### CARDIOVASCULAR RESEARCH INSTITUTE FALL 2022 NEWSLETTER



### FROM THE DIRECTOR



### Xander Wehrens, MD, PhD

Dear Colleagues,

As we enter the holiday season, I would like to highlight a few key events and announcements that are featured in this newsletter. The CVRI will host invited speaker Dr. Stanley Nattel from the University of Montreal for the third annual Dr. Mark L. Entman Distinguished Lecture in Cardiovascular Research. Dr. Nattel's seminar will be hosted on December 7, 2022, at noon in Cullen Auditorium. I hope to see you all there!

The CVRI is also kicking off the term 3 graduate school course entitled Cardiovascular Diseases (GS-DD-6210), which will run from January 3, 2023 until March 3, 2023. This course provides a general overview of the most common types of cardiovascular disease and is taught by CVRI faculty. Please alert your students, postdocs, and staff members to this course.

Additionally, I would like to congratulate CVRI Associate Director, Dr. Biykem Bozkurt, on her newly appointed role as Senior Dean of Faculty. As Senior Dean of Faculty, in addition to her former leadership role in the Office of Faculty Affairs and Faculty Development, Dr. Bozkurt will now also be responsible for the Office of Diversity, Equity, and Inclusion (DEI) and the Office of Professionalism.

Members of the CVRI have had numerous achievements that are highlighted throughout the Fall 2022 Newsletter. I look forward to what's to come throughout the remainder of the year!

Best wishes,

Xander Wehrens, MD, PhD

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### FACULTY SPOTLIGHT

### LARA SHEKERDEMIAN, MD

Texas Children's Hospital (TCH) houses a plethora of physicians, surgeons, and research faculty who are world-renowned leaders in pediatric cardiology, congenital heart surgery, cardiovascular anesthesiology, and cardiac intensive care. Ranking #2 in the nation by U.S. News & World Reports, TCH remains a top-notch hospital for pediatric care.

Recently, we caught up with Lara Shekerdemian, MD, who was announced in September as the Chair of the Department of Pediatrics at Baylor. Dr. Shekerdemian joined Baylor in 2011 and is a Professor of Pediatrics in the division of critical care and pediatrician-in-chief at TCH. She earned her medical degree from the University of Birmingham Medical School in the United Kingdom and trained in pediatrics, pediatric cardiology, and pediatric and adult intensive care in the U.K. and Toronto. She completed her research thesis on patients with congenital heart disease (CHD) who had cardiac surgery. Following completion of training, she moved to Melbourne, Australia to become the Chief of the Intensive Care Unit at The Royal Children's Hospital in Melbourne Australia where she worked on the Hearts and Mind Study and received a grant from the National Heart Foundation of Australia to study brain injury in children after cardiac surgery.

Currently, Dr. Shekerdemian is focused on outcomes research in patients who have gone through cardiac surgery. With the support of Dr. Daniel Penny, Chief of Pediatric Cardiology, Shekerdemian has built a cardiac developmental outcomes program. The program follows patients who have had cardiac procedures during the first six months of life throughout childhood into adulthood to study how they are progressing developmentally. The program is clinically relevant, providing a service to the patients that allows for early clinical interventions. Patients who have surgery receive MRI scans before and after, which has enabled the clinicians to develop a registry of scans to review for signals that identify risk and help to better time surgery. The database provides the opportunity to study various associations between vital signs, drug therapies, and assess changes in neurodevelopment in babies post-surgery.



