Mathematics of
Evolution-Phylogenetic Trees and Networks
Workshop 3: Evolution of viruses
(25–27 Sep 2023)



Venue

IMS Auditorium
Institute for Mathematical Sciences
3 Prince George's Park
Singapore 118402

ORGANIZING COMMITTEE

Co-Chairs

Daniel Huson University of Tübingen

Louxin Zhang National University of Singapore

Members

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> Simone Linz University of Auckland

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> Taoyang Wu University of East Angila

Workshop 3:

Evolution of viruses (25-27 Sep 2023)

Monday, 25 September 2023				
Time	Title	Speaker		
0845-0900	Registration			
0900-0910	Opening Remarks			
0910-0940	Estimating viral mutation rates in the post- genomic era	Mark M. Tanaka University of New South Wales, Australia		
0940-1010	Evolutionary dynamics and lineage designation of SARS-CoV-2 genomes	Jian Lu Peking University, China		
1010-1040	Coffee Break			
1040-1110	Exploring the antibiotic resistance potential of the virome in infant metagenome	Anupam Gautam University of Tübingen, Germany		
1110-1200	Keynote Drug Resistance Mutations in HIV	Olivier Gascuel ISYEB UMR7205– CNRS Muséum National d'Histoire Naturelle, France		
1200-1230	A network approach for studying HIV molecular epidemiology	Tsz Ho Kwan The Chinese University of Hong Kong, China		

Tuesday, 26 September 2023				
Time	Title	Speaker		
0845-0900	Registration			
0900-0930	Phylodynamics of SARS-CoV-2 in Hong Kong, 2020–2022	Vijaykrishna Dhanasekaran The University of Hong Kong, China		
0930-1000	Genomic epidemiology for estimation of serial intervals in COVID-19 transmission clusters	Jessica E Stockdale Simon Fraser University, Canada		
1000-1030	Group Photo & Coffee Break			
1030-1100	Synthetic control methods for infectious disease epidemiology: applications to Wolbachia interventions	Jue Tao Lim Nanyang Technological University, Singapore		

Tuesday, 26 September 2023				
Time	Title	Speaker		
1100-1150	Keynote Clinical research during the COVID-19 pandemic. What do we need to do better next time?	Barnaby Edward Young National Centre for Infectious Diseases, Singapore		
1150-1220	Levels of SARS-CoV-2 population exposure are considerably higher than suggested by seroprevalence	Siyu Chen Oxford University, UK		

Wednesday, 27 September 2023				
Time	Title	Speaker		
0845-0900	Registration			
0900-0930	Detection and surveillance for genomic variation of SARS-CoV-2	Aiping Wu Chinese Academy of Medical Sciences Peking Union Medical College & Suzhou Institute of Systems Medicine, China		
0930-1000	Phylogenetic Supertree of Virus	Jie Feng Lanzhou University, China		
1000-1030	The value of high coverage whole genome sequencing of SARS-CoV-2 in Denmark	Mark P. Khurana University of Copenhagen, Denmark		
1030-1100	Coffee Break			
1100-1130	Genomic characterization and epidemiology of P.1 and Delta SARS-CoV-2 Variants	Swapnil Mishra National University of Singapore, Singapore		
1130–1200	The origin tracing and tracking of emerging influenza A virus and SARS-CoV-2	Yifei Xu Shandong University, China		
1200-1230	Zika virus transmission dynamics and characterisation of naturally occurring mutations in a paediatric cohort during the 2016 Nicaragua epidemic	October M. Sessions National University of Singapore, Singapore		

This schedule is accurate as of 15 September 2023. It is subjected to changes