



19 November 2024, Tuesday - Day 1 Peridot 205 - 206 Peridot 201 - 203 Time/Location 0800 Onwards Registration Welcome Addresses APCMV Organising Chair, DT Tan Kai Sen, National University of Singapore, Singapore Asia Pacific Society of Medical Wicology (APSMV) President, Prof Justin Jang Hann Chu, Singapore Guest of Honour Prof Derrick Heng, Ministry of Health, Singapore 0830 - 0900 Chan Yow Cheong Memorial Lecture: Pandemic Preparedness Prof Peiris, Joseph Sriyal Malik, The University of Hong Kong, Hong Kong SAR 0900 - 1000 Moderated by: Prof Linfa Wang, Duke-NUS Medical School, Singapore Peridot 201 - 203 Symposium 2: Influenza and Other Respiratory Viruses 1 Moderated by: A/Prof Vincent Chow, National University of Singapore, Singapore Symposium 1: Emerging and Zoonotic Infections Moderated by: Prof Marco Vignuzzi, A*STAR Infectious Diseases Labs (A*STAR IDL), Singapore 1010 - 1120 Can We Develop A "Dream" Vaccine Against Coronaviruses? Prof Linfa Wang, Duke-NUS Medical School, Singapore Long COVID: Epidemiology, Pathogenesis and Treatment Prof David Lye Chien Boon, National Centre for Infectious Diseases, Singapore 1010 - 1040 Are Antigen-Specific Vaccines Sufficient to Prevent Future Pandemics? Dr Tan Chee Wah, National University of Singapore, Singapore 1040 - 1050 asonal Influenza Vaccination for Children: A Cost-Effectiveness Analysis of Cell-Based versus Egg-Based Influenza Vaccine in Taiwa Dr Chia-Yu Chi, National Health Research Institutes, Taiwan Genetic Dissection of Virus-Host Interactions in Bat Cells Dr Kam Leng Aw Yong, Duke-NUS Medical School, Singapore 1050 - 1100 Severe Fever with Thrombocytopenia Syndrome (SFTS) Virus Infection: A Life-threatening Infection in Asia, A Perspective from Japan Prof Takeshi Tanaka, Nagasaki University Hospital, Japan Enhanced Virulence and Pathogenicity of Influenza B/Victoria Virus by Combined Haemagglutinin Mutations in Mice Giselle GK Ng, Duke-NUS Medical School, Singapore 1100 - 1110 Effect of Variation in Fusion Protein of Predominant Respiratory Syncytial Virus Genotypes on Viral Replication, Pathogenicity, and Antibody Susceptibility Dr Jingjing Song, National University of Singapore, Singapore ERINHA's Contribution to Global Pandemic Preparedness and Response Research Dr Diana Stepanyan, ERINHA, Belgium 1110 - 1120 Coffee/Tea break, Exhibition & Posters viewing Temasek Foundation's Talk at Temasek Foundation Booth (1120 – 1135) 1120 - 1140 Symposium 3: Influenza and Other Respiratory Viruses 2 Moderated by: Dr Ooi Yaw Shin, Duke-NUS Medical School, Singapore Symposium 4: Viral Diagnostic Moderated by: Dr Mok Chee Keng, A*STAR Infectious Diseases Labs (A*STAR IDL), Singapore 1140 - 1250 Using AI/ML Approaches to Predict the Outcome of Infection in Ebola Virus and SARS-CoV-2 and Future Viral Evolution to Better Inform Medical Countermeasures Prof Julian A. Hiscox, University of Liverpool, United Kingdom Environmental Surveillance for Zoonotic Viruses in Live-bird Markets Prof Gavin James Smith, Duke-NUS Medical School, Singapore 1140 - 1210 Evaluation and Comparison of Three High Throughput Assays (Abbott Alinity M, Hologic Aptima CMV Quant and Roche Cobas) for Quantifying CMV DNA in Plasma Samples Jodie D'Costa, Victorian Infectious Diseases Reference Laboratory at the Peter Dohery Institute for Infection and Immunity, Australia Identification of Residues in MERS-CoV Spike Receptor Binding Domain Implicated in Viral Entry and Immune