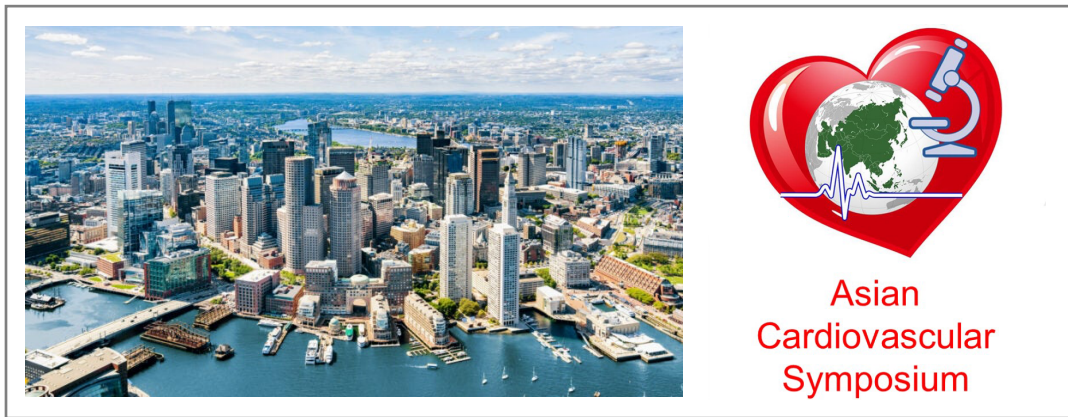




The 5th Asian Cardiovascular Symposium

A pre-meeting symposium of BCVS-2023

Sunday, July 30, 2023, Boston
Westin Boston Seaport District | Boston, Massachusetts
 425 Summer Street, Boston, MA 02210, USA



Jointly organized by:

- **Academy of Cardiovascular Research Excellence (ACRE)**
- **Japanese Cardiovascular Research Association (JCRA)**
- **Korean Cardiovascular Society (KCS)**
- **Society for South Asian Heart Research (SAHR)**

Program at a glance:

- **Noon to 1 PM – Registration**
- **1–5 PM – Society Programs**
- **5–7 PM – Poster Session**
- **7–10 PM – Keynote, Awards, Dinner, and Talent Show**

○ Keynote Speaker: Jay Zhang, PhD (UAB)

Register Now (on-line)

Questions about registration, please contact rwu3@bsd.uchicago.edu

On-site Registration

In front of Commonwealth A/B (Concourse level), Late fee may apply.
- near the entrance of The Westin from D St., next to the escalator to the lobby

Scan for registration





Overview of 5th ACS Program

12:00 PM - 1:00 PM	Registration (Concourse level, in front of Commonwealth A/B)			
1:00 PM - 5:00 PM	Society Program			
	ACRE -page 3- Stone (Lobby level)	JCRA -page 5- Otis (Lobby level)	KCS -page 7- Commonwealth A (Concourse level)	SAHR -page 9- Commonwealth B (Concourse level)
1:00 PM	Opening Session I	Opening Session I	Opening Session I	Opening Welcome Session I
2:00 PM				Session II
3:00 PM	Break Session II	Break Session II	Break Session II	Break Session III
4:00 PM	Sponsor I Session III		Session III	Session IV
5:00 PM	Sponsor II Annual ACRE mtg. Closing	Closing	Closing	Closing
5:00 PM - 6:45 PM	Poster Session (Galleria Hall)- page 15-			
7:00 PM - 10:00 PM	ACS Joint Assembly and Dinner (Commonwealth A/B- Concourse level) -page 13-			
7:00 PM	Opening			
7:05 PM	Dinner & Talent Show			
8:30 PM	ACS Program Introduction			
8:45 PM	BCVS Leadership Remarks			
9:00 PM	Keynote Speech - Jianyi (Jay) Zhang, MD, PhD			
9:45 PM	Award Announcement			
10:00 PM	Closing			



The Academy of Cardiovascular Research Excellence (ACRE) Oral Session

Room: Stone (Lobby Level), 1:00 – 5:00 PM

Opening

13:00-13:05 **Opening Remarks**

Li Qian, PhD, University of North Carolina at Chapel Hill
ACRE Program & Science Committee Co-chair

Session I **Featured Presentation**

Moderators: Xinliang Ma, MD, PhD, Thomas Jefferson University
Mei Xin, PhD, Cincinnati Children's Hospital
Kai Jiao, PhD, Augusta University

13:05-13:25 Yibing Qyang, PhD, Yale University

Title: **Disease Modeling and Cardiovascular Regeneration Using Human Pluripotent Stem Cells**

13:25-13:45 Xiaochun Long, PhD, Augusta University

Title: **Human-Specific Long Noncoding RNAs in Modulating Vascular Smooth Muscle Phenotype and Disease**

13:45-14:05 Yang Kevin Xiang, PhD, University of California, Davis

Title: **Neurohormonal Crosstalk in Cardiac Fibrosis**

14:05-14:25 Na Li, PhD, Baylor College of Medicine

Title: **Molecular Mechanisms of Atrial Fibrillation: New Kid on the Block**

14:25-14:45 Elvira Forte, PhD, Associate Editor, *Nature Cardiovascular Research*

Title: **Introducing *Nature Cardiovascular Research***

☕ Coffee Break: 10 min ☕

Session II **ACRE-APS Young Investigator Award Presentation**

Moderators: Mingfu Wu, PhD, University of Houston
Ge Tao, PhD, Medical University of South Carolina
Weijia Luo, PhD, Texas A&M University Health Science Center

14:55-15:10 Peiheng Gan, PhD, University of Texas Southwestern Medical Center

Title: **Stage-specific Alternative RNA Splicing Attunes Cardiomyocyte Proliferation And Contraction**

15:10-15:25 Xiaohai Zhou, PhD, University of California, San Diego

Title: **Binding of Filamin C with Actin Is Essential For Cardiac Development and Function**

15:25-15:40 Mingjie Zheng, PhD, University of Texas Health McGovern Medical School

Title: **Hippo Signaling Interacts with Tgfb Pathway to Regulate Pacemaker Cell State and Fibrosis in the Sinoatrial Node**



Sponsor Presentation I

15:40-15:45 Juan Hong, PhD, BD Manager, Shanghai Model Organisms Center (USA)
Title: **Animal Models for Cardiovascular Diseases**

☕ Coffee Break: 5 min ☕

Session III ACRE-APS Junior Faculty Award Presentation

Moderators: Yang Zhou, PhD, University of Alabama at Birmingham
Deqiang Li, PhD, Nationwide Children's Hospital, Ohio State University
Wei Guo, PhD, University of Wisconsin-Madison

15:50-16:05 Hongzhao Guo, PhD, University of Utah
Title: **Sglt2i Ameliorates Endothelial Dysfunction Associated with the Common Aldh2 Alcohol Flushing Variant**

16:05-16:20 Kai-Chun Yang, PhD, University of Washington
Title: **High-throughput Generation and Functional Characterization of Myosin Heavy Chain 7 Variants in Genome-edited Cardiomyocytes**

16:20-16:35 Jinxi Wang, PhD, University of Iowa
Title: **Preventing Site-specific Calpain Cleavage of Junctophilin-2 Protects Against Stress-induced E-C Coupling Dysfunction and Heart Failure Development in Mice**

Sponsor Presentation II

16:35-16:40 Penny Hao, ABclonal Technology
Title: **Tackling Reproducibility: Antibody Validation and the Path Forward**

☕ Coffee Break: 5 min ☕

Annual ACRE Business Meeting and Closing Remark

16:45-17:00
Report from Membership Chair: Yajing Wang, MD, PhD, University of Alabama at Birmingham
Report from Financial Chair: Qiangrong Liang, MD, PhD, New York Institute of Technology
Closing remark from President-elect: Zhao Wang, PhD, City of Hope National Medical Center

Poster Session (joint)

17:00-18:45 **Poster viewing**



The Japanese Cardiovascular Research Association (JCRA) Oral Session

Room: Otis (Lobby Level), 1:00 – 5:00 PM

Opening

1:00 PM **Opening Remarks**
Koichiro Kuwahara, MD, PhD, Shinshu University School of Medicine

Session I Oral Abstract Presentation I

Moderators: Koichiro Kuwahara, MD, PhD, Shinshu University, Nagano, Japan
Shinichi Oka, PhD, Rutgers New Jersey Medical School, Newark, NJ

