Sarver Heart Center
Czarina M. & Humberto S. Lopez
Endowed Chair*



Jil C. Tardiff, MD, PhD

*Professor, Medicine | Cellular and
Molecular Medicine
Steven M. Gootter Endowed Chair for
the Prevention of Sudden Cardiac Death
Associate Director, Sarver Heart Center*



Hossein Ardehali, MD, PhD

*Associate Dean, Translational Research
College of Medicine - Tucson
Director, Medical Science Training
Program
Associate Director, Sarver Heart Center*

SHC EXECUTIVE TEAM



Mia Gonzales

*Administrative Manager &
Special Assistant to the Director*



Cara Deery, MPH

*Senior Program Manager,
Outreach & Education*

Sparkling Innovation

Research Faculty & Labs



NEW RESEARCH FACULTY



Tara Tassin, PhD

*Instructor,
Department of Medicine*



Luke Szweda, PhD

Professor, Medicine



Waleed Elhelaly, MD, PhD

*Instructor,
Department of Medicine*



Iván Menéndez-Montes, PhD

*Instructor,
Department of Medicine*



**Asaithamby
Aroumougame, MD, PhD**

Associate Professor, Medicine



Nicholas Lam, PhD

*Instructor,
Department of Medicine*



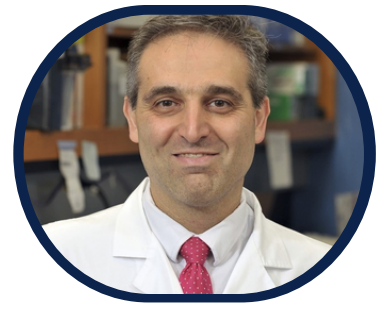
Ayman Farag, PhD

*Instructor,
Department of Medicine*



Shibani Mukherjee, PhD

Assistant Professor, Medicine



Hossein Ardehali, MD, PhD

*Associate Dean, Translational Research
College of Medicine - Tucson
Director, Medical Science Training
Program
Associate Director, Sarver Heart Center*

RESEARCH FACULTY

A TO Z



Qin Chen, PhD

*Professor | Director | Holsclaw
Endowed Chair - Pharmacogenomics*



Jared Churko, PhD

*Associate Professor,
Cellular and Molecular Medicine
Director, iPSC Core*



Brett Colson, PhD

*Associate Professor,
Cellular and Molecular Medicine*



Steven Goldman, MD

*Professor, Medicine
C. Leonard Pfeiffer Chair,
Cardiovascular Medicine*



Henk Granzier, PhD

*Professor, Cellular and Molecular
Medicine | Molecular and Cellular
Biology | Physiology
Norville Endowed Chair*



Shanna Hamilton, PhD

*Assistant Professor,
Cellular and Molecular Medicine*



Samantha Harris, PhD

*Professor, Physiology
Associate Professor, Cellular and
Molecular Medicine*



John Konhilas, PhD

*Professor, Physiology
Associate Professor, Cellular and
Molecular Medicine | Nutritional
Sciences*



Mingyu Liang, MB, PhD

*Chair, Physiology
Director, Molecular Systems Medicine
Initiative
Professor, Physiological Sciences*

RESEARCH FACULTY

A TO Z



Coen Ottenheijm, PhD

*Associate Professor,
Cellular and Molecular Medicine*



Christopher Pappas, PhD

*Assistant Research Professor,
Cellular and Molecular Medicine*



Paolo Pires, PhD

*Assistant Professor,
Physiology | Surgery*



Benjamin Renquist, PhD

*Associate Professor,
Animal & Comparative
Biomedical Sciences*



Casey Romanoski, PhD

*Associate Professor,
Cellular and Molecular
Medicine*



Nikola Sladojevic, MD, PhD

Assistant Research Professor



Marvin Slepian, MD

*Regents Professor,
Medicine | Medical Imaging,
Biomedical Engineering*



Taejong Song, PhD

*Assistant Research Professor,
Cellular and Molecular Medicine*



Craig Weinkauff, MD, PhD

*Associate Professor, Surgery
Member of the Graduate Faculty*



**Andreia Zago Chignalia, PhD,
PharmD**

*Associate Professor, Physiology |
Clinical Translational Sciences*

NEW RESEARCH LABS



- **Ardehali Lab**

The Ardehali lab works on two major projects: 1) role of iron in cardiovascular disease and how this element alters the function of immune cells, and 2) how hexokinase enzymes regulate the fate of glucose through their complex structure.

- **Sadayappan Lab**

The Sadayappan lab focuses on the role of myosin binding protein-C (MyBP-C) in the structure, regulation, and function of striated muscles in both cardiac and skeletal tissues.

- **Aroumougame Lab**

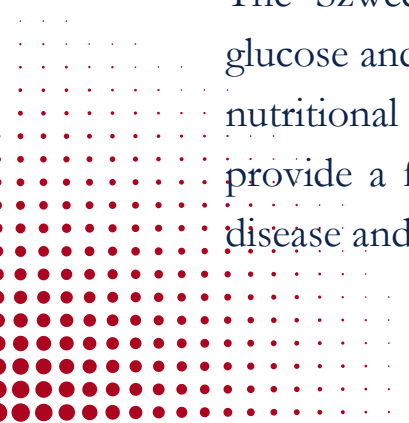
The Aroumougame lab studies mechanisms of DNA damage in cardiac pathologies and investigates methods of preventing and reversing DNA damage.

- **Sadek Lab**

The Sadek lab focuses broadly on heart failure, including regulation of cardiomyocyte cell cycle as a path to heart regeneration, and mechanisms and therapeutics of genetic cardiomyopathies.

- **Szweda Lab**

The Szweda laboratory investigates mechanisms by which cardiac glucose and fatty acid oxidation are regulated in response to changes in nutritional status, energetic demand, and time-of-day. These studies provide a foundation for identifying metabolic determinants of heart disease and interventions to promote heart health.



SHC CLINICAL RESEARCHERS



Lizzette Cruz, MS, RN

*Associate Director
Cardiovascular Clinical Research*



Cindy Schrag

*Research Specialist,
Cardiovascular Clinical Research*



Karina Carillo

Clinical Research Coordinator I



Kitsie Johnson

*Coordinator,
Cardiovascular Research*

Lifesaving Care

Clinical Faculty



CLINICAL LEADERSHIP



James K. Liao, MD, FACP, FACC

Professor, Medicine

Chair, Department of Medicine

The Robert S. and Irene Flinn

Endowed Chair in Medicine

Member of the Graduate Faculty



Hesham A. Sadek, MD, PhD

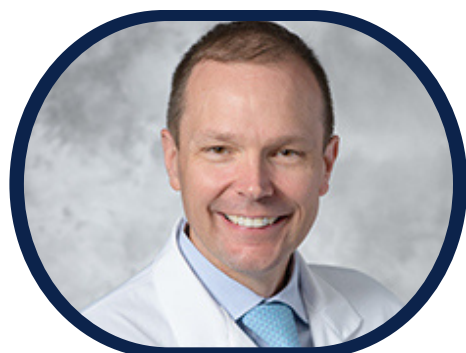
Professor, Medicine | Cellular & Molecular Medicine

