



American Heart Association Awardees by Program Type

Last Update: August 2019

Transformational Project Award

Giulio Agnetti, PhD

Program Type: Transformational Project Award **Institution:** Johns Hopkins University School of Medicine **City/State:** Baltimore, MD **Project Title:** Novel Mechanisms and Therapies for Proteopathic Heart Failure **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Christopher Ahern, PhD, BS

Program Type: Transformational Project Award **Institution:** University of Iowa, Iowa City **City/State:** Iowa City, IA **Project Title:** A Versatile Chemical-Genetic Approach to Examine Sodium Channelopathies **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Matthew Alexander, MD

Program Type: Transformational Project Award **Institution:** University of Utah **City/State:** Salt Lake City, UT **Project Title:** Multimodal Assessment and Optimization of an Improved Rabbit Model of Intracranial Atherosclerosis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Rajarajan Amirthalingam Thandavarayan, PhD, MPH

Program Type: Transformational Project Award **Institution:** Houston Methodist Research Institute **City/State:** Houston, TX **Project Title:** Role of Sirtuin 6 in mesenchymal stem cell-mediated regeneration in diabetic ischemic heart **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Ali Arbab, MBBS, PhD

Program Type: Transformational Project Award **Institution:** Augusta University **City/State:** Augusta, GA **Project Title:** Targeted delivery and tracking of exosomes in stroke **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Moshe Arditi, MD

Program Type: Transformational Project Award **Institution:** Cedars-Sinai Medical Center **City/State:** Los Angeles, CA **Project Title:** Role of R1p2 in T cells and Atherogenesis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Deniz Atasoy, PhD

Program Type: Transformational Project Award **Institution:** University of Iowa, Iowa City **City/State:** Iowa City, IA **Project Title:** Synaptic Mechanisms of Obesity Induced Hypertension **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Louis Awad, PhD, PT, BS

Program Type: Transformational Project Award **Institution:** Harvard University, Cambridge **City/State:** Cambridge, MA **Project Title:** Robotic Exosuit Augmented Locomotion (REAL) training in the clinic and community **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$299,973

Cenk Ayata, MD

Program Type: Transformational Project Award **Institution:** Massachusetts General Hospital **City/State:** Boston, MA **Project Title:** Microfluidic capture of ultra-rare circulating brain endothelial cells using blood biopsy. **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,610

Isabelle Baconguis, BA, PhD

Program Type: Transformational Project Award **Institution:** Oregon Health & Science University, Portland **City/State:** Portland, OR **Project Title:** 3D structure and function of epithelial sodium channels **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,999

Gene Bidwell, PhD

Program Type: Transformational Project Award **Institution:** University of Mississippi Medical Center **City/State:** Jackson, MS **Project Title:** A Maternally Sequestered, sFlt-1 Targeted Biologic for Treatment of Preeclampsia **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Kenneth Bilchick, MD, MSc, BA

Program Type: Transformational Project Award **Institution:** University of Virginia, Charlottesville **City/State:** Charlottesville, VA **Project Title:** Personalized Approach to Cardiac Resynchronization Therapy Using High Dimensional Immunophenotyping **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

William Boisvert, BS, MS, PhD

Program Type: Transformational Project Award **Institution:** University of Hawaii **City/State:** Honolulu, HI **Project Title:** Lipid metabolism in the endothelium **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Andras Bratincsak, MD PhD

Program Type: Transformational Project Award **Institution:** Hawaii Pacific Health **City/State:** Honolulu, HI **Project Title:** Doxycycline treatment to prevent coronary artery lesions in Kawasaki disease **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

David Breault, MD PhD

Program Type: Transformational Project Award **Institution:** Boston Children's Hospital **City/State:** Boston, MA **Project Title:** FGF Signaling in Primary Aldosteronism **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Paul Burrige, PhD

Program Type: Transformational Project Award **Institution:** Northwestern University, Chicago **City/State:** Chicago, IL **Project Title:** Validation of Genomic Hits Predicting Doxorubicin-Induced Cardiotoxicity for Drug Discovery **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Chuanxi Cai, PhD

Program Type: Transformational Project Award **Institution:** The Ohio State University **City/State:** Columbus, OH **Project Title:** The Function of LncRNA COIND in Myocardial Repair **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000



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Yujun Cai, PhD, MS

Program Type: Transformational Project Award **Institution:** Beth Israel Deaconess Medical Center **City/State:** Boston, MA **Project Title:** Function and regulation of cyclic nucleotide phosphodiesterase 10A in arterial restenosis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Gulden Camci-Unal, PhD

Program Type: Transformational Project Award **Institution:** University of Massachusetts, Lowell **City/State:** Lowell, MA **Project Title:** Novel Pre-Vascularized Scaffolds for Personalized Myocardial Repair **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,999

Marina Cerrone, MD

Program Type: Transformational Project Award **Institution:** New York University **City/State:** New York, NY **Project Title:** EXOGENOUS FACTORS IN THE ARRHYTHMOGENIC CARDIOMYOPATHY PHENOTYPE **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Jiang Chang, PhD, MD

Program Type: Transformational Project Award **Institution:** Texas A&M University Health Science Center **City/State:** College Station, TX **Project Title:** Rho signaling in the development and treatment of myocardial infarction complication **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

John Chappell, PhD

Program Type: Transformational Project Award **Institution:** Virginia Polytechnic Institute **City/State:** Blacksburg, VA **Project Title:** Ischemia-induced Pericyte Loss and BBB Fragility **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Mark Chappell, PhD

Program Type: Transformational Project Award **Institution:** Wake Forest University Health Sciences **City/State:** Winston Salem, NC **Project Title:** Endocannabinoid-Angiotensin Systems in Diabetic Hypertension **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000



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Zhenhui Chen, PhD

Program Type: Transformational Project Award **Institution:** Indiana University, Indianapolis **City/State:** Indianapolis, IN **Project Title:** Specific Accumulation of Phospholamban in Nuclear Membranes of Cardiomyocytes: Role in Regulating Nuclear Calcium Stores **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Ke Cheng, PhD, BS

