The 7th Asian Cardiovascular Symposium
A pre-meeting symposium of BCVS-2025

Tuesday, July 22, 2025, Baltimore
Marriott Baltimore Waterfront | Baltimore, Maryland
700 Aliceanna St | Baltimore, MD | 21202

Wifi network: BCVS25
Password: BCVS25

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**)

Final Program

Program at a glance:

12 - 01 PM – Registration
01 - 05 PM – Society Programs
05 - 07 PM – Poster Session
07 - 10 PM – Dinner
Keynote Speaker: David Kass, MD, Johns Hopkins University
Awards

Register Here

Registration — Grand Foyer West

Online Registration: https://my-acre.org/asian-cardiovascular-symposium
Onsite registration: $120
~~Dinner tickets~~: SOLD OUT

See the ***floor map*** at the end of the program booklet.

Contact:

For questions, please contact Dr. Huabo Su HSU@augusta.edu and Dr. Jun Yu jun.yu@temple.edu

Overview of 7th ACS Program

12:00–1:00 PM	**Registration (Grand Foyer West 3rd floor)**				
01:00–5:00 PM	**Society Program**				
		ACRE Ballroom VIII+IX (3rd floor) **Opening**	**JCRA** Ballroom VII (3rd floor) **Opening**	**KCS** Ballroom X (3rd floor) **Opening**	**SAHR** Kent A-C (4th floor) **Opening**
	1:00	**Session I** Featured Presentations	**Session I** Featured Presentations	**Session I** Plenary Lecture	**Session I** Early Career Faculty Presentations
	2:00		**Session II** Exchange Program featured speaker from KCS	**Session II** Invited Lecture from JCRA	**Session II** Plenary Exchange Speaker Seminar
	2:30 –3:00	**Coffee Break**			
	3:00	**Session II** ACRE-Cardiology Discovery Young Investigator Award Presentation	**Session III** Oral Presentation I	**Session III** Invited Lecture	**Session III** Mid-career /Established Faculty Presentations
				Session IV Oral Presentation	**Session IV** Pre-doctoral Trainee Presentations
	4:00	**Session III** ACRE Junior Faculty Award Presentation **Annual meeting**	**Session IV** Oral Presentation II		**Session V** Post-doctoral Trainee Presentations
	5:00	**Closing**			
5:00–06:45 PM	**Poster Session** Harborside ballroom (4th floor)				
7:00–10:00 PM	**ACS Joint Assembly and Dinner** (Ballroom VII-X 3rd floor)				
	6:30	Open Bar			
	7:00	Dinner			
	8:00	ACS Program Introduction			
	8:15	BCVS Leadership Remarks			
	8:30	Keynote speech-David Kass, MD			
	9:15	Award Announcement			
	9:30	Closing Remarks			

Acknowledgements

Special Acknowledgements

BCVS Chair	Maria Kontaridis, PhD, Masonic Medical Research Institute
BCVS Chair Elect	Sean Wu, MD, Stanford University
BCVS 2025 Program Committee Chair	Farah Sheikh, PhD, UC San Diego
BCVS 2024 Program Committee Vice-Chair	Jennifer Davis, PhD, University of Washington
AHA Program Manager	Donna Tu
AHA Scientific Meetings	Organizing Committee

ACS acknowledges generous donations from the following individuals and sponsors:

Individual Donations

ACS acknowledges generous donations from the following individuals and sponsors:

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- Hun-Jun Park, Catholic Univ, Korea
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- Sang-Ho Lee, Emory Univ
- Kyung Sun Heo, Chungnam Univ, Korea
- Youngkeun Ahn, Chonnam National Univ
- Changwon Park, LSU Health Shreveport
- Zhongjie Sun, UTHSC
- Liya Yin, Univ of Arizona
- Raj Kishore, Temple Univ
- Jihoon Nah, Chungbuk National Univ, Korea
- Soon Jun Hong, Korea Univ, Korea
- Yong Sook Kim, Chonnam National Univ, Korea
- Sung Woo Cho, Inje Univ, Korea
- Kyoung-Han Kim, Univ of Ottawa Heart Inst
- Young-Sup Yoon, Emory Univ
- Li Qian, Univ of North Carolina
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- Jiang Chang, Texas A&M Univ
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- Kevin Xiang, UCLA
- Long-Sheng Song, Univ of Iowa
- Na Li, Baylor Med College
- Xiaochun Long, Augusta Univ

Sponsors

The Academy of Cardiovascular Research Excellence (ACRE) Oral Session

Ballroom: VIII+IX (3rd floor), 1:00 PM – 5:00 PM

Opening

1:00-1:05 PM **Opening Remarks**

Zhao Wang, PhD	President of ACRE
Huabo Su, PhD	Chair, Cardiac Council of ACRE
Yang (Kevin) Xiang, PhD	Chair, Program & Science Committee

Session I Featured Presentation

Moderators: Wuqiang Zhu, MD, PhD, Mayo Clinic Arizona
Guo-chang Fan, PhD, University of Cincinnati
Xi Fang, PhD, University of California, San Diego (UCSD)

1:05-1:25 PM Patrick C.H. Hsieh, MD, PhD, FAHA, Institute of Biomedical Sciences, Academia Sinica, Taiwan
Synergistic cell therapy for cardiac regeneration in mice and nonhuman primates

1:25-1:45 PM Long-Sheng Song, MD, University of Iowa
Junctophilin-2 is required for fibroblast activation post MI

1:45-2:05 PM Paul C. Tang, MD, PhD, Mayo Clinic, Minnesota
Organ Preservation Biology, More Than Just A Phase

2:05-2:25 PM Zhe Han, PhD, University of Maryland
Precision Disease Modeling in Drosophila

2:25-2:45 PM Exchanged Speaker
Raj Kishore, PhD, Temple University
Inhibition of circulating small extracellular vesicles protects against pressure-overload induced cardiac remodeling and dysfunction