Chief, Division of Cardiology

Director, Sarver Heart Center

Allan C. Hudson & Helen Lovaas -

Endowed Chair of Cardiovascular Medicine



Mat Hutchinson, MD

Professor

Vice Chair, Clinical Operations

Director, Cardiac Electrophysiology



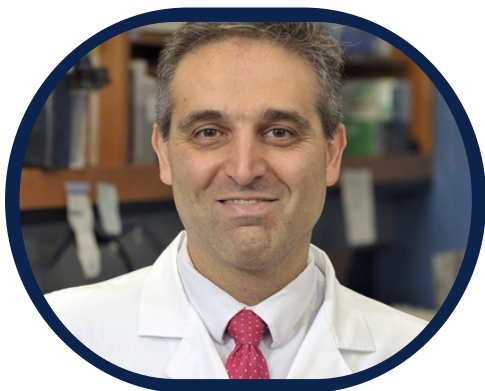
Elizabeth Juneman, MD

Professor, Medicine

Director, Heart Failure

Medical Director, Cardiovascular Service

NEW CLINICAL FACULTY



Hossein Ardehali, MD, PhD

*Associate Dean, Translational Research
College of Medicine - Tucson
Director, Medical Science Training
Program
Associate Director, Sarver Heart Center*



Dexter DeLeon, MD

*Assistant Clinical Professor
General Cardiology*



Iniya Rajendran, MD

*Assistant Clinical Professor
General Cardiology*

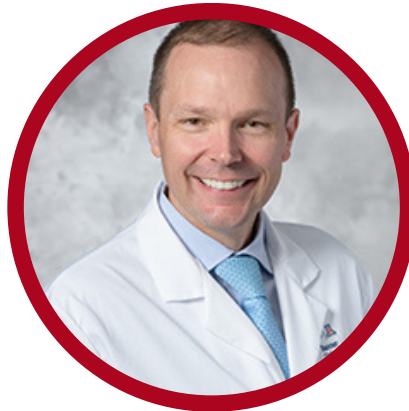


Sulaiman Rathore, MD

*Assistant Clinical Professor
Interventional Cardiology*

CLINICAL FACULTY

CARDIAC ELECTROPHYSIOLOGY



Mat Hutchinson, MD

Professor

Director, Cardiac Electrophysiology



Julia Indik, MD, PhD

Professor



Peter Ott, MD

Associate Professor



Talal Moukabary, MD

*Director,
Cardiac Rehabilitation Program
Associate Professor*



Aadhavi, Sridharan, MD

Assistant Professor



Sarah Voll, APP

CLINICAL FACULTY

ADVANCED HEART FAILURE



Elizabeth Juneman, MD

Professor

*Director, Advanced Heart Failure & Cardiac Transplant
Medical Director, Cardiovascular Service*



Deepak Acharya, MD

Professor



Saad Kubba, MD

Assistant Professor



Anne P. Flanagan, APP



Sharon Gregoire, APP



Alexandra McGlamery, APP



Sharon Powell, APP



Juvel-lou Velasco, NP

CLINICAL FACULTY

INTERVENTIONAL CARDIOLOGY



Madhan Sundaram, MD

Associate Professor
Director, Interventional Cardiology



Deepak Acharya, MD

Professor



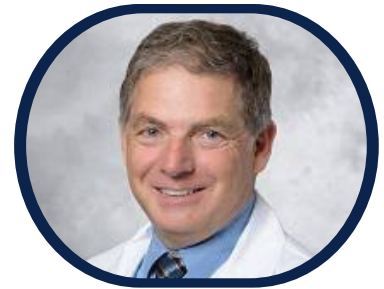
Arka Chatterjee, MD

Associate Professor



Michel Corban, MD

Associate Professor



Craig Hoover, MD

Clinical Assistant Professor



Allison Klatt, FNP



Keng Pineda, MD

Assistant Professor



Nanda Pullela, MD

Assistant Professor



Ravi Vuthoori, MD

Assistant Professor

CLINICAL FACULTY

GENERAL CARDIOLOGY



Tushar Acharya, MD
Assistant Professor
Director, General Cardiology



Joseph Alpert, MD
Professor



Olivia Hung, MD, PhD
Associate Professor



Rajesh Janardhanan, MD
Professor
Director, Cardiovascular Imaging



Saad Kubba, MD
Assistant Professor



Amitoj Singh, MD
Assistant Professor



Satinder Singh, MD
Assistant Professor



Marvin Slepian, MD
Professor



Jil Tardiff, MD, PhD
Professor



Gerald Wolff, MD
Associate Professor



Jerome Yatskowitz, MD
Associate Professor



Judith Lyle, FNP



Rachel Ramirez, AGACNP

CLINICAL FACULTY

CARDIOTHORACIC SURGERY



Scott Silvestry, MD, FACS
Clinical Associate Professor
Division Chief, Cardiothoracic Surgery



Kenneth Fox, MD, FACS
Clinical Associate Professor



Toshinobu Kazui, MD, PhD
Associate Professor



Christopher Komanapalli, MD
Clinical Associate Professor



Jonathan Rice, MD, PhD
Clinical Assistant Professor



Praveen Sridhar, MD
Clinical Assistant Professor



**Stephanie Worrell, MD,
FACS**
Associate Professor

DEPARTMENT OF MEDICINE EXECUTIVE TEAM



Pat Chen
Department Administrator



Cynthia Campas
Associate Administrator



Nicole Contreras
Division Manager



Naphtali Kahl
*Director, Cardiology
Banner*



Scott Hall
*Associate Director, Clinical
Division - Banner
Endocrinology, Nephrology, and
Cardiology*

CARDIOLOGY ADMINISTRATIVE SUPPORT STAFF



Dawn Henderson
Administrative Staff Lead



Tonya Carney
*Office Coordinator
Banner*



Leilani Garcia
*Administrative Assistant
Banner*



Veronica Meredith
*Administrative Assistant
Banner*

COLLEGE OF MEDICINE - TUCSON

FINANCE AND BUSINESS AFFAIRS PODS - SARVER HEART CENTER TEAM



Christa Hamilton
*Administrative Operations
Manager*



Laura Doerr
Administrative Support Assistant

CLINICAL EXCELLENCE



133,996
CARDIOLOGY PATIENTS
TREATED IN 2024



8,349
NEW PATIENTS
TREATED VS.2023

43%

INCREASE IN ADVANCED
HEART FAILURE REFERRALS

120%

INCREASE IN LVAD/DURABLE
MCS REFERRALS

90.3%

PROVIDER LIKELIHOOD TO
RECOMMEND

16

AVG HOURS TO
ECHOCARDIOGRAPH
TURNAROUND

CLINICAL EXCELLENCE

GENERAL CARDIOLOGY

- Opening of Tanque Verde Cardiology Clinic including echo services.
- 33,000 clinic visits in 2024
- Over 600 new patient visits per month

ECHO

- 10% increase in echo lab volumes as compared to prior year.
- Record setting monthly > 1000 echo performed in March 2025.
- Perform most echos annual in Banner system annually.
- Expanded echo services to multiple ambulatory sites in Southern Arizona.
- Complete upgrade of software and all new hardware at all Banner sites in Southern Arizona

INTERVENTIONAL CARDIOLOGY

- 28% increase in total cath lab volumes as compared to prior year.
- Opening of Cardiovascular Ambulatory Surgery Center
- Increase in transvalvular aortic valve replacement (TAVR) (109 vs. 94) and mitral valve clip (25 vs. 6) volumes with strong clinical outcomes and star ratings.
- Increased cath cases at South Campus with plan to hire dedicated staff in 2025.

CLINICAL ACHIEVEMENTS

Dr. Arka Chatterjee completed the first TriClip (Tricuspid Clip) procedure.


Extracorporeal mechanical oxygenation (ECMO) program lead by Dr. Deepak Acharya recognized for best outcomes in Banner system.