Evasion Rachael Dempsey, University of Liverpool, United Kingdom 1210 - 1220 The Utility of Non-Molecular Diagnostic Tests for Common Herpesviruses in the Clinical Setting, A Tertiary Hospital Lab's Perspective in Singapore Dr Wan Wei Yee, SingHealth, Singapore Human Parainfluenza Virus 3 Infection Elicits a Glycolytic Shift and Inflammatory Response in Human Nasal Epithelial Ciliated and 1220 - 1230 Goblet Cells Dr Alan Hsu, Duke-NUS Medical School, Singapore An Integrated Droplet Microfluidic Platform Capable of High-Throughput Functional Mab Screening Ajayanandan Yadunan, A*STAR Infectious Diseases Labs (A*STAR IDL), Singapore Epithelial Responses to H5N1 Influenza Infection in An Influenza Airway Infection Model Dr Tan Kai Sen, National University of Singapore, Singapore 1230 - 1240 High-Yield Novel Chimeric Seasonal Influenza Virus-Like Particles (VLPs) Induced Potent Immune Responses and Protected Mice from Lefthal Virus Challenges A T M Badruzzaman, National Heath Research Institutes (VIRR) and Mational Central University (NCU), Taiwan Structural and Functional Insights of Dengue Virus Non-Structural Protein 1 (NS1) in Disease Pathogenesis Chan Wing Ki Kitti, Duke-NUS Medical School, Singapore 1240 - 1250 Lunch, Exhibition & Posters viewing 1250 - 1415 Symposium 6: Transformative Technologies in Virus Research 1 Moderated by: Prof. Julian A. Hiscox, University of Liverpool, United Kingdom Symposium 5: Enteroviruses Moderated by: Prof Jen-Ren Wang, National Cheng Kung University, Taiwan 1415 - 1525 Potential Applications of Extracellular Vesicles as Anti-viral Agents and Carriers of Anti-viral Antisense Oligonucleotides Dr Le Thi Nguyet Minh, National University of Singapore, Singapore CMLD012723: A Novel Aglain Scaffold for Future Antiviral Development on Human Enteroviruses Dr Adrian Oo, Duke-NUS Medical School, Singapore 1415 - 1445 1445 - 1455 Unraveling the Dynamics of Dengue: Integrating Antibody Profiling and Machine Learning for Enhanced Diagnosis and Severity Enterovirus A71 and Coxsackievirus A16: Friend or Foe? Prof Yoke-Fun Chan, Universiti Malaya, Malaysia Prediction Dr Tzong-Shiann Ho, National Cheng Kung University, Taiwan 1455 - 1505 Understanding the Enhanced Immune Responses to High-Density Microarray Patch Vaccination through Spatial Transcriptomics and Antibody Repertoire Analysis A/Prof David Muller, University of Queensiand, Australia Multi-Omics Dissection Enterovirus-D68 Disease Pathogenesis for Identification of Novel Antiviral Therapeutics Miss Nida Kalam, Monash University Malaysia, Malaysia 1505 - 1515 mRNA Vaccine Expressing Virus-Like Particles of Enterovirus D68 Induces Potent Neutralising Antibodies and Protects Against Engineering Antiviral Immune-Like Systems for Autonomous Virus Detection and Inhibition in Mice Dr Yidan Wang, National University of Singapore, Singapore 1515 - 1525 Infection Yuta Kunishima, The Research Foundation for Microbial Diseases of Osaka University, Japan Coffee/Tea break, Exhibition & Posters viewing 1525 - 1600 Keynote 1: Emerging Infections Prof Zhengli Shi, Wuhan Institute of Virology, China 1600 - 1700 Moderated by: Prof Justin Jang Hann Chu, National University of Singapore, Singapore Peridot 201 - 203 APCMV Speakers' Appreciation Dinner (By Invite Only) 1815 - 1930

Peridot 204





20 November 2024, Wednesday - Day 2				
Time/Location	Peridot 201 - 203	Peridot 205 - 206		
0830 Onwards	Registration			