Additionally, Dr. Shekerdemian is an investigator of the Baylor/Texas Children's Hospital Pediatric Heart Network (PHN). Baylor/Texas Children's is one of 9 core funded centers that seek to perform research from bench to bassinet, to childhood, to adulthood. The goal of the PHN at the TCH Heart Center is to evaluate therapeutic and management strategies for children and adults with congenital heart defects and for children with inflammatory disease, heart muscle disease, and arrhythmias through multicenter clinical research. TCH supports the program overall by utilizing its robust patient population for potential study enrollment in order to identify, enroll, and retain participants in multi- center clinical trials. Junior faculty are also afforded the opportunity to work on various studies and participate in writing committees as data are published.

accomplishments, Dr. Among many her Shekerdemian is most proud of the work that she has been able to do as Chair of the PHN Scholars Program, which offers funding awards for pilot studies to outstanding young researchers in the field of translational, clinical, health services, or epidemiological pediatric cardiovascular disease or adult congenital heart disease. The program is focused on career development to train the next generation of clinician-scientists in pediatric cardiology-related research. In her new role as department chair, Dr. Shekerdemian aims to build a strong team of clinicians and key people who will bolster the clinical efforts at TCH and strengthen an already exceptional clinical service in long-term cardiac care and in the ICU.

### MARTA GIL FERNÁNDEZ, MSc

Predoctoral International Female Scientist



In celebration of diversity, collaboration and multiculturalism among BCM students, CVRI highlights the next generation of brilliant female scientists.

Marta Gil Fernández is Integrative Physiology's international predoctoral fellow from the Universidad Autonoma of Madrid (UAM), Spain. In December 2022, she will complete her fellowship in the lab of Dr. Xander Wehrens at Baylor College of Medicine.

Marta received her Bachelor of Science in Biotechnology from the Universidad Politécnica de Madrid. She then persued a Masters in Science in Molecular Biomedicine at UAM with a specialization in Cardiovascular Pathology. Her MSc Dissertation focused on how "deficiency of NOD1 prevents cardiac calcium mishandling associated with experimental chronic kidney disease". Her mentors are Dr. María Fernández Velasco and Dr. Gema Ruiz Hurtado.

Currently, Marta is working towards her doctoral degree in molecular bioscience at UAM. Her research focuses on the 'Role of NOD1 receptor in atrial remodelling associated with heart failure'. She further explains that previous studies from her group demonstrated for the first time that NOD1 is expressed and is functional in the heart, playing a key role in the progression of various cardiovascular diseases, such as diabetic cardiomyopathy and atherosclerosis. Along this line, data from her group showed an up-regulation of NOD1 in both mouse and human ventricular failing myocardium. Their results have also established that the increased expression of NOD1 observed in failing human ventricles correlated inversely with left

ventricular ejection fraction and is related to a depressed ventricular function, pointing to a direct relationship between NOD1 and LV dysfunction.

In 2021, Marta was awarded a FPU fellowship by the Spanish government to study abroad. She chose the Wehrens lab specifically for its expertise in the study of intracellular mechanisms responsible for alterations in atrial rhythm and atrial fibrillation.

"Dr. Wehrens' lab team have been extremely kind, collaborative and helpful throughout my stay here. Dr. Wehrens has allowed me to perform all the experiments I proposed and has supported me in planning and organization. I've been able to continue my research to achieve the main objectives of my PhD thesis."

Though her time in Houston is brief, Marta is enjoying the diverse culture and art of the city, and the vast Texas Medical Center. Sports are her passion, and in her free time she enjoys tennis, golf and running.

In June 2023, Marta will present her PhD thesis.

By: Lane Carpio

*"I am really happy with my decision to come* to Baylor College of Medicine. Here, *I'm able* to leverage the expertise and knowledge of my hosts to achieve my PhD thesis objectives. Thanks to the Wehrens lab team, I have learned unique techniques that will contribute to my professional experience giving me valuable knowledge to continue my research career with enthusiasm and *commitment."* 

– Marta Gil Fernandez

### **HONORS AND AWARDS**



**Dr. Shaine Morris** was honored by the Marfan Foundation and received the **Hero** with a Heart Award at the 2<sup>nd</sup> Annual Heart works Gala Houston on Sept. 24, 2022.