1:00-1:25 PM Takahiro Hirai, Keio University, Tokyo, Japan
 Title: **CXCL12/CXCR4 Signal Pathway In Development Of RNF213-associated Vasculopathy**

1:25-1:50 PM Chieh Lun Hsiao, Juntendo University, Tokyo, Japan
 Title: **Vaccination Targets Senescence-associated Glycoprotein Ameliorates Alzheimer's Pathology And Cognitive Behavior In Mice**

1:50-2:15 PM Hideki Kobayashi, Shinshu University, Nagano, Japan
 Title: **Regeneration Of Primate Hearts With Human IPS Cell-derived Cardiac Spheroids**

2:15-2:40 PM Masataka Nishiga, Stanford University School of Medicine, Stanford, CA
 Title: **Parallel Identification Of Gene-Environment Interactions In Cardiac Development Using Human Induced Pluripotent Stem Cells**

2:40-3:00 PM **Coffee Break / Poster Open**

Session II Oral Abstract Presentation II

Moderators: Koichiro Kuwahara, MD, PhD, Shinshu University, Nagano, Japan
Shinichi Oka, PhD, Rutgers New Jersey Medical School, Newark, NJ

3:00-3:25 PM Akira Yoshii, UW Medicine at SLU, Seattle, WA
 Title: **Promoting Mitophagy By Enhanced Fatty Acid Oxidation Improves Phenotypes Of Heart Failure With Preserved Ejection Fraction**

3:25-3:50 PM Daisuke Yoshinaga, Harvard Medical School, Boston, MA
 Title: **Dysfunction Of N-terminal Acetylation Causes Multiple Electrical Abnormalities Leading To Long QT Syndrome And Dilated Cardiomyopathy**

3:50-4:15 PM Kohta Ikegami, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
 Title: **cGAS-STING activation is dispensable in a mouse model of LMNA-cardiomyopathy with nuclear envelope rupture**

4:15-4:40 PM Taiki Hayasaka, Indiana University School of Medicine, Indianapolis, IN
 Title: **Cardiomyocyte MicroRNA-125a-5p Plays A Vital Protective Role In Myocardial Infarction And Directly Represses Proapoptotic GTP-Cyclohydrolase I Feedback Regulator**



Closing Remarks/ Photo Time

- 4:40-4:50 PM **Closing Remarks**
Koichiro Kuwahara, MD, PhD, Shinshu University School of Medicine
- 4:50-5:00 PM **JCRA Photo**

Poster Session

- 5:00-6:45 PM **Poster viewing**



Korean Cardiovascular Society (KCS) Oral Session

Room: Commonwealth A (Concourse level), 1:00 – 5:00 PM

Opening

1:00-1:05 PM **Opening Remarks**
Pil-Ki Min, MD, PhD, Yonsei University, Korea

Session I Invited Lecture

Moderators: Pil-Ki Min, MD, PhD, Yonsei University, Korea
Il-man Kim, PhD, Indiana University, USA

1:10-1:25 PM Sung Woo Cho, MD, PhD, Inje University, Korea
Cardioprotective effect of angiotensin converting enzyme 2 activation in diabetic cardiomyopathy

1:25-1:30 PM Q&A

1:30-1:45 PM Kyoung-Han Kim, PhD, University of Ottawa, Canada
Iroquois transcription factors: Patterning the molecular heterogeneities of the heart

1:45-1:50 PM Q&A

1:50-2:05 PM Sahmin Lee, MD, PhD, University of Ulsan, Korea
Novel Pathophysiological Mechanism of Aortic Valve Stenosis

2:05-2:10 PM Q&A

2:10-2:25 PM Steve Lim, PhD, University of Alabama at Birmingham, USA
FAK Activation Promotes SMC Dedifferentiation via Increased DNA Methylation in Contractile Genes

2:25-2:30 PM Q&A

2:30-2:50 PM Coffee Break / Poster Open

Session II Oral Presentation I

Moderators: Yong Sook Kim, PhD, Chonnam National University, Korea
Sung-Jin Park, PhD, Emory University, USA
Se Yong Jung, MD, PhD, Yonsei University, Korea
Sang-Ho Lee, PhD, Emory University, USA

2:50-3:00 PM Junbeom Park, MD, PhD, Ewha Womans University, Korea
Unmet need for early detection of atrial fibrillation

3:00-3:02 PM Q&A

3:02-3:12 PM Kyuwon Cho, Emory University, USA
Chromobox 7 Represses Cardiomyocyte Proliferation, and Its Genetic Ablation Promotes Cardiac Regeneration Following Myocardial Injury

3:12-3:14 PM Q&A



- 3:14-3:24 PM Taejeong Song, University of Cincinnati Medical School, USA
Fast Skeletal Myosin Binding Protein-C Expression Exacerbates Dysfunction in Heart Failure
- 3:24-3:26 PM Q&A
- 3:26-3:36 PM Jin-Young Yoon, University of Iowa, USA
SIRTUIN5 Modulates Na⁺/Ca²⁺ Handling Through Oxidative Stress Dependent Mechanism in Mouse Heart
- 3:36-3:38 PM Q&A

Session III Oral Presentation II

Moderators: Young-sup Yoon, MD, PhD, Emory University School of Medicine, USA
Kyoung-Han Kim, PhD, University of Ottawa, Canada
Jon Suh, MD, PhD, Soonchunhyang University Hospital, Korea
Sung Woo Cho, M.D, Ph.D., Inje University, Korea
Seongho Bae, PhD, Emory University, USA

- 3:40-3:50 PM Chae-Myeong Ha, University of Alabama at Birmingham, USA
Long-term Elevation of Cardiomyocyte Protein O-GlcNAc Levels Induces Cardiac Hypertrophy and Reduced Mitochondrial Function with Preserved Systolic Contractility
- 3:50-3:52 PM Q&A
- 3:52-4:02 PM Young Hoon Son, Emory University, USA
Deep Learning-based Cardiac Microphysiological Systems for Studying Reentry Arrhythmia
- 4:02-4:04 PM Q&A
- 4:04-4:14 PM James Won Suk Jahng, Stanford University, USA
Precision medicine with human iPSC diabetic cardiomyopathy
- 4:14-4:16 PM Q&A
- 4:16-4:26 PM Jae Woo Jung, University of Pennsylvania, USA
One carbon metabolism defect in heart failure
- 4:26-4:28 PM Q&A
- 4:28-4:38 PM Seyong Chung, Yonsei University, Korea
'In Vivo Autotransplantation' of Spleen-derived Endothelial Progenitor Cells
- 4:38-4:40 PM Q&A

Closing / Photo Time

- 4:40-4:50 PM **Closing Remarks**
Young-sup Yoon, MD, PhD, Emory University School of Medicine, USA
- 4:50-5:00 PM **KCS Photo**

Poster Session

- 5:00-6:45 PM **Poster viewing**



Society for South Asian Heart Research (SAHR) Oral Session

Room: Commonwealth B (Concourse level), 1:00 – 5:00 PM

1:00-1:15 PM Welcome/Overview/SAHR Organization

Program Chair : Dr. Rajasekaran Namakkal-Soorappan (University of Alabama at Birmingham)
 President's Note : Dr. Sakthivel Sadayappan (University of Cincinnati)

Reports

Treasurer : Dr. Prasad Sathyamangala (Cleveland Clinic – LLRI, Ohio)
 Early Career Chair : Dr. Dhanendra Tomar (Wake Forest University)
 Membership Chair : Dr. Venkatesh Sundararajan (West Virginia University)
 Communications Committee Chair: Dr. Viswanathan Rajagopalan (New York Institute of Technology)

1:15-2:20 PM Session-I: Early Career Faculty (From Instructors to Assistant Professors) Presentations (15-minute Presentation + 5-minute Q/A)

1:15-1:17 PM Introduction of the Session/Moderators
 Dr. Dhanendra Tomar, Co-Chair, SAHR Early Career Committee

Session Moderators

1. Dr. Tousif Sultan, Instructor, Division of Cardiovascular Disease, University of Alabama at Birmingham
2. Dr. Devasena Ponnalagu, Ph.D. Assistant Professor, University of Washington, Seattle

1:17-1:20 PM Speaker Introduction by moderators

1:20-1:40 PM Dr. Vaibhav Patel, Assistant Professor, University of Calgary
 Topic: Role of extracellular vesicles in cardiac repair post-myocardial infarction