	Keynote 2: Virus Surveillance and Public Health Intervention Prof Leo Yee Sin, National Centre for Infectious Diseases, Singapore			
0900 - 1000	Moderated by: Prof Suresh Mahalingam, Griffith University, Australia			
1010 - 1120	Peridoi 201 - 203 Symposium 7: Innovations in Vaccine Research 1 Symposium 8: Viral Pathogenesis			
	Moderated by: Prof Zhang Linqi, Tsinghua University, China COVID-19 Vaccines: Timing, Protection and Off-target Effects	Moderated by: Prof Jason Mackenzie, University of Melbourne, Australia Role of Internal Ribosomal Entry Site-Driven Translation on Neurovirulence of Picornaviruses		
1010 - 1040	Prof Stephen Kert, University of Melbourne, Australia	Prof Shin-Ru Shih, Chang Gung University, Taiwan Overlying Particle Deposition Patterns onto Viral Receptor Distributions May Indicate Potential Spectrum of Clinical Disease Severity for		
1040 - 1050	Systems Vaccinology of the BNT162b2 mRNA Vaccination in Healthy and Type 1 Diabetes Teenagers A/Prof Ching-Fen Shen, National Cheng Kung University, Taiwan	Novel Airborne Respiratory Yirus Infections Dr Julian Wei-Tzee Tang, University Hospitals of Leicester NHS Trust, United Kingdom		
1050 - 1100	Flavivirus Genome Recoding is a Broad-Spectrum Vaccine Technology for Constructing Live Attenuated Vaccine Strains for Both the	Cross-Species Evolution of IFITM3 Antiviral Function Dr Aaron Irving, Zhejiang University School of Medicine, China		
1100 - 1110	Aedes and Culex Clade Mosquito-Borne Orthoflaviviruses Dr Wei-Xin Chin, National University of Singapore, Singapore	SARS-CoV-2 ORF3a and Exosomes Mediate Distal Organ Dysfunction in COVID-19 Dr Liang Qiming, Shanghai Jiao Tong University School of Medicine, China		
1110 - 1120	A Novel Self-Amplifying RNA Vaccine Vector based on Rubella Virus for RNA Vaccine Development against Infectious Diseases and Cancers Jing Miao, Naryang Technological University, Singapore	Mechanical Transmission of Dengue Virus by Aedes Aegypti May Influence Disease Transmission Dynamics Dr Chen Chun-Hong, National Health Research Institutes, Taiwan		
1120 - 1140	Coffee/Tea break, Exhibition & Posters viewing			
1140 - 1250	Symposium 9: Innovations in Vaccine Research 2 Moderated by: Prof Tan Chee Wah, National University of Singapore, Singapore	Symposium 10: Blood Borne Viruses Moderated by: Dr Chia Po Ying, National Center for Infectious Diseases, Singapore		
1140 - 1210	Human Antibody Response to SARS-CoV-1 and SARS-CoV-2: Implication for the Development of Next-Generation Antibody Drugs and Vaccines Prof Zhang Lindt, Trainghua University, China	Updates in HIV Prevention Prof Raja Iskandar Azwa, Universiti Malaya Medical Centre, Malaysia		
1210 - 1220	Effector Memory T Cells Induced After Prime/Boost Vaccination with Cytomegalovirus Vectors Against Conserved Influenza A Virus Antigens Protect Cynomolgus Macaques from Lethal, Aerosolised, Heterologous Challenge Dr Daniel Malouil, Oregon Health & Science University, United States	Activation of BMP Signaling is Essential for Efficient Hepatitis B Virus Replication and Leads to Association of Smad1/5 With Viral cccDNA Minichromosome in the Nucleus Prof Tan Yee Joo, National Muriestry of Singapore, Singapore		
1220 - 1230	Evaluation of Dengue Immunity of Subjects in Singapore 5 Years Post-Third Dose of Dengvaxia Vaccine Using FcVR-Expressing Cells A/Prof Helen Oh, Chang General Hospital, Singapore	PRMT3, A Novel Target for Anti-HiV-1 Infections A/Prof Yu Dan, Beijing Children's Hospital, China		