Pictured: (L-R) Drs. Dianna Milewicz, Shaine Morris & Joseph Coselli





Scott LeMaire, MD Appointed President-elect of the Texas Surgical Society



The term as the 108th president will occur in 2024. Baylor College of Medicine faculty who are past presidents of the society include George Jordan, Jr., M.D.; Charles McCollum, M.D.; Kenneth Mattox, M.D.; and Joseph Coselli, M.D.

### **HONORS AND AWARDS**

Vaibhav Deshmukh (James Martin lab) and Justin Courson (Rolando Rumbaut lab) received 1<sup>st</sup> and 2<sup>nd</sup> place in the 2022 MicroWorld Top 10 Images competition from the American Society for Microbiology.



### Vaibhav Deshmukh

"Cytoskeleton of a dividing mouse myoblast."

C1C12 cells stained with alpha-tubulin (cyan), F-actin (orange) and DAPI (magenta).



### **Justin Courson**

#### "Fields of Blood"

This image depicts a field of red blood cells (red) found amongst cellular debris (blue) and covered in a thick layer of fibrin (brown). While this is considered to be a fibrin-rich clot, a pair of platelets (magenta) can still be seen peeking through the tangle in the bottom-most region of the image. This image was captured using a scanning electron microscope and pseudocolored in post  $(20 \times 20 \ \mu m)$ .



### **HONORS AND AWARDS**

#### CVRI Members Recognized by Clarivate as Highly Cited Researchers in 2022

These Highly Cited Researchers have demonstrated significant and broad influence reflected in their publication of multiple highly cited papers over the last decade. Their highly cited papers rank in the top 1% by citations for a field or fields and publication year in the Web Of Science.

#### Congratulations!!

- Christie Ballantyne, MD
- Richard Gibbs, PhD
- Joseph Petrosino, PhD

Category of Clinical Medicine Category of Cross-Field Category of Cross-Field Home to **Highly Cited Researchers** 2022

Clarivate"

**Dr. Lola Xie**, and **Dr. Ajith Nair**, Assistant Professors in Cardiology, along with Advanced Heart Failure fellow **Dr. Matthew Riesbeck**, successfully implanted the Cardionomics cardiac pulmonary nerve stimulator (CPNS). This is the 3rd implant by the BCM Advanced Heart Failure team of this novel device for the treatment of acute decompensated heart failure (ADHF). BCM is one of the 14 international sites for the STOP-ADHF study, which is evaluating the safety and efficacy of the CPNS system in patients with ADHF.



**Dr. Biykem Bozkurt,** Associate Director of the CVRI has recently assumed the role of Senior Dean of Faculty at BCM. In addition to her former leadership role in the Office of Faculty Affairs and Development, the Office of Diversity, Equity, and Inclusion (DEI) and the Office of Professionalism will fall under her purview. Dr. Bozkurt and leadership team members in these offices will lead initiatives to support the professional development, academic progression, and career advancement of Baylor faculty members through their faculty life cycle. These new initiatives are meant to enhance faculty's effectiveness as educators, clinicians, investigators, administrators, and leaders while fostering excellence in diversity, equity, and inclusion, and supporting the institutional mission.

### THE MARK L. ENTMAN, MD DISTINGUISHED LECTURE IN CARDIOVASCULAR RESEARCH



### Inflammatory Signaling in Atrial Cells-A Unifying Concept and Novel Therapeutic Target in Atrial Fibrillation?

### WEDNESDAY | DECEMBER 7, 2022

12:00 - 1:00 p.m. I Cullen Auditorium

Reception 1:00 – 1:45 p.m. | Rayzor Lounge

### STANLEY NATTEL, MD

Professor of Medicine Paul-David Chair in Cardiovascular Electrophysiology University of Montreal Director Electrophysiology Research Program Montreal Heart Institute

**Summary:** Recent work emanating from a variety of labs, including important contributions from Baylor, points to the novel idea that heart cells themselves can house inflammatory signaling that plays an important role in AF development. Evidence has emerged that components of the NLRP3 inflammasome system show enhanced priming and triggering in a range of clinical and experimental AF paradigms, and that NLRP3 activation may underlie the development of the substrate supporting AF in many different clinical contexts. Furthermore, there may be druggable targets based on this system that can be exploited clinically.

