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American Heart Association Awardees by Program Type

Last Update: August 2019

Innovative Project Award

Aitor Aguirre, PhD

Program Type: Innovative Project Award **Institution:** Michigan State University
City/State: East Lansing, MI **Project Title:** An artificial biological pump for failing
Fontan circulation **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:**
2 **Total Award Amount:** \$199,837

Imad Al Ghouleh, BSC, BA, PhD

Program Type: Innovative Project Award **Institution:** University of Pittsburgh **City/State:**
Pittsburgh, PA **Project Title:** Mobile DNA in Atherosclerosis **Award Start Date:** 7/1/2018
Award End Date: 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Jason Allen, MD, PhD

Program Type: Innovative Project Award **Institution:** Emory University, Atlanta
City/State: Atlanta, GA **Project Title:** A fluid dynamics mechanism for stroke in patients
with carotid webs **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2
Total Award Amount: \$200,000

Ryan Allen, BS, MS, PhD

Program Type: Innovative Project Award **Institution:** Vanderbilt University Medical
Center **City/State:** Nashville, TN **Project Title:** A Novel Paradigm for LDL-Associated
Extracellular Small RNA in the Pathogenesis of Atherosclerosis **Award Start Date:**
7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Rajarajan Amirthalingam Thandavarayan, PhD, MPH

Program Type: Innovative Project Award **Institution:** Houston Methodist Research
Institute **City/State:** Houston, TX **Project Title:** Role of histone deacetylase in premature
endothelial senescent cells **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020
Total Years: 2 **Total Award Amount:** \$200,000

Reza Ardehali, BS, PhD, MD

Program Type: Innovative Project Award **Institution:** UCLA Department of Medicine
City/State: Los Angeles, CA **Project Title:** The role of cardiac pericytes in myocardial
fibrosis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total
Award Amount:** \$200,000



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Louis Awad, PhD, PT, BS

Program Type: Innovative Project Award **Institution:** Boston University, Boston
City/State: Boston, MA **Project Title:** TASK-AWARE MOVEMENT ASSESSMENT: SMART CONTROL OF POWERED ASSISTIVE TECHNOLOGIES AND AUTOMATED DIAGNOSTIC TESTING **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$199,958

Mona Bahouth, MSN, MD

Program Type: Innovative Project Award **Institution:** Johns Hopkins University School of Medicine **City/State:** Baltimore, MD **Project Title:** Hydration is vital: Understanding the neuro-consequences of dehydration after stroke **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$198,590

Jill Barnes, PhD, MA, BS

Program Type: Innovative Project Award **Institution:** University of Wisconsin, Madison
City/State: Madison, WI **Project Title:** Does time-restricted feeding normalize diurnal blood pressure patterns and neurovascular control mechanisms? **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Bradley Berron, PhD, BS

Program Type: Innovative Project Award **Institution:** University of Kentucky, Lexington
City/State: Lexington, KY **Project Title:** Intentional positioning of cells in a decellularized heart **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Elvin Blanco, BS, MS, PhD

Program Type: Innovative Project Award **Institution:** Houston Methodist Research Institute **City/State:** Houston, TX **Project Title:** Mitochondrial transplantation as a strategy to metabolically reprogram macrophages in atherosclerotic lesions **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Titus Boggon, PhD

Program Type: Innovative Project Award **Institution:** Yale University **City/State:** New Haven, CT **Project Title:** Modulating RHO cascades for new cardiovascular therapeutics **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000



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Sarah Borengasser, PhD

Program Type: Innovative Project Award **Institution:** University of Colorado Denver
City/State: Denver, CO **Project Title:** EPIGENETIC AND MICROBIOME RESPONSES TO A
WEIGHT LOSS INTERVENTION **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020
Total Years: 2 **Total Award Amount:** \$199,451

Clemens Cabernard, PhD

Program Type: Innovative Project Award **Institution:** University of Washington, Seattle
City/State: Seattle, WA **Project Title:** Molecular and biophysical changes associated
with stem cell aging **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total
Years:** 2 **Total Award Amount:** \$199,987

