



**3<sup>rd</sup> International Symposium**  
**NEW FRONTIERS in**  
**CARDIOVASCULAR**  
**RESEARCH**

**8-9 March 2016**

**8:00 AM to 7:00 PM**

**Lecture Theatre, Level 7**

**National Heart Centre Singapore**

**5 Hospital Drive, Singapore, 169609**

Organizing Committee:

Derek J. Hausenloy (Singapore-UK)

Hector A. Cabrera-Fuentes (Singapore-Germany)

Sang-Bing Ong (Singapore)

Manvendra K. Singh (Singapore)

Klaus T. Preissner (Germany)

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3rd International Symposium  
New Frontiers in Cardiovascular Research  
7-9 March 2016

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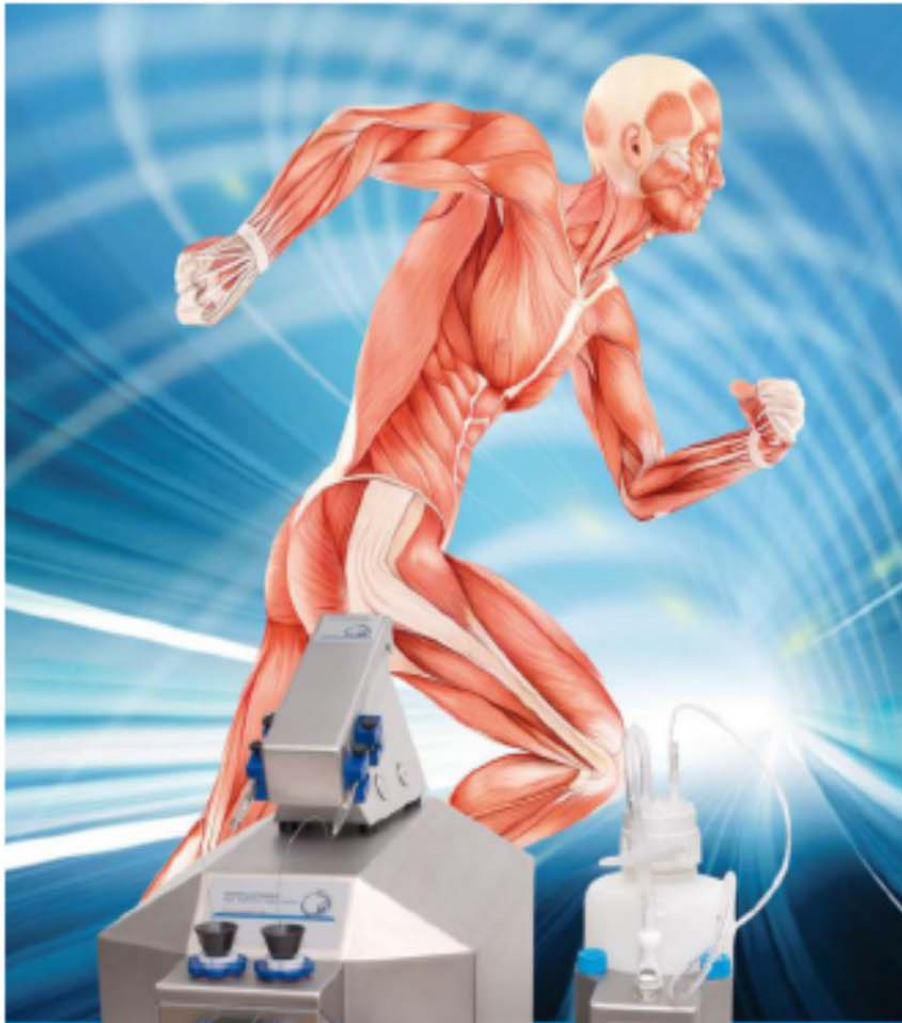
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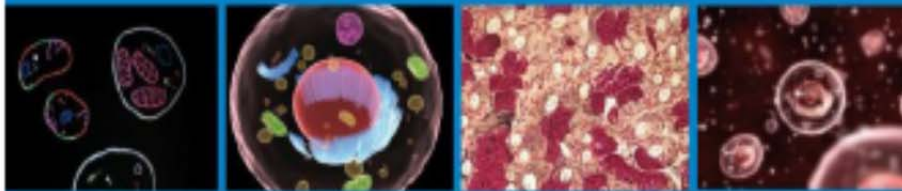


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# SCIENTIFIC PROGRAM

Monday, March 7, 2016

19:00 *Pre-meeting dinner reception for invited Faculty*

Tuesday, March 8, 2016

08:00 *Registration at NHCS Atrium Level 8, Lecture Theatre*

08:30 *Welcome Address*

**Terrance Chua** - Medical Director of National Heart Centre Singapore (NHCS)

**Stuart Cook** - Director of National Heart Centre Institute of Singapore  
Director, Program in Cardiovascular & Metabolic Disorders, Duke-NUS, Singapore

*Welcome and Introduction*

**Derek J. Hausenloy (Singapore-UK) and Klaus T. Preissner (Germany)**

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<b>Session 1</b>	<b>Protecting Your Heart – Basic</b>	<b>08:45 – 10:45</b>
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**Chair:** **Derek Yellon (London, UK), Stuart Cook (Duke-NUS, Singapore)**