#### **Objectives:**

- To understand the basic features of the NLRP3 inflammasome system and the signs of its priming and activation.
- To appreciate the evolving literature about atrial cardiomyocyte-delimited inflammatory signaling and its potential role in AF.
- To learn about the concept of active inflammation resolution and the evidence suggesting that it might be able to be exploited therapeutically in AF.

The Mark L. Entman, MD, Distinguished Lecture in Cardiovascular Research was established in 2019 to honor Dr. Entman's extensive contributions to cardiovascular research at Baylor College of Medicine.

Hosted by the Cardiovascular Research Institute, this annual lectureship showcases leading experts from across the globe for the TMC and CVRI communities to advance cardiovascular science research and new collaborative opportunities. CME credit available.



#### MARK L. ENTMAN, MD

Professor & William J. Osher Chair in Cardiovascular Research Dept. of Medicine-Cardiovascular Sciences Scientific Director The DeBakey Heart Center Baylor College of Medicine

### **10<sup>th</sup> ANNUAL CVRI SYMPOSIUM**

Baylor College of Medicine

# SAVE THE DATE

Cardiovascular Research Institute (CVRI)

10TH ANNUAL SYMPOSIUM

## WEDNESDAY APRIL 5, 2023

### KEYNOTE SPEAKER

### Jeffery D. Molkentin, Ph.D.

Director, Divison of Molecular Cardiovascular Biology Executive Co-Director, Heart Institute Professor, University of Cincinnati Department of Pediatrics Cincinnati Children's Hospital Medical Center

> **ONE BAYLOR PLAZA** Cullen Auditorium

www.bcm.edu/cvri

### Baylor College of Medicine

TEXAS HEART<sup>®</sup>INSTITUTE

CARDIOVASCULAR

RESEARCH

INSTITUTE

## THE JAMES T. WILLERSON, MD CARDIOVASCULAR SCIENCES SEMINAR

*mod*RNA Therapeutics vs. hiPSC-derived Cell & Cell-products for Myocardial Repair in Large Mammals: Remuscularization of Injured Ventricle



### Jianyi Jay Zhang, MD, PhD

Professor Medicine & Engineering T. Michael and Gillian Goodrich Endowed Chair of Engineering Leadership Professor and Chair Biomedical Engineering University of Alabama at Birmingham

### **Objectives:**

At the conclusion of the session, participants should be able to :

- Describe novel applications of mRNA-based therapeutics.
- Review how cell and cell products could become treatment options for cardiovascular disease in the future.
- Discuss the major roadblocks in cardiac cell therapy and the potential approaches to overcome these problems.

### Host: Lilei Zhang, MD, PhD

The James T. Willerson, MD Cardiovascular Sciences Seminar Series is a collaborative program organized by the Texas Heart Institute & Cardiovascular Research Institute at Baylor College of Medicine. Together we aim to honor Dr. Willerson's significant contributions to cardiovascular science and education. This seminar series is at no cost to attend and is open to all interested in cardiovascular sciences. Email cvri@bcm.edu for further details. CME credit provided.

Location:

Wednesday

Dec. 14, 2022

11 am – 12 pn

1 Baylor Plaza DeBakey Center **Kleberg** Auditorium

### Fall 2022 James T. Willerson, MD Cardiovascular Sciences Seminar Series

We are grateful for a successful 2022 in-person fall seminar series and our partnership with the Texas Heart Institute. Thank you to our speakers, faculty, trainees, and staff for supporting the James T. Willerson, MD Cardiovascular Sciences Seminar Series.