Alan Cantor, MD PhD

Program Type: Innovative Project Award **Institution:** Boston Children's Hospital
City/State: Boston, MA **Project Title:** 3D Chromatin Interaction Analysis to Accurately
Map Cis-Regulatory Elements to Human Megakaryocyte/Platelet Genes **Award Start
Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:**
\$200,000

Alejandro Chade, MD

Program Type: Innovative Project Award **Institution:** University of Mississippi Medical
Center **City/State:** Jackson, MS **Project Title:** Selective renal targeting to counteract
inflammation in chronic kidney disease via kidney-specific delivery technology **Award
Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:**
\$200,000

Jiang Chang, PhD, MD

Program Type: Innovative Project Award **Institution:** Texas A&M University Health
Science Center **City/State:** College Station, TX **Project Title:** Establishment of an
endogenous cardiac exosome tracking system **Award Start Date:** 7/1/2018 **Award End
Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Tara Chang, BA, MD, MS

Program Type: Innovative Project Award **Institution:** Stanford University, Stanford
City/State: Stanford, CA **Project Title:** CREATING A PLATFORM FOR POINT-OF-CARE
PRAGMATIC CLINICAL TRIALS: COMPARING DIURETIC STRATEGIES IN HEART FAILURE
Award Start Date: 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award
Amount:** \$200,000



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Baoyu Chen, BS, MS, PhD

Program Type: Innovative Project Award **Institution:** Iowa State University **City/State:** Ames, IA **Project Title:** Exploring a Missing Mechanism that Links Redox Signaling to Actin Remodeling in Angiogenesis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Hueisheng Vincent Chen, MD, PhD

Program Type: Innovative Project Award **Institution:** Indiana University, Indianapolis **City/State:** Indianapolis, IN **Project Title:** Studying pathogenesis of Brugada Syndrome using patient-specific induced pluripotent stem cells (iPSCs) **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Zhongming Chen, MS, PhD

Program Type: Innovative Project Award **Institution:** University of Minnesota, Minneapolis **City/State:** Minneapolis, MN **Project Title:** Recording cell migration history in mouse heart with a genetic tool **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Aichi Chien, PhD

Program Type: Innovative Project Award **Institution:** University of California, Los Angeles **City/State:** Los Angeles, CA **Project Title:** Software to assess cerebral angioarchitecture and identify characteristics associated with stroke and recovery **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Michael Chin, PhD, MD

Program Type: Innovative Project Award **Institution:** Tufts Medical Center **City/State:** Boston, MA **Project Title:** Pathological Pathway Activation at Single Cell Resolution and Biomarker detection in Human Hypertrophic Cardiomyopathy **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Youngjae Chun, BS, MS, PhD

Program Type: Innovative Project Award **Institution:** University of Pittsburgh **City/State:** Pittsburgh, PA **Project Title:** Imperceptible, Nanostructured Electronic Stent for Wireless Surveillance of Restenosis in Coronary Artery Disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000



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Ivan Cokic, MD

Program Type: Innovative Project Award **Institution:** Cedars-Sinai Medical Center
City/State: Los Angeles, CA **Project Title:** Use of Antiallergic Drugs for Prevention of Fat
Deposition in Infarcted Myocardium **Award Start Date:** 7/1/2018 **Award End Date:**
6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Rachelle Crescenzi, PhD, BS

Program Type: Innovative Project Award **Institution:** Vanderbilt University Medical
Center **City/State:** Nashville, TN **Project Title:** Magnetic Resonance Imaging tools to
explore lymphatic clearance of tissue sodium **Award Start Date:** 7/1/2019 **Award End
Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Andras Czirok, PhD

Program Type: Innovative Project Award **Institution:** University of Kansas Medical
Center **City/State:** Kansas City, KS **Project Title:** Medium throughput cardiotoxicity
screening utilizing avian embryos, image processing and machine learning **Award Start
Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:**
\$200,000

Guohao Dai, PhD

Program Type: Innovative Project Award **Institution:** Northeastern University, Boston
City/State: Boston, MA **Project Title:** Bioengineer autonomic neurovascular system to
explore the innervation of vascular grafts **Award Start Date:** 7/1/2019 **Award End Date:**
6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