Program Type: Transformational Project Award **Institution:** North Carolina State University **City/State:** Raleigh, NC **Project Title:** Restoring exosome functions in post-MI hearts by modulating miR-21 **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$299,462

Zhiyong Cheng, PhD

Program Type: Transformational Project Award **Institution:** Virginia Polytechnic Institute **City/State:** Blacksburg, VA **Project Title:** Examining FoxO1 as a novel target for browning of white adipose tissue **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$299,749

Hyung Chun, MD, BA

Program Type: Transformational Project Award **Institution:** Yale University **City/State:** New Haven, CT **Project Title:** Translating the Apelinergic Pathway for Cardiometabolic Health **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Charles Chung, PhD, BS, MA

Program Type: Transformational Project Award **Institution:** Wayne State University **City/State:** Detroit, MI **Project Title:** Mechanism and Diagnosis of Diastolic Dysfunction (and HFpEF) via Strain Rate-Dependent Impaired Relaxation **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Daniela Cihakova, PhD, MD

Program Type: Transformational Project Award **Institution:** Johns Hopkins University School of Medicine **City/State:** Baltimore, MD **Project Title:** Regulatory role of pericardial macrophages in myocardial infarction **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Mete Civelek, PhD, MS, BS, BS

Program Type: Transformational Project Award **Institution:** University of Virginia, Charlottesville **City/State:** Charlottesville, VA **Project Title:** Genetic Regulation of Vascular Smooth Muscle Gene Expression **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Sheila Collins, BS, PhD

Program Type: Transformational Project Award **Institution:** Vanderbilt University Medical Center **City/State:** Nashville, TN **Project Title:** Natriuretic peptide receptor heterodimers: new mechanism with paradigm shifting implications **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Karen Coulombe, BS, PhD

Program Type: Transformational Project Award **Institution:** Brown University **City/State:** Providence, RI **Project Title:** Bioelectric Sutures for Electrical Integration of Engineered Cardiac Tissue in the Heart **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Steven Crowley, MD

Program Type: Transformational Project Award **Institution:** Duke University Durham **City/State:** Durham, NC **Project Title:** The interleukin-1 receptor modulates blood pressure and renal tubular injury **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Michael Daniele, BS, PhD

Program Type: Transformational Project Award **Institution:** North Carolina State University **City/State:** Raleigh, NC **Project Title:** Pre-Vascularization of Cardiac Stem Cell Patches Improves Heart Regeneration **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Sanda Despa, PhD

Program Type: Transformational Project Award **Institution:** University of Kentucky, Lexington **City/State:** Lexington, KY **Project Title:** Cardiovascular consequences of gestational diabetes; role of amylin **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Swati Dey, BSC, MSc, PhD

Program Type: Transformational Project Award **Institution:** Johns Hopkins University School of Medicine **City/State:** Baltimore, MD **Project Title:** Transforming sympathetic nerves to parasympathetic in vivo prevents sudden death in males and females with heart failure **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Anna Dikalova, PhD

Program Type: Transformational Project Award **Institution:** Vanderbilt University Medical Center **City/State:** Nashville, TN **Project Title:** Targeting Sirt3 Expression in Vascular Dysfunction and Hypertension **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Kelly Doran, RN, PhD

Program Type: Transformational Project Award **Institution:** University of Maryland, Baltimore **City/State:** Baltimore, MD **Project Title:** WHHIP-PLUS **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Rachel Dreyer, BSC, PhD

Program Type: Transformational Project Award **Institution:** Yale University **City/State:** New Haven, CT **Project Title:** An Individualized Gender-transformative Tailored Intervention to Reduce Readmission Rates in Young Women with AMI **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$298,711

Guangwei Du, PhD

Program Type: Transformational Project Award **Institution:** The University of Texas Health Science Center at Houston **City/State:** Houston, TX **Project Title:** A role of PLD1 in the trafficking of low-density lipoprotein cholesterol to lysosomes in macrophages **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Partha Dutta, PhD, MS, DVM

Program Type: Transformational Project Award **Institution:** University of Pittsburgh **City/State:** Pittsburgh, PA **Project Title:** The Role of endothelial cell-specific CX3CR1 in pulmonary hypertension **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,307



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Tony Eissa, MD

Program Type: Transformational Project Award **Institution:** Baylor College of Medicine, Houston **City/State:** Houston, TX **Project Title:** Regulation of Inflammasome Activation by p38 MAPK **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Sammy Elmariah, MD, MPH

Program Type: Transformational Project Award **Institution:** Massachusetts General Hospital **City/State:** Boston, MA **Project Title:** Left Ventricular Metabolic Remodeling in the Pressure Overloaded Heart **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Lola Eniola-Adefeso, PhD

Program Type: Transformational Project Award **Institution:** University of Michigan **City/State:** Ann Arbor, MI **Project Title:** Nanoparticle-loaded Microparticles for Enhanced Delivery of Anti-CD47 Therapy in CAD **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Longhou Fang, PhD

Program Type: Transformational Project Award **Institution:** Houston Methodist Research Institute **City/State:** Houston, TX **Project Title:** AIBP-REGULATED HEMATOPOIESIS IN DEVELOPMENT AND CARDIOVASCULAR DISEASE **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

D Brian Foster, PhD

Program Type: Transformational Project Award **Institution:** Johns Hopkins University School of Medicine **City/State:** Baltimore, MD **Project Title:** Preserving Cardiac Retinoic Acid Homeostasis as a Therapeutic Approach to Heart Failure **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

David Fulton, PhD

Program Type: Transformational Project Award **Institution:** Augusta University **City/State:** Augusta, GA **Project Title:** Circadian clock control of endothelial identity in atherosclerosis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Wei Gao, BS, MS, PhD