August 31, 2022 <u>David Durgan, PhD</u> Assistant Professor Depts. of Integrative Physiology & Anesthesiology Baylor College of Medicine

"Blood Pressure Regulation: A Microbial Perspective"



Pictured (L-R) Drs. Xander Wehrens, Romain Harmancey, Heinrich Taegtmeyer & David Durgan

September 21, 2022 <u>Camila Hochman-Mendez, PhD</u> Assistant Investigator & Director Regenerative Medicine Research and Biorepository Core

"There and Back Again: From a Cadaveric to Bioengineered Heart"

**Texas Heart Institute** 



Pictured: (Front L-R) Drs. Camila Hochman-Mendez, Fernanda Paccola Mesquita & Xander Wehrens (Back L-R) Drs. Mark Entman, Darren Woodside & team members at the Texas Heart Institute

September 28, 2022 Zheng Sun, PhD

Associate Professor Depts. of Medicine, Endocrinology Diabetes and Metabolism; Molecular & Cellular Biology Baylor College of Medicine

"Circadian Clock, Dawn Phenomenon, Obesity Paradox"



Pictured (L-R) Drs. Zheng Sun, Heinrich Taegtmeyer, Mark Entman & Christie Ballantyne

October 12, 2022 <u>Mark Drazner, MD</u> Professor & James M. Wooten Chair in Cardiology Dept. of Internal Medicine UT Southwestern Medical Center

"The Clinical Examination in Patients with Heart Failure: New Insights"



Pictured: Fellows from the Texas Heart Institute

Pictured: (L-R) Drs. Mark Drazner & Xander Wehrens



Pictured: (L-R) Drs. Ajith Nair, Jamal Mahar & Lola Xie



Pictured: Jonathan Kirk, PhD

"Cardiac Sarcomere Protein Quality Control and BAG3: Repairing the Engine without Stopping the Car"

October 19, 2022 Jonathan Kirk, PhD

Associate Professor & Vice Chair

Cell and Molecular Physiology

Loyola University Chicago, Stritch

School of Medicine

October 26, 2022 <u>Daniel Rader, MD</u> Professor & Chair, Genetics University of Pennsylvania, Perelman School of Medicine

"A Genome -first Approach to Cardiometabolic Disease"



Pictured: Top row (L-R) Drs. AJ Marian, Baiba Gillard & Xander Wehrens Middle row: Drs. William Lagor, Daniel Rader, Carl Walther Bottom row: Drs. Christie Ballantyne, Henry Pownall November 2, 2022 <u>Kristin Stanford, PhD</u> Associate Professor, Physiology and Cell Biology Associate Director Diabetes Metabolism Research Center The Ohio State University College of Medicine

#### "New Mechanisms for Brown Adipose Tissue to Regulate Cardiovascular Health"



Pictured: (L-R) Drs. Kristin Stanford & Yuriana Aguilar-Torres



Pictured: (L-R) Drs.Yuriana Aguilar-Torres, Angela Chen, Yong Xu, Kristin Stanford, Xander Wehrens & BCM team members

#### November 30, 2022 Ken Walsh, PhD

Lockhart B. McGuire Professor Director,Hematovascular Biology Center Professor, Biochemistry & Molecular Genetics Cardiovascular Medicine Robert M. Berne Cardiovascular Research Center University of Virginia – School of Medicine

#### "Somatic Mosaicism, Clonal Hematopoiesis and Cardiovascular Disease"





Pictured: (L-R) Drs. A.J. Marian & Ken Walsh

Pictured: (L-R) Drs. Seyedmohammad Saadatagah, Christie Ballantyne, Ken Walsh & Na Li

### Spring 2023 James T. Willerson, MD Cardiovascular Sciences Seminar Series

The James T. Willerson, MD Cardiovascular Sciences Seminar Series continues in Spring 2023. In collaboration with Texas Heart Institute, these seminars are in-person and held at Baylor College of Medicine on select **Wednesdays at noon**. Visit the <u>CVRI website</u> for more seminars in the spring. CME credit is available to eligible attendees.