1:40-2:00 PM Dr. Yogen Kanthi, Assistant Professor, National Heart, Lung, and Blood Institute, National Institutes of Health
 Topic: Title -Decoding Inflammation in Thrombosis

2:00-2:20 PM Dr. Vivek Nanda, Assistant Professor (University of Alabama at Birmingham)
 Topic: Genetics of Peripheral Vascular Disease

2:20-3:25 PM Session-II: Midcareer/Established Faculty (From Associate Professors to Full Professors) Presentations (15-minute Presentation/5-minute Q/A)

2:20-2:22 PM Introduction of the Session/Moderators
 Dr. Shyam Bansal, Associate Professor, Ohio State University, Columbus, OH

Session Moderators

1. Dr. Sailaja Paruchuri, Professor, The University of Toledo, Ohio



2. Dr. Shanmughapriya Santhanam, Assistant Professor, Pennsylvania State University, College of Medicine, Hershey, PA

- 2:22-2:25 PM Speaker Introduction by moderators
- 2:25-2:45 PM Dr. T.R. Muralidharan, MD(Med), DM(Card), FACC. Professor & Head, Department of Cardiology, Sri Ramachandra Institute of Higher Education and Research (SRIHER), Chennai, Tamil Nadu, India
Topic: Clopidogrel related Genetic polymorphism and its influence on clinical outcomes - Asian perspective from India
- 2:45-3:05 PM Dr. Farah Sheikh, Ph.D. Professor, Department of Medicine, UC San Diego
Topic: Breaking Cell-Cell Barriers to Identify New Therapeutics for Arrhythmogenic Cardiomyopathy
- 3:05-3:25 PM Venkatesh Sundararajan, Ph.D. Associate Professor, Department of Physiology, Pharmacology & Toxicology, WVU School of Medicine, West Virginia
Topic: Mitochondrial LonP1 is Indispensable for Cardiac Maturation

3:25-3:40 PM Coffee/Tea Break, Poster Open

3:40-4:25 PM Session-III (Data Blitz): Postdoctoral Trainee Presentations (Best Abstracts Selected from the BCVS list; 5 slides/5 minutes – No Q/A)

- 3:40-3:42 PM Introduction of the Session/Moderators
Dr. Rajasingh Johnson, Professor (The University of Tennessee Health Science Center, Memphis, TN)

Session Moderators

1. Dr. Prasad Sathyamangla, Ph.D. Professor, Cleveland Clinic – LLRI, Ohio
2. Dr. Manish Gupta, Assistant Professor, Burnett School of Biomedical Sciences, University of Central Florida

- 3:42-3:45 PM Speaker Introduction by moderators
- 3:45-3:50 PM Dr. Prachi Umbarkar, University of Alabama at Birmingham, Birmingham, AL
Topic: Mechanosensitive Piezo-1 Channel Aggravates Ischemia-Induced Adverse Cardiac Remodeling and Dysfunction
- 3:50-3:55 PM Dr. Satvik Mareedu, Rutgers University, Newark, NJ
Topic: The Role of Cardiac Neurofibromin-2 In Chronic Pressure Overload
- 3:55-4:00 PM Dr. Sri Karthika Shanmugam, Columbia University, New York, NY
Topic: Enhancing Cardiac Cav1.2 Ion Channel Function by Targeted Deubiquitination



4:00-4:05 PM	Dr. Harikrishnan Venugopal, Albert Einstein College of Medicine, Bronx, NY Topic: Fibroblast-specific Smad6 Restrains Adverse Remodeling And Dysfunction Following Myocardial Infarction
4:05-4:10 PM	Dr. Sarojini Singh, University of Alabama at Birmingham, Birmingham, AL Topic: Ablation of Fibroblast Human Antigen R (HuR) Mitigates Cardiac Fibrosis
4:10-4:15 PM	Dr. Sumeet A Khetarpal, Dana Farber Cancer Inst, Boston, MA Topic: Cardiomyocyte Pgc-1 α Mediates the Adaptive Response to Endurance Exercise Training in Mice
4:15-4:20 PM	Dr. Richa Aishwarya, LSU Health Shreveport, Shreveport, LA Topic: Diastolic Dysfunction in Alzheimer's Disease Is Associated With $\alpha\beta$ - Amyloid Aggregate Formation and Mitochondrial Dysfunction
4:20-4:25 PM	Dr. Kalyani Ananthamohan, University of Cincinnati College of Medicine Topic: Novel MicroRNAs Targeting Myosin Binding Protein-C3 Gene In Hypertrophic Cardiomyopathy

4:25-5:00 PM Session-IV (Data Blitz): Pre-doctoral Trainee Presentations (Best Abstracts Selected from the BCVS list; 5 slides/5 minutes – No Q/A)

4:25-4:27 PM	Introduction of the Session/Moderators Dr. Mahmood Khan, Associate Professor, Ohio State University, Columbus, OH
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Session Moderators

- 1. Dr. Arul Veerappan, Ph.D. Assistant Professor, Department of Medicine, NYU Grossman School of Medicine, New York**
- 2. Dr. Venkata Naga Srikanth Garikipati, Ph.D. Assistant Professor, Ohio State University, Columbus, OH**

4:27-4:30 PM	Speaker Introduction by moderators
4:30-4:35 PM	Ms. Gayani Perera, Tufts Medical Center, Boston, MA Topic: Single Cell Transcriptomic Analysis of Tafazzin Knockout Mice for Pathway and Therapeutic Discovery in Barth Syndrome
4:35-4:40 PM	Mr. Vivek Jani, Johns Hopkins Medical Institute, MD Topic: Cardiomyocyte Mechanics in Animal Models of Heart Failure with Preserved Ejection Fraction
4:40-4:45 PM	Ms. Shreya Gupta, NEOMED-IMS, Rootstown, Ohio Topic: Thrombospondin-1 Promotes Vascular Smooth Muscle Cell De-Differentiation in Diabetes
4:50-4:55 PM	Mr. Sayan Bakshi, University of Alabama at Birmingham, Birmingham, AL Topic: Gene Expression Analysis Of Glycemic Memory In Heart Failure
4:55-5:00 PM	Ms. Neha Bhavnani, NEOMED University, Rootstown, Ohio



Topic: O-GlcNAc Transferase Regulates Vascular Smooth Muscle Cell Cycle Progression in Diabetes

5:05-5:15 PM Concluding remarks and Photo session

5:05-5:10 PM Concluding Remarks

Dr. Shanmughapriya Santhanam, Assistant Professor
(Pennsylvania State University, Hershey, PA)
Vice Chair, SAHR Program Committee

5:10-5:15 PM SAHR Members Group Photo session

5:15-6:45 PM ACS-2023/Common Poster Session

Poster Judges (Pre-doc)

Dr. Hind Lal, Associate Professor, University of Alabama at Birmingham
Dr. Viswanathan Rajagopalan, Associate Professor, New York Institute of Technology
Dr. Murugesan Rajaram, Associate Professor, Ohio State University, Columbus
Dr. Subha Gururaja Rao, Assistant Professor, Ohio Northern University
Dr. Suresh Verma, Associate Professor, University of Alabama at Birmingham
Dr. Moshin Khan, Associate Professor, Temple University, Philadelphia, PA

Poster Judges (Post-doc)

Dr. Prasanna Krishnamurthy, Associate Professor, University of Alabama at Birmingham
Dr. Rajarajan AT, Assistant Professor, Methodist Hospital, TX
Dr. Priya Raman, Associate Professor, NEOMED, Rootstown, OH
Dr. Sabyasachi Sen, Professor, The George Washington University, Washington DC
Dr. Ganesh Halade, Associate Professor, University of Southern Florida
Dr. Mahmood Khan, PhD, Associate Professor, OSU, Columbus, OH
Dr. Shyam Bansal, Assistant Professor, OSU, Columbus, OH
Dr. Dhanendra Tomar, Assistant Professor, Wake Forest University
Dr. Devasena Ponnalagu, Assistant Professor, University of Washington, Seattle
Dr. Venkata Naga Srikanth Garikipati, Assistant Professor, Ohio State University
Dr. Vaibhav Patel, Assistant Professor, University of Calgary, Canada



2023 ACS Joint Assembly Session and Dinner

Room: Commonwealth A&B (Concourse Level), 7:00 – 10:00 PM

6:45 – 9:00 PM

Cash Bar

7:00-7:05 PM Opening Remarks

Young-sup Yoon, MD, PhD, Emory University, USA (KCS)