ECMO is a life support technology that provides temporary assistant to heart and lungs when they are unable to function properly.

CLINICAL EXCELLENCE




ELECTROPHYSIOLOGY

- Increase in year-over-year ablation volume 22% for 2023 and 48% for 2024.
 - EP exceeded 7500 ambulatory visits at North and 3 outreach clinics
 - Increased growth in 3 ambulatory device clinics
 - First pulsed field AF ablation in Tucson April 2024
 - First atrial leadless and dual chamber leadless pacemakers in Tucson March 2025
- 




ADVANCED HEART FAILURE

- Largest comprehensive CardioMems program in Arizona.
 - Initiation of comprehensive barostimulator program in Southern Arizona
 - Increase in Advanced Heart Failure referrals (43% increase) and ambulatory clinic visits for heart failure (114% growth)
 - Increase in Durable MCS / LVAD referrals (120 % increase)
- 



PREVENTIVE CARDIOLOGY

- 5% increase in cardiac rehab volume as compared to prior year.
 - 600–700 visits/month, sustaining high clinical throughput.
 - Productivity consistently >100%, indicating full operational capacity and high demand.
- 



CLINICAL PROMOTIONS

- Dr. Elizabeth Juneman was promoted to *Professor, Clinical Scholar*
 - Dr. Michel Corban was promoted to *Associate Professor, Clinical Scholar*
 - Dr. Olivia Hung was promoted to *Associate Clinical Professor*
- 

