



## 2019 CNAHA/ACRE/CAAC Joint Research Symposium

Chinese American Heart Association 美国华裔心脏协会 (CNAHA)  
Academy of Cardiovascular Research Excellence 恩科心血管研究院 (ACRE)  
Chinese American Academy of Cardiology 北美中华心脏学会 (CAAC)

101 Mandeville Conference Hall, Bluemle Life Science Building  
Sidney Kimmel Cancer Center, Thomas Jefferson University  
233 S 10th St, Philadelphia, PA, USA

**(1-7:25 pm Friday, November 15, 2019)**

Speakers need to bring their presentations on a flash drive and load slide files on the laptop in the meeting room.

**Opening:** 12:50 – 1:00 Drs. **Li Zhang, Gangjian Qin & Hong Wang, Presidents of CNAHA, ACRE & CAAC**

### **Session I. Featured Scientific Presentation Part 1 (1:00-2:20 pm)**

Chairs: Drs. Faqian Li, Hua Zhu, Jun Yu

1:00-1:15 pm **Adipocyte exosome dysfunction as a novel mechanism of diabetic cardiac injury**  
Yajing Wang, MD, PhD, Associate Professor, Thomas Jefferson University, Philadelphia, PA, USA

1:20-1:35 pm **Myocarditis: From bench to bedside --- Experience from Fuwai Hospital**  
Jiangping Song, MD, PhD, Professor, Fuwai Hospital, Beijing, China

1:40-1:55 pm **Diabetic cardiomyopathy and its prevention with Nrf2 and metallothionein**  
Lu Cai, MD, PhD, Professor, Director of Pediatric Research Institute, University of Louisville School of Medicine, KY, USA

2:00-2:15 pm **Novel beta-adrenergic signaling and heart diseases**  
Xiongwen Chen, PhD Associate Professor, Temple University Lewis Katz School of Medicine, Philadelphia, PA, USA

Break (5 min)

### **Session II. Young Investigator Abstract Oral Presentation (2:25-3:45 pm)**

Chairs: Drs. Jie Cheng, Jiang Chang, Jun Yu

2:25-2:35 pm **Circadian rhythm disruption promotes myocardial ischemia reperfusion injury: the key role of Rev-erba**. Yichao Zhao, et al. School of Medicine, Shanghai Jiaotong University

2:40-2:50 pm **Vesselin, a novel regulator for vascular morphogenesis, regulates neovascularization after ischemia.** Maohuan Lin, et al. University of Pennsylvania

2:55-3:10 pm **Latexin is a key mediator of abdominal aortic aneurysm development.** Kyosuke Kazama, et al. Thomas Jefferson University

3:05-3:15 pm **Critical Role of Stress-response C-jun N-terminal Kinase in Inflammatory Bowel Disease-associated Atrial Fibrillation.** Elena Carrillo, et al. University of Chicago

3:20-3:30 pm **Empagliflozin Improves Heart Failure Caused By Pressure Overload By Regulating Cardiac Metabolism** Xuan Li, et al. University of Mississippi Medical Center

Break (3:36-3:49 pm)

### **Session III. CNAHA Bernard Lown Lectureship (3:50-4:10 pm)**

Chairs: Drs Li Zhang, Yuxin Fan

3:50-4:10 pm **Cell therapy for heart failure: An update**

Jie Cheng, MD, PhD, FHRS, FACC, Clinical Professor of Medicine, Baylor College of Medicine  
Director, Cardiac Electrophysiology Research Laboratory, Texas Heart Institute/St. Luke's Episcopal Hospital,  
Houston, TX, USA

Break (5 min)

### **Session IV. Featured Scientific Presentation Part 2 (4:10-5:30 pm)**

Chairs: Drs. Yuxin Fan, Xiaofeng Yang, Yajing Wang

4:15-4:30 pm **Effect of iron overload on cardiac electrophysiology, mitochondrial Ca handling and arrhythmogenicity**

Laihua Xie, PhD, FAHA, Associated Professor, Department of Cell Biology and Molecular Medicine, Rutgers  
University-New Jersey Medical School, USA

4:35-4:50 pm **Gender difference in the U-shaped association of HDL cholesterol with mortality: Results from the Chinese electronic health records research in Yinzhou (CHERRY)**

Pei Gao, PhD, Professor, Department of Epidemiology and Biostatistics, School of Public Health, Peking  
University, Beijing, China

4:55-5:10 pm **Advances in the percutaneous treatment of aortic valve disease**

Robert H. Li, MD, Co-Director of TAVR Program, UPenn Presbyterian Medical Center, Philadelphia, PA, USA

5:15-5:30 pm **A life support-based comprehensive treatment regimen dramatically lowers the in-hospital mortality of patients with fulminant myocarditis**

Daowen Wang, MD, PhD, FACC, Professor of Medicine, Chair of Department of Medicine/Cardiology  
Division

Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China

Break (10 min)

### **Session V. Distinguished Lectures (5:40-6:30 pm)**

Chairs: Drs Li Zhang, Gangjian Qin & Hong Wang

5:40-6:00 pm **Protein misfolding diseases: Lessons from Alzheimer's to cardiomyopathy and the AHA**  
Ivor J. Benjamin, MD, FAHA, Immediate Past President of AHA, Professor, Director of the Cardiovascular Center, Medical College of Wisconsin, Milwaukee, WI, USA

