

## 26<sup>th</sup> Medical Research Conference

**January 16, 2021 (Saturday)**

<b>TIME</b>	<b>ACTIVITY</b>
<b>09:00 – 09:20</b>	<b>Registration</b>
<b>09:20 – 09:30</b>	<b>Opening Remarks by Prof Chak-Sing Lau, Head, Department of Medicine</b>
<b>09:30 – 09:40</b>	<b>Speech by Prof Wai-Kay Seto, Chairman of 26<sup>th</sup> MRC</b>
<b>09:40 – 09:55</b>	<b>New Developments at CPOS for Medical Research</b> <b>Chairman: Prof Wai-Kay Seto</b> <i>Dr Agnes Chan, Centre Manager, Centre for PanorOmic Sciences, HKU</i>
<b>09:55 – 10:10</b>	<b>Current Developments and Future Directions in Advancing Comparative Medicine Research</b> <b>Chairman: Prof Wai-Kay Seto</b> <i>Dr Dewi Rowlands, Head, Centre for Comparative Medicine Research, HKU</i>
<b>10:10 – 11:30</b>	<b>Sequencing Techniques and Advances</b> <b>Chairmen: Prof Eric Tse &amp; Dr James Ho</b> 1. <b>Advanced sequencing and analysis for studying viral infection and transmission</b> - <i>Dr Tommy Lam, Assistant Professor, School of Public Health, HKU</i> 2. <b>Next Generation Sequencing – Diagnosing undiagnosed diseases and beyond</b> - <i>Dr Brian Chung, Clinical Associate Professor, Department of Paediatrics and Adolescent Medicine, HKU</i> 3. <b>The application of high-throughput sequencing in clinical microbiology</b> - <i>Dr Gilman Siu, Associate Professor, Department of Health Technology and Informatics, PolyU</i> 4. <b>Gene sequencing in Haematological Malignancies – Advances and Clinical Applications</b> - <i>Dr Harry Gill, Clinical Assistant Professor, Department of Medicine, HKU</i>
<b>11:30 – 11:50</b>	<b>Break</b>
<b>11:50 – 12:50</b>	<b>Gut Microbiome</b> <b>Chairmen: Dr Michael Cheung &amp; Dr Loey Mak</b> 1. <b>Gut Microbiota in Metabolic Health and Disease</b> - <i>Prof Aimin Xu, Professor, Chair of Metabolic Medicine, Department of Medicine</i> 2. <b>Indispensable Exosome-Microbiome-Immunity alliance in health and diseases</b> - <i>Dr Hein Min Tun, Assistant Professor, School of Public Health, HKU</i> 3. <b>Metagenomic analysis of the gut microbiome</b> - <i>Dr Joshua Ho, Associate Professor, School of Biomedical Sciences, HKU</i>
<b>12:50 – 14:00</b>	<b>Luncheon</b>
	<b>e-Poster abstracts - Oral Session - 13:00 – 14:00</b>
	<b>Clinical Research</b>
	<b>Basic Science &amp; Translational Research</b>
	<b>Chairmen:</b> <b>Dr Gary Lau</b> <b>Dr Paul Lee</b>
	<b>Chairmen:</b> <b>Dr Danny Wong</b> <b>Dr Susan Yung</b>
<b>14:00 – 14:30</b>	<b>Plenary Session</b> <b>Chairman: Prof Anskar Leung</b> <b>Understanding Innate Immunity in Alzheimer's Disease – Insights for Development of Therapeutics</b> <i>Prof Nancy Ip, Vice-President for Research and Development, The Morningside Professor of Life Science and Director of the State Key Laboratory of Molecular Neuroscience, HKUST</i>
<b>14:30 – 15:30</b>	<b>Artificial Intelligence</b> <b>Chairmen: Dr Ho-Yin Chung &amp; Dr Desmond Yap</b> 1. <b>Online COVID-19 diagnosis with chest CT images: Lesion-attention deep neural networks</b> - <i>Prof Guosheng Yin, Patrick S C Poon Professor in Statistics and Actuarial Science and Head of Department, Department of Statistics &amp; Actuarial Science, HKU</i> 2. <b>Potential and challenges of developing AI models for medical imaging</b> - <i>Dr Keith Chiu, Clinical Assistant Professor, Department of Diagnostic Radiology, HKU</i> 3. <b>Medical image analysis using machine learning</b> - <i>Dr Kenneth Wong, Associate Professor, Department of Computer Science, HKU</i>
<b>15:30 – 16:10</b>	<b>Clinical Trial Design</b> <b>Chairmen: Dr Joanne Chiu &amp; Dr Judith Mak</b> 1. <b>Clinical Trial Designs</b> - <i>Dr Helen Zhi, Director, Biostatistics and Clinical Research Methodology Unit, School of Public Health, HKU</i> 2. <b>Cost-effectiveness analysis alongside clinical trials: why and how?</b> - <i>Dr Shirley Li, Assistant Professor, Department of Medicine, HKU</i>
<b>16:10 – 16:30</b>	<b>Break</b>
<b>16:30 – 17:10</b>	<b>Drug Delivery</b> <b>Chairmen: Dr Joanne Chiu &amp; Dr Judith Mak</b> 1. <b>Metalloid drugs as antimicrobial agents: from antimicrobial resistance (AMR) to anti SARS-Cov-2</b> - <i>Prof Hongzhe Sun, Chair Professor and Norman and Cecilia Yip Professor in Bioinorganic Chemistry, Department of Chemistry, HKU</i> 2. <b>Delivery of nucleic acids and other biopharmaceuticals using the pulmonary route</b> - <i>Dr Jenny Lam, Associate Head (Undergraduate Education) and Associate Professor, Department of Pharmacology and Pharmacy, HKU</i>

<p><b>17:10 – 18:00</b></p>	<p><b>Oral Session</b>  <b>Chairmen: Dr Philip Li &amp; Dr Jacqueline Yuen</b></p> <p><b><u>Basic Science &amp; Translational Research</u></b></p> <ol style="list-style-type: none"> <li>1. <b>Novel therapeutic effects and mechanisms of Polo-like kinase 4 inhibition in acute myeloid leukaemia</b> - <i>Mr Chee Chean Dang</i></li> <li>2. <b>Lactococcus lactis as a fecal biomarker predicting the development of non-alcoholic fatty liver disease: evidence from a human microbiota-associated rodent model</b> - <i>Ms Saisai Zhang</i></li> </ol> <p><b><u>Clinical Research</u></b></p> <ol style="list-style-type: none"> <li>1. <b>Thyroid Dysfunction in Relation to Immune Profile, Viral Load, Disease Status and Outcome in 191 Patients with COVID-19</b> - <i>Dr Tak Wai David Lui</i></li> <li>2. <b>Clinical outcomes in stable coronary artery disease treated with optimal medical therapy alone based on a novel index: computational pressure-flow dynamics derived fractional flow reserve</b> - <i>Ms Kwan Yu Li</i></li> </ol>
<p><b>18:00 – 18:05</b></p>	<p><b>Closing Remarks by Prof Wai-Kay Seto, Chairman of 26<sup>th</sup> MRC</b></p>