Advancing Science

2 Research Publications



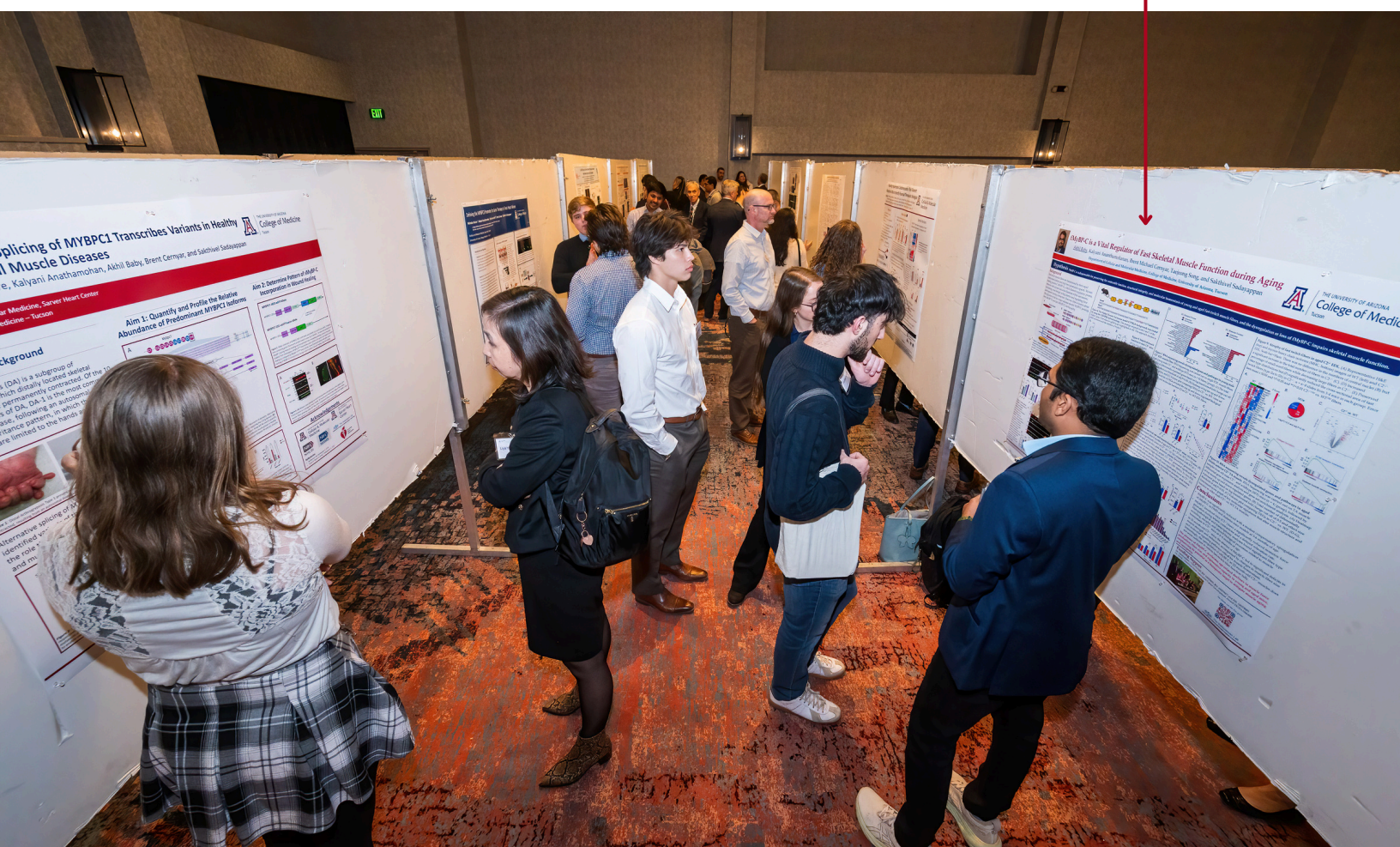
FY25 PUBLICATIONS

118 TOTAL PUBLICATIONS HIGHLIGHTS INCLUDE:

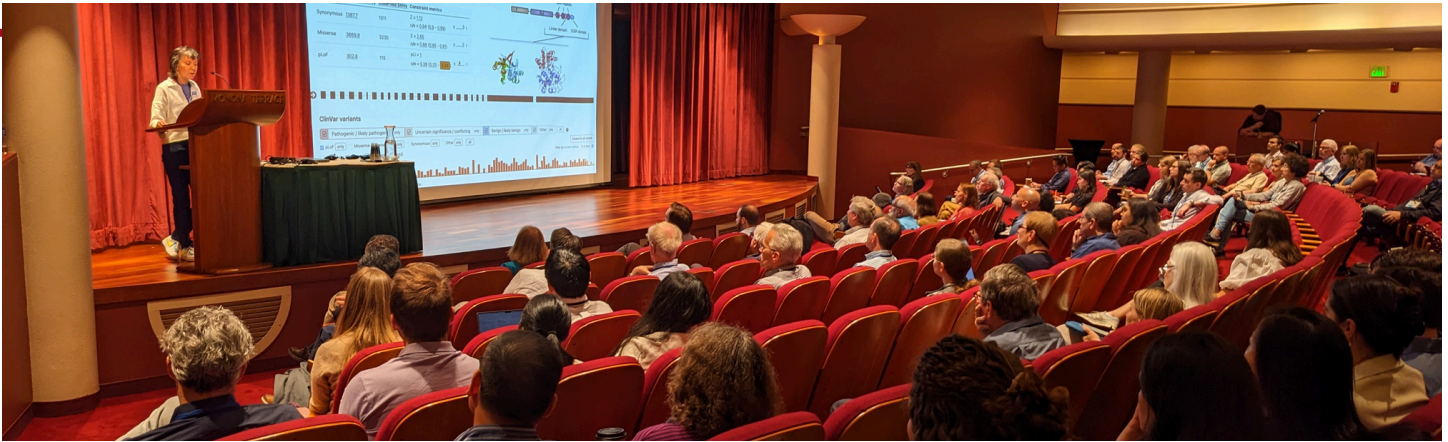
1. Awad, I. A., Alcazar-Felix, R. J., Stadnik, A., Kinkade, S., Jhaveri, A., Lee, J., **Liao, J. K.**, ... Hanley, D. F. (2025). Safety and efficacy of atorvastatin for rebleeding in cerebral cavernous malformations (AT CASH EPOC): a phase 1/2a, randomised placebo-controlled trial. *The Lancet Neurology*, 24(4), 295–304. [https://doi.org/10.1016/S1474-4422\(25\)00036-5](https://doi.org/10.1016/S1474-4422(25)00036-5) (*Impact Factor: 46.5*)
2. Butters, A., Thomson, K., Harrington, F., Henden, N., McGuire, K., Byrne, A. B., **Tardiff, J. C.**, ... Ingles, J. (2025). A rare splice-site variant in TNNT2: the need for ancestral diversity in genomic reference data sets. *European Heart Journal*. Advance online publication. <https://doi.org/10.1093/eurheartj/ehaf001> (*Impact Factor: 38.1*)
3. Fahim, S. A., Ragheb, M., Fayed, I. H., Osama, A., Karam, A., Magdeldin, S., **Sadek, H. A.**, ... Abdelaziz, A. I. (2025). Interaction Between Malat1 and miR-499-5p Regulates Meis1 Expression and Function with a Net Impact on Cell Proliferation. *Cells*, 14(2), 125. <https://doi.org/10.3390/cells14020125> (*Impact Factor: 66.9*)
4. Lancaster, J. J., Grijalva, A., Fink, J., Ref, J., Daugherty, S., Whitman, S., ... **Goldman, S.** (2023). Biologically Derived Epicardial Patch Induces Macrophage Mediated Pathophysiologic Repair in Chronically Infarcted Swine Hearts. *Nature Biologic Communications*. Advance online publication. <https://doi.org/10.1038/s42003-023-05564-w> (*Impact Factor: 5.9*)
5. French, S. R., Meyer, B. P., Arias, J. C., Levendovzsky, S. R., & **Weinkauff, C. C.** (2025). Biomarkers of blood-brain barrier and neurovascular unit integrity in human cognitive impairment and dementia. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(3), e70104. <https://doi.org/10.1002/alz.70104> (*Impact Factor: 16.7*)
6. Van der Pijl R. J., Ma W., Lewis C. T. A., Haar L., Buhl A., Farman G. P., Rhodehamel M., Jani V. P., Nelson O. L., Zhang C., ... **Granzier, H.** (2024) Increased cardiac myosin super-relaxation as an energy saving mechanism in hibernating grizzly bears. *Mol Metab* 92: 102084 Doi 10.1016/j.molmet.2024.102084 (*Impact Factor: 7.0*)
7. Tryon, D., **Corban, M. T.**, Alkhouli, M., Prasad, A., Raphael, C. E., Rihal, C. S., Reeder, G. S., Lewis, B., Albers, D., Gulati, R., & Lerman, A. (2024). Coronary Sinus Reducer Improves Angina, Quality of Life, and Coronary Flow Reserve in Microvascular Dysfunction. *JACC. Cardiovascular interventions*, 17(24), 2893–2904. <https://doi.org/10.1016/j.jcin.2024.09.018> (*Impact Factor: 11.7*)
8. Sukhvasi, K., Mocci, G., Ma, L., Hodonsky, C. J., Diez Benevante, E., Muhl, L., Liu, J., Gustafsson, S., Buyandelger, B., Koplev, S., Lendahl, U., Vanlandewijck, M., Singha, P., Örd, T., Beter, M., Selvarajan, I., Laakkonen, J. P., Väli, M., den Ruijter, H. M., Civelek, M., **Romanoski, C.**,... Björkegren, J. L. M. (2025). Single-cell RNA sequencing reveals sex differences in the subcellular composition and associated gene-regulatory network activity of human carotid plaques. *Nature cardiovascular research*, 4(4), 412–432. <https://doi.org/10.1038/s44161-025-00628-y> (*Impact Factor: 9.4*)
9. Silva, J. F., Polk, F. D., Martin, P. E., Thai, S. H., Savu, A., Gonzales, M., Kath, A. M., Gee, M. T., & **Pires, P. W.** (2025). Sex-specific mechanisms of cerebral microvascular BKCa dysfunction in a mouse model of Alzheimer's disease. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(2), e14438. <https://doi.org/10.1002/alz.14438> (*Impact Factor: 13*)
10. Liu, Y., Yi, J., Wu, P., Zhang, J., Li, X., Li, J., Zhou, L., Liu, Y., Xu, H., Chen, E., Zhang, H., **Liang, M.**, Liu, P., Pan, X., & Lu, Y. (2024). Wemics: A Single-Base Resolution Methylation Quantification Method for Enhanced Prediction of Epigenetic Regulation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 11(21), e2308884. <https://doi.org/10.1002/advs.202308884> (*Impact Factor: 14.1*)

Advancing Science

3 Scientific Education Programs



Major Events



Myofilament Meeting

The 16th biennial meeting took place in Madison, Wisconsin, supported by the Sarver Heart Center's Molecular Cardiovascular Research Program. SHC faculty members **Henk Granzier, PhD**, **Brett Colson, PhD**, **Jil Tardiff, MD, PhD**, and 17 SHC trainees were selected to present at the meeting. As outgoing director, Rick Moss, PhD, appointed Dr. Granzier to lead future meetings, which will now be hosted in Tucson by the Sarver Heart Center.



Stanford-Morehouse-UAB-UA Symposium

The 2024 Stanford-UAB-Morehouse-UA Cardiovascular Research Symposium united researchers, clinicians, and trainees to share cutting-edge advancements in cardiovascular science at Stanford University. Six University of Arizona researchers presented, including **Michael Abecassis, MD**, Dean of the College of Medicine – Tucson, **Jim Liao, MD**, Chair of the Department of Medicine, Hesham A. Sadek, MD, PhD, Director of the Sarver Heart Center, **Jil Tardiff, MD, PhD**, Associate Director of the Sarver Heart Center, and others. The event fostered collaboration and mentorship for early career investigators across institutions.

Inaugural Cardiovascular Research Symposium



The inaugural **Sarver Heart Center Cardiovascular Research Symposium** showcased groundbreaking research with expert speakers from the University of Arizona, UT Southwestern, and CNIC Madrid. Through lectures and poster presentations, the event promoted collaboration and advanced dialogue in cardiovascular science, propelling the Sarver Heart Center into a new chapter of scientific leadership under Dr. Hesham A. Sadek's direction.

The event included:

- 118 attendees
- Opening Keynote event featuring one-hour talk from UT Southwestern's **Eric Olson, PhD**, with introductory remarks from **Dean Michael Abecassis, MD, MBA**, hosted at UArizona Health Sciences Innovation Building
- Talks from 18 speakers from UA, UTSW, and Spanish National Center for Cardiovascular Research
- Poster session featuring 54 trainees and early career investigators
- Guided hike with **Henk Granzier, PhD**, through Sabino Canyon
- Conference dinner for speakers and special guests

Sarver Grand Rounds

In January 2025, Sarver Heart Center Grand Rounds was revitalized by the fellows and fellowship program coordinator, featuring internal speakers to present 60-minute CME sessions on various topics in cardiology. This program provides opportunities for faculty and trainees to hone their presentation skills while deepening their knowledge on cardiovascular topics by learning from their colleagues.