**Gerd Heusch (Essen, Germany)**

Remote ischemic preconditioning and its signal transduction

**Peter Ferdinandy (Budapest, Hungary)**

Co-morbidities and cardio-protection

**Sandrine Lecour (Capetown, South Africa)**

HDL therapy for cardio-protection: quality versus quantity

**David Garcia-Dorado (Barcelona, Spain)**

Combined therapies against myocardial reperfusion injury in STEMI

**Robert Bell (London, UK)**

Matrix-metallo-proteinases and cardio-protection

**Breakfast**

**10:45 – 11:30**

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<b>Session 2</b>	<b>Protecting Your Heart – Clinical</b>	<b>11:30 – 13:30</b>
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**Chair:** **Mark Richards (NUS, Singapore), Carl-Wilhelm Vogel (Hawaii, USA)**

**Hans Bøtker (Aarhus, Denmark)**

Remote ischemic conditioning : from laboratory bench to hospital bedside

**Andreas Boening (Giessen, Germany)**

Remote ischemic conditioning in cardiac surgery

**Saadeh Suleiman (Bristol, UK)**

The use of Propofol cardioplegia in coronary and valve surgery

**Michael Marber (London, UK)**

Myosin C as a novel cardiac biomarker

**Alan Fong (Sarawak, Malaysia)**

Acute coronary syndrome: a Malaysian perspective

*Lunch at NHCS Atrium Level 8, Lecture Theatre*

**13:30 – 14:30**

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**Session 3**

**Cardiovascular Scheherazade**

**14:30 – 16:30**

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**Chair: Wei He Ming (NHCS, Singapore), Jean-Paul Kovalik (Duke-NUS, Singapore)**

**Winston Shim (NHCS, Singapore)**

Induced pluripotent stem cells in cardiac arrhythmias

**Karl Thyggson (Duke-NUS, Singapore)**

Xeno-free laminin-based protocol for generating clinical quality cardiomyocytes from hES cells

**Manvendra Singh (Duke-NUS, Singapore)**

Role for the HIPPO pathway in cardiac development and disease

**Carolyn Lam (Duke-NUS, Singapore)**

New therapies for heart failure with preserved ejection fraction

**Malcolm Walker (London, UK)**

Thalassaemia and cardiac disease

*Coffee break*

**16:30 – 17:00**

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**Session 4**

**Inside – Outside Vessels**

**17:00 – 19:00**

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**Chair: Ye Lei (NHCS, Singapore), Mark Chan (NUS, Singapore)**

**Jürgen Bernhagen (Aachen, Germany)**

Exacerbation of atherosclerosis versus cardio-protection by MIF family proteins: Mechanisms, contradictions and clinical evidence

**Bernd Engelmann (Munich, Germany)**

Microvascular thrombosis: pathological relevance in vascular disease

**Daniel Sedding (Hannover, Germany)**

Impact of STAT-3 on vascular disease

**Felix B. Engel (Erlangen, Germany)**

Nephronectin: a new regulator of angiogenesis

**David Silver (Duke-NUS, Singapore)**

The MFSD2A transporter and the blood brain barrier

**19:00 Concluding remarks (day 1)**

19:00

*Wine and cheese reception at NHCS Atrium Level 8, Lecture Theatre*

**Wednesday, March 9, 2016**

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**Session 5** **In Flames we Trust** **08:30 – 10:30**

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**Chair: William A. Boisvert (Hawaii, USA), Klaus T. Preissner (Giessen, Germany)**

**Elisa Liehn (Aachen, Germany)**

Inflammatory reactions in myocardial infarction

**Karlheinz Peter (Melbourne, Australia)**

HMGB1 in platelet activation

**Julian Aragonés (Madrid, Spain)**

Novel hypoxia-inducing factor (HIF)-oxygen-sensing pathways in heart biology and obesity

**Dominique de Kleijn (NUS, Singapore)**

Toll-like receptors in myocardial inflammation during reperfusion injury and adverse remodeling

**Shinya Minatoguchi (Gifu, Japan)**

Cardiac damage via stimulation of cardiac (pro) renin receptors

**Breakfast**

**10:30 - 11:15**

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**Session 6** **C-OMICS in Cardiovascular Medicine** **11:15 – 13:15**

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**Chair: Sun Lei (Duke-NUS, Singapore), Sujoy Ghosh (Duke-NUS, Singapore)**

**Manuel Mayr (London, UK)**

Postgenomics technologies for cardiovascular biomarker discovery

**Fulvia Ferrazzi (Erlangen, Germany)**

Genomics data analysis and modeling to elucidate transcriptional networks

**Ingrid Fleming (Frankfurt, Germany)**

The diabetic platelet: From proteome to protection

**Roger Foo (NUS, Singapore)**

Single cell transcriptomics

**Enrico Petretto (Duke-NUS, Singapore)**

Genetics and cardiac disease

**Erich Gnaiger (Austria)**

TBC

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Session 7

Mitochondria and Cardiovascular Disease

14:15 – 16:15

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**Chair:** David Garcia-Dorado (Barcelona, Spain), Sang Bing Ong (Duke-NUS, Singapore)

**Fabio Di Lisa (Padova, Italy)**

Role of the mitochondrial calcium uniporter in myocardial ischemia/reperfusion injury

**Marisol Ruiz-Mena (Barcelona, Spain)**

Alterations of mitochondrial function during ischemia/reperfusion in the aged heart

**Tetsuji Miura (Sapporo, Japan)**

Mechanisms of infarct size enlargement in chronic renal failure

**Paul Yen (Duke-NUS, Singapore)**

Hormonal control of lipophagy and mitophagy

**Rainer Schulz (Giessen, Germany)**

Mitochondrial connexin43 and cardio-protection

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**16:15** *Concluding remarks*

**Thomas Coffman** - Dean, Duke-NUS Graduate Medical School, Singapore

**Patrick Casey** - Senior Vice Dean Research, Duke-NUS Graduate Medical School, Singapore

**16:30** **End of Scientific Meeting**

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**20:00** *Post-meeting dinner for invited Faculty*