1230 - 1240	A Dendritic Cell-Targeting Approach to Deliver A Universal Influenza Vaccine Candidate to The Respiratory Mucosa Daryl Lee, National University of Singapore, Singapore	Anti-HIV/HBV Orug Discovery: Our Exploration and Progress Prof Peng Zhan, Shandong University, China		
1240 - 1250	Next-Generation Vaccines: Genome Recoded Zika virus Live Attenuated Vaccine Induces Sterilising Immunity and Maternal-Fetal Protection Aw Zhen Qin, National University of Singapore, Singapore	Occult Hepatitis C Infection: Evaluation of Risk to Transfusion Safety Prof Robert Flower, Australian Red Cross Lifebiood, Australia		
1250 - 1415	Aw Zien Cin, National University of Singapore, singapore Lunch break, Exhibition & Posters viewing			
1415 - 1525	Symposium 11: Prevention and Control of Viral Infections Moderated by: Prof Prasert Auewarakul, Mahidol University, Thailand	Symposium 12: Transformative Technologies in Virus Research 2 Moderated by: Dr Carolien Emma van de Sandt, The Peter Doherty Institute at the University of Melbourne, Australia		
1415 - 1445	Future-Proofing Pandemic Response: Bridging Scientific Gaps with Mucosal Vaccines and Lessons from a Live Attenuated COVID-19 Vaccine Prof Suresh Mahalingam, Griffith University, Australia	Defective Viral Genomes as RNA Vaccines and Therapeutics Prof Marco Vignuzzi, A*STAR Infectious Diseases Labs (A*STAR IDL), Singapore		
1445 - 1455	Filos Suberin Marianingani, Stiritti Oriversi siy, Ausuala Antiviral Activity of Anisono (Against Chikinganya Yirus Dr Youichi Suzuki, Osaka Medical and Pharmaceutical University, Japan	Using Epidemiological Findings to Efficiently Prevent and Control Epidemics of Major Viral Diseases in Taiwan: Implications for the Global Control of COVID-19 Dr Chwar Alcheur King, Institute of Epidemiology, Taiwan		
1455 - 1505	Investigation of The Cellular Interactome of the Nucleocapsid Protein of Human Coronaviruses to Identify Potential Therapeutic Targets Ms Bobbie-Anne Turner, University of Liverpool, United Kingdom	S2 Antibody Mapping Utilising a Deep Mutational Scanning Approach Dr Weikang Nicholas Lin, A*STAR Infectious Diseases Labs (A*STAR IDL), Singapore		
1505 - 1515	Unveiling the Robust Antiviral Action of MARVAS26 Against Picornaviruses Through Enteroviral VP1 and Sequestosome-1 Signaling Dr Thinesshwary Yogarajah, National University of Singapore, Singapore	Utilising Experimental Human Dengue Virus Infection Models to Advance Vaccine Development Prof Stephen Thomas, SUNY Upstate Medical University, United States		
1515-1525	Development of Novel ANTI-HBV Agents: Characterisation of the N-Hydroxypyridinediones (HPDs) as HBV RNASE H Inhibitors Prof Grigoris Zoldis, National and Kapodistrian University of Athens, Greece			
1525 - 1630	Coffee/Tea break, Exhibition & Posters viewing Temasek Foundation Pandemic Preparedness ASEAN Forum			
1630 - 1730	Keynote 3: Prevention and Control of Viral Infections Prof Kei Sato, The University of Tokyo, Japan Moderated by: Prof David Lye Chien Boon, National Centre for Infectious Diseases, Singapore Peridor 201 - 203			





21 November 2024, Thursday - Day 3					
Time/Location	Peridot 201 - 203		Peridot 205 - 206		
0830 Onwards	Registration				
0900 - 1000	Keynote 4: Pathogenesis and Immunology Prof Benhur Lee, Icahn School of Medicine at Mount Sinai, United States				
	Moderated by: Prof Stephen Kent, University of Melbourne, Australia Peridot 201 - 203				