Schedule of Presenters:

- **7-Jan:** QI/MM, *Dr. Rajendran*
- **14-Jan:** The Hope and Hype of Heart Regeneration, *Dr. Sadek*
- **21-Jan:** Statistics: Basic Concepts and Testing, *Dr. Indik*
- **28-Jan:** Transcatheter Aortic Valve Replacement and Conduction Abnormalities, *Fellow Josh Epstein*
- **11-Feb:** Cancer Therapeutics Related Cardiac Dysfunction, *Fellow Matthew Wu*
- **18-Feb:** Outcomes of Anticoagulation in Post Operative Atrial Fibrillation following Non-Cardiac Surgery, *Fellow Abdul Olagunju*
- **25-Feb:** NSTEMI in elderly presentation, *Fellow Alvaro Altamirano Ufion*
- **4-Mar:** Basics of Regression Analysis, *Dr. Indik*
- **11-Mar:** Presenting at Journal Club, *Fellow Christy Loughheed*
- **25-Mar:** Carotid artery pathology/PAD, *Dr. Zhou*
- **1-Apr:** New Treatment for Heart Failure: Immune Modulation, *Dr. Goldman*
- **8-Apr:** Hypertrophic Cardiology in 2025: Linking Molecular Mechanisms to Patient Management - the Search for Novel Targets, *Dr. Tardiff*
- **15-Apr:** Sarver Grand rounds lecture, *Fellow Pallabi Shrestha*
- **22-Apr:** Sleep disorders and cardiovascular disease, *Dr. Salma Patel*
- **29-Apr:** Peripartum Cardiomyopathy, *Dr. Juneman*
- **6-May:** Pulmonary disorders impacting CV system, *Dr. Richard*
- **13-May:** CTEPH, *Dr. Seckler*
- **20-May:** Image QI/MM, *Dr. Rajendran*
- **27-May:** Imaging QI, *Dr. Richard*

MCRP: Molecular Cardiovascular Research Program



Henk Granzier, PhD

Director, MCRP

The **Molecular Cardiovascular Research Program (MCRP)** focuses on advancing knowledge of the biological and molecular mechanisms underlying heart and skeletal muscle function, cardiovascular disease, and related conditions. Founded in 2006, MCRP operates from the 3rd floor of the Medical Research Building on the Arizona Health Sciences Center Campus. The program emphasizes both basic and translational research, striving to transform scientific discoveries into clinical applications to improve the treatment and prevention of cardiovascular diseases.

In its collaborative "open-lab" environment, researchers employ a wide range of interdisciplinary methods, including Developmental Biology, Cellular, and Molecular Biology, Biophysics, Physiology, Genetics, Bioengineering, Proteomics, live-cell imaging, and computational biology.

MCRP integrates its expertise with other leading research entities at the University of Arizona, including the Sarver Heart Center, the BIO5 Research Institute, and various departments within the Arizona Health Sciences Center.

MCRP provides a robust training environment for undergraduates, medical students, graduate students, postdoctoral fellows, and residents. Its research is supported by the National Institutes of Health (10 R01 grants, F31/32), the American Heart Association (pre- and post-doctoral training grants, career development grants), private donations, and other granting agencies.

MCRP Research Labs:

Churko | Colson | Granzier | Hamilton | Harris | Konhilas | Ottenheijm
Pappas | Sadayappan | Tardiff

MCRP Core Facilities:

- **University of Arizona Phenotyping Core (UAPC):** provides resources to investigate phenotypes of genetically altered animal models of disease. The phenotyping core offers investigators full-service support of in vivo cardiovascular and physiology studies. **Dr. Marloes van der Berg** is the scientist who runs the core.
- **Genetic Engineering of Mouse Models (GEMM) Core:** provides full service - Gene to Whiskers- mouse genetic engineering services to MCRP researchers and beyond. As a full-service University Core, the GEMM Core provides guide RNA or vector design & construction, prior to production of the mice. **Dr. Georgiva** is the scientist who runs the core.
- **Viral Vector Core (VCC):** functions as a full-service unit for construct design and production, viral purification and titer quantification. It produces custom recombinant adenovirus, adeno-associated virus, and lentivirus. The core provides specialized knowledge and skills, and offers access to gene transfer, from isolated primary cell to whole animal levels. The core is run by a dedicated PhD-level Research Specialist (**Dr. Olga Alekhina**).

SHC SCIENTIFIC ADVISORY BOARD



Roger Hajjar, MD
Harvard Medical School



Litsa Kranias, PhD
*University of Cincinnati
College of Medicine*



Leslie Leinwand, PhD
University of Colorado Boulder



Elizabeth McNally, MD, PhD
Northwestern University



Eric Olson, PhD
*UT Southwestern
Medical Center*



Joe Wu, MD, PhD
Stanford Medicine

Educating Leaders

4 Cardiovascular Fellowship Programs



Program Overview:

- **Cardiovascular Disease:**
 - Three-year program established in 1988
 - 18 current fellows
- **Interventional Cardiology**
 - One-year program established in 2003
 - 2 current fellows
- **Clinical Cardiac Electrophysiology**
 - Two-year program established in 2017
 - 1 fellow
- **Advanced Cardiovascular Imaging**
 - One-year program established in 2024
 - 1 fellow

Program Lead:

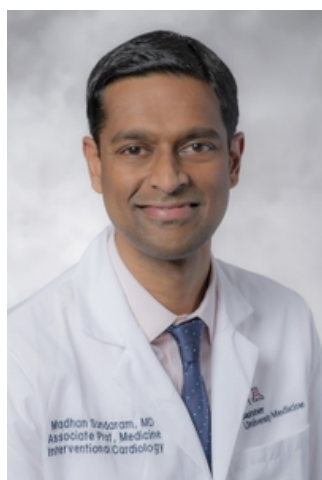


Christeana B. Castro

*Lead, Medical Education Program
Program Coordinator,
Cardiovascular Disease Fellowship*

New Fellowship Leadership Team

2024 saw revitalization of the cardiology fellowship program, with new leadership under **Dr. Madhan Sundaram**, the launch of the new Sarver Grand Rounds, and a restructuring of the fellowship training program to include built-in research rotations for all fellows. **Associate Directors, Dr. Julia Indik and Dr. Tushar Acharya**, are launching new educational opportunities, with Dr. Acharya heading a new Advanced Cardiovascular Imaging Fellowship program, which will train one advanced imaging fellow annually.



**Dr. Madhan
Sundaram**
*Program Director,
Cardiology Fellowship*



Dr. Julia Indik
*Associate Director,
Cardiology Fellowship*



Dr. Tushar Acharya
*Associate Director,
Cardiology Fellowship*



Dr. Deepak Acharya

Dr. Deepak Acharya has started a Research Initiative to create a centralized repository for all current and upcoming research projects. This initiative aims to facilitate easy access for staff and fellows, enabling them to quickly identify available research opportunities.

Incoming Match Class

New Matches:

In the 2024 fellowship match, the Sarver Heart Center recruited top candidates, including 3 MD, PhD physician-scientists. Overall, the program enrolled 9 new fellows in general cardiology, interventional cardiology and cardiovascular imaging.