2:45-2:50 PM ACRE Group Photo

Coffee Break: 10 min

Session II ACRE-Cardiology Discovery Young Investigator Award Presentation

Moderators: Jiandong Liu, PhD, University of North Carolina
Peiheng Gan, PhD, Temple University
Chen Gao, PhD, University of Cincinnati

2:55 -3:10 PM Xiao Xiao, Massachusetts General Hospital
Cardiomyocyte METTL3 Protects Against Heart Failure with Preserved Ejection Fraction

3:10 -3:25 PM Jingjing Zheng, University of Wisconsin-Madison
Ryanodine receptor 2 Dysfunction Triggers Cardiac Muscle Loss and Fibrofatty Infiltrations Consistent with Arrhythmogenic Cardiomyopathy in a Rabbit Model

3:25 -3:40 PM Jielin Deng, City of Hope
Transient Senescence Following Myocardial Infarction: Characterization and Functional Implications in Cardiac Remodeling

The Academy of Cardiovascular Research Excellence (ACRE) Oral Session

Ballroom: VIII+IX (3rd floor), 1:00 PM – 5:00 PM

Sponsor's Presentation

3:40 -3:45 PM Ming Chen, Ph.D., Shibeikang LLC
Current R&D Pipeline: Key Candidates and Development Status

3:45-3:50 PM Jianwei Zheng, Ph.D., Academic Advancement Strategies, Key X Sciences LLC
Advancing Cardiovascular Research with Precision Tools: From Electrophysiology to AI Driven Study

3:50-3:55 PM Meizhu Qi, PhD, OBiO Tech,
AAV-Mediated Gene Delivery to Specialized Cardiovascular System: Strategies and Applications

3:55-4:00 PM Yajing Wang, MD, PhD, University of Alabama at Birmingham, Associate Editor, Cardiology Discovery
Cardiology Discovery Journal Development

Session III ACRE Junior Faculty Award Presentation

Moderators: Mingtao Zhao, DVM, PhD, Ohio State University
Na Li, PhD, Baylor College of Medicine
Long-Sheng Song, MD, University of Iowa

4:00-4:15 PM Tongbin Wu, Masonic Medical Research Institute
RBPMS and RBPMS2 Cooperate to Safeguard Cardiac Splicing

4:15-4:30 PM Haodi Wu, University of Pittsburgh
Decoding the regulatory role of functional SNP rs17617337 in human dilated cardiomyopathy

4:30-4:45 PM Hongyi Zhou, Augusta University
SCL2/Seipin Deletion Rescues ATGL-deficiency-induced Lethal Lipotoxic Cardiomyopathy via Modulating Cardiac Lipid Droplet Proteome

ACRE Annual Business Reports

4:45-4:50 PM ACRE Membership report from Dr. Yajing Wang (Co-Chair, Membership Committee)
4:50-4:55 PM ACRE Financial report from Dr. Wei Guo (Treasurer)

Closing Remarks

4:55-5:00 PM Hong Chen, PhD (President elect), Boston Children's Hospital, Harvard Medical School

Group Photo

5:00-5:10 PM ACS Official Whole Group Photo (Kent Hallway, 4th floor)

Poster Session (joint)

5:10-6:45 PM Poster viewing (Harborside Ballroom, 4th floor)

The Japanese Cardiovascular Research Association (JCRA) Oral Session

Ballroom: VII (3rd floor), 1:00 PM – 5:00 PM

Opening

1:00 PM-1:10 PM **Opening Remarks**
Masataka Nishiga, MD, PhD, Stanford University School of Medicine

Session I Featured Presentations

Moderators: Yoshinori Yoshida, MD, PhD, CiRA, Kyoto University
Masataka Nishiga, MD, PhD, Stanford University School of Medicine

25 min talk + 5 min Q&A

1:10 – 1:40 PM Masataka Kawana, MD, Stanford University Medical Center
Biomechanical Evaluation of Cardiac Myosin Mutations with Recombinant Human Protein: Insights into the Mechanism of Ventricular and Atrial Cardiomyopathy

1:40 – 2:10 PM Masayuki Yazawa, PhD, Icahn School of Medicine at Mount Sinai
Novel Live Cell/Tissue Imaging of Metabolites in Cardiovascular System

2:10 – 2:20 PM JCRA Group Photo and Networking

Session II Special Guest Lecture from KCS (Exchange Program)

Moderators: Koichiro Kuwahara, MD, PhD, Shinshu University School of Medicine

2:20 – 2:45 PM Hun-Jun Park, MD, PhD, Catholic University, St. Mary Hospital, Korea
Spatiotemporal Immune Modulation to Reverse Post-MI Remodeling

2:50 – 3:00 PM Coffee Break: 10 min

Session III Selected Oral Presentation

Moderators: Satoru Kobayashi, PhD, NYIT College of Osteopathic Medicine
Risa Mukai, PhD, Rutgers New Jersey Medical School

10 min talk + 2 min Q&A

3:00 – 3:12 PM Tomohiko Umei, MD, Keio University School of Medicine
Serine Synthesis Pathway Regulates Cardiomyocyte Differentiation from Human Pluripotent Stem Cells

3:12 – 3:24 PM Shunsuke Funakoshi, MD, PhD, CiRA, Kyoto University
Development of Drug Discovery Platforms Using In Vitro Human 3D Mature Cardiac Tissues to Discover Novel Therapies for Heart Failure

3:24 – 3:36 PM Misato Nakanishi-Koakutsu, PhD, Johns Hopkins University
Human iPSC-derived pacemaker organoids recapitulate cellular heterogeneity of the native sinoatrial node

The Japanese Cardiovascular Research Association (JCRA) Oral Session

Ballroom: VII (3rd floor), 1:00 PM – 5:00 PM

3:36 – 3:48 PM — Nanami Senoo, PhD, Johns Hopkins University
Disturbed mitochondrial maturation in cardiolipin remodeling-deficient cardiomyocytes

3:48 – 4:00 PM — Daisuke Shimura, PhD, Waseda Institute for Advanced Study (WIAS)
A short isoform with potent protective effects on mitochondria during IR injury