1010 - 1120	Symposium 13: Pathogenesis and Immunology Moderated by: Prof Shin-Ru Shih, Chang Gung University, Taiwan	Symposium 14: Vector Borne Viruses 1 Moderated by: Prof Eng Eong Ooi, Duke-NUS Medical School, Singapore			
1010 - 1040	Dynamics of CD8+ T Cell Immunity to Circulating and Pandemic Viruses Dr Carolien Emma van de Sandt, The Peter Doherty institute at the University of Melbourne, Australia	Antiviral for Dengue and Other Viruses Prof Prasert Auewarakul, Mahidoi University, Thailand			
1040 - 1050	Antagonism of the cGAS-STING Mediated Antiviral Innate Immune Responses by SARS-CoV-2 Nsp15 Dr Hsin-Ping Chiu, Icahn School of Medicine at Mount Sinai, United States	Evolutionary Dynamics of Dengue Virus in Saudi Arabia and the Quest for Safe and Effective Vaccines Dr Muhammad Bashir Bello, King Abdullah International Medical Research Center (KAIMRC), Saudi Arabia			
1050 - 1100	Longitudinal Analysis of Virus-Specific Memory T Cells in the Nasal Mucosa Sabrina Ottolini, Duke NUS Medical School, Singapore				
1100 - 1110	Structural Basis of Blased T Cell Recognition of Immune-Dominant Epitope of SARS-CoV-2 Spike Protein Dr Priyanka Chaurasia, Monash University, Australia	Revealing the Intracellular Trafficking of Dengue Virus RNA Genome A/Prof Ping Yueh-Hsin, National Yang Ming Chiao Tung University, Taiwan			
1110 - 1120	Sexual Dimorphism Analysis Demonstrates Chemokine C–C Motif Ligand 2 Involvement in Enterovirus A71 Infection Pathogenesis Dr Huang Peng-Nien, Chang Gung University, Taiwan	Clinical Challenges in Dengue Dr Chia Po Ying, National Center for Infectious Diseases, Singapore			
1120 - 1140	Coffee/Tea break, Exhibition & Posters viewing Temasek Foundation's Talk at Temasek Foundation Booth (1120 – 1135)				
1140 - 1250	Symposium 15: Host Pathogen Interaction Moderated by: Dr Kai Sen Tan, National University of Singapore, Singapore		Symposium 16: Vector Borne Viruses 2 Moderated by: Prof Stephen Thomas, SUNY Upstate Medical University, United States		
1140 - 1210	Small Molecule-directed Protein Degradation As An Antiviral Strategy Prof Priscilla Li-ning Yang, Stanford University, United States	Dengue Pathogenesis - Beyond Antibody-dependent Enhancement Prof Eng Eong Ooi, Duke-NUS Medical School, Singapore			
1210 - 1220	Antiviral Effect of Probiotics including Lacticaselbacillus Paracasel Strain Shirota Dr Tetsuji Hori, Yakult Honsha Co., Ltd., Japan		Phase Interactome Analysis of Nucleocapsid Protein of Crimean-Congo Hemorrhagic Fever Virus and Human Proteins Dr Hirotaka Takahashi, Ehime University, Japan		
1220 - 1230			Genetic Analysis of Chikungunya Virus in Singapore in 2008-2024 Dr Grace Ngan, National Centre for Infectious Diseases, Singapore		
1230 - 1240	Investigating the Roles of Plasminogen in Enterovirus A71 Infection Prof Chang Chuan-Fa, National Cheng Kung University, Taiwan		Low-Density Lipoprotein Receptor (LDLR) is Key Receptor of Crimean Congo Hemorrhagic Fever Virus Prof Ali Mirazimi, SVA, Sweden		
1240 - 1250	Molecular Architecture of Coronavirus Double Membrane Vesicle Pore Complex Dr Ni Tao, The University of Hong Kong, Hong Kong SAR	Chikungunya Virus (CHIKV) Infection During Pregnancy and Transplacental Transmission of CHIKV-Specific Antibodies Miss Xinyi Anna Loo, A*STAR Infectious Diseases Labs (A*STAR IDL), Singapore			
1250 - 1415	Lunch break, Exhibition & Posters viewing Temasek Foundation's Talk at Temasek Foundation Booth (1330 – 1345)				