Cardiovascular Disease: 6 fellows

- **Song Peng Ang, MD** - from Rutgers Health/Community Medical Center, Toms River, NJ
- **Wisam Beauti, MD** – from University of Cincinnati, Cincinnati, OH
- **Ikeotunye Chinyere, MD, PhD** - from University of Arizona, College of Medicine - Tucson
- **Ajay Kerai, MD** - from MedStar Health/Georgetown-Washington Hospital Center Program, Washington, DC, University of Alabama at Birmingham Hospital, Birmingham, AL (Advanced Heart Failure and Transplant Cardiology fellowship)
- **Gargya Malla, MBBS, PhD, MPH** - from University of Arizona, College of Medicine - Tucson
- **Simar Singh, MD, PHD, MS** - from University of Arizona, College of Medicine - Tucson

Interventional Cardiology: 2 fellows

- **Muhammad Ijaz Pervez, MBBS**- from University of Arizona, College of Medicine - Tucson
- **Sanjay Polisetty, MBBS** - from University of Arizona, College of Medicine - Tucson

Advanced Cardiovascular Imaging: 1 fellow

- **Khurram Butt, MBBS** - from University of Arizona, College of Medicine - Tucson

Current Fellows

36

Cardiovascular Diseases: PGY 4



Alvaro Altamirano Ufion, MD

*from Advocate Illinois Masonic
Medical Center, Chicago, IL*



Han Hanh, MD

*from University of Arizona,
College of Medicine - Tucson*



Heidi Messiha, MD

*from Medical College of
Wisconsin Affiliated Hospitals,
Milwaukee, WI*



Pallabi Shrestha, MD

*from University of Arizona,
College of Medicine - Tucson*



Matthew Wu, MD

*from University of Washington,
Seattle, WA*



Mahima Zandu, MBBS

*from University of Arizona
College of Medicine- Tucson*

Cardiovascular Diseases: PGY 5



Joshua Epstein, MD

*from University of Utah, Salt
Lake City, UT*



Dennis Fong, MD

*from University of Arizona,
College of Medicine - Tucson*



Bryant Hammershaimb, MD

*from Kaiser Permanente Los
Angeles Medical Center, Los
Angeles, CA*



Current Fellows

37

Cardiovascular Diseases: PGY 5



Nathaniel Kim, MD

*from Northwest Georgia Medical
Center, Gainesville, GA*



Christy Lougheed, MD

*from University of Arizona,
College of Medicine - Tucson*



Abdulbaril Olagunju, MD

*from Creighton University
School of Medicine, Phoenix,
AZ*

Cardiovascular Diseases: PGY 6



Joshua Beverly, MD

*from Harbor-UCLA,
Torrance, CA*



Khurram Butt, MBBS

*from Advent Health Orlando,
Orlando, FL*



Muhammad Ijaz Pervez, MBBS

*from Jacobi Medical Center/ Albert
Einstein College of Medicine
Program, Bronx, NY*



Sanjay Polisetty, MBBS

*from University of Arizona,
College of Medicine - Tucson*



Sharanyah Srinivasan, MBBS

*from University of Arizona,
College of Medicine - Tucson*



Sai Vanam, MD

*from University of California
San Diego, San Diego, CA*

Current Fellows

38

Interventional Cardiology



Seyedeh Maryam Hosseini, MD

*from University of Arizona,
College of Medicine - Tucson
& Fellowship – Mayo Clinic,
Phoenix, AZ*



Kishor Khanal, MD

*from Advent Health Orlando,
Orlando, FL & Memorial
HealthCare System, Hollywood,
FL*

Clinical Cardiac Electrophysiology



Jacob Klewer, MD

*from University of Utah, Salt Lake
City, UT & University of Arizona,
College of Medicine – Tucson*

Advanced Cardiovascular Imaging



Iniya Rajendran, MBBS, MPH

*from Boston Medical Center, Boston,
MA & University of Arizona,
College of Medicine - Tucson*



Graduating Class: 39

Next Steps

Cardiovascular Disease:

- **Dr. Joshua Beverly** will pursue interventional cardiology fellowship training at Johns Hopkins University School of Medicine
- **Dr. Khurram Butt** will pursue advanced cardiovascular imaging fellowship training at the University of Arizona, College of Medicine - Tucson
- **Dr. Muhammad Ijaz Pervez** will pursue interventional cardiology fellowship training at the University of Arizona, College of Medicine - Tucson
- **Dr. Sanjay Polisetty** will pursue interventional cardiology fellowship training at the University of Arizona, College of Medicine - Tucson
- **Dr. Sharanyah Srinivasan** will join the General Cardiology faculty at Banner University Medical Center - South
- **Dr. Sai Vanam** will join the General Cardiology faculty at Novant Hospital, Charlotte, NC

Interventional Cardiology:

- **Dr. Seyedeh Maryam Hosseini** will join the Interventional Cardiology faculty at Kaiser Hospital, Santa Rosa, CA
- **Dr. Kishor Khanal** will pursue structural fellowship training at Oregon Health and Science University, Portland, OR

Advanced Cardiovascular Imaging:

- **Dr. Iniya Rajendran** will join the Non-invasive General Cardiology faculty at Washington State

Recognizing Success

Fellows Awards



The winning team and their supporters: Drs. Muhammad “Ijaz” Pervez (far left), Khurram Butt (far right), and Abdulbaril Olagunju (second from right); joined by Sharanya Srinivasan, MBBS, and Iniya Rajendran, MBBS, MPH.

The **University of Arizona Division of Cardiology fellows team** achieved notable success in the 2025 American College of Cardiology (ACC) Fellows-in-Training (FIT) Jeopardy competitions.

In January, the team - comprising Drs. **Khurram Butt**, **Abdulbaril Olagunju**, and **Muhammad “Ijaz” Pervez** secured first place at the ACC Arizona Chapter FIT Jeopardy competition in Phoenix, outperforming other general cardiovascular fellowship teams in the state.

Their victory qualified them to represent Arizona at the national **ACC.25 FIT Jeopardy** competition held in March in Chicago. There, they advanced to the final round and finished as runners-up.

This accomplishment highlights the team's dedication and the strength of the University of Arizona's cardiology training program.

5 Fueling Innovation Funding



American
Heart
Association®



Harold S. Geneen Charitable Trust





GRANT FUNDING

\$51,076,952.00

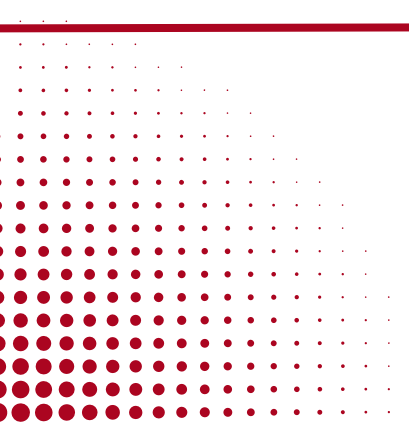
GRANT SUPPORT RECEIVED,
BASIC AND TRANSLATIONAL RESEARCH

\$156,913

GRANT SUPPORT RECEIVED,
CLINICAL RESEARCH

MAJOR SOURCES OF FUNDING:

- NATIONAL INSTITUTES OF HEALTH
- AMERICAN HEART ASSOCIATION
- FOUNDATIONS AND TRUSTS
- INDUSTRY



Philanthropy Fuels Wonder



In 2025, over **\$10.8 million** was raised to support Sarver Heart Center activities through the generosity of our local donors.

We are deeply grateful to our donors, who have supported the Sarver Heart Center for over 40 years, and are continuing to support our research and education missions. It is not an exaggeration to say that the Sarver Heart Center would not exist without their generous support, which is even more critical now during these uncertain times for biomedical research

\$10,858,130

DONOR CONTRIBUTIONS IN FY25

Giving Back to Science



From left, Dean Michael Abecassis, Ginny L. Clements, Tom Rogers, Director Hesham Sadek, and Humberto "Bert" S. Lopez

The Sarver Heart Center has entered a **bold new chapter** - one defined by collaboration, innovation, and a relentless pursuit of excellence in cardiovascular science. We are incredibly thankful to our donors for their continual support of our mission.