James Daley, MD, BS, MPH, MS

Program Type: Innovative Project Award **Institution:** Yale University **City/State:** New
Haven, CT **Project Title:** The use of REBOA as an adjunct to ACLS in non-traumatic
cardiac arrest **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2
Total Award Amount: \$199,998

Saumya Das, BA, MD, PhD

Program Type: Innovative Project Award **Institution:** Massachusetts General Hospital
City/State: Boston, MA **Project Title:** Mechanisms of Obesity Related Atrial Fibrillation
Award Start Date: 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award
Amount:** \$200,000



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Jesse Davidson, MD, MPH

Program Type: Innovative Project Award **Institution:** University of Colorado Denver
City/State: Denver, CO **Project Title:** Pulmonary Vascular Growth in Infants with Single Ventricle Heart Disease: Deep Phenotyping and Biomarker Development **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Sanjana Dayal, PhD

Program Type: Innovative Project Award **Institution:** University of Iowa, Iowa City
City/State: Iowa City, IA **Project Title:** Role of gut microbiome in age-associated thrombosis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Edward Debold, PhD, MS, BSE

Program Type: Innovative Project Award **Institution:** University of Massachusetts, Amherst
City/State: Amherst, MA **Project Title:** Development of a synthetic high-energy molecule to power muscle function during acute myocardial ischemia and fatigue **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Amedee Des Georges, PhD, MS, BS

Program Type: Innovative Project Award **Institution:** Research Foundation CUNY-Advanced Science Research Center
City/State: New York, NY **Project Title:** Deciphering GPCR signaling by allosteric and biased ligands using cryo-EM. **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$199,234

Wenji Dong, MS, PhD

Program Type: Innovative Project Award **Institution:** Washington State University, Pullman
City/State: Pullman, WA **Project Title:** Targeted in situ/in vivo Reconstitution of Myosin Binding Protein C (MyBP-C) in the C-Zone of Cardiac Sarcomeres **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Partha Dutta, PhD, MS, DVM

Program Type: Innovative Project Award **Institution:** University of Pittsburgh **City/State:** Pittsburgh, PA
Project Title: Hematopoietic stem and progenitor cell relocation and activation in the bone marrow after myocardial infarction **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000



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Pirooz Eghtesady, PhD, MD

Program Type: Innovative Project Award **Institution:** Washington University **City/State:** Saint Louis, MO **Project Title:** The Role of Maternal Virome in Development of Congenital Heart Diseases **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Daniel Ennis, PhD

Program Type: Innovative Project Award **Institution:** Stanford University School of Medicine, Palo Alto **City/State:** Palo Alto, CA **Project Title:** The Cardiac Connectome for Understanding the Electromechanics of Heart Failure **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Yi Fan, PhD, MD

Program Type: Innovative Project Award **Institution:** University of Pennsylvania **City/State:** Philadelphia, PA **Project Title:** Endothelial transformation drives non-productive neovascularization after myocardial infarction **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Ning Feng, MD PhD

Program Type: Innovative Project Award **Institution:** University of Pittsburgh **City/State:** Pittsburgh, PA **Project Title:** The impact of TET proteins mediated active DNA demethylation on heart failure development **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Maros Ferencik, PhD, MD

Program Type: Innovative Project Award **Institution:** Oregon Health & Science University, Portland **City/State:** Portland, OR **Project Title:** Coronary plaque burden, metabolomics and lipidomics abnormalities in subjects with epigenetic regulatory gene mutations **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$199,904

James Friend, PhD

Program Type: Innovative Project Award **Institution:** University of California, San Diego **City/State:** La Jolla, CA **Project Title:** Fully steerable microcatheters for quantifiably effective treatment of strokes **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$199,812



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Cristi Galindo, PhD

Program Type: Innovative Project Award **Institution:** Vanderbilt University Medical Center **City/State:** Nashville, TN **Project Title:** Mechanisms and assessment of brain-derived neurotrophic factor (BDNF) as a treatment for Duchenne cardiomyopathy **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Elena Galkina, PhD

Program Type: Innovative Project Award **Institution:** Eastern Virginia Medical School, Norfolk **City/State:** Norfolk, VA **Project Title:** Role of sleep fragmentation in atherosclerosis and associated metabolic dysfunction **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$196,866