Sponsor's Presentation

4:00 – 4:10 PM — Jes Kuruvilla, PhD, MIFI Bioceuticals/PeptiGrowth

Session IV Selected Oral Presentation

Moderators: Daisuke Shimura, PhD, Waseda Institute for Advanced Study (WIAS)
Yuta Yamamoto, DVM, PhD, Stanford University

10min talk + 2min Q&A

4:10 – 4:22 PM — Yuya Fujiwara, PhD, CiRA, Kyoto University
Generation of low-adsorption device for engineered cardiac tissue

4:22 – 4:34 PM — Jin O-Uchi, MD, PhD, FAHA, FCVS, University of South Florida
Cardiomyocyte dysfunction by SARS-CoV-2 viroporins

4:32 – 4:46 PM — Sanal Kumar, PhD, Amity University
Microbubble-Induced Shock Waves in Blood: Investigating Multiphase Sanal Flow Choking During Decompression

4:46 – 4:58 PM — Takuma Takada, MD, PhD, Rutgers New Jersey Medical School
Phosphorylation of FoxO1 at Serine 284 by GSK3β Is Essential for Maintaining Systolic Function in the Heart

Closing Remarks/ Group Photo

4:58 – 5:00 PM — **Closing Remarks**
Satoru Kobayashi, PhD, NYIT College of Osteopathic Medicine

Poster Session (joint)

5:00 – 5:10 PM — ACS Official Whole Group Photo (Kent Hallway, 4th floor)
5:10 – 6:45 PM — Poster viewing - Harborside Ballroom, 4th floor

Korean Cardiovascular Society (KCS) Oral Session

Room: Ballroom X (3rd floor), 1:00 PM – 5:00 PM

Opening

1:00 – 1:05 PM **Opening Remarks**
Soon Jun Hong, MD, PhD, Korea University, Korea
Young-sup Yoon, MD, PhD, Emory University School of Medicine, USA

Session I — Featured Presentation (1)

Moderators:
Youngkeun Ahn, MD, PhD, Chonnam National University, Korea
Kyoung-Han Kim, PhD, University of Ottawa Heart Institute, Canada
Hun-Jun Park, MD, PhD, Catholic University, St. Mary Hospital, Korea

1:05 – 1:25 PM Jinah Jang, PhD, Pohang University of Science and Technology, POSTECH, Korea
Bioprinting Technology for Advanced Therapeutics

1:25 – 1:45 PM Sangkyun Cho, PhD, Stanford University, USA
Selective inhibition of stromal mechanosensing for the treatment of cardiovascular fibrosis

1:45 – 2:05 PM Changwon Park, PhD, LSU Health Shreveport, USA
The role of autism spectrum disorder risk gene, Shank3, in blood brain barrier

Session II — Featured Presentation (2)

Moderators:
Soon Jun Hong, MD, PhD, Korea University, Korea
Hyung Joon Joo, MD, PhD, Korea University, Korea

2:10 – 2:30 PM Kyung Sun Heo, PhD, Chungnam University, Korea
STAT3 Orchestrates LPS-induced Endothelial–Mesenchymal Transition via Crosstalk Between ER Stress and Mitochondrial ROS

2:30 – 2:50 PM Jihoon Nah, PhD, Chungbuk National University, Korea
The dynamic role of the nuclear membrane in determining cardiomyocyte fate during ischemia-reperfusion injury

2:50 – 3:00 PM Coffee Break: 10 min

2:55 – 3:00 PM KCS Group Photo

Session III — Featured Presentation (3), *Exchanged talk with JCRA*

Moderators:
Hee Chul Cho, PhD, Johns Hopkins School of Medicine, USA
Sung Jin Park, PhD, Emory University, USA

3:00 – 3:20 PM Bum-Rak Choi, PhD, Brown University, Rhode Island Hospital, USA
Impact of inflammation on cardiac arrhythmias in pulmonary hypertension

3:20 – 3:40 PM Kohta Ikegami, PhD, Cincinnati Children's Hospital Medical Center (JCRA guest speaker)
Repairing Nuclear Envelope Rupture in Lamin-Related Cardiomyopathy

Korean Cardiovascular Society (KCS) Oral Session

Room: Ballroom X (3rd floor), 1:00 PM – 5:00 PM

Session IV	**Oral Presentation**
Panels:	Yong Sook Kim, PhD, Chonnam National University Hospital, Korea Sang-Ho Lee, PhD, Emory University School of Medicine, USA Jong Jin Kim, PhD, KIAT, Korea Young Mi Park, PhD, Ewha Womans University, Korea Soah Lee, PhD, Sungkyunkwan University, Korea Sung Woo Cho, MD, PhD, Inje University, Korea
3:45 – 3:55 PM	Jae-Hyun Park, Catholic University, Korea *Therapeutic potential of 3D multi-cellular cardiac spheroids derived from human pluripotent stem cells for cardiac regeneration*
3:55 – 4:05 PM	Ki-Woon Kang, Chung-Ang University, Korea *Cardio-protective effect on myocardial mitochondrial damage with optimal dose leptin administration in the ischemic heart failure rat model*
4:05 – 4:15 PM	Thuy Le Lam Nguyen, Chungnam National University, Korea *Carboxyl-Terminus of Hsc70-Interacting Protein Facilitates Angiotensin II-induced Phenotypic Switching in Vascular Smooth Muscle Cells*
4:15 – 4:25 PM	Marwan Bakr, University of Ottawa Heart Institute, Canada *Comparative Single-Cell Atlas of the Vertebrate Cardiac Conduction System*
4:25 – 4:35 PM	Jin-Young Yoon, University of Iowa, USA *SIRT5 Dysfunction Evokes Arrhythmias and Na^+ and Ca^{2+} Mishandling in mouse heart*
4:35 – 4:45 PM	Su Han Cho, University of Maryland School of Medicine, USA *Elucidation of sAnk1 as a transcriptional and/or epigenetic regulator of sarcoplasmic reticulum formation during myogenic development*
4:45 – 4:55 PM	Suh Hee Cook, PhD, North Carolina State University, USA *Stimulation-Conduction Platform Enhances Induced Pluripotent Stem Cell-Derived Cardiomyocyte Electrophysiology*
Closing Remarks & Group Photos	
4:55 – 5:00 PM	**Closing Remarks** Young-sup Yoon, MD, PhD, Emory University School of Medicine Soon Jun Hong, MD, PhD, Korea University, Korea
Poster Session (joint)	
5:00 – 5:10 PM	ACS Official Whole Group Photo (Kent Hallway, 4th floor)
5:10 – 6:45 PM	Poster viewing (Harborside Ballroom, 4th floor)