We are also proud to announce the **inaugural Jack Sarver Prizes in Clinical Science and Basic Science**. These awards support scientific advancement for a future free of heart disease by awarding funds to leading researchers in cardiovascular medicine and basic science research.

Jack Sarver Prize in Clinical or Basic Science:



American
Heart
Association

- These awards support independent cardiovascular researchers actively working in the fields of basic and clinical cardiovascular science.
- Awards includes \$3,500 honorarium and \$25,000 awarded to winners' institutions. Each runner up receives a \$1,200 honorarium and an engraved plaque.
- **To apply:** interested applicants should visit www.heart.org and search for the relevant Jack Sarver Prize for application instructions, deadlines, and more.



Sarver
Heart Center



Banner
University Medicine

45

Engaging Communities

Community Outreach





Leading the Way in CPR



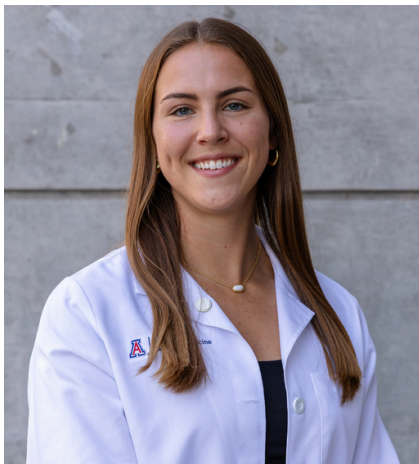
In 2003, researchers at the Sarver Heart Center pioneered chest-compression-only CPR, a lifesaving technique now recognized by the **American Heart Association** as the gold standard for bystander response.

Building on this legacy, our Center continues to lead impactful CPR education and outreach efforts across Arizona. Through community partnerships and public training events, we are committed to empowering individuals with the skills and confidence to save lives.

Leveraging partnerships with student groups at the University of Arizona- including the medical student-led group **REACT** (Resuscitation Education and CPR Training) and CPR trainers from **UA EMS**- the Sarver Heart Center provides free education throughout Greater Tucson, resulting in reports of lives saved with bystander intervention each year. Our partnership with the Tucson Roadrunners Hockey Team has included participation at their annual First Responders Night (seen above) where thousands have the opportunity to learn and practice hands-only CPR.

In 2025, the SHC will team up with the **Southern AZ American Heart Association** to develop cardiac emergency preparedness plans and train lifesavers at all **437 schools** in Greater Tucson.

REACT: Resuscitation Education And CPR Training



Lauren Heathcock, MS1
REACT Co-President, FY25



Jasmine Cooper, MS1
REACT Co-President, FY25

REACT (Resuscitation Education and CPR Training Group) is a student-led organization at the University of Arizona College of Medicine – Tucson, dedicated to providing free CPR training to the community. Supported by faculty advisor **Dr. Dan Beskind, MD, MPH**, who joined the UA Department of Emergency Medicine in 2002, REACT promotes life-saving skills throughout Southern Arizona to increase emergency preparedness. Dr. Beskind, a member of the Sarver Heart Center Resuscitation Research Group, helped discover chest-compression-only CPR in 2003. As an associate professor, EMS Director for Banner-UMC South Base Hospital, and Medical Director for Arizona Ambulance, Dr. Beskind also oversees REACT, guiding student leaders like Lauren and Jasmine who champion the Sarver Heart Center's mission to reduce sudden cardiac death. Through REACT, medical students gain valuable experience interacting with the community, fostering a culture of preparedness and engagement.

850 +

**PEOPLE TRAINED IN CCO CPR
BY REACT IN FY2025**

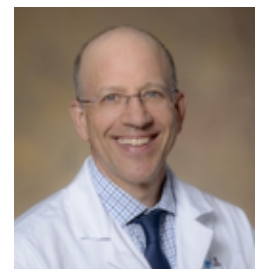
Daniel Beskind, MD, MPH, FACEP

Faculty Advisor, REACT

Associate Professor

EMS Director, Banner-UMC South Base Hospital

Medical Director, Arizona Ambulance



Community Engagement

May 2024:

- **2024 American Heart Association Heart Walk:** 25 Sarver Heart members walked to promote cardiovascular research and show their support of the AHA
- **Heart Healthy Camp for Kids:** SHC taught heart health basics to summer campers at the Tucson Village Farm.

June 2024:

- **Dr. Karl Kern on KVOA:** Sarver Heart Center member and co-founder of chest-compression only CPR, Dr. Karl Kern, interviewed on KVOA to share the lifesaving skill with the Greater Tucson community.
- **Dr. Ike Chinyere at AHA Breakfast in Red:** COM-T Resident and SHC research collaborator Ike Chinyere, MD, PhD, was a featured speaker at the 2024 Southern Arizona AHA Breakfast in Red, presenting “Updates in Cardiac Technology”.

October 2024:

- **SHC at AHA STEM goes Red:** SHC provided an interactive exhibit at a STEM event for high school girls at Pima Community College to increase awareness and interest in STEM careers.

November 2024:

- **Free CPR for UA Employees:** SHC collaborators in REACT taught CPR to roughly 50 UA employees

December 2024:

- **AHA Circle of Red Tour:** special tour developed for AHA Circle of Red donors to introduce Sarver Heart Center Director, priority areas, and key researchers, including Chair of Department of Medicine.
- **Free CPR Training for Gootter-Jensen Foundation AED Donation Recipients:** REACT CPR trainers offered free CCO CPR training to 3 organizations receiving AED donations from the Gootter-Jensen Foundation.

January 2025:

- **Southern AZ AHA Heart Ball:** the Sarver Heart Center purchased 2 tables, donating \$10,000 to the AHA. SHC clinicians, researchers, and staff attended the event to show support for the AHA and its initiatives.
- **Arizona Horizon Interview:** Dr. Sadek appeared live on Arizona Horizon at 5 PM and 10 PM from the PBS Studio at ASU’s downtown Phoenix campus, Walter Cronkite School of Journalism. During the interview, he discussed his current research at the University of Arizona Sarver Heart Center.



Cardiology fellow Dr. Sharanyah Srinivasan teaches chest-compression only CPR to high school students at Pima Community College

Community Engagement, Continued

February 2025:

- **National Wear Red Day:** Sarver Heart Center members dressed up in red to show their support for cardiovascular research and the American Heart Association's mission to cure heart disease.
- **John Konhilas, PhD at Foothills Forum:** Dr. John Konhilas, a member of the SHC Molecular Cardiovascular Research Program, presented research on cardiovascular disease and the microbiome at the Foothills Forum, a Tucson church-based group of senior men.
- **SHC at Fuel Wonder:** Researchers from the Sadek Lab and Dr. Sadek shared groundbreaking insights on cardiac regeneration with community members in Scottsdale, AZ at this Development event hosted at the Phoenix Biltmore Hotel.
- **Sarver Steppers at La Encantada:** the Sarver Heart Center launched a walking group in partnership with La Encantada Shopping Center, providing a safe and accessible exercise opportunity for Tucson community members. The group features regular "Doc Walks", enabling participants to connect and learn from SHC cardiologists in an informal setting.