Ian Gallicano, BS, MS, PhD

Program Type: Innovative Project Award **Institution:** Georgetown University **City/State:** Washington, DC **Project Title:** Molecular correction of mis-expressed genes that lead to Heart Failure **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Asish Ghosh, PhD

Program Type: Innovative Project Award **Institution:** Northwestern University, Chicago **City/State:** Chicago, IL **Project Title:** Plasminogen Activator System in Air Pollutants-Induced Cardiovascular Disease **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Joaquin Gonzales, PhD

Program Type: Innovative Project Award **Institution:** Texas Tech University, Lubbock **City/State:** Lubbock, TX **Project Title:** Effect of Pulsatile Pressure and Long Sleep Duration on Cerebral Vascular Function **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$197,451

Roberta Gottlieb, MD

Program Type: Innovative Project Award **Institution:** Cedars-Sinai Medical Center **City/State:** Los Angeles, CA **Project Title:** Rapid intracellular delivery of Fv-Hsp72 for treatment of ER stress in heart failure **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000



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Parag Goyal, MD, MSc

Program Type: Innovative Project Award **Institution:** Weill Medical College of Cornell University **City/State:** New York, NY **Project Title:** Safety of Neurohormonal Antagonist Initiation Among Older Adults Following a Heart Failure Hospitalization **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Isabella Grumbach, MD PhD

Program Type: Innovative Project Award **Institution:** University of Iowa, Iowa City **City/State:** Iowa City, IA **Project Title:** New models of radiation endotheliopathy **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Lahouaria Hadri, PhD

Program Type: Innovative Project Award **Institution:** Icahn School of Medicine at Mount Sinai **City/State:** New York, NY **Project Title:** Extracellular vesicles secreted by human Induced Pluripotent Stem Cells (iPSC)-derived Vascular Cells as Novel Biomarker **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Jin-Oh Hahn, PhD, MS, BS

Program Type: Innovative Project Award **Institution:** University of Maryland **City/State:** College Park, MD **Project Title:** Ultra-Convenient Cardiovascular Risk Predictors Measurement Based on the Ballistocardiogram **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Marc Halterman, PhD, MD

Program Type: Innovative Project Award **Institution:** University of Rochester Medical Center **City/State:** Rochester, NY **Project Title:** GFP-tagging the ER-stress proteome to address bottlenecks in neurotherapeutics discovery **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Alyssa Hasty, PhD

Program Type: Innovative Project Award **Institution:** Vanderbilt University **City/State:** Nashville, TN **Project Title:** Genetic Barcoding to Deconvolute T Cell Clonal Expansion in Obesity **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000



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Narutoshi Hibino, MD, PhD

Program Type: Innovative Project Award **Institution:** Johns Hopkins University School of Medicine **City/State:** Baltimore, MD **Project Title:** Bio 3d printed cardiac tissue to investigate pathogenesis of single ventricle **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Karen Hirsch, MD, BA

Program Type: Innovative Project Award **Institution:** Stanford University School of Medicine, Palo Alto **City/State:** Palo Alto, CA **Project Title:** A systems-based mass cytometry approach to study the post-cardiac arrest immune response **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Elizabeth Hunt, BS, MD, MPH, PhD

Program Type: Innovative Project Award **Institution:** Johns Hopkins University **City/State:** Baltimore, MD **Project Title:** Development of a Large Screen Integrated Data Display to Facilitate Pediatric Cardiac Arrest Management **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Kiho Im, PhD

Program Type: Innovative Project Award **Institution:** Boston Children's Hospital **City/State:** Boston, MA **Project Title:** Developing a Predictive Model of Fetal to Neonatal Brain Development in Congenital Heart Disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$194,896

Thomas Irving, BSC

Program Type: Innovative Project Award **Institution:** Illinois Institute of Technology, Chicago **City/State:** Chicago, IL **Project Title:** Multiscale Modeling and X-ray Diffraction: A novel approach to understanding heart disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$198,426

Kai Jiao, MD, PhD

Program Type: Innovative Project Award **Institution:** University of Alabama at Birmingham **City/State:** Birmingham, AL **Project Title:** Examine the impact of congenital heart diseases on Alzheimer's disease. **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000