Program Type: Transformational Project Award **Institution:** California Institute of Technology, Pasadena **City/State:** Pasadena, CA **Project Title:** A Wearable Molecular Sensing Platform for Non-Invasive Heart Failure Monitoring **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Parveen Garg, MD, MPH

Program Type: Transformational Project Award **Institution:** University of Southern California **City/State:** Los Angeles, CA **Project Title:** Novel Identification of Myocardial Scar Tissue using Arterial Spin Labeling **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,989

Daniel Garry, MD PhD

Program Type: Transformational Project Award **Institution:** University of Minnesota, Minneapolis **City/State:** Minneapolis, MN **Project Title:** Bioengineering non-human primate vasculature in gene edited animals **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Daniel Garry, MD PhD

Program Type: Transformational Project Award **Institution:** University of Minnesota, Minneapolis **City/State:** Minneapolis, MN **Project Title:** Regulation of Cardiomyocyte Proliferation and Regeneration **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Chris Gentile, PhD, MS

Program Type: Transformational Project Award **Institution:** Colorado State University, Fort Collins **City/State:** Fort Collins, CO **Project Title:** Exploring A Novel Role of the Gut Microbiota In Obesity-Related Vascular Dysfunction **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$299,996

Nestor Gonzalez, MD

Program Type: Transformational Project Award **Institution:** Cedars-Sinai Medical Center **City/State:** Los Angeles, CA **Project Title:** Angiogenesis and Exosomal microRNA in Intracranial Atherosclerosis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Laura Gonzalez Bosc, BA, PhD

Program Type: Transformational Project Award **Institution:** University of New Mexico - Health Sciences Center **City/State:** Albuquerque, NM **Project Title:** Novel collagen V-reactive natural TH17 cells in hypoxic pulmonary hypertension **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Young-Hwa Goo, PhD, MS, BS

Program Type: Transformational Project Award **Institution:** Albany Medical College **City/State:** Albany, NY **Project Title:** Investigation of Guanylate Binding Proteins as a novel regulator of inflammation in atherosclerosis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000



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Styliani Goulopoulou, PhD, MS, BS

Program Type: Transformational Project Award **Institution:** University of North Texas Health Science Center, Fort Worth **City/State:** Fort Worth, TX **Project Title:** Circulating cell-free mitochondrial DNA in a preclinical model of preeclampsia with placental ischemia **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Vijay Govindarajan, BS, MS, PhD

Program Type: Transformational Project Award **Institution:** The University of Texas Health Science Center at Houston **City/State:** Houston, TX **Project Title:** A Novel Surgical Planning Strategy for Optimal Mitral Intervention **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Wei Guo, BS, PhD

Program Type: Transformational Project Award **Institution:** University of Wyoming **City/State:** Laramie, WY **Project Title:** Cytoplasmic trafficking of titin mRNA binding protein 20 in heart failure progression **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Anantha Harijith, MD, OTR

Program Type: Transformational Project Award **Institution:** University of Illinois at Chicago **City/State:** Chicago, IL **Project Title:** Role of Sphingosine 1 Phosphate (S1P) and S1P 1 receptor signaling in Bronchopulmonary Dysplasia **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Guanglong He, PhD

Program Type: Transformational Project Award **Institution:** University of Wyoming **City/State:** Laramie, WY **Project Title:** Targeting the underlying inflammation in obesity-associated myocardial dysfunction **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Joseph Hill, BS, MD PhD

Program Type: Transformational Project Award **Institution:** University of Texas Southwestern Medical Center **City/State:** Dallas, TX **Project Title:** Heart Failure with Preserved Ejection Fraction (HFpEF): Translational Pharmacotherapy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Yuqing Huo, MD, MS, PhD

Program Type: Transformational Project Award **Institution:** Augusta University
City/State: Augusta, GA **Project Title:** the role of adenosine kinase in the formation of aortic aneurysm **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3
Total Award Amount: \$300,000

Erik Ingelsson, MD, PhD

Program Type: Transformational Project Award **Institution:** Stanford University School of Medicine, Palo Alto **City/State:** Palo Alto, CA **Project Title:** Discovery and characterization of novel genes associated with risk for non-alcoholic fatty liver disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Bin Jiang, PhD, BS

Program Type: Transformational Project Award **Institution:** Northwestern University, Evanston **City/State:** Evanston, IL **Project Title:** Autologous Vascular Regeneration for Peripheral Artery Disease Patients **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Kai Jiao, MD, PhD

Program Type: Transformational Project Award **Institution:** University of Alabama at Birmingham **City/State:** Birmingham, AL **Project Title:** Epigenetic regulation of cardiac neural crest cell development **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Alain Kassab, PhD

Program Type: Transformational Project Award **Institution:** University of Central Florida **City/State:** Orlando, FL **Project Title:** Multiscale Hemodynamics Investigation of a Surgical Manoeuvre to Reduce Stroke Risk in Left Ventricular Assist Devices **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Brett Kaufman, PhD

Program Type: Transformational Project Award **Institution:** University of Pittsburgh **City/State:** Pittsburgh, PA **Project Title:** Young at heart: How mitochondrial genome preservation promotes resilience against aging and heart attack-induced heart f **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000



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Eric Kelley, BS, MS, PhD

Program Type: Transformational Project Award **Institution:** West Virginia University - Health Sciences Center **City/State:** Morgantown, WV **Project Title:** Protective Role for Xanthine Oxidase in Heme-Induced Vascular Injury **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Ali Khademhosseini, PhD

Program Type: Transformational Project Award **Institution:** University of California, Los Angeles **City/State:** Los Angeles, CA **Project Title:** Oxygen Releasing Microparticles to Improve Heart Preservation for Transplantation **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Sadiya Khan, BS, MD, MS

Program Type: Transformational Project Award **Institution:** Northwestern University, Chicago **City/State:** Chicago, IL **Project Title:** Transforming the Primary Prevention Paradigm for Heart Failure **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Chang Won Kho, BA, MS, PhD

