



# New Advances in Metabolism Research Symposium

20-21 April 2016, Amphitheatre, Level 2,  
Duke-NUS Medical School, Singapore  
8:00 AM to 7:00 PM

Day 1 - Program - 20 April 2016, Wednesday	
07:30-07:50	Arrival and Registration
07:50-08:00	<b>Welcome Address</b> Professor Stuart Cook – Programme Director, Programme of Cardiovascular and Metabolic Disorders, Duke-NUS Medical School Singapore
08:00-08:10	<b>Opening Remarks</b> Professor Paul M. Yen - Programme of Cardiovascular and Metabolic Disorders, Duke-NUS Medical School Singapore
8:10-8:40	<b>Opening Lecture</b> Professor David Cohen - Harvard Medical School <b><i>Acyl-CoA thioesterase-mediated control of thermogenesis</i></b>
Session 1 of 4	<b><i>Novel signaling pathways in cardiovascular and metabolic diseases</i></b> Chairman: Professor Yan Chen, Co-Chairman: Professor Shen Han Ming
08:40-09:00	<b><i>Golgi apparatus in metabolic control and cancer development</i></b> Professor Yan Chen – Laboratory of Signal Transduction and Nutrition-related Diseases, Shanghai Institute of Nutritional Sciences
09:00-09:20	<b><i>The vagus in gut-brain mediated appetite regulation</i></b> Professor Amanda Page - Group Leader: University of Adelaide Gastrointestinal Vagal Afferent Research Group, South Australian Health and Medical Research Institute (SAHMRI)
09:20-09:40	<b><i>Prostaglandin D2 and healing after myocardial infarction</i></b> Professor Ying Yu - Laboratory of membrane phospholipid metabolism and cardiovascular diseases, Shanghai Institute of Nutritional Sciences

09:40-10:00	<b><i>Systems genetics analysis of genome-wide association study reveals novel associations between key biological processes and coronary artery disease</i></b> Associate Professor Sujoy Ghosh - Programme of Cardiovascular and Metabolic Disorders, Duke-NUS Medical School Singapore
10:00-10:20	Q & A on Session 1
10:20-10:40	<b><i>Coffee Break</i></b>
<b>Session 2 of 4:</b>	<b><i>Cell signaling and insulin resistance</i></b> Chairman: Professor Christopher Proud, Co-Chairman: Dr Brijesh Singh
10:40-11:00	<b><i>Fibroblast growth factor 21 improves hepatic insulin sensitivity and controls glucose homeostasis</i></b> Professor Yu Li - Laboratory of Signal Transduction and Metabolism, Shanghai Institute of Nutritional Sciences
11:00-11:20	<b><i>Novel roles for the MNK kinases in metabolic disease</i></b> Professor Christopher Proud - Nutrition and Metabolism Theme Leader, South Australian Health and Medical Research Institute (SAHMRI)
11:20-11:40	<b><i>Aging and insulin resistance: the role of SIRT1 and amyloid-β</i></b> Professor Qiwei Zhai - Laboratory of Nutrition & Chronic Metabolic Diseases, Shanghai Institute of Nutritional Sciences
11:40-12:00	Q & A on Session 2
12:00-13:30	<b><i>Lunch Break (Level 2, Duke-NUS - Atrium)</i></b>
<b>Session 3 of 4:</b>	<b><i>NAFLD and lipid metabolism</i></b> Chairman: Professor Paul M. Yen, Co-Chairman: Professor Feifan Guo
13:30-13:50	<b><i>LXR as a potential target for lipotoxicity and NASH</i></b> Assistant Professor Rohit Sinha - Programme of Cardiovascular and Metabolic Disorders, Duke-NUS Medical School Singapore
13:50-14:10	<b><i>A role of non-essential amino acid, lipid metabolism</i></b> Professor Feifan Guo - Laboratory of genetic and nutritional regulation of metabolic Diseases, Shanghai Institute of Nutritional Sciences
14:10-14:30	<b><i>An MR/ER/HGF/MET axis conveys signaling from macrophages to hepatocytes in hepatic steatosis and insulin resistance</i></b> Professor Shengzhong Duan - Laboratory of Nuclear Receptors in Metabolism and Diseases, Shanghai Institute of Nutritional Sciences
14:30-14:50	<b><i>Endocrine and nutritional regulation of autophagy as a potential therapy for NAFLD</i></b> Professor Paul M. Yen- Programme of Cardiovascular and Metabolic Disorders, Duke-NUS Medical School Singapore
14:50-15:10	Q & A on Session 3