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Ioannis Karakikes, PhD

Program Type: Innovative Project Award **Institution:** Stanford University, Stanford
City/State: Stanford, CA **Project Title:** Genetic Engineering to Protect Against
Cardiovascular Disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total
Years:** 2 **Total Award Amount:** \$200,000

Joern Karhausen, MD

Program Type: Innovative Project Award **Institution:** Duke University Medical Center
City/State: Durham, NC **Project Title:** Enhanced neutrophil SUMOylation as a key to
anti-inflammatory effects of hypothermia. **Award Start Date:** 7/1/2019 **Award End
Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Harry Karmouty-Quintana, BSC, PhD

Program Type: Innovative Project Award **Institution:** The University of Texas Health
Science Center at Houston **City/State:** Houston, TX **Project Title:** Ex-Vivo Lung Perfusion
in Acute Lung Injury **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total
Years:** 2 **Total Award Amount:** \$200,000

Kun-Eek Kil, PhD

Program Type: Innovative Project Award **Institution:** University of Missouri, Columbia
City/State: Columbia, MO **Project Title:** Development of Small-molecule CXCR3 PET
Radiotracers for Atherosclerosis Imaging in Live Animals **Award Start Date:** 7/1/2018
Award End Date: 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Daniel Kim, PhD

Program Type: Innovative Project Award **Institution:** Northwestern University, Chicago
City/State: Chicago, IL **Project Title:** Wideband Cardiac MRI for Predicting Right Heart
Failure after LVAD Implantation **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021
Total Years: 2 **Total Award Amount:** \$200,000

Nam Chul Kim, PhD

Program Type: Innovative Project Award **Institution:** University of Minnesota,
Minneapolis **City/State:** Minneapolis, MN **Project Title:** Liquid-liquid phase separation
in mitochondria **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2
Total Award Amount: \$200,000

Nalinikanth Kotagiri, MBBS, PhD

Program Type: Innovative Project Award **Institution:** University of Cincinnati **City/State:**
Cincinnati, OH **Project Title:** Accurate and early noninvasive imaging of bacterial
endocarditis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2
Total Award Amount: \$200,000



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Daniel Lark, PhD, MSc, BS

Program Type: Innovative Project Award **Institution:** Colorado State University, Fort Collins **City/State:** Fort Collins, CO **Project Title:** A Novel Strategy to Study Cell-Specific Exosomes Secreted In Vivo **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Rebecca Levit, MD

Program Type: Innovative Project Award **Institution:** Emory University, Atlanta **City/State:** Atlanta, GA **Project Title:** The role of lymphatics in cardiac transplant allograft dysfunction **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$199,993

Xianshuang Liu, PhD, MS

Program Type: Innovative Project Award **Institution:** Henry Ford Health System **City/State:** Detroit, MI **Project Title:** The role of gut microbiota-derived exosomes in neurovascular unit after stroke **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Yu Liu, MD, PhD

Program Type: Innovative Project Award **Institution:** University of Houston, Houston **City/State:** Houston, TX **Project Title:** Super-lncRNA/super-enhancer interaction is a novel mechanism in regulating cardiac cell fate **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Thomas Longden, BSc, PhD

Program Type: Innovative Project Award **Institution:** University of Maryland, Baltimore **City/State:** Baltimore, MD **Project Title:** Blood Flow in Learning and Memory **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Timothy Mader, MD

Program Type: Innovative Project Award **Institution:** Baystate Medical Center **City/State:** Springfield, MA **Project Title:** Novel ventricular fibrillation resuscitation drug cocktail development: Proof of concept **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$199,998



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Meena Madhur, PhD, MD

Program Type: Innovative Project Award **Institution:** Vanderbilt University Medical Center **City/State:** Nashville, TN **Project Title:** Using CITE-Seq and Mendelian Randomization to Identify Novel Inflammatory Mediators of Heart Failure with Preserved Ejec **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Keefe Manning, PhD, MS, BS