Society for South Asian Heart Research (SAHR) Oral Session

Room: Kent A - C, 1:00 PM – 5:00 PM

Opening

1:00 – 1:07 PM	**Welcome note, History and Vision** President's Note: Sathyamangala Prasad, PhD, Cleveland Clinic, Ohio
1:07 – 1:10 PM	**Programming Committee (Introduction, Commitment, and Effort)** Programming Chair's Note: Shyam S. Bansal, PhD, Pennsylvania State University

Session I — Exchange Speaker Seminar and Invited Faculty Presentations

Moderators:	Murugesan Rajaram, PhD, The Ohio State University Anichavezhi Devendran, PhD, ICAHN School of Medicine at Mount Sinai
1:10 – 1:12 PM	**Introduction:** Moderators and the Session
1:12 – 1:30 PM	Sangeetha Sukumari Ramesh, PhD, Associate Professor, Augusta University *Epigenetic Mechanisms and Intracerebral Hemorrhage*
1:30 – 1:48 PM	Yazhini Ravi, MD, Assistant Professor, University of Connecticut *Cardiac Dysfunction in Covid19*
1:48 – 2:06 PM	Faisal Aziz, MD, Professor, Penn State University *Incidence of Vascular Diagnoses in the South East Asian Countries - Strategies for Future*
2:06 – 2:24 PM	Dipayan Chaudhuri, MD, PhD, Associate Professor, University of Utah *Complex I assembly produces pro-inflammatory reactive oxygen species during normal physiology*
2:24 – 2:44 PM	Exchange Speaker: Mingfu Wu, PhD, Associate Professor, University of Houston *Distant cellular interaction regulates heart wall formation*
2:45 – 3:00 PM	Coffee Break: 15 min

Session II — Data Blitz: Pre- and Post-doctoral Trainees and Early-Career Faculty Presentations (Selected Talks from BCVS Best Abstracts)

Moderators:	Saravanakumar Murugesan, PhD, University of Alabama at Birmingham Maria Cimini, PhD, Temple University
3:00 – 3.02 PM	**Introduction:** Moderators and the Session
3:02 – 3:08 PM	Angelica Toro Cora, BS (University of Alabama at Birmingham) *Myeloid PD-L1 Signaling Regulates Cardiac Immune Homeostasis and Prevents Inflammation-Driven Cardiac Dysfunction*
3:08 – 3:14 PM	Vasisht Yegneshwaran, BS (Rutgers University) *The Microtubule Network Regulates NOX2-Mediated Oxidative Stress and Cx43 Remodeling in Duchenne Muscular Dystrophy*
3:14 – 3:20 PM	Ashlesha A. Kadam, PhD (Wake Forest University), *Targeting Mitochondrial Proteostasis in Barth Syndrome-Related Cardiomyopathy*

Society for South Asian Heart Research (SAHR) Oral Session

Room: Kent A - C, 1:00 PM – 5:00 PM

3:20 – 3:26 PM	Charan Thej Gurrala, PhD (Temple University) *DNMT3B-Mediated Epigenetic Reprogramming Induces Cardiomyocyte Dedifferentiation and Proliferation, Enhancing Post-MI Cardiac Regeneration*
3:26 –3:32 PM	Chandni Thakkar, PhD (Rutgers University) *Constitutive Expression of Cardiomyocyte Klf9 Precipitates Metabolic Dysfunction and Spontaneous Heart Failure*
3:32 – 3:38 PM	Dipanjan Chattopadhyay, PhD **(**University of Oklahoma Health Sciences Center) *Infiltration of Neutrophils to Adipose Tissue Aggravates Insulin Resistance Following Myocardial Infarction in Obesity*
3:38 – 3:48 PM	Satyabrata Das, PhD, Assistant Professor (University of Minnesota) *The Pioneer Factor, ETV2, Regulates Networks to Specify the Embryonic Endothelial Lineage*
3:48 – 3:58 PM	Ankit Garg, MD, PhD, Assistant Professor (Johns Hopkins University) *Multiscale Analysis of the Role of Skeletal Muscle Actin Mutations in Causing Dilated Cardiomyopathy*

session III SAHR Townhall: Directions, Suggestions and Future

4:00 – 4:35 PM **Facilitators:** Danish Sayed, PhD and Suresh Verma, PhD (Secretaries)

President	: Sathyamangala Prasad, PhD, Cleveland Clinic
Programming Chair	: Shyam S. Bansal, PhD, Pennsylvania State University
Mentorship Chair	: Hind Lal, PhD, University of Alabama at Birmingham
Early Career Committee Chair	: Dhanendra Tomar, PhD, Wake Forest University
Treasurer	: Mahmood Khan, PhD, The Ohio State University
Membership Comm. Chair	: Venkatesh Sundararajan, PhD, West Virginia University
Communications Comm. Chair	: Viswanathan Rajagopalan, PhD, New York Institute of Technology
International Liaison	: Rajasekaran Namakkal-Soorappan, PhD, Univ of Alabama at Birmingham
Awards Committee	: Charles Thodeti, PhD, University of Toledo
Metabolic Sub-committee	: Sabyasachi Sen, MD, PhD, The George Washington University

Topics to be covered

1) Executive committee selection and tenure
2) Selection of Committee Members
3) SAHR Memberships
4) Mentoring and Early career involvement in SAHR
5) Fund raising
6) SAHR Promotion, SAHR Awards and international SAHR Chapters