January 11



January 25



February 1



uary 1

### Kyle Eagen, PhD

Assistant Professor & CPRIT Scholar in Cancer Research Department of Molecular & Cellular Biology Center for Precision Environmental Health **Baylor College of Medicine** 

### Onur Kanisiak, PhD

Assistant Professor Department of Pathology & Laboratory Medicine University of Cincinnati College of Medicine

### Javid Moslehi, MD

Associate Professor in Residence Department of Medicine Chief Cardio-Oncology & Immunology Program **University of California San Francisco** 

March 8



### Jiang Chang, MD, PhD

Professor and Deputy Director, Chancellor EDGES Fellow Center for Genomic & Precision Medicine Institute of Biosciences and Technology Texas A&M University College of Medicine

March 15



### Romain Harmancey, PhD

Associate Professor Cardiovascular Medicine Department of Internal Medicine **University of Texas Health Houston McGovern Medical School** 

### **EDUCATION**

### Graduate School of Biomedical Sciences Cardiovascular Courses

The Cardiovascular Research Institute offers 3 graduate courses open to PhD students, postdocs, trainees, staff, and all others interested in cardiovascular sciences. Lectures are in person.

For those interested in these courses, there are 2 ways to sign up and participate.

- Enroll with the GSBS for full credit and grade (tests, surveys, and attendance required).
- Audit the course through GSBS for credit (surveys and attendance required for credit; no tests or letter grade assigned).

Email cvri@bcm.edu for further details

#### Term 3

#### Cardiovascular Diseases |GS-DD-6210

#### 2 Credits January 3 – March 3, 2023

Tues & Thurs | 10 - 11 AM

This course provides a general overview of the main, common cardiovascular diseases and their causes. Topics covered include atherosclerosis, hypertension, congenital heart disease, ischemic heart disease, cerebral stroke, cardiac arrhythmias, and the effects of aging on the cardiovascular system.

Course Director: Xander Wehrens, MD, PhD

#### Registration Nov. 21 - Dec. 2, 2022

### Term 4

#### Advanced Topics in Cardiac Pathophysiology & Disease | GS-DD-6403

**4 Credits** March 13 – May 12, 2023 Mon, Tues, Wed & Thurs | 9 – 10 AM This course covers the fundamentals of cardiac development, and cardiac function in both physiological and pathological conditions. The course will also discuss the cutting-edge research approaches used in cardiovascular research.

Course Directors: Na Li, PhD & Xander Wehrens, MD, PhD

Registration Feb. 13- 24, 2023

### Term 5

#### Advanced Topics in Vascular Pathophysiology and Disease | GS-DD-6403

 4 Credits
 May 22 – July 21, 2023
 Mon, Tues, Wed & Thurs | 9- 10 AM

This course covers the fundamentals of cardiac development, and cardiac function in both physiological and pathological conditions. The course will also discuss the cutting-edge research approaches used in cardiovascular research.

Course Directors: William Lagor, PhD & Xander Wehrens, MD, PhD

Registration April 24- May 5, 2023

### **AMERICAN HEART ASSOCIATION**



Webinars are available for futher information about upcoming AHA Research award offerings, application tips, and the peer review process.

Program Awards	Pre-proposal Deadline	Proposal Deadline	Award Start Date
Innovative Project Award Supports highly innovative, high-impact research that could ultimately lead to critical discoveries or major advancements that will accelerate the field of cardiovascular and/or cerebrovascular research. The idea proposed here should not have been submitted in whole or in part in a previous proposal for AHA support.	Dec. 2, 2022	Mar. 10, 2023	Jul. 1, 2023
AHA Institutional Research Enhancement Award (AIREA) Stimulates research at educational institutions that provide baccalaureate or advanced degrees related to scientific research training. Eligible institutions may not have been major recipients of NIH support. Awards provide funding for small-scale research projects related to cardiovascular diseases and brain health, enhancing the research environment at eligible institutions, and exposing students to research opportunities.		Dec. 7, 2022	Apr. 1, 2023
Career Development Award Supports highly promising healthcare and academic professionals in the early years of first professional appointment to assure the applicant's future success as a research scientist in the field of cardiovascular and/or cerebrovascular disease research.		Dec. 8, 2022	Apr. 1, 2023
<b>Research Supplement to Promote Diversity in Science</b> Under the mentorship of current AHA awardees, this mechanism supports research experiences for predoctoral and postdoctoral fellows from Trunderrepresented racial and ethnic groups in science.		Feb. 1, 2023	Apr. 1, 2023
Transformational Project Award Supports highly innovative, high-impact projects that build on work in progress that could ultimately lead to critical discoveries or major advancements that will accelerate the field of cardiovascular and/or cerebrovascular research. Research deemed innovative may be built around an emerging paradigm, approaching an existing problem from a new perspective, or exhibit other uniquely creative qualities.		Feb. 16, 2023	Jul. 1, 2023