7:05-8:30 PM Dinner and Talent Show

- Buffet Dinner

- Talent Show

Co-host: Rajasekaran Namakkal Soorappan, PhD (SAHR)

Co-host: Rongxue (Rosie) Wu, MD, PhD (ACRE)

7:00 PM – Ekta Dance Academy (Group): *Bollywood Dance* of different eras

7:05 PM – Jianli Zhao, MD: *Saxophone Performance* - "**Every Breath You Take**"

7:15 PM – Soumya S. Krishnan, PhD & Sini Sunny, PhD: *Dance Performance*

7:20 PM – Harshini Mahesh: *Singing* - "**Kannodu Kanbathellam (Tamil)**"

7:30 PM – Ekta Dance Academy (Group): *Disco Dance*

7:40 PM – Shayana Arul: *Singing* - "**Part of Your World (from Little Mermaid)**"

7:45 PM – Xinyu Su: *Chinese Bamboo Flute Performance* - "**New Melody for the Herdsmen**"

7:55 PM – Derek Lee: *Trumpet Performance* - "**You Raise Me Up**"

8:05 PM – Harshini Mahesh: *Singing* - "**Mera Dholna Sun (Hindi)**"

8:10 PM – Rongxue Wu, MD, PhD & Venkata Naga Srikanth Garikipati, PhD (Duet): *Singing*- "**Jimmy Jimmy Aja Aja**"

8:20 PM – Boston Vaadhya Kala Sangham (Group): *Chenda Panchari Melam (Traditional Percussion Arts of Kerala)*

8:30-8:45 PM ACS Program Introduction

ACRE – The Academy of Cardiovascular Research Excellence: Xuejun (XJ) Wang, MD, PhD

JCRA – Japanese Cardiovascular Research Association: Koichiro Kuwahara, PhD

KCS – Korean Cardiovascular Society: Young-sup Yoon, MD, PhD

SAHR – Society for South Asian Heart Research: Sakthivel Sadayappan, PhD, MBA

8:45-9:00 PM BCVS Leadership Remarks

Sumanth Prabhu, MD

Jonathan Kirk, BS, PhD

Farah Sheikh, PhD, FCVS, FAHA

Jiang Chang, MD, PhD

Maria Kontaridis, PhD

Jianyi (Jay) Zhang, MD, PhD, FAHA



9:00-9:45 PM Keynote Speech

Moderator: Sakthivel Sadayappan, PhD, MBA, U. of Cincinnati, USA (SAHR)

Neonatal Heart Regeneration in Large Mammals

Jianyi (Jay) Zhang, MD, PhD, FAHA

Chairman of the Department of Biomedical Engineering

School of Medicine and School of Engineering

Professor of Medicine

University of Alabama at Birmingham

AHA Council on Basic Cardiovascular Sciences (BCVS), Chair



9:45-10:00 PM Award Announcement

ACRE: Yang Kevin Xiang, PhD

JCRA: *No Award*

KCS: Pil-Ki Min, MD, PhD

SAHR: Rajasekaran Namakkal Soorappan, PhD

10:00 PM Closing Remarks

Koichiro Kuwahara, MD, PhD, Shinshu University, Japan (JCRA)

Hosted by the Asian Cardiovascular Symposium



American Heart Association®

Basic Cardiovascular Sciences



2023 ACS Poster Session

Room: Galleria Hall, 5:00 – 6:45 PM

All poster presenters are requested to set up their posters at the control numbers specified on the board.
Only the first few phrases of the title are displayed below.

● Academy of Cardiovascular Research Excellent (ACRE)

Ctrl#	First name	Last name	Title
16	Hugo	Lin	Tubular Mitochondria Dysfunction Aki Induces Cardiac Malfunction In Cardiorenal Syndrome Type 3
17	Jianjun	Guan	Preservation & Vascularization Of Cardiac Extracellular Matrix After Acute Myocardial Infarction
26	Emma	Xu	A Novel Pkp2 Mouse Model Of Genetic Arrhythmogenic Right Ventricular Cardiomyopathy And Its Rescue By Gene Therapy
42	Juan	Qin	Transcriptomic Profiling Of Immune Checkpoint Inhibitor Myocarditis Reveals Novel Therapeutic Targets
48	Tao	Luo	Deficiency Of Claudin-5 Leads To Myocardial Atrophy And Dilatation In Mouse Heart With Severe Mitochondrial Dysfunction And Electrical Dissociation
50	Tao	Luo	Atrial Fibrillation Is Associated With Decreased Claudin-5 In Cardiomyocyte
51	Baihe	Chen	(2R,6R)-Hydroxynorketamine Prevents Myocardial Ischemia Reperfusion Injury By Regulating Immune And Inflammatory Response
88	Linqi	Jin	A Perfused In Vitro Model Of Embryonic Heart Tube: Leveraging 3D Bioprinting And Human Induced Pluripotent Stem Cell Technologies To Study Heart Development
90	Rich Gang	Li	Yap Induces A Neonatal Like Pro-renewal Niche In The Adult Heart
162	Kel Vin	Woo	Role Of Vascular Fibroblast Growth Factor Signaling In Group 3 Hypoxia-induced Pulmonary Hypertension
178	Bing	Xie	Yap Mediates Cardiac Proliferation In Tead-independent Mechanisms
211	Yajing	Wang	Diabetic Upregulation Of Grk2 Impairs Adipocyte Exosome Surface Adiponectin-mediated Cardioprotection And Exacerbates Ischemic Heart Failure
213	Yajing	Wang	Hypoadiponectinemia-induced Epigenetic Downregulation Of Endogenous Antioxidants Exacerbates Cardiac Ischemia-reperfusion Injury In Diabetic Mice
215	Ke	Huang	Microneedle Patch Loaded With Il-4 Macroparticles Facilitates Heart Repair Through Macrophages Mediated Cardiomyocyte Phenotype Transition
219	Yonggang	Ma	Myocardial Infarction Impairs T Lymphopoiesis In Mice
220	Jialing	Tang	Intervention With The Adiponectin Mimetic Peptide ALY688 Protects Against Cardiac Dysfunction Induced By Ischemia Reperfusion Injury
221	Kunhua	Song	Interferon Hyperactivity Impairs Cardiogenesis In Down Syndrome Via Downregulation Of Canonical Wnt Signaling



226	Garrett	Jensen	Modeling Immune Checkpoint Inhibitor Associated Myocarditis In Vitro
241	Chieh Lun	Hsiao	Vaccination Targets Senescence-associated Glycoprotein Ameliorates Alzheimer's Pathology And Cognitive Behavior In Mice
242	Hsin-Ying	Lu	Orally Delivered Modified Citrus Pectin Attenuates Aortic Dissection Development By Regulating Macrophage Pyroptosis Via Interruption Of Galectin-3 And Toll-like Receptor 4 Interaction
247	Shijie	Liu	Cardiac Cytoskeleton Sequesters Acetylated Yap In The Cytoplasm To Inhibit Cardiomyocyte Renewal After Myocardial Infarction
250	Tian	Liu	Novel Regulatory Axis In Heart-adrenal Cross Talk Mediated By Mtor-eprs
261	Yi-Chan	Lee	Loss Of Hmgcs2-mediated Ketogenesis Accelerates Cardiac Aging
267	Miao	Cui	Transcription Factor Nfya Regulates Mitochondrial Metabolism And Cardiomyocyte Proliferation In The Fetal Heart
268	Sin-Jin	Li	Mitochondrial Fission And Extracellular Mitochondria Mediate Cardiac Dysfunction In Obesity Induced Cardiomyopathy
269	Christina	Sheng	Irisin, An Exercise-induced Myokine, Exhibits Protective Effects In Glucocorticoid-induced Cardiac Muscle Dysfunctions
276	Shuang	Li	Cardiomyocyte-fibroblast Interaction Regulates Ferroptosis And Fibrosis After Myocardial Injury
282	Crizza	Ching	Endothelial-derived Extracellular Vesicles Communicate With Cardiomyocytes To Elicit Cancer Therapy-related Cardiac Dysfunction
283	Mingxia	Gu	APOE-NOTCH Axis Governs Elastogenesis During Human Cardiac Valve Remodeling
287	Tianqing	Peng	Junctophilin-2 Promotes Cardiomyocyte Survival By Blocking Murf1-mediated Junctin Ubiquitination And Proteasome-dependent Degradation
289	Fansen	Meng	SARS-CoV2 Nonstructural Protein, But Not The Omicron Ba.4/5 Mutant, Suppresses YAP Transcriptional Activity In The Heart
291	Mingtao	Zhao	Abnormal Progenitor Cell Differentiation And Cardiomyocyte Proliferation In Hypoplastic Right Heart Syndrome
294	Yun	Huang	Tet2 Maintains Genome Stability In Cardiac Myeloid Cells
316	Yuan	Li	Minimally Invasive Delivery Of Synthetic Cardiac Stromal Cells In A Large Animal Model Of Myocardial Infarction
317	Dandan	Yang	The Biophysical Action Of Microrna-1 Is Critical To Maintaining The Homeostasis Of The Heart
319	Jingrui	Chen	Inhibition Of Cdk7 Attenuates Doxorubicin Cardiotoxicity And Enhances Anticancer Efficacy
320	Yichen	Ding	Multi-scale Imaging And Analysis To Elucidate Cardiac Structure And Contractile Function
322	Junjie	Chen	Integrative Transcriptomics And Cell Systems Analyses Reveal Protective Pathways Controlled By Igfbp-3 In Anthracycline-induced Cardiotoxicity