Closing Remarks/ Photo Session

4:35 – 4:40 PM	Early Career Vice-Chair: Srikanth Garikipati, PhD, Temple University
4:40 – 4:45 PM	Programming Vice-Chair: Padmini Sirish, PhD, University of California-Davis
4:45 – 5:00 PM	SAHR Members Group Photo session
5:00 – 5:10 PM	ACS Official Whole Group Photo (Kent Hallway, 4th floor)
5:00 – 7:00 PM	Poster viewing (Harborside Ballroom, 4th floor)

2025 ACS Joint Assembly Session and Dinner

Room: Ballroom VII-X (3rd floor), 7:00 PM – 10:00 PM

6:30-8:30 PM Open Bar

Opening Remarks

7:00-7:05 PM Zhao Wang, PhD, ACRE President, City of Hope, Beckman Research Institute

Dinner & ACS Got Talents Show

Hosts: Jun Yu, MD, ACRE General Secretary, Temple University,
Rajasekaran Namakkal Soorappan, PhD, University of Alabama at Birmingham
Jianli Zhao, MD, University of Alabama at Birmingham

7:20 PM - Jianli Zhao: *Musical Instrument Performance*

7:30 PM - Sini Suny and Soumya Krishnan: *Group Dance Performance*

7:35 PM - Hanyu Su: *Saxophone performance*

7:40 PM - Narasimman Gurusamy: *South Indian Song*

ACS Program Introduction

8:00-8:15 PM	ACRE President	Zhao Wang, PhD, City of Hope, Beckman Research Institute
	JCRA President	Masataka Nishiga, MD, PhD, Stanford University
	KCS President	Young-sup Yoon, MD, PhD, Emory University
	SAHR President	Sathyamangla Prasad, PhD, FAHA, Cleveland Clinic

BCVS Leadership Remarks

8:15-8:30 PM Drs. Joseph Wu, Hossein Ardehali, Raj Kishore, Maria Kontaridis, Joseph Hill, Tim McKinsey, Sumanth Prabhu, Junichi Sadoshima, Sakthivel Sadayappan, Farah Sheikh, Sean Wu, Jianyi Jay Zhang, Xinliang Ma

Keynote Speech

8:30-9:15 PM Moderator: Xuejun (XJ) Wang, MD, PhD, ACRE Immediate Past President, University of South Dakota

Keynote speaker: David Kass, MD, Johns Hopkins University

"***Recipe for making a HFpEF Heart in 2025***"

Award Announcements

9:15-9:18 PM	ACRE	Qian Li & Hong Lu, PhD, Co-Chairs of Education/Award Committee, UNC School of Medicine & University of Kentucky
9:18-9:21 PM	JCRA	Daisuke Shimura, Co-Chair of JCRA, Waseda Institute for Advanced Study
9:21-9:24 PM	KCS	Hun-Jun Park, MD, PhD, Catholic University, St. Mary Hospital, Korea
9:24-9:27 PM	SAHR	Shyam S. Bansal & Sathyamangala Prasad, PhD, Program Committee Chair & SAHR President, Pennsylvania State University & Cleveland Clinic

Closing Remarks

9:30 PM Sathyamangla Prasad, PhD, SAHR President, Cleveland Clinic

2025 ACS Poster Session

Room: Harbor side ballroom (4th floor), 5:00 PM – 6:45 PM

All poster presenters are requested to set up their posters at the Board numbers specified on the board.

Academy of Cardiovascular Research Excellent (ACRE)

Board#	Ctr#	First	Last	Title
A1	4300331	Liye	Fang	Sexual dimorphism in the cardioprotective effects toward myocardial infarction following genetic deletion of soluble epoxide hydrolase in aged mice
A2	4300618	Shijun	Hu	The disruption of cTnT-mediated sarcomere-mitochondrial communication results in dilated cardiomyopathy
A3	4302207	Wei-Ting	Chang	Mitral regurgitation induced shear stress exacerbated cardiac remodeling and atrial fibrillation via NF-κB/miR-21/pitx2c pathway
A4	4302415	Jianqiu	Zou	Neddylation is a novel post-translational mechanism regulating mitochondria integrity in adult hearts
A5	4302656	Brian	Lin	AI Modeling Predicts BI 749327 disrupts Transient Receptor Potential Canonical 6 channel formation to rescue dystrophic cardiomyopathy
A6	4303232	Jing	Zhang	Controlled Release of Interleukin-10 Effectively Programs Macrophage Phenotypes and Cardiac Remodeling
A7	4303455	Gang	Li	Complement signaling orchestrates an immunosuppressive microenvironment during cardiac renewal
A8	4303463	Fansen	Meng	Novel Gene Therapy Cardiomyocyte-YAPon Protects Mouse Heart from Myocardial Infarction
A9	4303697	Zhongjian	Cheng	Muscle-specific miR-499-5p delivered by small extracellular vesicles impairs endothelial function and ischemic hindlimb recovery in diabetic mice
A10	4304394	Ziqing	Liu	The splicing factor SF3B1 in regulating endothelial gene expression and angiogenesis
A11	4304498	Wa	Du	Role of Endothelial Reelin in diabetic cardiomyopathy and chronic inflammation
A12	4304859	Lin	Liu	YAP Induces a Pro-Renewal Metabolic State in Cardiomyocytes
A13	4304922	Grace	Hanson	Impacts of Estradiol and Progesterone On Cardiomyocyte Cell Dynamics and Mitochondrial Respiration
A14	4306069	Maryam Rezaei	Gazik	Ufmylation induces adaptive cardiac hypertrophy and protects against beta-adrenergic signaling-induced heart failure
A15	4306166	Le Gia Cat	Pham	Global Deletion of Cytoglobin Exacerbates Cardiac Hypertrophy in Mice With Angiotensin II infusion Without Additional Increase in Systemic Blood Pressure
A16	4306203	Fubiao	Shi	Salt-inducible kinase inhibition promotes weight loss and improves the diastolic function of obesity-related heart failure with preserved ejection fraction in mice
A17	4306420	Yannick	Balepa	Preliminary Evidence for In Vitro Intrinsic Production of Misfolded Transthyretin by Patient iPSC-Derived Cardiomyocytes