March 2025:

- **Luke Szweda, PhD at Green Valley Recreation:** Dr. Szweda presented "Daily Rhythms in Cardiac Metabolism" at the Green Valley Recreation Center during a free event for adults 55 and older to learn about preventing heart disease.
- **SHC at Roadrunners First Responders Night:** the Sarver Heart Center joined REACT CPR trainers at the Tucson AHL Roadrunners annual First Responders Night for the third consecutive year to lead hands-on CPR training. A video demonstration of CCO CPR by Dr. Karl Kern was screened on the Jumbotron between periods. Estimated reach: 3,500
- **CPR at Tucson Festival of Books:** the Sarver Heart Center joined REACT CPR trainers at the annual Tucson Festival of Books, an event that attracted 130,000 visitors, to lead hands-on CPR training. An estimated 500 people were trained in CPR and AED implementation.
- **Raj Janardhanan, MD at Sarver Steppers Doc Walks:** (March 28th, 2025) SHC member and cardiologist, Dr. Rajesh Janardhanan, will host Doc Walks for the SHC walking group, the Sarver Steppers at La Encantada Shopping Center.



Luke Szweda, PhD presents on daily rhythms in cardiac metabolism at Green Valley Recreation Center

Community Engagement, Continued

April 2025:

- **AHA Breakfast in Red:** Shanna Hamilton, PhD gave a keynote talk on her research and career as a woman in STEM for community leaders at this annual AHA event.
- **2025 Southern Arizona AHA Heart Walk:** Sarver Heart members walked to promote cardiovascular research and show their support of the AHA.



Shanna Hamilton, PhD, gave the keynote talk at the 2025 AHA Breakfast in Red

FUTURE DIRECTIONS:

- **Arizona Heart Study:** modeled after the Dallas Heart Study, the Arizona Heart Study is a planned, population-based research initiative aiming to uncover genetic, environmental, and social determinants of cardiovascular disease across diverse communities in Arizona.
- **New Partnerships:** SHC will collaborate with faculty at the College of Public Health and the Andrew Weil Center for Integrative Medicine on impactful new health programs.
- **Edge Learning:** Cara Deery, MPH, is collaborating with MEZCOPH's Bridget Murphy, PhD, REACT (including faculty advisor, Dan Beskind, MD, MPH), and UA EMS to develop a free online training module integrating Stop the Bleed, Narcan, and CPR/AED implementation. This training will be available to all University affiliates, enhancing emergency preparedness across Arizona and potentially nationwide.
- **South Asian Community Outreach:** Dr. Hesham Sadek, Dr. Sakthivel Sadayappan, and Cara Deery, MPH, will develop targeted heart health promotion strategies for the South Asian community in Southern Arizona, who face elevated risk for cardiovascular disease.

Recognizing Success

Faculty & Staff Awards



Standing alongside Dean Michael Abecassis, Bert and Czarina Lopez, Dr. Sadayappan was named the Humberto and Czarina Lopez Endowed Chair for Excellence in Cardiovascular Research

Jil Tardiff, MD, PhD recognized as AAAS Fellow



Jil Tardiff, MD, PhD

Associate Director, Sarver Heart Center

Dr. Jil C. Tardiff, Professor of Biomedical Engineering, Professor of Medicine, and Steven M. Gootter Endowed Chair for the Prevention of Sudden Cardiac Death, was named a **Fellow of the American Association for the Advancement of Science (AAAS)** as part of its 2024 class. This prestigious recognition is awarded by the world's largest general scientific society, which also publishes the Science family of journals.

Dr. Tardiff, who also holds a secondary appointment in the College of Medicine - Tucson and maintains an active clinical practice, was honored for her pioneering research into the molecular mechanisms of hypertrophic cardiomyopathy - a genetic heart condition that can lead to heart failure and sudden cardiac death.

“One of the greatest mysteries of hypertrophic cardiomyopathy has always been understanding how genetics result in this complex, progressive disorder,” Dr. Tardiff noted.

She is one of four University of Arizona faculty members named AAAS Fellows in 2024.

Faculty Awards

- **Tushar Acharya, MD, MSPH** received the 2025 College of Medicine Faculty Mentoring award and the 2024 Consult Attending of the Year award
- **Joseph Alpert, MD** earned the title of lifetime Fellow of the Royal Society of Medicine, London and was elected to the Chairman's Leadership Committee, Department of Medicine, University of Arizona
- **Khurram Butt, MD** was the winner of ACC Jeopardy Arizona, representing Arizona at the national ACC Jeopardy, Chicago 2025
- **Michel Corban, MD** was recognized as #6 scholar worldwide in endothelial dysfunction by ScholarGPS
- **Steven Goldman, MD**, had his lab featured in the Arizona Daily Star article "UA Jumps in Ranking for Inventions Leading to Patents" for contributions to innovation of cardiac patch, and was also recognized for excellence in mentorship through "Student Contributions to Science" initiatives
- **Elizabeth Juneman, MD**, was recognized as a Tucson Top Doctor for the 8th year in a row
- **Henk Granzier, PhD**, earned the Marion J. Siegman Annual Award Lectureship at the American Physiology Summit in Long Beach, CA and was the 2024 Founders Day Speaker, College of Medicine – Tucson
- **Shanna Hamilton, PhD**, was made Co-Chair of the Cardiac Muscle Society Early Career Committee, the keynote speaker at the AHA Southern Arizona Breakfast in Red, and will mentor, Cole Bauer, an undergraduate student winning a spot on the AHA SURF program for a paid summer fellowship. He will present his work at the international AHA BCVS conference in July.
- **Raj Janardhanan, MD, MRCP, FACC, FASE** was the 2024 American Society of Echocardiography Social Media Champion

Awards, Continued

FACULTY AWARDS, CONTINUED:

- **Talal Moukabary, MD**, delivered the 2024 keynote lecture at the American Society for Cardiovascular and Pulmonary Rehabilitation
- **Nicholas Lam, PhD**, earned the American Heart Association Second Century Early Faculty Independence Award
- **Paolo Pires, PhD**, mentored researcher Felipe Polk, a PhD candidate who won the Best Graduate Student Abstract Award at the 2024 North American Vascular Biology Organization (NAVBO) Annual Conference in Monterey, CA
- **Amitoj Singh, MD**, was selected as Arizona leader on INCAPS 4 study, International Atomic Energy Agency and earned the title of Fellow of the American College of Cardiology
- **Marvin Slepian, MD, PhD**, earned the University Distinguished Innovation & Entrepreneurship Award from Interim Provost Marx
- **Jil Tardiff, MD, PhD**, was elected a Fellow of the American Association for the Advancement of Science (AAAS)

STAFF AWARDS

- **Mia Gonzales** earned the Brian Bateman Superb Award in recognition of her outstanding dedication and service to the Sarver Heart Center.
- **Cara Deery, MPH**, was accepted to pursue her PhD in Health Promotion Sciences at the University of Arizona and promoted to Senior Program Manager of Outreach and Education at the Sarver Heart Center.



The Goldman Lab accepts the Excellence in Mentorship Award on behalf of Dr. Goldman at UAZ BIOS



Sarver
Heart Center

Thank You



Dr. Henk Granzier and Dr. Hesham Sadek enjoying the beauty of Sabino Canyon during "Hiking with Henk," a highlight of the SHC Cardiovascular Research Symposium



This annual report is dedicated to
Charlotte Todd

in recognition of her 14 years of tireless service to the Sarver Heart Center.
We thank her for her many contributions and wish her all the best in retirement.

Contact us :

520 - 626 - 2000

www.heart.arizona.edu

heart@arizona.edu

2025

Contribute to Lifesaving Research, Education & Patient Care

Open your phone's camera and tap to
scan the QR code to contribute to
Sarver Heart Center success in 2026



Thank you for
supporting innovation!



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