

2ND ANNUAL MEETING OF INTERNATIONAL SOCIETY FOR HEART RESEARCH (SOUTHEAST ASIAN SECTION)

INNOVATION AND COLLABORATION IN CARDIOVASCULAR RESEARCH



Scientific Schedule (Day 1)

TUESDAY | 28.04.2026 | 07:30AM-06:00 PM

07:30 - 08:25	Registration and Poster Set-up
08:30 - 08:40	Doa Recitation
	Welcome and Introductions
	Kamisah Yusof (Chairperson, 2 nd ISHR-SEA organising committee)
	Presidential Address
	Roger Foo (Former President, ISHR-SEA section)
	Patrick Hsieh (President, ISHR-SEA section)
	Yasuchika Takeishi (President, ISHR Japanese section)
08:40 – 09:10	Keynote Lecture 1
	Chair: Kamisah Yusof (UKM, Malaysia)
	Challenging Risk Prediction of CVD with Artificial Intelligence
	Sazzli Kasim
	Professor of Medicine/Director Cardiovascular Advancement and Research Excellence Institute (CARE Institute), UiTM, Malaysia
09:10 - 10:10	Scientific Session 1: Ischemic Heart Disease
	Chairs: Azizah Ugusman (UKM, Malaysia), Adila Hamid (UKM, Malaysia)
	1. Development of an Exercise-Mimetic Gene Therapy for Ischemic Heart Failure Toshiyuki Ko (The University of Tokyo, Japan)
	2. Adipokine in Acute Myocardial Infarction Mas Rizky A. A. Syamsunarno (Universitas Padjajaran, Indonesia)
	3. Macrophage Polarization during Fibrotic Disease Jacques Behmoaras (DUKE-NUS, Singapore)
10:10 – 10:30	Tea Break and Poster Viewing
10:30 – 12:00	Young Investigator Award Session
	Judging panel: Elena Aisha Azizan (Chair, UKM, Malaysia), Roger Foo (NUS)

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Medicine, Singapore), Patrick Hsieh (Institute of Biomedical Sciences, Taiwan), Nipon Chattipakorn (Chiang Mai University, Thailand), Yin Hua Zhang (Seoul National University, South Korea), Yasuchika Takeishi (Fukushima Medical University, Japan)

1. **Loss of STMP1 Perturbs Mitochondrial Cristae and Drives Cellular Inflammation and Heart Failure**
Francesco Paolo Ruberto (NUS, Singapore)
2. **Splenectomy Attenuates Cardiac Inflammation and Diastolic Dysfunction in HFpEF**
Jinyun Zhu (Duke-NUS, Singapore)
3. **Identifying Novel Drivers of Cardiac Lineage Specification and Cardiomyocyte Maturation using Paired Short/Long-Read scRNA-seq**
Ryan Fan (NUS Medicine, Singapore)
4. **A Translational Mouse Model of Spontaneous Atrial Fibrillation for Therapeutic Development**
Nur Syakirah Othman (National Cerebral and Cardiovascular Center, Japan)
5. **Association Between Insulin Resistance and Atrial Fibrillation: Insights from Real-World and Genetic Evidence**
Xiao Liu (Sun Yat-sen Memorial Hospital of Sun Yat-sen University, Guangzhou, China)
6. **Resolving the NOS1AP GWAS Signal in Long QT Syndrome Through Isoform-Specific Mechanisms**
Galvin Tang (NUS, Singapore)

12:00 – 13:00

Mid-Career Open Communication Session

Chairs: Haojie Yu (NUS-Med, Singapore), Badamkhand Mendsaikhan (Institute of Medical Sciences, Mongolia)

1. **Building Better Vessels: From Matrix Integrity to Re-Endothelialisation**
Nadiah Sulaiman (UKM, Malaysia)

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13:00 – 13:10

Industrial Talk @Ebony by Olink Proteomic Sciences

Proteomics in Cardiovascular Research: From Biomarker Discovery to Clinical Insight

Jia Kai Lim

13:10 - 14:10

Lunch Talk @Oak

Lunch & Poster Viewing

14:10 – 15:40

Scientific Session 2: Heart Failure

Chairs: Bambang Widyanoro (Universitas Indonesia), Pongrat Pakdeechote (Khon Kaen University, Thailand)

1. **Discovery of Novel Therapeutic Targets for Heart Failure Using Human Stem Cell-Derived Cardiomyocytes**
Tomoya Kitani (Kyoto Prefectural University of Medicine, Japan)
2. **Non-canonical Effects of Low-Dose Myosin Inhibitor Mavacamten to Facilitate the Relaxation of Myofibrils from the HFpEF Heart**
Lin Ying-Hsi (Alvin) (Duke-NUS, Singapore)
3. **Atrial Remodelling and AF Susceptibility in Mouse Models of Hypertrophic Cardiomyopathy**
Lim Wei Wen (NHCS, Singapore)
4. **Circulating Profiling and Nanoparticle Delivery of miRNAs Targeting Heart Failure**
Diem My Vu (University of Medicine and Pharmacy, Vietnam)