A18	4306581	Xiaodan	Hui	Dual CXCR4/CXCR7 Modulation: TC14012 as a Novel Therapeutic Strategy Against Doxorubicin-Induced Cardiotoxicity
A19	4306582	Jing	Leng	Single-Cell RNA-seq Analysis Reveals a Two-Step Mechanism for TBX18-Mediated Reprogramming of Ventricular Myocytes into Pacemaker Cells
A20	4307293	Maggie	Lim	SUMO2/3 excludes YAP5SA from the nucleus and inhibits cardiomyocyte proliferation
A21	4307575	Wencao	Zhao	NAD+-dependent Suppression of H2O2 is Required for Endothelial Cells to Enter Quiescence during Angiogenesis
A22	4308128	Xiao	Li	Senescent microvascular niche in single ventricle heart failure
A23	4309273	Chang-Ru	Tsai	YAP Induces a Glycolytic Microenvironment to Drive Right Atrial Fibroinflammation
A24	4309363	Ti	Wang	Protein phosphatase 2A, a critical modulator of cardiomyocyte ferroptosis in takotsubo syndrome
A25	4310830	Suet Nee	Chen	Upregulation of EHD2 Leads to Connexin 43 Displacement from the Membrane in FILAMIN C Cardiomyopathy
A26	4311184	Jijun	Huang	Deciphering transcriptome and cell-cell communication signature in heart failure with preserved ejection fraction at single cell resolution
A27	4311237	Rafael	Ramirez	Sinus Asystole and Tachycardia-Bradycardia Syndrome in a Miniature Swine Model of Sinus Node Dysfunction
A28	4311792	Yuyao	Feng	Cell-Type-Specific Role of PDE5A in Atherosclerosis and Its Therapeutic Potential
A29	4311956	Tingting	Li	A novel LMNA mutant (R225X) leads to cardiac conduction disorders
A30	4312096	Parnia	Mobasheran	Kynurenic acid mitigates doxorubicin-cardiomyopathy via improving mitochondrial function and silencing ATP synthase inhibitory subunit 1
A31	4312189	Yijun	Yang	Understanding cardiac metabolomic adaptation in normal vs obese maternal heart

Japanese Cardiovascular Research Association (JCRA)

Board#	Ctr#	First	Last	Title
J1	4312009	Kohta	Ikegami	ESCRT III-Driven Repair of Nuclear Rupture Reverses Transcriptional Arrest in Lamin-Related Cardiomyopathy
J2	4301429	Tomohiko	Umei	Serine Synthesis Pathway Regulates Cardiomyocyte Differentiation from Human Pluripotent Stem Cells
J3	4301534	Tomoya	Sakamoto	Vulnerability of Cardiomyocyte Gene Programs to Loss of Estrogen-related Receptor (ERR); Implications for Genetic Determinants of Human Heart Disease
J4	4302124	Shunsuke	Funakoshi	Machine Learning-Based Drug Screening Using Human iPS Cell-Derived Cardiac Tissues Identified A Novel Drug for Doxorubicin-Induced Cardiomyopathy
J5	4306594	Yuya	Fujiwara	Generation of low-adsorption devise for engineered cardiac tissue
J6	4306697	Shinichi	Oka	Perm1 enhances Nrf2-driven antioxidant defense by facilitating Keap1 oxidation through its specific cysteine residues, thereby protecting the heart from reperfusion injury

J7	4310701	Risa	Mukai	Mst1-induced PERK phosphorylation promotes cardiac dysfunction
J8	4311414	Mariia	Kapitonova	Selenoprotein S – New binding partner and potential regulator of Sarcoendoplasmic Reticulum Calcium ATPase pump
J9	4311470	Misato	Koakutsu	Human iPSC-derived Pacemaker Organoids Recapitulate Cellular Heterogeneity Of the Native Sinoatrial Node
J10	4311950	Heba	Ahmed	Ubiquitin E3 ligase SMURF1Alleviate Doxorubicin-Induced Lysosomal Injury and Cardiomyocyte Death.
J11	4304970	Takuma	Takada	Phosphorylation of FoxO1 at Serine 284 by GSK3β Is Essential for Maintaining Systolic Function in the Heart
J12	4307198	Susan	Shea	Platelet Transfusion Simulation Effectively Reverses Aspirin-Induced Platelet Inhibition In Vitro: A Role for Stored Platelets?

Korean Cardiovascular Society (KCS)

Board #	Control ID	First name	Last name	Title
K01	4307617	Thuy Le Lam	Nguyen	Carboxyl-Terminus of Hsc70-Interacting Protein Facilitates Angiotensin II-induced Phenotypic Switching in Vascular Smooth Muscle Cells
K02	4311544	Yong Sook	Kim	Development of a Reproducible Human Cardiac Organoid Model
K03	4305134	Ki-Woon	Kang	Cardio-protective effect on myocardial mitochondrial damage with optimal dose leptin administration in the ischemic heart failure rat model
K04	4301110	Suh Hee	Cook	Stimulation-Conduction Platform Enhances Induced Pluripotent Stem Cell-Derived Cardiomyocyte Electrophysiology
K05	4303161	Su Han	Cho	Elucidation of sAnk1 as a transcriptional and/or epigenetic regulator of sarcoplasmic reticulum formation during myogenic development
K06	4303385	Hyung Joon	Joo	Differential Effects of VEGF-A on Endothelial and Hematopoietic Lineage Specification in 2D Versus 3D Cultures of Embryonic Stem Cells
K07	4304182	Jong-Ho	Kim	SDF-1α from adipose derived-stem cell increases angiogenesis in acute myocardial infarction
K08	4304647	Marwan	Bakr	Comparative Single-Cell Atlas of the Vertebrate Cardiac Conduction System
K09	4305108	Jihoon	Nah	Preserving Nuclear Envelope Integrity Prevents Autosis
K10	4305926	Jae-Hyun	Park	Therapeutic potential of 3D multi-cellular cardiac spheroids derived from human pluripotent stem cells for cardiac regeneration
K11	4307824	Harriet	Blankson	Sex-specific differences in transcriptomic profile in black individuals to predict cardiovascular health
K12	4309342	Sung Woo	Cho	Generation and characterization of induced pluripotent stem cell-derived cardiomyocytes from uncontrolled diabetic patients with ischemic and non-ischemic cardiomyopathy
K13	4310353	Soah	Lee	IGFBP2 Regulates Human IPSC-Derived Cardiomyocyte Proliferation Beyond Contact Inhibition

K14	4311760	Bum-rak	Choi	Abl1 kinase-deficient mouse hearts exhibit conduction disturbance and arrhythmia vulnerability to oxidative stress that are typically associated with age-related proarrhythmic remodeling
K15	4311685	Rana	Assaly	Embracing the complex pathophysiology of heart failure with preserved ejection fraction by developing rodent models to feature different patients' phenogroups.