325	Jinxi	Wang	Preventing Site-specific Calpain Cleavage Of Junctophilin-2 Protects Against Stress-induced E-c Coupling Dysfunction And Heart Failure Development In Mice
335	Cynthia	Xu	Human Bone Mesenchymal Stem Cell Lentiviral Transduction For The Production Of Extracellular Vesicles Targeted To The Heart Limits Cell Line Expansion
338	Jiacheng	Sun	Cardiomyocyte-specific Overexpression Of Ccnd2 Via Modified Mrnafor Remuscularization In Hearts With Myocardial Infarction
355	Chufeng	He	Asperuloside Ameliorates Obesity-associated Endothelial Dysfunction Via Activating Nrf2/HO-1 Signaling Pathway
360	Ruijie	Liu	Elevated Erk1/2 Signaling Contributes To The Development Of Diabetic Cardiomyopathy
381	Meihan	Guo	Sex-specific Limitation Of Cardiac Capacity: Return To Fundamental Structure And Function.
387	Yongjun	Lu	Mouse In Utero Plus Neonatal Sertraline Exposure May Result In A Sex-dependent Risk Of Myocardial Infarction In Adulthood
392	Patrick	Kang	Substrate Optimization For Patients With Melas And Leigh Syndrome Using Induced Pluripotent Stem Cells-derived Cardiomyocytes
395	ke	liao	A Long Noncoding RNA Plentiful In Cardiosphere-derived Cell Extracellular Vesicles (CDC-EVs), BCYRN1, And Its Short Synthetic Derivatives Enhance Regulatory T Cell (Treg) Proliferation, Migration, And Activation
401	Yirong	Zhou	In Vivo Imaging Of The Coronary Microcirculation Throughout The Contractile Cycle With Optical Coherence Tomography Angiography
406	Hui-Min	Yin	Pontin Is Necessary And Sufficient For Driving Cardiomyocyte Proliferation In Zebrafish And Mice
413	Peiheng	Gan	Stage-specific Alternative Rna Splicing Attunes Cardiomyocyte Proliferation And Contraction
416	Jinqi	Fan	Tgfβ Signaling Triggers Nonmyocyte Gene Expression In Tbx18-induced Pacemaker Myocytes And Abbreviates Their Automaticity
417	Christopher	Yan	Derivation Of Large Biorepository Of Human Ipsc Lines For Open Access Sharing Among Academic Investigators
418	Pan	Ma	Emerging Immune Checkpoint Therapies Reshape The Cardiac Immune Landscape And Promote Myocardial Vulnerability
419	Xiaohai	Zhou	Binding Of Filamin C With Actin Is Essential For Cardiac Development And Function
422	Peng-Sheng	Li	Foxm1 Regulates Cell Cycle Of Human Induced Pluripotent Stem Cells-derived Cardiomyocytes
430	Ling	Tang	Identification Of Circrna-mirna-mrna Regulatory Network And Crucial Signaling Pathways Related To Cardiomyocyte Proliferation In Neonatal Mice And Pigs
442	Jin	Wi	Population Pharmacokinetics And Dose Optimization Of Antiplatelet Agents In Critically Ill Patients During Extracorporeal Membrane Oxygenation



445	Ming	Wu	Safety And Feasibility Of Tissue-engineered Biological Ventricular Assist Devices For Ischemic Cardiomyopathy
447	Shiqi	Hu	Mesenchymal Stem Cells Educate Lung Megakaryocytes To Favor Cardiac Repair Post Myocardial Infarction
449	Yijia	Li	The Effects Of Maternal Hypothyroidism On Postnatal Cardiomyocyte Proliferation And Cardiac Disease Responses Of The Adult Progeny
452	Mingjie	Zheng	Hippo Signaling Interacts With Tgfb Pathway To Regulate Pacemaker Cell State And Fibrosis In The Sinoatrial Node
461	Sidra	Xu	Graph Neural Network Analysis Of Dynamic Temporal Relationships Between Chromatin Accessibility And RNA Expression In The Developing Mouse Heart
468	Renju	Pun	BubR1 Regulates Cardiac Development Through CamkII In Vivo
469	Qianchen	Wang	Interleukin-2 Receptor Gamma Signaling Is Required For The Regenerative Adaptive Immune Response In The Adult Zebrafish Heart
470	Ting	Liu	Role Of Innate Immune Response And Mitochondrial Ros In The Cardiac And Pulmonary Sequelae Of Covid-19
473	Joseph	Quick	Synthetic Copolymer-Based Membrane Stabilizers Confer Protection To Dystrophin-Deficient Striated Muscle In Vitro And In Vivo
484	Ruijun	He	Alkylating Chemotherapy Reshapes The Immune Landscape Of The Heart
488	Niki	Noe	Routine Monitoring For Intracardiac Thrombosis And Pulmonary Embolism With Intraoperative Transesophageal Echocardiography In Orthotopic Liver Transplantation
503	Enze	Fu	Endothelium-targeting Exosomes Ameliorate Cardiac Senescence Via Delivery Of Line1 Antisense Oligonucleotides In A Mouse Model Of Myocardial Infarction
518	Yuji	Shi	Heart Failure With Preserved Ejection Fraction Mouse Model Development With Aav-renin
526	Zhenbo	Han	Translational Regulation Of SND1 Governs Endothelial Homeostasis Under Stress
530	Gege	Yan	The Role Of GCN2 In Ponatinib-induced Cardiotoxicity
538	qinglu	li	Mechanosensitive, Piezo2 Channels Mediate The Exaggerated Exercise Pressor Reflex In A Mouse Model Of Hind Limb Ischemia.
551	Yuxin	Chu	Circulating Mitochondrial DNA Level Is A Biomarker Of Acute Myocardial Infarction And Mediates Cardiac Ischemia-reperfusion Injury
556	Junlang	Li	Stem Cell-derived Exosome Nebulization Therapy (SCENT) Improves Cardiac Function And Tissue Repair In Mice And Pigs
560	Zhenyu	Wang	Dissecting The Roles Of Vegfba And Pgfba In Zebrafish Cardiac Regeneration
565	Zhenhua	Li	Antiinflammatory Hydrogel Promotes Electrical Coupling After Myocardial Ischemia
567	YU-AN	LU	Elmsan1 Regulates Differentiation And Maturation Of Cardiomyocytes Derived From Human Induced Pluripotent Stem Cells
569	Yijun	Yang	Western Diet Can Cause Adverse Cardiac Remodeling During Pregnancy By Inducing Foxo1 Expression



