

**2023 Duke – DukeNUS Joint Retreat @ DMPI, Duke University, Durham USA
Scientific Program**

April 27 Thursday

Time	Speaker	Title of Talk
0800-0830	Registration and morning Coffee	
0830-0845	Opening Remarks by Sandy Williams	
Session One : Cardiovascular Disease (Chaired by Wang Yibin)		
0845-0905	Chris Holley (CVRC)	SnoRNAs, Atherosclerosis, and Mitochondrial Metabolism
0905-0925	Sudar Rajagopal	Location-biased GPCR signaling regulates inflammation: implications for cardiovascular disease
0925-0945	Derek Hausenloy (DukeNUS)	Modelling heart failure using iPSC-cardiomyocytes to discover new treatment targets
0945-1005	Paul Rosenberg (CVRC)	TBD
1005-1015	Liu Yunxia (Duke-NUS)	BCAA: A common nutrient with an uncommon role in cardiometabolic health.
1015-1050	Coffee break	
Session Two : Metabolic Syndrome I (Chaired by Chris Newgard)		
1050-1110	Jens Titze (DukeNUS)	Rethinking body fluid and blood pressure homeostasis
1110-1130	Rana Gupta (DMPI)	Stromal cells as Double Agents of Adipose Tissue Health and Disease
1130-1220	Keynote Talk (Chair : Wang Yibin) Stuart Cook	Therapeutic targeting a novel inflammaging factor to prevent and reverse multi-morbidity in old age
1220-1330	Lunch	
1330-1530	Poster Session	
Session Three : Metabolic Syndrome II (Chaired by Manesh Patel)		
1530-1550	Opeyemi Olabisi (DMPI)	Elucidating the impact of Apolipoprotein L1 variants on cellular metabolism

1550-1610	Phil White (DMPI)	Retro-translation of molecular profiles associated with NASH resistance in humans
1610-1630	Jacques Behmoaras (CMVD)	Targeting white adipose tissue macrophages during obesity and ageing
1630-1650	Jon Campbell (DMPI)	Glucagon, the enigmatic hormone
1650-1700	Zhou Jin (Duke-NUS)	Spermidine-mediated hypusination of translation factor EIF5A improves mitochondrial fatty acid oxidation and prevents NASH progression
1700-1800	Research Grand Challenges Breakout sessions	
1800-2000	Dinner @ DMPI	All are welcome

April 28 Friday

Time	Speaker	Speaker
0830-0900	Breakfast Coffee	
Session Four : Molecular Mechanisms (chaired by Lena Ho)		
0900-0920	Enrico Petretto	WWP2 and regulation of multi organ fibrosis
0920-0940	James White (DMPI)	Young blood turns back the biological clock across multiple tissues
0940-1000	Kim Huffman (DMPI)	Cardiometabolic risk in rheumatoid arthritis
1000-1010	Nah Jiemin (Duke-NUS)	Control of Mitochondrial Translation by One-Carbon Metabolism
1010-1040	Coffee break	

Session Five : GPCRs and Signaling mechanisms in CVM disorders (chaired by Howard Rockman)

1100-1150	Keynote Talk #2 : Robert J. Lefkowitz (Chair : Howard Rockman)	<i>GPCRs and ACRs (Arrestin coupled receptors): a tale of two transducers</i>
1150-1210	Sudha Shenoy (CVRC)	Biasing GPCR signaling by ubiquitination
1210-1220	Alyssa Grogan (CVRC)	A novel allosteric modulator of the β 1AR identified by DNA-encoded small molecule library screening demonstrates unique pharmacology and function
1220-1330	Lunch Break	
1330-1430	Grand Challenges Discussion	

Session Six : Clinical and translational studies (Chaired by Deb Muoio)

1430-1450	Dee Gunn (CVRC)	Chagas Disease Diagnostics: Ongoing Problems and Potential Solutions
1450-1510	Wang Xiaomeng (DukeNUS)	Strategies to improve the management of ocular angiogenic diseases
1510-1530	Senthil Selvaraj (CVRC/DMPI)	Therapeutic ketosis for the failing heart: hope or hype?
1530-1550	Karl Trygvaasson	The Matrix Matters - Laminins Direct Cell Differentiation and Maintain Cellular Identity
1545-1600	Coffee Break	

Session Seven : Saving the Best for Last (chaired by Matt Hirschey)

1600-1610	Russell Eriksen (DMPI)	Identifying novel metabolite-pathway relationships in Hepatocellular Carcinoma via multi-omics
1610-1620	Ashley Williams (DMPI)	Exercising the Liver: Hepatic Adaptations to Intermittent Time-restricted Feeding
1620-1640	Teo Wei Wen (Duke-NUS)	Nutrient control of mRNA translation in primary adipocytes
1640-1700	Concluding Remarks	Victor Dzau
1800-2100	Dinner Banquet @ Mateo	Invited Guests