Society for South Asian Heart Research (SAHR)

Board#	Ctr#	First	Last	Title
SH001	4300835	Satvik	Mareedu	Regulation of ERR mediated metabolic adaptation during Pressure-Overload Stress
SH002	4306144	Charan	Gurrala	DNMT3B-Mediated Epigenetic Reprogramming Induces Cardiomyocyte Dedifferentiation and Proliferation, Enhancing Post-MI Cardiac Regeneration
SH003	4304912	Ashlesha	Kadam	Targeting mitochondrial proteostasis in Barth syndrome-related cardiomyopathy
SH004	4306698	Dipanjan	Chattopadhyay	Infiltration Of Neutrophils To Adipose Tissue Aggravate Insulin Resistance Following Myocardial Infarction In Obesity
SH005	4306793	Richa	Aishwarya	Interplay of Molecular Chaperones to Regulate Cardiac Function in Mutant αB-Crystallin-Mediated Proteotoxic Cardiomyopathy
SH006	4312135	Chandni	Thakkar	Constitutive Expression of Cardiomyocyte Klf9 Precipitates Metabolic Dysfunction and Spontaneous Heart Failure
SH007	4311799	Shridhar	Sanghvi	CLIC2 AS A NOVEL REGULATOR OF RYR2 AND SR Ca2+ HOMEOSTASIS IN CARDIAC PHYSIOLOGY
SH008	4300833	Jay	Sah	Von Willebrand Factor (VWF) and Angiopoietin 2 (ANGPT-2) work cooperatively to induce Non-Surgical Bleeding in Continuous-flow-Left Ventricular Assist Device (CF-LVAD) Patients
SH009	4306199	Kunal	Samantaray	Lysine-lactylation of the Mitochondrial Calcium Uniporter and Its Role in Mitochondrial Calcium Flux
SH010	4306200	Anupriya	Sinha	Intermembrane Space Proteases In Mitochondrial Stress Response
SH011	4305716	Allen	Titus	Thioredoxin 1 is a critical factor for the stability and activity of SERCA2a in the heart
SH012	4305597	Ashish	Jaiswal	Cardiac Fibroblast Piezo1 Promotes Myocardial Fibrosis And Dysfunction Post-Myocardial Infarction
SH013	4305980	Ashish	Jaiswal	Fibroblast-Specific Deletion of Hipk2 Exacerbates MI-induced Inflammation and adverse fibrotic remodeling
SH014	4310792	Sakthijothi	Muthu	Mitochondrial Lonp1 Regulates Mitochondrial Inner Membrane Quality Control In Cardiac Functions
SH015	4312174	Sakthijothi	Muthu	Cardiac Mitochondrial Dysfunction Impairs Mitochondrial Complex Activities And Induces UPRmt Stress Responses In The Cortex And Hippocampus
SH016	4304086	Baldeep	Singh	Fibroblast-specific NFκB-dependent signaling exacerbates inflammation and cardiac dysfunction in the heart following a myocardial infarction.
SH017	4305463	Angelica	Toro Cora	Myeloid-derived Immunosuppressive PD-1/PD- Signaling is Essential to Maintain Adult Heart Homeostasis
SH018	4309624	Aaryan	Kohli	A Novel Role for AKAP1 in JNK2 Trafficking to Endoplasmic Reticulum and Ca2+ Triggered Arrhythmic Activities