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594	Tianyu	Wu	Expression Of Engineered Bacterial Sodium Channel Improves Cardiomyocyte Contractility
602	Rongxue	Wu	A Novel Arnt Dependent Hif2a Singling In Protecting Against Cardiac Microvascular Endothelial Barrier Dysfunction Following Myocardial Infarction
611	Jiuzhou	Huo	Mcob Is An Inducible Regulator Of Calcium-dependent Mitochondrial Metabolism
615	Na	Xu	Wnt Signaling Is Required For Myxomatous Valve Disease In A Mouse Model Of Marfan Syndrome
622	Meimei	Wang	Histone Deacetylase Complexes Regulate Direct Cardiac Conversion From Human Fibroblasts
645	Wing Tak	Wong	Endothelial Leptin Resistance Exacerbates Vascular Dysfunction Through Attenuating PD-L1 Expression
651	Lai-Hua	Xie	Potential Role Of Ferroptosis In Duchenne Muscular Dystrophy-associated Cardiomyopathy
658	Kai-Ting	Chang	Renal Tubular Mitochondrial Akt1 Modulates Cardiorenal Metabolic Syndrome
659	Daniel	Nguyen	Branched-chain Amino Acids Are Required For Acquisition Of The Cardiac Myofibroblast Phenotype
660	Junji	Xing	Trim29 Deficiency Ameliorates Viral Myocarditis By Reducing Perk Mediated Er Stress And Ros Responses
670	Qiaoqing	Zhong	Correlation Of Plasma Glutathione Peroxidase 4 Concentration With Coronary Heart Disease And The Severity Of Coronary Artery Stenosis
682	Xianzhong	Meng	Soluble Extracellular Matrix Protein Induces Senescence In Aortic Valve Interstitial Cells To Up-regulate Valvular Osteogenic Activity
689	Xiao	Li	The Macrophage Landscape Across The Lifespan Of A Human Cardiac Allograft
690	Michael	Chin	The Role Of A Novel Alpha-crystallin B Chain Variant In Hypertrophic Cardiomyopathy
691	Huanzhu	Jiang	Substrate Rigidity And Mybpc3 Genotype Regulate Development Of Hypertrophic Cardiomyopathy Structural And Functional Phenotypes In Human Ipsc-derived Micro-heart Muscle Arrays
695	Chongyu	Zhang	Circulating Exosomal MicroRNAs As Biomarkers For Pulmonary Embolism
708	Yuening	Liu	Spatial Transcriptome Profiling In The Mouse Heart With Single-Cell Resolution
717	Xiao-Yu	Tian	Endothelial Pparδ Deletion Exacerbates Endotoxemia-Induced Vascular Injury And Inflammation
722	Huiling	Hong	CXCL10 Impairs Endothelial Barrier Integrity In Endothelial Pparδ-deficient Mice Identified By Single-cell RNA Sequencing
729	Ellen	Poon	SARS-CoV-2 Variants Divergently Infect And Damage Cardiomyocytes



766	Peng	Zhang	Reduced Exercise Capacity Occurs Before Intrinsic Changes In Skeletal Muscle In Experimental Rat Models Of Pulmonary Hypertension
768	Xuebin	Fu	Mesenchymal Stem Cells Reduce Endothelin-1 Induced Hypertrophy In Hypoplastic Left Heart Syndrome Patients' Cardiomyocytes
772	Elaine	Chen	A Direct Comparison Of Cardiomyocyte Maturation In Vivo And In Vitro At Single Cell Resolution
781	Indulekha	Pillai	Cell-autonomous Immune Signaling In Human Cardiac Fibroblasts Modulates Fibrosis
790	Wei	Sun	Post-GWAS Functional Analysis Of CBLN2 Locus Reveals The Role Of CUX1 In The Inflammatory Pathogenesis Of Pulmonary Arterial Hypertension
796	Shuang	Chen	Il-1 Signaling On Vascular Smooth Muscle Cells Accelerates Atherosclerosis After Murine Kawasaki Disease Vasculitis
797	Qiaoqing	Zhong	Association Of Membrane Ferritin Transporter And Transferrin Receptor Plasma Levels With Coronary Atherosclerosis
798	Liya	Yin	The Regulatory Role Of Sirtuin 6 In Coronary Microcirculation In Hfpf
853	Julia	Liu	Differential Adaptation To Mitochondrial Ca ²⁺ Overload In The Left And Right Ventricles
858	Wenbin	Liang	Wnt/ β -catenin Signaling Inhibits T-type Calcium Current And Causes Sinoatrial Node Dysfunction
861	Kai-Chun	Yang	High-throughput Generation And Functional Characterization Of Myosin Heavy Chain 7 Variants In Genome-edited Cardiomyocytes
868	Lay Ping	Ong	Epicardially-secreted Fibronectin Promotes Hesc-cardiomyocytes' Maturation In 3d-engineered Heart Tissues.
877	Van	Ninh	Pathogenic Innate Immune Responses Blunt The Activation Of Pro-reparative Fibroblasts After Myocardial Infarction
882	Shiyu	Gong	Trem2 Promotes Cardiac Repair In Myocardial Infarction Via Slc25a53 And Carbohydrate Metabolism After Improving Efferocytosis Of Macrophage

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229	Shogo	Ito	Development Of Molecular Targeted Therapy Against Right Ventricular Failure: Involvement In Complement C3- Factor D- C3a Pathway
281	Hideki	Kobayashi	Regeneration Of Primate Hearts With Human IPS Cell-derived Cardiac Spheroids
290	Shion	Nagasawa	Sex Differences In Vasodilation In Embryonic Coronary Arteries
312	Daisuke	Shimura	Gja1-20k Is Downstream Of Drp1 And Can Rescue Drp1 Suppression In Mouse Heart
345	Masataka	Nishiga	Parallel Identification Of Gene-Environment Interactions In Cardiac Development Using Human Induced Pluripotent Stem Cells



362	Junya	Aoyama	Generating Injectable Vascularized Cardiomyocytes Derived From Human Induced Pluripotent Stem Cells
435	Takeshi	Adachi	Effects Of Erk2 Deficiency In Vascular Smooth Muscle Cells And Myocardium On Cardiac Failure Of Mice
482	Taiki	Hayasaka	Cardiomyocyte MicroRNA-125a-5p Plays A Vital Protective Role In Myocardial Infarction And Directly Represses Proapoptotic GTP-Cyclohydrolase I Feedback Regulator
497	Takahiro	Hiraide	CXCL12/CXCR4 Signal Pathway In Development Of RNF213-associated Vasculopathy
534	Rosemeire	Kanashiro-Takeuchi	Growth Hormone Releasing Hormone Agonist Counteracts The Cardiometabolic Heart Failure With Preserved Ejection Fraction Phenotype In Vivo Via The Hypoxia Inducible Factor 1 Alpha
570	Naoko	Shiba	Exon Skipping Therapy Can Restore Functional Dystrophin Attenuating Camkii Activation In Duchenne's Cardiomyopathy With Mutations In Actin-binding Domain
585	Kenji	Moriuchi	The Genetic And Pharmacological Inhibition Of Classic Transient Receptor Potential Channels 3 And 6 (trpc3/c6) Improve Pulmonary Arterial Hypertension.
589	Daisuke	Yoshinaga	Dysfunction Of N-terminal Acetylation Causes Multiple Electrical Abnormalities Leading To Long QT Syndrome And Dilated Cardiomyopathy
635	Sabyasachi	Sen	Podocalyxin, A Renal Podocyte Specific Protein Expression In Urine Exosome Acts As A Marker For Podocyte Injury During Sars-cov-2 Infection
728	Kaori	Sugiyama	Multimodal Imaging To Identify Pre-signals For Acute Aortic Dissection By Using Marfan Syndrome Model Mouse
841	Naoto	Muraoka	Enhanced Electrophysiological Maturation Of Human Pluripotent Stem Cell Derived Cardiomyocytes By An Optimal Combination Of Metabolic Modulators
854	Kohta	Ikegami	Immune Suppression Ameliorates A Mouse Model Of Lmna-related Cardiomyopathy With Nuclear Envelope Rupture

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19	JinMan	Jung	Incidence And Risk Of Stroke Subtype In Korean Congenital Heart Disease Patients: A Nationwide Age-and Sex-matched Case-control Study
45	Youngwon	Kim	Replacement Of Wearable-device-measured Sedentary Time By Physical Activity, Genetic Susceptibility, And Risk Of Coronary Heart Disease
60	Yura	Son	Engineering Of Ferritin Overexpressing Human Induced Pluripotent Stem Cells For In Vivo Tracking Of Grafts Using Magnetic Resonance Imaging
161	Michelle	Kim	T Lymphocytes Promote Diastolic Dysfunction And Fibrosis In A Non-Hypertensive Angiotensin II Mouse Model Of Heart Failure