Program Type: Transformational Project Award **Institution:** Icahn School of Medicine at Mount Sinai **City/State:** New York, NY **Project Title:** SUMO1 as New Molecular Target for Aging Heart **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Il-Man Kim, PhD

Program Type: Transformational Project Award **Institution:** Augusta University **City/State:** Augusta, GA **Project Title:** The novel role of microRNA-532-5p/prss23 axis in regulating cardiac vascularization during acute myocardial infarction **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Mark Kindy, PhD

Program Type: Transformational Project Award **Institution:** University of South Florida, Tampa **City/State:** Tampa, FL **Project Title:** Serum Amyloid A, Inflammasome Activation and Stroke **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Samantha King, PhD

Program Type: Transformational Project Award **Institution:** Nationwide Children's Hospital **City/State:** Columbus, OH **Project Title:** Streptococcus oralis strains lacking serine-rich repeat proteins bind the same platelet carbohydrates via novel adhesins **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Prasanna Krishnamurthy, PhD

Program Type: Transformational Project Award **Institution:** University of Alabama at Birmingham **City/State:** Birmingham, AL **Project Title:** Targeting paracrine mediators to enhance cardiac regeneration and repair after injury **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Bonnie Ky, MD

Program Type: Transformational Project Award **Institution:** University of Pennsylvania **City/State:** Philadelphia, PA **Project Title:** Improving Cardiovascular Health in Breast Cancer **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,732

Daniel Lawrence, PhD

Program Type: Transformational Project Award **Institution:** University of Michigan Medical Center **City/State:** Ann Arbor, MI **Project Title:** The effects of the comorbidity of obesity on ischemic stroke and identification of a novel treatment strategy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Jennifer Lee-Summers, MD, BA

Program Type: Transformational Project Award **Institution:** Johns Hopkins University School of Medicine **City/State:** Baltimore, MD **Project Title:** Proteasome modulation as a novel therapeutic for neonatal encephalopathy **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Leslie Leinwand, BS, PhD

Program Type: Transformational Project Award **Institution:** University of Colorado, Boulder **City/State:** Boulder, CO **Project Title:** Mutant Myosin Misfolding as a Novel Mechanism of Hypertrophic Cardiomyopathy **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$299,999



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Olin Liang, PhD

Program Type: Transformational Project Award **Institution:** Rhode Island Hospital
City/State: Providence, RI **Project Title:** The role of endothelial to hematopoietic transition in the pathogenesis of pulmonary hypertension **Award Start Date:** 7/1/2018
Award End Date: 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Xudong Liao, BS, PhD

Program Type: Transformational Project Award **Institution:** Case Western Reserve University
City/State: Cleveland, OH **Project Title:** Role of cardiac macrophage subsets in pressure overload hypertrophy and its application in treatment of cardiomyopathy
Award Start Date: 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Lucy Liaw, PhD

Program Type: Transformational Project Award **Institution:** Maine Medical Center
City/State: Portland, ME **Project Title:** Novel Vascular Protective Mechanisms in Dietary-Associated Extension of Healthspan **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Hung Wen Lin, BS, PhD

Program Type: Transformational Project Award **Institution:** Louisiana State University Health Sciences Center Shreveport
City/State: Shreveport, LA **Project Title:** Regulation of the Sympathetic Nervous System in Cerebral Ischemia **Award Start Date:** 7/1/2019
Award End Date: 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Jiandong Liu, PhD

Program Type: Transformational Project Award **Institution:** University of North Carolina, Chapel Hill
City/State: Chapel Hill, NC **Project Title:** Metabolic regulation of cardiac growth **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3
Total Award Amount: \$300,000

Qinghang Liu, PhD

Program Type: Transformational Project Award **Institution:** University of Washington, Seattle
City/State: Seattle, WA **Project Title:** Molecular regulation of programmed necrosis in the heart **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



**American
Heart
Association.**

Zhiping Liu, PhD

Program Type: Transformational Project Award **Institution:** University of Texas Southwestern Medical Center **City/State:** Dallas, TX **Project Title:** Mechanism of activation of histone lysine demethylase in pathological cardiac remodeling **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Christopher Lu, MD

Program Type: Transformational Project Award **Institution:** University of Texas Southwestern Medical Center **City/State:** Dallas, TX **Project Title:** Mitochondrial Anti-Viral Signaling Protein (MAVS), Reactive Oxygen Species, & Progressive Chronic Kidney Disease **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Hua Ann Lu, MD PhD, MS

Program Type: Transformational Project Award **Institution:** Massachusetts General Hospital **City/State:** Boston, MA **Project Title:** Novel regulatory mechanism that contributes to hyponatremia **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Julie Lumeng, MD

Program Type: Transformational Project Award **Institution:** University of Michigan **City/State:** Ann Arbor, MI **Project Title:** The Development of Reward Response to Food in Very Early Childhood **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Rajeev Malhotra, BA, MS, MD

Program Type: Transformational Project Award **Institution:** Massachusetts General Hospital **City/State:** Boston, MA **Project Title:** A Novel Regulatory Pathway in Vascular Smooth Muscle Phenotypic Transition and Calcification **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Akiko Mammoto, MD, PhD

Program Type: Transformational Project Award **Institution:** Medical College of Wisconsin **City/State:** Milwaukee, WI **Project Title:** Twist1 in age-related changes in angiogenesis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000



**American
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Association.**

Michael Markl, PhD

Program Type: Transformational Project Award **Institution:** Northwestern University, Chicago **City/State:** Chicago, IL **Project Title:** Patient Specific 4D Flow Modeling for Improved Management of Aortic Coarctation Repair **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Roger Markwald, PhD

Program Type: Transformational Project Award **Institution:** Medical University of South Carolina **City/State:** Charleston, SC **Project Title:** Turning mechanisms of heart development into remedial therapies for heart valvuloseptal defects **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Alison Marsden, PhD, MSE, BSE