SH019	4312136	Vasisht	Yegneshwaran	The microtubule network regulates NOX2-mediated oxidative stress and Cx43 remodelling in Duchenne Muscular Dystrophy Vasisht Yegneshwaran*, Delong Zhou*, Julie Nouet, Geovanni Geukgeuzian, Nehal Ali, Elam Mesa, Hong Li, Tong Liu, Ghassan Yehia, Peter Romanienko, George Rodney, Xander Wehrens, Paul Lampe, Robert Gourdie, Lai-Hua Xie, Diego Fraidenraich
SH020	4312154	Aishwarya	Venkatasubramanian	Klf9 plays a critical role in metabolic homeostasis during cardiac hypertrophy
SH021	4308943	Shanikumar	Goyani	Mitochondrial Proteostasis In Cardiac Fibroblast Activation And Fibrosis
SH022	4306791	Tamjid	Islam	Novel Regulatory Mechanism in Macrophage Phenotypic Gene Responses to Cardiometabolic Stressors
SH023	4311961	Sujoita	Sen	Targeting ER/SR HAX-1/Hsp90 Interaction to Enhance Cardiomyocyte Contractility and Survival upon Stress
SH024	4309459	Subhankhi	Pal	LonP1 Deficiency Modulates Metabolic and Mitochondrial Adaptations in High Fat Diet Induced Cardiac Dysfunction
SH025	4311991	Suriya Muthukumaran	Natarajaseenivasan	Elucidating the role of Circular RNAs in Ventricular Pacing-Induced Heart Failure of Canines
SH026	4302538	Ankit	Garg	Multiscale Analysis of the Role of Skeletal Muscle Actin Mutations in Causing Dilated Cardiomyopathy
SH027	4312095	Satyabrata	Das	The pioneer factor, ETV2, regulates networks to specify the embryonic endothelial lineage.
SH028	4310732	Maria	Cimini	Lymphatic Endothelial Cells Derived Extracellular Vesicles Promote Endothelial Cells and Pericyte Phenotype Switching after Injury via WNT Signaling
SH029	4306686	Perwez	Alam	MCM2 overexpression in the adult heart promotes cardiac rejuvenation and protection after infarction.
SH030	4305685	Shiridhar	Kashyap	Modulating mitochondrial protein quality control in age-induced cardiac dysfunction
SH031	4306184	Roshan	Dutta	METTL3 inhibition reduces myofibroblast activation and adverse remodeling following MI.
SH032	4312072	Narasimman	Gurusamy	Long Noncoding RNA MALAT1-Mediated Cardiac and Mitochondrial Adaptations Under Ketotic Conditions in Mice and Human Cardiomyocytes
SH033	4311843	Maradumane	Mohan	Cardiac CamKII is Regulated by kinase independent function of PI3Kgamma
SH034	4311859	Amit	Rai	Deciphering the Role of a Novel circular RNA in Cardiac Dysfunction After Myocardial Infarction
SH035	4311755	Prabhat	Ranjan	Gut bacteria products impaired heart function in DSS colitis model
SH036	4294057	Rosy	Joshi-Mukherjee	hiPSC Adaptation to Doxorubicin: A Sizer-Activator Model of Pluripotency and Self-Renewal
SH037	4311882	Praveen	Dubey	Endotoxemia induces mitochondrial DNA (mtDNA) damage in mouse myocardium and cardiomyocytes
SH038	4311862	Sini	Sunny	Reductive stress alters high density lipoprotein (HDL) functionality and induces atheroma
SH039	4305648	Finosh	Thankam	LGALS1+ endogenous ventricular stem cells in cardiac regeneration
SH040	4303662	Saravanakumar	Murugesan	Altered vasorin and angiotensinogen/vasorin ratios correlate with vascular reactivity in women with preeclampsia
SH041	4305266	Bhavna	Adhin	Cardiorenal Interaction Assessment via ECG Features: A Study using Dynamic Time Warping and Extracted Feature Clustering

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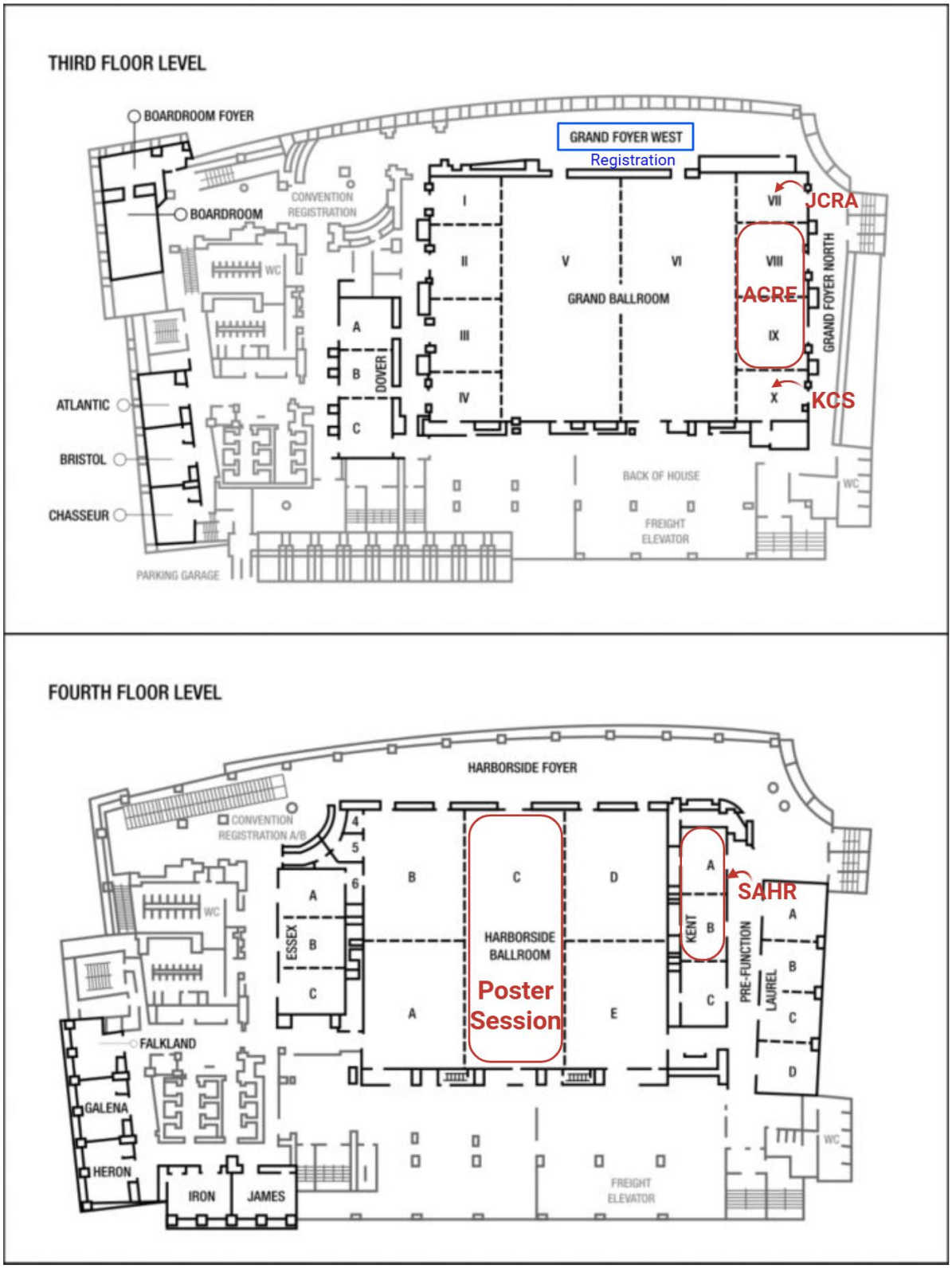
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