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217	Sungji	Cho	The Adiponectin Receptor Agonist ALY688 Prevents Pressure Overload-induced Cardiac Dysfunction And Adverse Cardiac Remodeling
248	Suh Hee	Cook	In Vitro Stimulation-conduction Platforms To Mature Induced Pluripotent Stem Cell-derived Cardiomyocytes
260	Hyunwoo	Cho	Lattice-Boltzmann Method Achieves Feasible Hemodynamic Analysis In Carotid Atherosclerosis With Low Computational Cost
262	Ji Hun	Ahn	Relationship Between Echocardiographic Parameters And Invasively Measured Left Ventricular Filling Pressure In The Persistent Atrial Fibrillation With Preserved Left Ventricular Systolic Function
284	Jae Woo	Jung	One Carbon Metabolism Defect In Failing Heart
300	Sandra	Lee	Complex I-induced Protein Turnover, A Novel Mitochondrial Protein Quality Regulation Clipt Goes Beyond The Mitochondrial Calcium Uniporter
308	Min Gyu	Kong	The Activity Of Autophagy Biomarkers In Acute Myocardial Infarction
341	Jin-Young	Yoon	SIRTUIN5 Modulates Na ⁺ /Ca ²⁺ Handling Through Oxidative Stress Dependent Mechanism In Mouse Heart
353	Jon	Suh	Characterized Expression Of MicroRNAs In Plasma Exosome In Patients With Coronary Chronic Total Occlusion
421	Jae Hyung	Cho	MicroRNA-16 Exerts Anti-fibrotic Effects Via Suppression Of Tgfr3 In Rats With Heart Failure And Preserved Ejection Fraction
429	Young Keul	Jeon	Role Of Myofilament-associated Neuronal NOS For Ca ²⁺ Desensitization Via Troponin I Phosphorylation In The Right Ventricular Cardiomyocytes Of Rats
432	Soyoung	Cho	Zmpste24 Deficiency Accelerates Atherosclerosis By Increasing TLR4 Expression In Vascular Smooth Muscle Cells
549	Soo Yeon	An	Cardioprotective Effect Of APE1/Ref-1 In Doxorubicin-induced Cardiotoxicity
559	Eun-Ah	Sung	Wnt5a Mediates Doxorubicin-induced Cardiomyopathy Through Induction Of Senescence
568	Boeun	Hwang	Development Of A Vascularized Cardiac Patch Using 3D Bioprinting To Regenerate Injured Myocardium
571	Se Yong	Jung	Controlled Porous Structures Of Nitric Oxide-releasing Inhaler For Pulmonary Arterial Hypertension Vascular Reverse Remodeling
601	Edwin	Yoo	Myocardial Long Non-Coding RNAs Expression Signatures In Heart Failure With Preserved Ejection Fraction
606	Yong-Sook	Kim	Patient-derived Cardiac Assembloids Enable Therapeutic Verification Of Regenerative Reagent Bio
608	Ee-Soo	Lee	Role Of Atypical Chemokine Receptor 1 In Endothelial Injury Among COVID-19 Survivors
644	Cholomi	Jung	Direct Reprogramming Towards Contractile Smooth Muscle Cells



652	Sung-Jin	Park	Unsupervised Anomaly Detection For Identifying Arrhythmogenic Rhythms In Atrioventricular Block Hearts Using Deep Convolutional Autoencoders
668	Sung Woo	Cho	Cardioprotective Effect Of Angiotensin Converting Enzyme 2 Activation In Hesc-derived Cardiomyocytes Under Diabetic Condition
672	Sung-Jin	Park	Deep Learning-based Cardiac Microphysiological Systems For Studying Reentry Arrhythmia
677	Kyuwon	Cho	Chromobox 7 Represses Cardiomyocyte Proliferation, And Its Genetic Ablation Promotes Cardiac Regeneration Following Myocardial Injury
684	Jason	Choi	Perinuclear Damage From Nuclear Envelope Deterioration Elicits Stress Responses That Contribute To Lmna Cardiomyopathy
701	Taejeong	Song	Fast Skeletal Myosin Binding Protein-C Expression Exacerbates Dysfunction In Heart Failure
712	Jeong-Ah	Ahn	Gender Differences In The Efficacy Of A Mobile-based Self-management Program For Patients With Heart Failure
720	Jon	Suh	Identification Of Exosome MicroRNA In Association With Severe Calcification In Coronary Chronic Total Occlusion
721	Hewang	Lee	Renal Autocrine Npff, Via Its Local Receptors, Regulates Blood Pressure Through Its Interaction With The Renal Dopaminergic System
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745	Chae-Myeong	Ha	Long-term Elevation Of Cardiomyocyte Protein O-GlcNAc Levels Induces Cardiac Hypertrophy And Reduced Mitochondrial Function With Preserved Systolic Contractility
753	Somy	Yoon	Mirna10b-5p/cbx5/il-11 As A Novel Axis For Kawasaki Vasculitis
757	Bitna	Lim	Chronic Inhibition Of Protein Phosphatase 1 Exacerbates Cardiac Arrhythmia Via Retardation Of Potassium Channel Activity
762	Sung-Jin	Park	Development Of A Multicellular Sinoatrial Node Organoid For Modeling Robust Pacemaking And Conduction
800	Sahmin	Lee	Spermidine Ameliorates Aortic Valve Degenerations By Improving Mitochondrial Biogenesis

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27	Ann	Kuganathan	Regulation Of Perivascular Adipose Tissue By Follistatin In Hypertension
62	Suri	Gime	Variability In The Relationship Between Heart Rate And Automatic Breathing Rate Throughout The Mouse Lifespan
64	Archan	Chakraborty	Cardiomyocyte Polyploidy: Friend Or Foe?



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181	Surendra	Rajpurohit	Development Of Integrated Transparent Transgenic Zebrafish Modeling System For Experimental Cardio-oncology Therapeutics
190	Ramesh	Gupta	Elamipretide Reduces Mitochondrial Hyperacetylation In Left Ventricular Myocardium Of Dogs With Chronic Heart Failure
191	Prachi	Umbarkar	Cardiac Fibroblast GSK-3 α Contributes To Chronic Inflammation In The Ischemic Heart
193	Prachi	Umbarkar	Mechanosensitive Piezo-1 Channel Aggravates Ischemia Induced Adverse Cardiac Remodeling And Dysfunction
208	Vinita	Singh-Gupta	Exposure Of Mitochondria Isolated From Left Ventricular Myocardium Of Dogs With Moderate Heart Failure To 4-hydroxy-2-nonenal (4-hne) Worsens Existing Mitochondrial Dysfunction
210	Gourav	Bhardwaj	FoxO3 Transcription Factor Regulates Myocyte Contractility And Calcium Homeostasis In Diabetic Cardiomyopathy
224	Bharat	Rawley	Trends In Age At Diagnosis, Incidence Proportion Of Benign Cardiac Neoplasms And Associated Outcomes: 2012-2021
227	Shathiyah	Kulandavelu	Mice Lacking S-nitrosoglutathione Reductase (gsnor $^{-/-}$), A Mouse Model Of Preeclampsia, Exhibit Increases In Oxidative And Nitrosative Stress And Deterioration Of Cardiovascular Structure And Function In The Mother Postpartum.
243	Manisha	Jain	Effect Of Anakinra On Peak Oxygen Consumption In Patients With Heart Failure With Reduced Ejection Fraction: A Meta-analysis
244	Advait	Vasavada	Effect Of PCI On QTd And QT Interval Compared To Control/other Treatments For Myocardial Infarction
253	Reza	Avazmohammadi	Contractile Adaptation Of The Right Ventricular Myocardium In Pulmonary Hypertension
257	Kalyani	Ananthamohan	Novel MicroRNAs Targeting Myosin Binding Protein-C3 Gene In Hypertrophic Cardiomyopathy
279	Sandeep	Appunni	Sex Differences In Outcomes Among Heart Failure Hospitalizations
288	Bharat	Rawley	A Review Of Trends In Cardiovascular Medicine Clinical Trials; 2012-2021
292	Talita	Choudhury	Impact Of Maternal Diabetes-associated Oxidative Stress On The Developing Endocardium
295	Masayoshi	Suda	Endothelial Cell Specific Senescent Cell Clearance Alleviated Vascular Stiffness And Metabolic Dysfunction In Obese Mice
296	Shreyas	Bhave	Reduced Activity Of Activin Like Kinase 1 (ALK1) Increases Mortality And Myocardial Rupture After Acute Myocardial Infarction
297	Vivek	Pandey	Nedd4-2 Inactivation Underlies The Increase In Cardiac Sodium-dependent Glucose Cotransporter-1 In Diabetic Hearts
298	Fereshteh	Haghighi	Strain-induced Cardiac Arrhythmias Caused By A Noonan Syndrome Mutation In Raf1 Can Be Suppressed By Modulation Of The Ras-mapk Pathway In Vitro