15:10-15:40	<b>Coffee Break</b>
<b>Session 4 of 4:</b>	<b>Adipose tissue and metabolism</b> Chairman: Professor David Silver, Co-Chairman: A/Prof Jean Paul Kovalik
15:40-16:00	<b>Translational metabolic imaging</b> Associate Professor Velan Sambasivam Sendhil - Head of Magnetic Resonance Spectroscopy and Metabolic Imaging group, Singapore Bioimaging Consortium (SBIC)
16:00-16:20	<b>Mitochondrial signalling in adipocytes</b> Assistant Professor Jean Paul Kovalik - Programme of Cardiovascular and Metabolic Disorders, Duke-NUS Medical School Singapore
16:20-16:40	<b>Role lincRNAs in fat browning</b> Assistant Professor Sun Lei - Programme of Cardiovascular and Metabolic Disorders, Duke-NUS Medical School Singapore
16:40-17:00	<b>Molecular signatures of adipose-derived stem cells: potential for metabolic reprogramming</b> Assistant Professor Shigeki Sugii - Group Leader, Fat Metabolism and Stem Cell Group Singapore Bioimaging Consortium (SBIC)
17:00-17:20	Q & A on Session 4
17:20-18:30	<b>Wine and Cheese Session for Participants and Guests</b>
18:30-21:30	<b>Dinner by invitation</b>

*“Photography/videography may be taken during the event for publicity purposes.”*

<b>Day 2 - Program – 21 April 2016, Thursday</b>	
<i>Session 1 of 2:</i>	<b>Diabetes prevalence and risk</b> Chairman: A/Professor Tai E Shyong, Co-Chairman: Professor Koh Woon Puay
08:30-08:50	<b>Minimally invasive methods to measure and monitor metabolic health</b> Dr Nathan O’Callaghan - Group Leader: Diet, Lifestyle & Health Substantiation – CSIRO, Nutrition & Health
08:50-09:10	<b>Insulin resistance in Asian ethnic groups</b> Associate Professor Tai E Shyong - Head & Senior Consultant, Division of Endocrinology, National University Hospital (NUHS)
09:10-09:30	<b>Obesity and the role of testosterone in type 2 diabetes in men – The T4DM study</b> Professor Gary Wittert – Head, University of Adelaide Centre for Nutrition and Gastrointestinal Diseases, South Australian Health and Medical Research Institute (SAHMRI)
09:30-09:40	Q & A on Session 1
09:40-10:10	<b>Coffee Break</b>
<i>Session 2 of 2:</i>	<b>Nutritional and therapeutic approaches to obesity and diabetes</b> Chairman Professor Manny Noakes, Co-Chairman: A/Prof Sue-Anne Toh
10:10-10:30	<b>Novel approaches to improve metabolic health outcomes in obesity</b> Associate Professor Leonie Heilbronn - Group Leader: University of Adelaide Obesity and Molecular Metabolism Group, South Australian Health and Medical Research Institute (SAHMRI)
10:30-10:50	<b>Biobank and registry for stratification and targeted interventions in spectrum of Type 2 diabetes (Brite-SPOT)</b> Assistant Professor Sue-Anne Toh Ee Shioh - Senior Consultant, Division of Endocrinology, National University Hospital (NUHS)
10:50-11:10	<b>Higher protein diets for metabolic health</b> Professor Manny Noakes - Research Director, CSIRO Food and Nutrition Flagship
11:10-11:30	<b>The role of very low carbohydrate diet for type 2 diabetes management: a long-term randomised trial</b> Associate Professor Grant Brinkworth – Principal Research Scientist, CSIRO Nutrition & Health
11:30-11:50	Q &A on Session 2
11:50-12:10	<b>Closing Remarks-Chan Yan, Christopher Proud, Paul M. Yen</b>
12:10-13:30	<b>Lunch</b>
13:30-15:00	<b>Poster Presentations</b>
15:00-17:00	<b>Breakout Sessions (Level 2 Cafeteria area next to Amphitheatre)</b>

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