6:05-6:25 pm **Genetics of cardiomyopathies**

Elizabeth McNally MD PhD, Ward Professor and Director, Center for Genetic Medicine, Northwestern University, Chicago, IL, USA

**Session VI. Poster Presentation (6:35-7:25 pm)\***

Chairs: Drs. Rongxue (Rosie) Wu, Zhao Wang, Xun Ai

(\* Poster session is conducted during box dinner time)

1. Sestrin1 Deficiency Aggravates Inflammation-Associated Cardiac Dysfunction through Disruption of LXR $\alpha$  Signaling
2. Sestrin2-mTORC1 Signaling Mediates Myocardial Endoplasmic Reticulum Stress During Ischemia/reperfusion
3. Cardiomyocytes Differentiated From CCND2-overexpressing Human Induced-pluripotent Stem Cells Remuscularize the Myocardial Scar in Mice: A 6-month Study
4. Activated Protein C restoration of aged heart augments resistance to ischemic insults by modulating substrate metabolisms
5. Aged-related Sestrin2 modulates Pyruvate Dehydrogenase activity leading to an adaptive metabolic response during ischemia/reperfusion stress
6. Monocyte derived cleaved Dll4 inhibits Notch1 activation in endothelial cell and promotes pulmonary arterial hypertension progression
7. Trimethylamine -N-oxide induces osteogenic responses in human aortic valve interstitial cells in vitro and aggravates aortic valve lesions in mice
8. TRIC-A maintains store calcium handling by interacting with type 2 ryanodine receptor in cardiac muscle
9. Inhibition of primary cilium assembly promotes epicardial epithelial-to-mesenchymal transition, neovascularization, and cardiac repair post-myocardial infarction
10. Endothelial HSPA12B and YAP cooperatively promote angiogenesis following myocardial infarction.
11. Age-related SIRT1 Regulates Mitochondrial SIRT3 In Ischemic Heart .
12. Vitamin C Modulates Risk of Peripheral Arterial Disease in Smokers: Results from NHANES 2003–2004
13. Endothelial cell specific HSPA12B promotes macrophage polarization toward to a regenerative phenotype following myocardial infarction
14. Functions of Numb and Numbl in Exosome Secretion in Cardiomyocytes
15. Single-Cell RNA-Seq and Patient-Specific iPSCs Reveal Endocardial Abnormalities in Hypoplastic Left Heart Syndrome
16. The activation of SIRT1 modulates cardiac NLRP3 inflammasome through metabolic regulation during ischemia/reperfusion
17. Single-cell Transcriptomes Identify Abnormal Endothelial Subpopulations in Pulmonary Arterial Hypertension
18. Sestrin2 Acts As An Adaptive Stress-Inducing Protein That Alleviates Age-related Cardiac Dysfunction
19. Vitamin D May Be Associated with the Renal Effects of Angiotensin II Receptor Blocker in African Americans.
20. The mediator of coronary dilation switch in metabolic syndrome

## **“Philly Night”**

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**(6:35 - 9:45 pm, Friday, November 15<sup>th</sup>, 2019)**

Chairs: Drs. Jianming Li, Xiongwen Chen, Jiang Chang, Xinliang Ma

**Dinner & Social Networking (6:35 - 7:30 pm)**

## **Welcome Speeches (7:31 - 7:40 pm)**

Li Zhang, MD, Co-President of CNAHA (3 min)  
Hong Wang, MD, PhD, Co-President of CAAC (3 min)  
Gangjian Qin, PhD, President of ACRE (3 min)

## **Leadership & Special Guest Remarks (7:41 - 8:10 pm)**

Ivor Benjamin, MD, PhD, Immediate Past President of AHA, (3 min)  
Steven R. Houser, PhD, Past President of AHA (3 min)  
Sakthivel Sadayappan, PhD, AHA BCVS Program Co-chair (3 min)  
Elizabeth McNally, MD, PhD, Vice Chair of the BCVS Council (3 min)  
Alan Daugherty, PhD, Past Chair of AHA council on ATVB, Editor-in-Chief, ATVB (3 min)  
Mary Sorci-Thomas, PhD, FAHA Chair, AHA, Council on ATVB (3 min)

## **Keynote Speech (8:11 - 8:30 pm)**

**HFpEF: Malady, Model, and Mechanisms**  
Joseph Hill, MD, PhD, Editor-in-Chief, Circulation

## **Invited Speech (8:31 - 9:00 pm)**

8:31-8:45 pm **Innovations of Device Therapy in China and Opportunities**  
Junbo Ge, MD, PhD, President, Oriental Congress of Cardiology

8:46-9:00 pm **Clinical research in China: Opportunities and challenges**  
Changsheng Ma, MD, PhD, President Elect, Chinese Society of Cardiology. Past President, Great Wall International Congress of Cardiology

## **Award Ceremony (9:00-9:30 pm)**

9:00-9:10 pm **Young Investigator Award**  
Chairs: Drs Jie Cheng, Jiang Chang, Wang Wang, Jun Yu

9:11-9:30 pm **ACRE Service Award**  
Chairs: Drs. Gangjian Qin, Jiang Chang

9:31-9:35 pm **Chinese Young Physician Basic Skill Competition Award (第二届"青年心峰"颁奖仪式)**  
Chairs: Drs. Li Zhang, Jianming Li, Junbo Ge

Social Networking (9:31-9:45 pm)

## **2019 Event Sponsors**



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