Program Type: Transformational Project Award **Institution:** Stanford University, Stanford **City/State:** Stanford, CA **Project Title:** Hemodynamic determinants of premature pulmonary valve dysfunction in children with Tetralogy of Fallot **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Borna Mehrad, MD

Program Type: Transformational Project Award **Institution:** University of Florida, Gainesville **City/State:** Gainesville, FL **Project Title:** Circulating fibrocytes as biomarkers of cardiac sarcoidosis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Francis Miller, BS, MD

Program Type: Transformational Project Award **Institution:** Duke University Medical Center **City/State:** Durham, NC **Project Title:** Extracellular Histones and Sepsis-induced Cardiomyopathy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Christopher Minson, MS, PhD

Program Type: Transformational Project Award **Institution:** University of Oregon, Eugene **City/State:** Eugene, OR **Project Title:** Targeting Hypertension and Insulin Resistance with Heat Therapy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Shigeki Miyamoto, PhD, DVM

Program Type: Transformational Project Award **Institution:** University of California, San Diego **City/State:** La Jolla, CA **Project Title:** RhoA prevents cardiac aging through regulation of mitophagy and NLRP3 inflammasome. **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Maradumane Mohan, PhD

Program Type: Transformational Project Award **Institution:** Cleveland Clinic Foundation **City/State:** Cleveland, OH **Project Title:** Kinase independent signaling of PI3Kgamma in cardiac fibrosis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Sabee Molloi, PhD

Program Type: Transformational Project Award **Institution:** University of California, Irvine **City/State:** Irvine, CA **Project Title:** Quantification of coronary heart disease based on FFR and CFR from direct blood flow measurement using low-dose CT **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,128

Kim-Lien Nguyen, MD

Program Type: Transformational Project Award **Institution:** University of California, Los Angeles **City/State:** Los Angeles, CA **Project Title:** Ferumoxytol-Enhanced MRI for Myocardial Tissue Characterization **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$299,974

Stefania Nicoli, PhD

Program Type: Transformational Project Award **Institution:** Yale University **City/State:** New Haven, CT **Project Title:** Vascular N-glycosylation controls endothelial to hematopoietic transition **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Russell Norris, PhD

Program Type: Transformational Project Award **Institution:** Medical University of South Carolina **City/State:** Charleston, SC **Project Title:** Molecular and cellular causes of mitral valve prolapse **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Toru Nyunoya, MD

Program Type: Transformational Project Award **Institution:** University of Pittsburgh
City/State: Pittsburgh, PA **Project Title:** Molecular mechanisms of smoking-induced emphysema **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3
Total Award Amount: \$300,000

Shinichi Oka, PhD, MS, BS

Program Type: Transformational Project Award **Institution:** Rutgers, The State University of New Jersey, RBHS **City/State:** New Brunswick, NJ **Project Title:** Pathogenic role of cardiomyocyte-initiating inflammatory signaling in diastolic heart failure
Award Start Date: 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Carlos Orihuela, PhD

Program Type: Transformational Project Award **Institution:** University of Alabama at Birmingham **City/State:** Birmingham, AL **Project Title:** Resident cardiac macrophage dysfunction and pneumonia-associated adverse cardiac events **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

David Page, MD

Program Type: Transformational Project Award **Institution:** Whitehead Institute for Biomedical Research, Cambridge **City/State:** Cambridge, MA **Project Title:** Understanding the Mechanisms of Male Bias in Cardiac Diseases ' A Lesson from the Healthy Heart **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3
Total Award Amount: \$300,000

Nirmala Parajuli, DVM, MSc, PhD

Program Type: Transformational Project Award **Institution:** Arkansas Childrens Hospital **City/State:** Little Rock, AR **Project Title:** Targeting renal immunoproteasome during cold storage to improve transplant-associated cardiovascular health **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Antonio Paul, PhD

Program Type: Transformational Project Award **Institution:** Albany Medical Center **City/State:** Albany, NY **Project Title:** Mechanisms of atheroprotection and plaque stabilization by lipid droplet-associated hydrolase **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000



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Evgeny Pavlov, PhD

Program Type: Transformational Project Award **Institution:** New York University
City/State: New York, NY **Project Title:** Misfolded proteins as core components of the mitochondrial permeability transition. **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Brandt Pence, PhD

Program Type: Transformational Project Award **Institution:** University of Memphis
City/State: Memphis, TN **Project Title:** Mdivi-1 as an immunometabolic regulator to treat atherosclerosis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Xu Peng, MD PhD

Program Type: Transformational Project Award **Institution:** Texas A&M University Health Science Center **City/State:** College Station, TX **Project Title:** Role and Molecular Mechanisms of Cdc42 in Lymphatic valve formation **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Gary Pierce, PhD, MS, BS

Program Type: Transformational Project Award **Institution:** University of Iowa, Iowa City **City/State:** Iowa City, IA **Project Title:** Inorganic Nitrate, Large Artery Stiffness and Cerebral Blood Flow in Aged Humans **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Ela Plow, PhD, PT

Program Type: Transformational Project Award **Institution:** Cleveland Clinic Foundation **City/State:** Cleveland, OH **Project Title:** A Novel Approach for Brain Stimulation in Severe Stroke **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Mortimer Poncz, MD

Program Type: Transformational Project Award **Institution:** The Children's Hospital of Philadelphia **City/State:** Philadelphia, PA **Project Title:** Neutrophil extracellular trap compaction to prevent microvascular thrombosis and multisystem organ dysfunction in sepsis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Michael Portman, MD

Program Type: Transformational Project Award **Institution:** Seattle Children's Hospital
City/State: Seattle, WA **Project Title:** Role of individual nitric oxide synthases for cerebral protection during circulatory arrest **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Li Qian, PhD

Program Type: Transformational Project Award **Institution:** University of North Carolina, Chapel Hill **City/State:** Chapel Hill, NC **Project Title:** Single Cell Transcriptomics to Reconstruct Trajectory of Human Cardiac Reprogramming **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Gangjian Qin, MD