### **ADDITIONAL FUNDING OPPORTUNITIES**

Funding Opportunity:	Application Deadline:
Pfizer Research Grant RFP 2022/2023 Global Cachexia ASPIRE*	Due: Thursday Jan. 5, 2023
National Medical Fellowships <u>NMF Diversity in Clinical Trials Research Program</u>	Due: Monday, Dec. 19, 2022
The Keith Michael Andrus Cardiac Research Award	LOI Due: Jan. 15, 2023
Lasker Foundation Awards Now accepting nominations for the 2023 Lasker Awards	Due: February 6, 2023



#### THE INTERNATIONAL SOCIETY FOR HEART AND LUNG TRANSPLANTATION

A Society that Includes Basic Science, the Failing Heart and Advanced Lung Disease.

Funding Opportunity:	Application Deadline:
Cardiogenic Shock Research Grant	January 16, 2023
Enduring Hearts Transplant Longevity Research Grant	January 16, 2023
O. H. Frazier Award in MCS Translational Research	January 16, 2023



Funding Opportunity:	Application Deadline:
Victor A. McKusick Fellowship Grant	January 31, 2023
Everest Grant	Letter of Intent Due: January 31, 2023



- **SCA/IARS Starter Grant**
- **SCA/IARS Mid-Career Grant**
- •
- SCA Diversity and Inclusion Grant

Application Deadline: January 27, 2023

### **SELECT PUBLICATIONS**



#### Share your work! Increase your impact!

Email <u>cvri@bcm.edu</u> with your latest publications and we will share it with our CV community on social media.

#### August 2022

Regalado ES, **Morris SA**, Braverman AC, Hostetler EM, De Backer J, Li R, Pyeritz RE, Yetman AT, Cervi E, Shalhub S, Jeremy R, **LeMaire S, Ouzounian M**, Evangelista A, Boileau C, Jondeau G, **Milewicz DM**. Comparative Risks of Initial Aortic Events Associated With Genetic Thoracic Aortic Disease. J Am Coll Cardiol. 2022 Aug 30;80(9):857-869.

Hill MC, Kadow ZA, Long H, Morikawa Y, Martin TJ, Birks EJ, Campbell KS, Nerbonne J, Lavine K, Wadhwa L, Wang J, Turaga D, Adachi I, Martin JF. Integrated multi-omic characterization of congenital heart disease. Nature. 2022 Aug;608(7921):181-191.

Fish JE, Flores Suarez CP, Boudreau E, Herman AM, Gutierrez MC, Gustafson D, DiStefano PV, Cui M, Chen Z, De Ruiz KB, Schexnayder TS, Ward CS, Radovanovic I, **Wythe JD**. Somatic Gain of KRAS Function in the Endothelium Is Sufficient to Cause Vascular Malformations That Require MEK but Not PI3K Signaling. Circ Res. 2020 Aug 28;127(6):727-743.

**Ouzounian M,** Tadros RO, Svensson LG, Lyden SP, Oderich GS, **Coselli JS.** Thoracoabdominal Aortic Disease and Repair: JACC Focus Seminar, Part 3. J Am Coll Cardiol. 2022 Aug 23;80(8):845-856.