Program Type: Innovative Project Award **Institution:** Pennsylvania State University, University Park **City/State:** University Park, PA **Project Title:** Programmable Drug-Releasing Surface for Anti-thrombosis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Elisabeth Marsh, MD

Program Type: Innovative Project Award **Institution:** Johns Hopkins University School of Medicine **City/State:** Baltimore, MD **Project Title:** Imaging the Network: Using MEG to Understand the Pathophysiology of Cognitive Deficits After Minor Stroke **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Cindy Martin, MD

Program Type: Innovative Project Award **Institution:** University of Minnesota, Minneapolis **City/State:** Minneapolis, MN **Project Title:** Systemic right ventricle molecular analysis and novel swine model development **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Linda May, PhD, MS

Program Type: Innovative Project Award **Institution:** East Carolina University **City/State:** Greenville, NC **Project Title:** Influence of maternal exercise on Infant skeletal muscle and metabolomics **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Coleen Mcnamara, MD

Program Type: Innovative Project Award **Institution:** University of Virginia, Charlottesville **City/State:** Charlottesville, VA **Project Title:** Precision Immune Phenotyping for Personalized Therapy for Cardiovascular Disease **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000



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Jacob Mcpherson, PhD

Program Type: Innovative Project Award **Institution:** Florida International University, Miami **City/State:** Miami, FL **Project Title:** Restorative neuroplasticity in brainstem motor pathways to enhance rehabilitation post-stroke **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$199,998

Brett Mitchell, PhD

Program Type: Innovative Project Award **Institution:** Texas A&M University Health Science Center **City/State:** College Station, TX **Project Title:** Determining how microbiota-derived tryptophan metabolites regulate lymphocyte function in hypertension **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Joshua Morgan, PhD

Program Type: Innovative Project Award **Institution:** University of California, Riverside **City/State:** Riverside, CA **Project Title:** Integration of tardigrade survival proteins to increase resilience of vascularized graft tissue in ischemic environments **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Patrick Murphy, BA, PhD

Program Type: Innovative Project Award **Institution:** University of Connecticut, Farmington **City/State:** Farmington, CT **Project Title:** Functional Assessment of Post-transcriptional Modulation of Endothelial Inflammation by RNA binding Proteins. **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Young-Jae Nam, MD, PhD

Program Type: Innovative Project Award **Institution:** Vanderbilt University Medical Center **City/State:** Nashville, TN **Project Title:** Identifying the regulators for myofibroblast de-differentiation **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Claudia Nau, MA, PhD

Program Type: Innovative Project Award **Institution:** Kaiser Foundation Hospitals **City/State:** Oakland, CA **Project Title:** Electronic Health Records for assessing real-time changes in local CVD risk-factor prevalence **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000



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Surya Nauli, PhD, BS

Program Type: Innovative Project Award **Institution:** Chapman University **City/State:** Orange, CA **Project Title:** Aneurysm and Nanoparticles **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Patricia Nguyen, BS, MD

Program Type: Innovative Project Award **Institution:** Stanford University, Stanford **City/State:** Stanford, CA **Project Title:** Toward the Identification of Patient-Specific Antigens Causing Atherosclerosis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Eric Nuxoll, PhD, BS, BS

Program Type: Innovative Project Award **Institution:** University of Iowa, Iowa City **City/State:** Iowa City, IA **Project Title:** Thermoelectric Mitigation of Implant Infections **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

W Charles Oneill, BS, MD

Program Type: Innovative Project Award **Institution:** Emory University, Atlanta **City/State:** Atlanta, GA **Project Title:** Mobilization of osteoclasts to treat vascular calcification **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$199,624

Albert Owens, PhD, BS

Program Type: Innovative Project Award **Institution:** University of Cincinnati **City/State:** Cincinnati, OH **Project Title:** The Role of Pulmonary Alveolar Microlithiasis in Cardiovascular Disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Jinjiang Pang, MD PhD, MD

Program Type: Innovative Project Award **Institution:** University of Rochester Medical Center **City/State:** Rochester, NY **Project Title:** The novel mechanism of HIV-PAH **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Sang Park, PhD

Program Type: Innovative Project Award **Institution:** Boston Children's Hospital **City/State:** Boston, MA **Project Title:** Mechanisms underlying obesity-induced cardiovascular disease **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000