Program Type: Transformational Project Award **Institution:** University of Alabama at Birmingham **City/State:** Birmingham, AL **Project Title:** Ischemic cardiac exosomes and bone marrow progenitor cells **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Przemyslaw Radwanski, PharmD, PhD

Program Type: Transformational Project Award **Institution:** The Ohio State University **City/State:** Columbus, OH **Project Title:** A novel therapeutic paradigm for arrhythmogenic calmodulinopathy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Khadija Rafiq, PhD

Program Type: Transformational Project Award **Institution:** Thomas Jefferson University **City/State:** Philadelphia, PA **Project Title:** Cardioprotection by B cells in type 1 diabetes **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Sudarshan Rajagopal, MD PhD

Program Type: Transformational Project Award **Institution:** Duke University Medical Center **City/State:** Durham, NC **Project Title:** Single Cell Profiling and Disease Modeling of CTEPH **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Sudarsan Rajan, PhD, MSc, BS

Program Type: Transformational Project Award **Institution:** Temple University
City/State: Philadelphia, PA **Project Title:** Novel Insights into the Role of Mitochondrial Calcium in Regulating Cardiac Contractility **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Anand Ramamurthi, PhD, MS, BS

Program Type: Transformational Project Award **Institution:** Cleveland Clinic Foundation **City/State:** Cleveland, OH **Project Title:** Matrix regenerative siRNA nanotherapeutics for small aneurysm repair **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Jay Reddy, DVM, MSc, PhD

Program Type: Transformational Project Award **Institution:** University of Nebraska, Lincoln **City/State:** Lincoln, NE **Project Title:** Prevention of viral cardiomyopathy and insulinitis by vaccination **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Erin Reineke, BS, PhD

Program Type: Transformational Project Award **Institution:** Houston Methodist Research Institute **City/State:** Houston, TX **Project Title:** The role of steroid receptor coactivator-2 in coordinating stress-activated angiogenesis in the myocardium **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Sung Rhee, PhD

Program Type: Transformational Project Award **Institution:** University of Arkansas for Medical Sciences, Little Rock **City/State:** Little Rock, AR **Project Title:** Impaired cerebral collateral dilation in hypertension: implications for stroke damage and antihypertensive therapy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Caroline Rickards, PhD

Program Type: Transformational Project Award **Institution:** University of North Texas Health Science Center, Fort Worth **City/State:** Fort Worth, TX **Project Title:** Phase II: A novel approach for improving cerebral tissue blood flow and oxygenation via pulsatile perfusion therapy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,678



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Timo Rieg, MD, PhD

Program Type: Transformational Project Award **Institution:** University of South Florida, Tampa **City/State:** Tampa, FL **Project Title:** Pharmacological Npt2a inhibition as an approach for treating impaired phosphate homeostasis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Patrick Ronaldson, PhD, BSC

Program Type: Transformational Project Award **Institution:** University of Arizona, Tucson **City/State:** Tucson, AZ **Project Title:** Statins Require Endogenous Blood-Brain Barrier Transporters to Confer Neuroprotective Effects in Stroke. **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Marcello Rota, PhD

Program Type: Transformational Project Award **Institution:** New York Medical College **City/State:** Valhalla, NY **Project Title:** Notch Signaling and Window of Opportunity for the Remodeling of the Infarcted Heart **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Beverly Rothermel, PhD

Program Type: Transformational Project Award **Institution:** University of Texas Southwestern Medical Center **City/State:** Dallas, TX **Project Title:** Circadian cycling of cardiac mitochondrial dynamics **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Sakthivel Sadayappan, MS, PhD

Program Type: Transformational Project Award **Institution:** University of Cincinnati **City/State:** Cincinnati, OH **Project Title:** Molecular Mechanisms of Cardiac Arrhythmias in Patients with Compound Mutations **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Jeffrey Saffitz, PhD, MD

Program Type: Transformational Project Award **Institution:** Beth Israel Deaconess Medical Center **City/State:** Boston, MA **Project Title:** Arrhythmogenic Cardiomyopathy is an Inflammatory Disease **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Tamer Sallam, BS, BA, MD

Program Type: Transformational Project Award **Institution:** University of California, Los Angeles **City/State:** Los Angeles, CA **Project Title:** Towards lncRNA-based interventions in cardiovascular disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Saul Schaefer, MD

Program Type: Transformational Project Award **Institution:** University of California, Davis **City/State:** Davis, CA **Project Title:** TSPO modulation prevents heart failure by increasing fatty acid oxidation **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Steven Segal, PhD

Program Type: Transformational Project Award **Institution:** University of Missouri, Columbia **City/State:** Columbia, MO **Project Title:** Western diet-induced resilience of resistance arteries to oxidative stress **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Richard Sherwood, PhD

Program Type: Transformational Project Award **Institution:** Brigham & Women's Hospital **City/State:** Boston, MA **Project Title:** Toward gain-of-function CRISPR/Cas9 gene therapy for LDLR frameshift mutations **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Nicholas Sibinga, MD

Program Type: Transformational Project Award **Institution:** Albert Einstein College of Medicine **City/State:** Bronx, NY **Project Title:** The FAT1 cadherin in vascular remodeling **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Bryan Smith, BS, PhD

Program Type: Transformational Project Award **Institution:** Michigan State University **City/State:** East Lansing, MI **Project Title:** Macrophage-Selective Nanotherapy for Atherosclerosis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Long-Sheng Song, MD, MS

Program Type: Transformational Project Award **Institution:** University of Iowa, Iowa City **City/State:** Iowa City, IA **Project Title:** MG53: A double-edged sword in cardiac T-tubule damage and repair **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Timothy Stalker, BS, PhD

Program Type: Transformational Project Award **Institution:** University of Pennsylvania **City/State:** Philadelphia, PA **Project Title:** Thrombin spatial propagation during hemostasis and thrombosis in vivo **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Brian Stauffer, BS, MD

