

CARDIOVASCULAR RESEARCH INSTITUTE NUHC-MBI MINI SYMPOSIUM

(GMT+08:00)

October 23, 2020 | 1pm Singapore

MORE INFO: mbi.nus.edu.sg/event/nuhc-mbi-symposium

Chester Lee Drum

An ultrastable, novel nanoparticle for easy encapsulation and bioproduction

Rongrong Zhao

Vascular protection by targeting the chondroitin sulfate pathway

Jiang Jianming

Dissection of dilated cardiomyopathy using animal models developed by adeno-associated virus

Song Tuck Wah

Role of RNA editing of Filamin A and oxygen-sensing in Cav1.2 calcium channel-mediated muscle contraction

Matthew Ackers-Johnson

Primary engineered heart tissue for cardiac disease models

Roshni Singraja

Human genetic identification of cardiovascular targets

Low Boon Chuan

Getting to the heart of the problem – a twist from a signalling scaffold

Rong Li

Polycystic kidney disease: what does it have in common with myocardial hypertrophy?

Chwee Teck Lim

Microfluidic technologies for mechano-cardiovascular research

Jennifer Young

Cardiac mechanobiology as a function of ECM stiffness and nanoscale ligand spacing

Timothy Saunders

The role of cell and tissue mechanics in the earliest stages of heart formation

Alexander D. Bershadsky

Microtubules are cellular sensory elements mediating crosstalk between integrin adhesions and the actomyosin cytoskeleton

PROGRAMME

13:00 - 13:05 Address by Prof. Rong Li

13:05 - 13:10 Address by Prof. Roger Foo

13:10 - 13:25 Asst. Prof. Chester Lee Drum: An ultrastable, novel nanoparticle for easy encapsulation and bioproduction

13:25 - 13:40 Prof. Low Boon Chuan: Getting to the heart of the problem – a twist from a signalling scaffold

13:40 - 13:55 Prof. Song Tuck Wah: Role of RNA editing of Filamin A and oxygen-sensing in Cav1.2 calcium channel-mediated muscle contraction

13:55 - 14:10 Prof. Alexander D. Bershadsky: Microtubules are cellular sensory elements mediating crosstalk between integrin adhesions and the actomyosin cytoskeleton

14:10 - 14:25 Asst. Prof. Jiang Jianming: Dissection of dilated cardiomyopathy using animal models developed by adeno-associated virus

14:25 - 14:40 A/Prof. Tim Saunders: The role of cell and tissue mechanics in the earliest stages of heart formation

14:40 - 15:00 Break

15:00 - 15:15 Asst. Prof. Roshni Singraja: Human genetic identification of cardiovascular targets

15:15 - 15:30 Dr. Jennifer Young: Cardiac mechanobiology as a function of ECM stiffness and nanoscale ligand spacing

15:30 - 15:45 Asst. Prof. Rongrong Zhao: Vascular protection by targeting the chondroitin sulfate pathway

15:45 - 16:00 Prof. C.T. Lim: Microfluidic technologies for mechano-cardiovascular research

16:00 - 16:15 Asst. Prof. Matthew Ackers-Johnson: Primary engineered heart tissue for cardiac disease models

16:15 - 16:30 Prof. Rong Li: Polycystic kidney disease: what does it have in common with myocardial hypertrophy?

16:30 - 16:50 Break

16:50 - 17:30 Round table

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