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15:40 - 15:55

ISHR-SEA Annual General Meeting

Roger Foo (Former President, ISHR-SEA section)

Patrick Hsieh (President ISHR-SEA)

Derek Hausenloy (Secretary ISHR-SEA)

Haojie Yu (Treasurer ISHR-SEA)

15:55 - 16:10

Tea Break and Poster Viewing

16:10 – 16:40

Keynote Lecture 2

Chair: Yin Hua Zhang (Seoul National University, South Korea)

Cereblon–TRPC1 Axis Drives ER Stress and Fibrosis in Diabetic
Cardiomyopathy through Calcium Signaling Dysfunction

Jin Han

Inje University College of Medicine South Korea

16:40 - 18:00

Scientific Session 3: Vascular Biology

Supported by  **JMCC**
JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY

Special Issue: Microvessel in the heart

Chairs: Wulan Anggrahini (Universitas Gadjah Mada, Indonesia), Roger Foo
(NUS Medicine, Singapore)

1. **Targeting Angiogenesis with Navitoclax: Insights from HUVECs toward Stabilizing Atherosclerotic Plaques**
Nur Najmi Mohamad Anuar (UKM, Malaysia)
2. **Phosphatidylserine as a Natural Approach to Address Atherosclerotic Plaque Formation**
Elisa Liehn (National Heart Centre Singapore)
3. **The Role of NALCN in Vascular Function and Hypertension**
Young Min Bae (Konkuk University, South Korea)

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4. Endothelial C-type Natriuretic Peptide / Guanylyl Cyclase-B Signaling in Pulmonary Vascular Remodeling

Koichiro Kuwahara (Shinshu University, Japan)

18:00 - 19:00

Moderated Poster Session (Judging session)

19:00 - 20:30

Gala Dinner

20:30 onwards

Informal ECI/MCI social gathering

Location: Petaling Street, Kuala Lumpur

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Scientific Schedule (Day 2)

WEDNESDAY | 29.04.2026 | 8:30AM-6:00 PM

08:30 – 09:00

Keynote Lecture 3

Chair: Yibin Wang (DUKE-NUS, Singapore)

Contribution of Insulin Resistance and Mitochondrial Dysfunction to Heart Failure in Diabetes

E. Dale Abel

William S. Adams Distinguished Professor
University of California, Los Angeles, USA

09:00 - 10:20

Scientific Session 4: Genetics in Cardiovascular Research

Chairs: Siti Hamimah Sheikh Abdul Kadir (UiTM, Malaysia), Mohd Kaisan Mahadi (UKM, Malaysia)

1. Genetic Landscapes of Cardiomyopathy in Malaysia

Kee Boon Pin (UM, Malaysia)

2. RNF20 Stabilizes Adult Cardiomyocyte Cell State to Prevent Pathological Dedifferentiation

Cheng-Fu Kao (Institute of Cellular and Organismic Biology, Academia Sinica, Taiwan)

3. Functional Genomics Analysis Identifies Pleiotropic Genes for Vascular Diseases

Ye Shu (National University of Singapore)

4. Semaphorin-Plexin-Neuropilin Signaling in Left Ventricular Non-compaction

Manvendra Singh (DUKE-NUS, Singapore)

10:20 – 10:40

Tea Break and Poster Viewing

10:40 – 12:00

ISHR-SEA Early Career Investigator Rapid Fire Session

Chairs: Mick Lee (ISHR-SEA ECI rep, Singapore), Yuan Yuan Cheng (ISHR-SEA ECI rep, Taiwan), Diem My Vu (ISHR-SEA ECI rep, Vietnam)

1. The IL-33/ST2 Axis Mediates Macrophage-Driven Inflammation in the Progression of HfpEF

Zhu Jinyun (Duke-NUS, Singapore)