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Ravi Ranjan, BS, MSE, PhD, MD

Program Type: Innovative Project Award **Institution:** University of Utah **City/State:** Salt Lake City, UT **Project Title:** Computational Modeling Guided Ablation for Atrial Arrhythmias **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

M Ann Reinthal, PhD

Program Type: Innovative Project Award **Institution:** Cleveland State University **City/State:** Cleveland, OH **Project Title:** Balance training post stroke: Intense harnessed multidirectional gaming compared to reactive and conventional protocols **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$195,446

Gonzalo Rivera, PhD, DVM

Program Type: Innovative Project Award **Institution:** Texas A&M University, College Station **City/State:** College Station, TX **Project Title:** Regulation of the endothelial translome by arterial stiffening in atherosclerosis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Hannele Ruohola-Baker, PhD

Program Type: Innovative Project Award **Institution:** University of Washington, Seattle **City/State:** Seattle, WA **Project Title:** Directed trans-differentiation for heart regeneration **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

William Rymer, MD PhD

Program Type: Innovative Project Award **Institution:** Rehabilitation Institute of Chicago **City/State:** Chicago, IL **Project Title:** An Exploration of Acute Intermittent Hypoxia as a Tool to Enhance Neural Recovery in Stroke Survivors **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$199,991

Kathryn Sandberg, PhD

Program Type: Innovative Project Award **Institution:** Georgetown University **City/State:** Washington, DC **Project Title:** REVERSING CARDIO-METABOLIC DISEASE RISK ASSOCIATED WITH VERY LOW FOOD SECURITY **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000



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Yassine Sassi, PhD

Program Type: Innovative Project Award **Institution:** Icahn School of Medicine at Mount Sinai **City/State:** New York, NY **Project Title:** Myocardial activities of extracellular vesicles-derived miRNAs from Bovine milk **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Takashi Sato, PhD

Program Type: Innovative Project Award **Institution:** Medical University of South Carolina **City/State:** Charleston, SC **Project Title:** Neural circuit mechanisms underlying functional recovery following stroke **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Victor Schuster, MD

Program Type: Innovative Project Award **Institution:** Albert Einstein College of Medicine **City/State:** Bronx, NY **Project Title:** Preventing ischemia-reperfusion injury by blocking the maxi-anion channel **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Evan Scott, PhD

Program Type: Innovative Project Award **Institution:** Northwestern University, Evanston **City/State:** Evanston, IL **Project Title:** Multiplexed cellular MRI for quantitative assessment of vascular plaque instability **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Sabrina Scroggins, PhD

Program Type: Innovative Project Award **Institution:** University of Iowa, Iowa City **City/State:** Iowa City, IA **Project Title:** Treatment of Preeclampsia Using Cellular Immunotherapy **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$199,997

Cyndya Shibao, BS, MD, MSc

Program Type: Innovative Project Award **Institution:** Vanderbilt University Medical Center **City/State:** Nashville, TN **Project Title:** Orthostatic Intolerance after Bariatric Surgery **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Su Ryon Shin, PhD, MS, BS

Program Type: Innovative Project Award **Institution:** Brigham & Women's Hospital **City/State:** Boston, MA **Project Title:** In situ bioprinting of personalized iPSC-laden oxygen generating implants for myocardial infarction treatment **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000



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Eduardo Silva, PhD

Program Type: Innovative Project Award **Institution:** University of California, Davis
City/State: Davis, CA **Project Title:** Engineering new vascular networks with therapeutic lymphangiogenesis strategies **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021
Total Years: 2 **Total Award Amount:** \$200,000

Namrata Singh, MSc, MD

Program Type: Innovative Project Award **Institution:** University of Iowa, Iowa City
City/State: Iowa City, IA **Project Title:** Hydroxychloroquine use and the risk of incident major cardiovascular events **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021
Total Years: 2 **Total Award Amount:** \$200,000

Long-Sheng Song, MD, MS

Program Type: Innovative Project Award **Institution:** University of Iowa, Iowa City
City/State: Iowa City, IA **Project Title:** Determining the role of junctophilin-2 in vascular smooth muscle physiology and disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021
Total Years: 2 **Total Award Amount:** \$200,000