Program Type: Transformational Project Award **Institution:** University of Colorado Denver **City/State:** Denver, CO **Project Title:** Bioenergetics and Myofibril Function in Pediatric Dilated Cardiomyopathy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Jonathan Stiber, MD

Program Type: Transformational Project Award **Institution:** Duke University Durham **City/State:** Durham, NC **Project Title:** Role of Drebrin in Vascular Smooth Muscle Transdifferentiation **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Francesca Stillitano, BS, PhD

Program Type: Transformational Project Award **Institution:** Icahn School of Medicine at Mount Sinai **City/State:** New York, NY **Project Title:** Pathophysiological mechanism of Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC) caused by Phospholamban R14 delet **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Huabo Su, PhD, MS

Program Type: Transformational Project Award **Institution:** Augusta University **City/State:** Augusta, GA **Project Title:** Novel ubiquitin-like modification regulating mitochondrial dynamics in myocardium **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Yukiko Sugi, PhD, DVM

Program Type: Transformational Project Award **Institution:** Medical University of South Carolina **City/State:** Charleston, SC **Project Title:** Signaling interaction and regulation in AV valvuloseptal maturation **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Wei Sun, PhD

Program Type: Transformational Project Award **Institution:** Georgia Tech Research Corporation **City/State:** Atlanta, GA **Project Title:** A Machine Learning Based Approach for Geometry Modeling and In Vivo Material Property Estimation of Thoracic Aorta **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000



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Prithu Sundd, PhD, BS

Program Type: Transformational Project Award **Institution:** University of Pittsburgh
City/State: Pittsburgh, PA **Project Title:** Mechanism of platelet extracellular vesicle-mediated vaso-occlusion in Sickle Cell Disease **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$299,994

Emmanouil Tampakakis, BS, MD

Program Type: Transformational Project Award **Institution:** Johns Hopkins University School of Medicine **City/State:** Baltimore, MD **Project Title:** Regulation of stem cell-derived cardiomyocyte contractility to examine their role in cardiac regeneration. **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Wei Tan, PhD

Program Type: Transformational Project Award **Institution:** University of Colorado, Boulder **City/State:** Boulder, CO **Project Title:** Precision PAH model for treatment evaluation **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,974

Bert Tanner, PhD, BS

Program Type: Transformational Project Award **Institution:** Washington State University, Pullman **City/State:** Pullman, WA **Project Title:** Thick-filament regulation in human heart failure **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Rongya Tao, PhD

Program Type: Transformational Project Award **Institution:** Boston Children's Hospital **City/State:** Boston, MA **Project Title:** Target Follistatin to alleviate obesity and hypercholesterolemia **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Charles Thodeti, PhD

Program Type: Transformational Project Award **Institution:** Northeast Ohio Medical University **City/State:** Rootstown, OH **Project Title:** The impact of vascular mechanotransduction on cardiac remodeling **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Michael Thomas, PhD

Program Type: Transformational Project Award **Institution:** Medical College of Wisconsin **City/State:** Milwaukee, WI **Project Title:** Bidirectional Cholesterol Transport: How does PCPE2 modulate SR-BI activity? **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

James Tisdale, BSC, PharmD

Program Type: Transformational Project Award **Institution:** Purdue University, West Lafayette **City/State:** West Lafayette, IN **Project Title:** Reducing the Risk of Drug-Induced QT Interval Lengthening in Women **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Qiang Tong, PhD, MS, BS

Program Type: Transformational Project Award **Institution:** Baylor College of Medicine, Houston **City/State:** Houston, TX **Project Title:** Metabolic Regulation by Transcription Factor PU.1 **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Andreea Trache, PhD

Program Type: Transformational Project Award **Institution:** Texas A&M University, College Station **City/State:** College Station, TX **Project Title:** Cytoskeleton remodeling regulates contractile function and mechanosensing in vascular smooth muscle **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Michael Tranter, BS, PhD

Program Type: Transformational Project Award **Institution:** University of Cincinnati **City/State:** Cincinnati, OH **Project Title:** A novel role for Human Antigen R (HuR) in uncoupling protein 1 (UCP1)-independent thermogenesis and energy expenditure **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Tobias Ulmer, DPhil, MS

Program Type: Transformational Project Award **Institution:** University of Southern California **City/State:** Los Angeles, CA **Project Title:** Safeguards of unwarranted integrin activation and pathological thrombosis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000



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Luc Van Kaer, PhD

Program Type: Transformational Project Award **Institution:** Vanderbilt University Medical Center **City/State:** Nashville, TN **Project Title:** Targeting IL-10-producing B cells in cardiac adipose tissues to improve the outcome of acute myocardial infarction **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Moriel Vandsburger, PhD, BS

Program Type: Transformational Project Award **Institution:** University of California, Berkeley **City/State:** Berkeley, CA **Project Title:** Molecular MRI methods for integrative physiological imaging in gene therapy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Jessica Wagenseil, DSc

Program Type: Transformational Project Award **Institution:** Washington University **City/State:** Saint Louis, MO **Project Title:** Extracellular matrix effects on biotransport in aortic disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Amy Wagner, MD

Program Type: Transformational Project Award **Institution:** University of Pittsburgh **City/State:** Pittsburgh, PA **Project Title:** Dopamine Systems and Rehabilitation Treatments for Improving Neurorecovery among Cardiac Arrest Survivors **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

David Wang, PhD

Program Type: Transformational Project Award **Institution:** Washington University **City/State:** Saint Louis, MO **Project Title:** Host factors critical for Coxsackievirus B3 infection: leveraging C. elegans genetics **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Jun Wang, MD, PhD

Program Type: Transformational Project Award **Institution:** Texas Heart Institute **City/State:** Houston, TX **Project Title:** Role of SUMO-2/3 in cardiac remodeling **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000



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Qiming Wang, PhD

Program Type: Transformational Project Award **Institution:** University of Pittsburgh
City/State: Pittsburgh, PA **Project Title:** Neuroprotective role of novel lncRNA-induced
CaMKII δ in ischemic stroke **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022
Total Years: 3 **Total Award Amount:** \$300,000