1415 - 1525	Symposium 17: Water and Food Borne Viruses Moderated by: Prof Veasna Duong, Institut Pasteur du Cambodge, Cambodia	Virolo	ogy Joint Satellite Symposium by the Taiwan Society of Virology and Vaccinology and National Cheng Kung University		
1415-1445	Norovirus: Translation, Termination and Transmission Prof Jason Mackenzie, University of Melbourne, Australia		Enterovirus Moderated by: Prof Shin-Ru Shih, Chang Gung University, Taiwan		
1445 - 1455	Advancing Enterovirus Surveillance in Singapore: Insights from Molecular Genotypic Characterisation Dr Daniel Lim, National Public Health Laboratory, Singapore	1415 - 1435	Disruption of Calcium Homeostasis as an Inhibitory Mechanism for Enterovirus D68 Replication Prof Jim-Tong Horng, Chang Gung University, Taiwan		
1455 - 1505	Investigating Human Circovirus (HcirV) Infection In Hong Kong Wu ShuSheng, The University of Hong Kong, Hong Kong SAR	1435 - 1455	Effect of Genetic Variations of Enterovirus A71 on Viral Properties and Pathogenesis Prof Jen-Ren Wang, National Cheng Kung University, Taiwan		
1505 - 1515	Uncommon G3P[10] Rotavirus Strains Detected in Paediatric Patients with Acute Gastroenteritis in Thailand Nutthawadee Jampanii, Chiangmai University, Thailand	1455 - 1515	Mechanistic Insight into WWOX-Mediated Suppression of Enterovirus Infection Prof Li-Jin Hsu, National Cheng Kung University, Taiwan		
1515 - 1525	A Novel Attenuated Enterovirus A71 Mutant with VP1-V238A, K244P Exhibits Reduced Efficiency of Cell Entry/Exit and Augmented Binding Affinity to Sulfated Glycans Dr Tao Meng, Temasek Lifesciences Laboratory, Singapore				
1525 - 1600	Coffee/Tea break, Exhibition & Posters viewing				
1600 - 1710	Symposium 18: Other Virus Infections of Medical Significance Moderated by: Dr Mookkan Prabakaran, Temasek Life Sciences Laboratory, Singapore	Virology Joint Satellite Symposium by the Taiwan Society of Virology and Vaccinology and National Cheng Kung University			
1600 - 1630	Detection of Emerging Pathogens in Wildlife in Cambodia Prof Veasna Duong, Institut Pasteur du Cambodge, Cambodia		Dengue Virus Moderated by: Prof Jen-Ren Wang, National Cheng Kung University, Taiwan		
1630 - 1640	SARS-CoV-2 and Ebola Virus Share Niemann-Pick C1 (NPC1) Prof Zheng Yong-Hui, University of Illinois Chicago, United States	1600 - 1620	The Critical Role of Integrin Linked Kinase in Innate Responses to Dengue Virus Infection Prof Chih-Peng Chang, National Cheng Kung University, Taiwan		
1640 - 1650	Hospitalisation Disease Burden of Varicella-Zoster Virus Infection in Post-Transplantation Pediatrics in China: The Imperative for Active Immunisation in Immunosuppressed Pediatric Populations Prof Ving Lu, China	1620 - 1640	Enhanced Pathogenicity and Transmissibility of Dengue Virus Strains Prof Guann-Yi Yu, National Health Research Institutes, Taiwan		
1650 - 1700	Sialoglycotope-Dependent Entry of Paramyxoviruses Analysed by Cell-Based Glycan Arrays Wu Xuesheng, Utrecht University, Netherlands	1640 - 1700	Uncovering Dengue Virus Host Factors: Paving the Way for Innovative Antiviral Strategies Prof Shim-Hong Shiao, National Taiwan University, Taiwan		
1700 - 1710	Adaptive Metagenomic Sequencing Workflow for Accurate Near-Complete Reconstruction of Novel Viral Genomes Dr Chayaporn Suphavilai, Genome Institute of Singapore, Singapore				
1710 - 1725	Awards & Closing Ceremony Peridot 201 - 203				

DISCLAIMER: The programme is subject to change. Accurate at time of publishing.