#### September 2022

Moore JA, Stephens SB, Kertesz NJ, Evans DL, Kim JJ, Howard TS, Pham TD, Valdés SO, de la Uz CM, Raymond TT, **Morris SA, Miyake CY**. Clinical Predictors of Recurrent Supraventricular Tachycardia in Infancy. J Am Coll Cardiol. 2022 Sep 20;80(12):1159-1172.

**Dobrev D,** Heijman J, Hiram R, **Li N,** Nattel S. Inflammatory signalling in atrial cardiomyocytes: a novel unifying principle in atrial fibrillation pathophysiology. Nat Rev Cardiol. 2022 Sep 15:1–23.

Uddin MDM, Nguyen NQH, Yu B, Brody JA, Pampana A, Nakao T, Fornage M, Bressler J, Sotoodehnia N, Weinstock JS, Honigberg MC, Nachun D, Bhattacharya R, Griffin GK, Chander V, Gibbs RA, Rotter JI, Liu C, Baccarelli AA, Chasman DI, Whitsel EA, Kiel DP, Murabito JM, Boerwinkle E, Ebert BL, Jaiswal S, Floyd JS, Bick AG, Ballantyne CM, Psaty BM, Natarajan P, Conneely KN. Clonal hematopoiesis of indeterminate potential, DNA methylation, and risk for coronary artery disease. Nat Commun. 2022 Sep 12;13(1):5350.

**Hotez PJ.** Will anti-vaccine activism in the USA reverse global goals? Nat Rev Immunol. 2022 Sep;22(9):525-526.

**Lopez KN**, Fuentes-Afflick E. Engaging Pediatric Subspecialists in Pursuit of Health Equity-Breaking Out of the Silo. JAMA Pediatr. 2022 Sep 1;176(9):841-842.

GRADE Study Research Group, Nathan DM, Lachin JM, **Balasubramanyam A**, Burch HB, Buse JB, Butera NM, Cohen RM, Crandall JP, Kahn SE, Krause-Steinrauf H, Larkin ME, Rasouli N, Tiktin M, Wexler DJ, Younes N. Glycemia Reduction in Type 2 Diabetes -Glycemic Outcomes. N Engl J Med. 2022 Sep 22;387(12):1063-1074.

### **SELECT PUBLICATIONS**

#### October 2022

Levine GN, McEvoy JW, Fang JC, Ibeh C, McCarthy CP, Misra A, Shah ZI, Shenoy C, Spinler SA, Vallurupalli S, Lip GYH; American Association Council Heart on Clinical Cardiology; Council on Cardiovascular and Stroke Nursina: and Stroke Council. Management of Patients at Risk for and With Left Ventricular Thrombus: A Scientific Statement From the American Heart Association. Circulation. 2022 Oct 11;146(15):e205-e223.

Bradley EA, Winchester D, Alfonso CE, Carpenter AJ, Cohen MS, Coleman DM, Jacob M, Jneid H, Leal MA, Mahmoud Z, Mehta LS, Sivaram CA; American Heart Association Fellows in Training and Early Career of the Council on Clinical Committee Cardiology; Council on Cardiovascular Surgery and Anesthesia; Council on Lifelong Congenital Heart Disease and Heart Health in the Young; and Stroke Council. Physician Wellness in Academic Cardiovascular Medicine: Α Scientific Statement From the American Heart Association. Circulation. 2022 Oct 18;146(16):e229-e241.

Kronenberg F, Mora S, Stroes ESG, Ference BA, Arsenault BJ, Berglund L, Dweck MR, Koschinsky M, Lambert G, Mach F, McNeal CJ, Moriarty PM, Natarajan P, Nordestgaard BG, Parhofer KG, Virani SS, von Eckardstein A, Watts GF, Stock JK, Ray KK, Tokgözoğlu LS, Catapano AL. Lipoprotein(a) in atherosclerotic cardiovascular disease and aortic stenosis: a European Atherosclerosis Society consensus Eur 2022 statement. Heart J. Oct 14;43(39):3925-3946.

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