Rong Wang, PhD, BS

Program Type: Transformational Project Award **Institution:** University of California, San
Francisco **City/State:** San Francisco, CA **Project Title:** Identifying Molecular Regulators
of Hereditary Hemorrhagic Telangiectasia In a Novel Mouse Model **Award Start Date:**
7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Stephanie Ware, PhD, MD

Program Type: Transformational Project Award **Institution:** Indiana University,
Indianapolis **City/State:** Indianapolis, IN **Project Title:** The genetics of cardiovascular
malformations: a clinical approach **Award Start Date:** 7/1/2019 **Award End Date:**
6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Kishore Wary, PhD

Program Type: Transformational Project Award **Institution:** University of Illinois at
Chicago **City/State:** Chicago, IL **Project Title:** Nanog in the regulation cardiac vascular
network regeneration **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total
Years:** 3 **Total Award Amount:** \$300,000

Stephanie Watts, PhD

Program Type: Transformational Project Award **Institution:** Michigan State University
City/State: East Lansing, MI **Project Title:** Chemerin Knockdown as a treatment for
obesity-associated Hypertension **Award Start Date:** 7/1/2019 **Award End Date:**
6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,997

Robert Winchester, MD

Program Type: Transformational Project Award **Institution:** Columbia University, New
York **City/State:** New York, NY **Project Title:** Identification of Immunological
Mechanisms Targeting the Myocardium in Rheumatoid Arthritis **Award Start Date:**
7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Lai-Hua Xie, PhD

Program Type: Transformational Project Award **Institution:** Rutgers, The State
University of New Jersey, RBHS **City/State:** New Brunswick, NJ **Project Title:** The Role of
Mitochondria in Cardiac Iron Overload and Dysfunction **Award Start Date:** 7/1/2019
Award End Date: 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Haodong Xu, PhD, MD

Program Type: Transformational Project Award **Institution:** University of Washington, Seattle **City/State:** Seattle, WA **Project Title:** beta-catenin/TCF4 signaling and cardiac arrhythmia in ischemic heart disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Liliya Yamaleyeva, MS, MD

Program Type: Transformational Project Award **Institution:** Wake Forest University Health Sciences **City/State:** Winston Salem, NC **Project Title:** ACE2 and CD47 Interactions to Regulate Fetal Growth **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$299,559

Lei Yang, PhD

Program Type: Transformational Project Award **Institution:** Indiana University, Indianapolis **City/State:** Indianapolis, IN **Project Title:** Dissecting essential roles of ARID1A in controlling cardiac and neural differentiation from human pluripotent stem cells **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Yisang Yoon, PhD

Program Type: Transformational Project Award **Institution:** Augusta University **City/State:** Augusta, GA **Project Title:** Mitochondrial dynamics in cardiac ischemia-reperfusion injury **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Tadashi Yoshida, BS, MS, PhD

Program Type: Transformational Project Award **Institution:** University of Missouri, Columbia **City/State:** Columbia, MO **Project Title:** Skeletal Muscle Stem Cell Angiotensin II Receptors as Novel Therapeutic Targets of Cachexia in Congestive Heart Failure **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Lixia Yue, PhD

Program Type: Transformational Project Award **Institution:** University of Connecticut, Farmington **City/State:** Farmington, CT **Project Title:** The oxidative stress activated TRPM2 is a master regulator of ischemic injury **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Kai Zhang, PhD

Program Type: Transformational Project Award **Institution:** The University of Texas Health Science Center at Houston **City/State:** Houston, TX **Project Title:** Urban Exposome and Cardiovascular Health in the CARDIA Longitudinal Study **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Li Zhang, PhD

Program Type: Transformational Project Award **Institution:** University of Maryland, Baltimore **City/State:** Baltimore, MD **Project Title:** A novel radiation-resistant CD11b-expressing leukocyte population with atheroprotective activities **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Lijie Grace Zhang, PhD

Program Type: Transformational Project Award **Institution:** George Washington University **City/State:** Washington, DC **Project Title:** 4D Bioprinting Functional Cardiac Tissue **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Yu Zhang, PhD, MS, BS

Program Type: Transformational Project Award **Institution:** Brigham & Women's Hospital **City/State:** Boston, MA **Project Title:** A Bioinspired Pro-Healing Medical Adhesive towards Myocardial Infarction Treatment **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Lei Zheng, PhD

Program Type: Transformational Project Award **Institution:** The University of Texas Health Science Center at Houston **City/State:** Houston, TX **Project Title:** Elucidating structural basis of sodium/calcium exchanger NCX essential for cardiac contractability **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Beiyuan Zhou, PhD

Program Type: Transformational Project Award **Institution:** University of Connecticut, Farmington **City/State:** Farmington, CT **Project Title:** Regulation of CVD risk in obesity: The role of ATB miR-150 in adipose tissue inflammation **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000



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Changcheng Zhou, PhD, MSc, BS

Program Type: Transformational Project Award **Institution:** University of Kentucky, Lexington **City/State:** Lexington, KY **Project Title:** A novel role for IKKbeta in epicardial adipose tissue formation **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Jiangbing Zhou, PhD

Program Type: Transformational Project Award **Institution:** Yale University **City/State:** New Haven, CT **Project Title:** Targeted delivery of glyburide via antioxidant nanoparticles for stroke treatment **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2021 **Total Years:** 3 **Total Award Amount:** \$300,000

Jiliang Zhou, PhD, MD

Program Type: Transformational Project Award **Institution:** Augusta University **City/State:** Augusta, GA **Project Title:** Identification, regulation and function of the smooth muscle-specific long non-coding RNA **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000

Hua Zhu, PhD

Program Type: Transformational Project Award **Institution:** The Ohio State University **City/State:** Columbus, OH **Project Title:** Modulation of Cell Death Pathway in Myocardial Infarction **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2022 **Total Years:** 3 **Total Award Amount:** \$300,000