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2. **Personalised Arterial-Wall-on-a-Chip Reveals Paracrine Crosstalk Between Diabetic Endothelial and Vascular Smooth Muscle Cells Driving Early Atherogenesis**
Chun-Yi Ng (Nanyang Technological University, Singapore)
3. **Intrinsic Cardiac Ketogenesis Maintains Mitochondrial Function**
Yi-Chan Lee (Institute of Biomedical Sciences, Taiwan)
4. **Sappanwood (*Caesalpinia sappan* L.) Attenuates Iron-Overload Induced Cardiac Ferroptosis in Animal Model**
Tanendri Arrizqiyani (Universitas Padjadjaran, Indonesia)
5. **Population-Based Analysis of Coronary Artery Disease-Associated SNPs in Malaysian Cohort Compared to ALFA Global Reference Populations**
Nusaibah Sullehuddin (UiTM, Malaysia)
6. **Differential Effects of Aldosterone Synthase Inhibition on Adrenal Zona Glomerulosa Remodeling and Cardiac Cellular Turnover in Spontaneously Hypertensive Rats**
Ammani Aminuddin (UKM, Malaysia)
7. **The Serine Synthesis Pathway Activation In Early Compensatory Cardiac Hypertrophy**
Nurul Gusti Khatimah (Universitas Indonesia)
8. **Prevalence of 22q11 Chromosome Deletion and Immunological Status of Vietnamese Patients with Tetralogy of Fallot**
Phuong Anh Huynh (University of Medicine and Pharmacy, Vietnam)
9. **Endothelial and Metabolic Dysfunction in Mongolian Patients with Chronic Coronary Artery Disease**
Anudari Ichinkhorloo (Institute of Medical Sciences of Mongolia, Mongolia)

12:00 – 13:00

Early-Career Open Communication Session

Chairs: Satirah Zainalabidin (UKM, Malaysia), Rahayu Zulkapli (UiTM, Malaysia)

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1. **Bats as Novel Models to Uncover Cardiometabolic Adaptation and Resilience**
Yu Fan (DUKE-NUS, Singapore)
2. **SGLT2 Inhibitor: A Novel Cardioprotective Intervention Against Post-Myocardial Infarction in Rats Through Suppression of Myocardial Apoptosis and Mitochondrial Dysfunction**
Chayadom Maneechote (Chiang Mai University, Thailand)
3. **Inhibition of Pyroptosis and Apoptosis, but not Ferroptosis, Reduces Cardiac Dysfunction in Prediabetic Rats via Attenuating Mitochondrial Dysfunction, Independent of Metabolic Alterations**
Nattayaporn Apaijai (Chiang Mai University, Thailand)
4. **Regulatory and Pathogenic Mechanisms in Aortic Valve Disease**
Yen-Chun Ho (IBMS, Academia Sinica, Taiwan)
5. **Targeting Branched-chain Amino Acid Dysregulation to Restore Cardiomyocyte Function in a Human Cellular Model of Diabetic Heart Failure**
Shuo Cong (DUKE-NUS, Singapore)
6. **Therapeutic Potential of PDE5 Inhibition in Cardiac Hypertrophy via Akt Signalling**
Nik Aloesnisa Binti Nik Mohd Alwi (USM, Malaysia)

13:00 - 13:10 **Industrial Talk @Ebony** by Premier Integrated Lab

13:10 - 14:00 **Lunch Talk @Oak**
Lunch & Poster Viewing

14:00 - 15:20 **Scientific Session 5: Regenerative Medicine**
Chairs: Derek Hausenloy (NHCS, Singapore), Muhammad Da'in Yazid (UKM, Malaysia)

1. **Biomaterials as Platforms for Secretome Therapies in Ischaemic Disease**
David Lundy (Taipei Medical University, Taiwan)
2. **Immune-Cardiac Crosstalk via Nfic Regulates Cardiomyocytes Regeneration**
Ben Lai (IBMS, Academia Sinica, Taiwan)
3. **Artificial Pacemaker Cell Engineering**
Yu-Feng Hu (Taipei Veteran General Hospital, Taiwan)

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	<p>4. Direct Cardiac Reprogramming as a Novel Strategy for Heart Failure Treatment Taketaro Sadahiro (Keio University, Japan)</p>
15:20 - 15:40	Tea Break and Poster Viewing
15:40 - 17:00	<p>Scientific Session 6: Cardiometabolic Syndrome</p> <p>Supported by  JMCC JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY</p> <p>Special Issue JMCC : The Diabetic Heart: Mechanistic Insights Underlying its Phenotype, and Emerging Therapeutic Targets to Limit Diabetic Cardiomyopathy Chairs: Patrick Hsieh (Institute of Biomedical Sciences, Taiwan), Yibin Wang (Duke-NUS, Singapore)</p> <ol style="list-style-type: none">1. Acetyl-CoA Synthetase 2 Buffers Cytosolic Acetyl-CoA to Sustain Mitochondrial Function in Stressed Myocardium Shunsuke Miura (Fukushima Medical University, Japan)2. Ca²⁺ Homeostasis in Pancreatic Beta-cells and Adipocytes Dae-Kyu Song (Keimyung University College of Medicine, South Korea)3. Targeting Age-related Mechanisms in Cardiovascular-metabolic Disorders Ippei Shimizu (National Cerebral and Cardiovascular Center, Japan)4. Senotherapy as a Novel Strategy for Metabolic Disorders So-Young Park (Yeungnam University College of Medicine, South Korea)
17:00 - 18:00	<p>Closing and Prize Giving Ceremony</p> <p>Announcement of the Next Coming 3rd Annual Meeting of ISHR-SEA</p>