Andrew Southerland, MD, MSc

Program Type: Innovative Project Award **Institution:** University of Virginia,
Charlottesville **City/State:** Charlottesville, VA **Project Title:** Characterization of
Abnormal Eye Movements in Posterior Circulation Stroke using Computer Vision
Analysis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total
Award Amount:** \$200,000

William Thiel, BS, PhD

Program Type: Innovative Project Award **Institution:** University of Iowa, Iowa City
City/State: Iowa City, IA **Project Title:** Generation of Cardiac Specific Aptamer Ligands
Award Start Date: 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award
Amount:** \$200,000

Michael Tranter, BS, PhD

Program Type: Innovative Project Award **Institution:** University of Cincinnati **City/State:**
Cincinnati, OH **Project Title:** RNA aptamer homing beacons to reduce obesity **Award
Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:**
\$200,000



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Le Trinh, PhD

Program Type: Innovative Project Award **Institution:** University of Southern California
City/State: Los Angeles, CA **Project Title:** Decoding noncoding GWAS in Congenital Heart Disease **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2
Total Award Amount: \$200,000

Philip Tsao, PhD, BS

Program Type: Innovative Project Award **Institution:** Palo Alto Veterans Institute for Research
City/State: Palo Alto, CA **Project Title:** Plasma therapy for abdominal aortic aneurysm **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Nikoleta Tsvetanova, BA, PhD

Program Type: Innovative Project Award **Institution:** Duke University Durham
City/State: Durham, NC **Project Title:** Decoding human genetic variation by functional dissection of beta2-adrenergic receptor signaling **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Steven Van Doren, PhD

Program Type: Innovative Project Award **Institution:** University of Missouri, Columbia
City/State: Columbia, MO **Project Title:** Quantifying Cardiac Motion Abnormalities on MR Exams using Principle Component Analysis **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Charles Wang, MD, MPH, PhD

Program Type: Innovative Project Award **Institution:** Loma Linda University **City/State:** Loma Linda, CA **Project Title:** A novel approach of generating and epigenomic characterization of cardiomyocytes from human peripheral blood cells **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

David Wang, PhD

Program Type: Innovative Project Award **Institution:** Washington University **City/State:** Saint Louis, MO **Project Title:** The role of Astrovirus VA1 and other unrecognized viruses in idiopathic myocarditis **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000



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Zhao Wang, PhD, MS, BS

Program Type: Innovative Project Award **Institution:** University of Texas Southwestern Medical Center **City/State:** Dallas, TX **Project Title:** Chimeric RNA in pathological cardiac remodeling **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Robert Weiss, MD

Program Type: Innovative Project Award **Institution:** University of Iowa, Iowa City **City/State:** Iowa City, IA **Project Title:** Targeting Transient Receptor Potential Cation Channel Subfamily V Member 4 Signaling in Aortic Valve Disease **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Colin Wu, BS, PhD

Program Type: Innovative Project Award **Institution:** Oakland University **City/State:** Rochester, MI **Project Title:** Amyloid disease of the heart: mechanism and treatment **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$161,942

Junjie Yang, PhD

Program Type: Innovative Project Award **Institution:** University of Alabama at Birmingham **City/State:** Birmingham, AL **Project Title:** Cardiac specific delivery of exosomes **Award Start Date:** 7/1/2019 **Award End Date:** 6/30/2021 **Total Years:** 2 **Total Award Amount:** \$200,000

Quanguang Zhang, PhD

Program Type: Innovative Project Award **Institution:** Augusta University **City/State:** Augusta, GA **Project Title:** Combination Treatment with Pulsed Electromagnetic Field and Hypothermia in Global Cerebral Ischemia **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000

Yiqiang Zhang, BS, MSc, PhD

Program Type: Innovative Project Award **Institution:** University of Washington, Seattle **City/State:** Seattle, WA **Project Title:** Visualization and Bioengineering of Cardiomyocyte Epigenetics **Award Start Date:** 7/1/2018 **Award End Date:** 6/30/2020 **Total Years:** 2 **Total Award Amount:** \$200,000