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302	Zar Chi	Thent	Inhibition Of Tnfa Signaling Delay CAVD Progression In Mice
332	Abhay	Kapoor	Beyond Traditional Pharmacology: A Critical Appraisal Of Enhanced External Counterpulsation (EECP) As A Promising Alternative Treatment For Hypertension
348	Sumeet	Khetarpal	Cardiomyocyte Pgc-1 α Mediates The Adaptive Response To Endurance Exercise Training In Mice
354	Amit	Iyengar	A Novel, Micellized Naringenin Nanoparticle Rescues Hemodynamic Function Post-Myocardial Infarction Via MARK4 Inhibition
357	Taha	Rehmani	Targeted Loss Of Sarcolemmal Membrane Associated Protein Isoform 3 (slmap3) In Cardiac Progenitors Stunts The Embryonic Growth Of Myocardium
386	Yasuhide	Kuwabara	A Human Flii Gene Variant Shortens Sarcomeric Actin Thin Filament Length And Predisposes To Cardiomyopathy
393	Tousif	Sultan	Mechanistic Insights Into Cardiac Dysfunction And Remodeling Associated With Invasive Pneumococcal Pathogenesis
403	Praveen	Dubey	Exploring The Role Of Bh3-like Motif Containing Cell Death Inducer In Cardiomyocyte Death: Insights From Human Failing Hearts And Ipsc-derived Cardiomyocytes
404	Prabhat	Ranjan	Gut Microbial Peptide Induced Cardiac Inflammation Via Cyclin Dependent/NFkB Signaling In Macrophages
407	Roshan	Dutta	Mettl3 Induced Fibronectin M6a Mrna Methylation Facilitates Cardiac Fibrosis Following Myocardial Ischemia
408	Sarojini	Singh	Ablation Of Fibroblast Human Antigen R (HuR) Mitigates Cardiac Fibrosis
412	Richa	Aishwarya	Diastolic Dysfunction In Alzheimer's Disease Is Associated With a β - Amyloid Aggregate Formation And Mitochondrial Dysfunction
415	Prabhat	Ranjan	Activated Fibroblast-Derived Exosomal Mir-216a-5p Promotes Endothelial Dysfunction By Targeting PGM5 In Diabetic Heart
455	Deepthi	Ashok	Effects Of Antiviral Innate Immune Activation On Cytokine Secretion And Function Of Human Ipsc-derived Cardiomyocytes
464	Anindhya	Das	Aminoacyl-trna Synthetase Complex-interacting Multifunctional Protein 3 (aimp3) Is A Key Regulator Of Cardiac Homeostasis
467	Vagisha	Sharma	Assessing Subclinical Atherosclerosis Using Carotid Intima-media Thickness In Inflammatory Bowel Disease Patients: A Metanalysis
471	Vagisha	Sharma	Pre-pandemic Autonomic Function As A Predictor Of The Covid Clinical Course In Young Adults
478	Sayan	Bakshi	Gene Expression Analysis Of Glycemic Memory In Heart Failure
479	Charles	Thodeti	Uncoupling Endothelial Trpv4 Mechanotransduction Attenuates Pressure Overload-induced Cardiac Hypertrophy Via Rho/yap/vegfr2 Mediated Coronary Cngiogenesis
481	Akira	Yoshii	Promoting Mitophagy By Enhanced Fatty Acid Oxidation Improves Phenotypes Of Heart Failure With Preserved Ejection Fraction



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489	Abhilash	Suresh	Characterizing Complex Tandem Repeat Variants And Their Contribution To Congenital Heart Disease
492	Akanksha	Girish	Rare Case Of Catheter-related Right Atrial Thrombosis In A Pediatric Multi-visceral Transplant Patient
494	Ananya	Sharma	Investigating The Effect Of Patient Missense Variants In CHD7 Using An Induced Pluripotent Stem Cell Model
498	Qasim	Majid	Human Pluripotent Stem Cell-derived Organoids Yield Microvascular-like Endothelial Cells
506	Sushmitha	Duddu	Statin Modulates The Expression Of Pcsk9 By Regulating The Histone Modifications
509	Shivani	Mehta	Prevalence And Outcomes Of Takotsubo Cardiomyopathy In Patients With Covid - 19
525	Divya	Sridharan	A Combinatorial Stem Cell Therapy Using HiPSC-derived Cardiomyocytes And HiPSC-derived Mesenchymal Stem Cells For Cardiac Regeneration
528	Andromeda	Nauli	The Effects Of Sex Hormones On Intestinal Lipoprotein Size
529	Lija	Swain	Trans-valvular Unloading Protects Against Post-reperfusion Injury Via Hif-1a In Preclinical Models Of Acute Myocardial Infarction.
532	Adnan	Khan	Apyrase But Not Dipyridamole Improves Cardiac Function In Ovariectomized High-fat Diet Mice
535	Sanchita	Dey	In Vivo Dissection Of A CRISPR/Cas9-Mediated Precise Genome Editing Mechanism
563	Sarah	Choudhury	Engineering Mesenchymal Stem Cell-derived Extracellular Vesicles To Enhance Their Therapeutic Efficacy In Cardiovascular Disease
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586	Vinoth	Sigamani	Dysfunctional SCARNAs And Failed Pseudouridylation Result In Irregulation Of Cardiac Genes In Noonan Syndrome Patient-derived Induced Cardiomyocytes
592	Vivek	Jani	Cardiomyocyte Mechanics In Animal Models Of Heart Failure With Preserved Ejection Fraction
597	Ruhul	Amin	Potential Mechanism Of SR-Ca ²⁺ Uptake During Myocardial Infarction; A Molecular Explanation Of Ca ²⁺ Arrhythmogenicity Of Purkinje Fibers In The Ischemic Heart.
599	Naresh	Kumar	Exosomes From Pseudomonas Aeruginosa Infected Macrophages Drives Cardiomyocyte Contractile Dysfunction
609	Mahmood	Khan	Preclinical Large Animal Assessment Of Safety And Engraftment Of Hicms Nanofiber Cardiac Patch Transplantation For Cardiac Repair
625	Hina Lateef	Nizami	Deletion Of SARM1 NAD Hydrolase Ameliorates Diabetic Cardiomyopathy By Regulating Mitochondrial Metabolism And Mitophagy



629	Anita	Saraf	Role Of Hypomorphic Notch1 Mutations In Cardiomyocyte Signaling And Function In Hypoplastic Left Heart Syndrome
637	Neethi	Dasu	Outcomes Of Impella Versus Left Ventricular Assist Device (LVAD) In Cardiogenic Shock Caused By Myocardial Infarction
638	Neethi	Dasu	Outcomes Of Impella Versus ECMO In Multivessel Percutaneous Coronary Intervention
639	Niranjana	Natarajan	Vcam-1-mediated Mitochondrial Biogenesis In Macrophages Exacerbates Inflammation And Atherosclerosis
641	Tilo	Thottakara	Molecular Insights Into The Phenotypic Heterogeneity Observed In Two Different Murine Models Of Hypertrophic Cardiomyopathy (HCM)
648	Tapas	Nayak	Loss Of Myeloid Cell-specific Beta2-adrenergic Receptor Improves Cardiac Function After Acute Ischemia
663	Priyanka	Gokulnath	Extracellular Vesicle MicroRNA Cargo Drives Ventricular Arrhythmia In Heart Failure Patients By Recapitulating Developmental Genes
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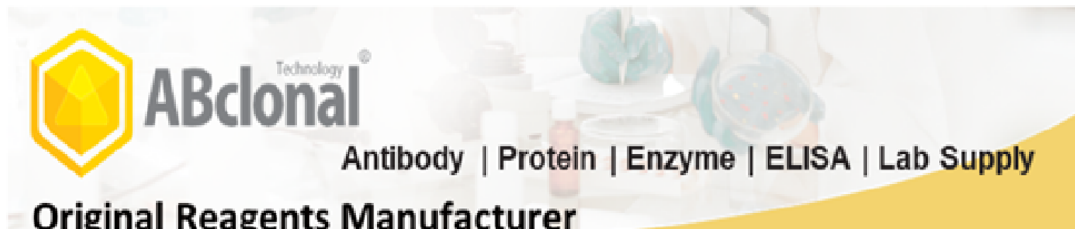
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