TENTATIVE AGENDA

The 12th Global Microbial Identifier Meeting
Nanyang Technological University, Singapore

Lecture Theatre 8, Block NS1, NS1-02-01, 50 Nanyang Avenue, 639798
http://maps.ntu.edu.sg/maps#q:LT8.

Day 1 – Wednesday 12th June 2019

Time	Topic	Speaker
08:00-09:00 Registration	
09:00-09:10	Welcome and opening remarks	Nanyang Technological University (NTU), SG
09:10-09:30	Political progress of the GMI idea at the international stage	Joergen Schlundt, NTU, SG
Singapore's Experience with Next Generation Sequencing (NGS)	
09:30-09:50	Use of NGS in one health research	Joergen Schlundt, NTU, SG
09:50-10:10	The air microbiome: A missing ecosystem?	Stephan Schuster, SCELSE, SG
10:10-10:30	Use of NGS in clinical microbiology, use of WGS in human, hospital gram -ve (especially CPE) infections	Oon Tek, Kalisvar Marimuthu, Tan Tock Sing Hospital, SG
10:30-11:00 Coffee break	
11:00-11:20	Tracking AMR evolution in *Acinetobacter spp* in WGS in south east asia and globally	Eric Yap, NTU, SG
11:20-11:40	Use of metagenomics (eg. Air microbiome in environment and hospital etc) -TBC	TBC
Developing Country's experience in NGS	
11:40-12:00	Genomic insights into the emergence and spread of antimicrobial-resistant bacterial pathogens in SEA	Stephan Baker, University of Oxford, Vietnam
12:00-12:10	QA and Discussion	
12:10-13:00 Lunch	
13:00-15:00	Panel discussion on developing country NGS/WGS experience	Developing Country Representatives
15:00-15:20 Coffee break	
15:20-17:20	Working group break-out session	
17:20-18:00	Summary of break-out session	Working Group chairs
Conclusion of Day 1	

Day 2 – Thursday 13th June 2019

08:30-08:40	Opening remarks for Day 2	Joergen Schlundt, Nanyang Technological University, SG
Existing Platforms for Sequencing Analysis and Active Systems and (Barriers to) International Data Sharing		
08:40-09:00	Updates on NCBI pathogen detection browser - TBC	Bill Klimke, NCBI, USA - TBC
09:00-09:20	Confirmed-pending title	Mirko Rossi, EFSA, Finland
09:20-09:40	Bioinformatics procedures for high-throughput experiments	Bernhard Y Renard, RKI, Germany
09:40-10:00	Data sharing from a legal perspective TBC	TBC
10:00-10:10	QA and discussion	
10:10-10:40 Coffee break		
10:40-11:00	Confirmed-pending title	William Hsiao, British Columbia Centre for Disease Control, Canada
Advances in the Use of WGS in Clinical, Public Health and Food Virology		
11:00-11:20	Progression of WGS use specific to viruses - TBC	Nathan Burkett- Cadena, University of Florida, USA- TBC
11:20-11:40	The use of WGS to better understand the human health risks of zoonotic diseases from wildlife and agricultural production systems	Gavin Smith, NUS, Singapore
11:40-11:50	QA and discussion	
Advances in the Use of WGS in Clinical, Public Health and Food Microbiology		
11:50-12:10	Monitoring the use of whole-genome sequencing in infectious disease surveillance in Europe. European Centre for Disease Prevention and Control. Stockholm: ECDC; 2018.	Marc Jean Struelens, ECDC, Sweden
12:10-12:30	Long and short read sequencing in the monitoring of plasmid transmission in complex environments	Klas Udekwu, Stockholm University, Sweden
12:30-13:30 Lunch		
13:30-13:50	NGS applications in the food industry – Present status and perspectives	Renaud Jonquieres, Biomerieux Industry, Singapore
13:50-14:10	TBC	TBC
14:10-14:30	Confirmed – pending title	Nancy Chow, CDC, USA
14:30-14:40	QA and Discussion	
14:40-15:10 Coffee break		
New Molecular/Sequence Based Identification Tool for Organism		
15:10-15:30	Advances in NGS technologies	Illumina Inc., Singapore
15:30-15:50	Oxford Nanopore Technologies at the bench, in the field and beyond	Paola De Sessions, Oxford Nanopore Technologies, Singapore
15:50-16:10	NGS technologies	Thermo Fisher Scientific, Singapore
16:10-16:30	MitochonTrakr and metagenometrakr	Andrea Ottesen and Padmini Ramachandran, FDA, USA
16:30-16:50	Reverse microbial etiology: new strategy for prevention of emerging infectious diseases in future	Jianguo Xu, CDC, China
16:50-17:10	Confirmed – pending title	Niranjan Nagarajan, GIS, Singapore
17:10-17:30	Genomic Biomarkers to advance Food Safety	Maria Hoffmann, FDA, USA
17:30-17:50	The role of whole genome sequencing in antimicrobial susceptibility testing of bacteria: report from the EUCAST Subcommittee	Matthew Ellington, Public Health England, UK
Conclusion of Day 2		

Day 3 – Friday 14th June 2019

08:15-08:20	Opening remarks for Day 3	Joergen Schlundt, Nanyang Technological University, SG
<td colspan="3" align="center">**Advances in the Use of Metagenomics**</td>		
08:20-08:40	Mapping everything against everything	Frank Aarestrup, DTU, Denmark
08:40-09:00	The successes and pitfalls of metagenomics for clinical, public health, and food safety application – a Canadian perspective	Natalie Knox, PHAC, Canada
09:00-09:20	Metagenomics profiling for analysis of sequencing data from foods	Luca Cocolin, University of Torino, Italy
09:20-09:40	Progression of metagenomics as a tool for routine diagnostics	Robert Schlaberg, University of Utah, USA
09:40-10:00	Culture-independent genome sequencing of Mycobacterium tuberculosis	Nathan Bacchman, University of Sydney, Australia
<td colspan="3" align="center">10:00-10:30 Coffee break</td>		
10:30-10:50	COMPARE food PT based on a salmon matrix - wet lab part	Alessandra De Cesare, University of Bologna, Italy
10:50-11:10	COMPARE food PT based on a salmon matrix -dry lab part	Dirk Hoper, FLI, Germany
11:10-11:20	QA and Discussion	
<td colspan="3" align="center">**NGS in One Health – Surveillance and Investigation**</td>		
11:20-11:40	Investigating a listeriosis outbreak in South Africa	Anthony Smith, NICD, South Africa
11:40-12:00	Establishing integrated genomic outbreak investigation and surveillance systems in Germany: Players, challenges and chances	Maria Borowiak, BfR, Germany
12:00-12:20	Typing reveals an invasive clone of *Streptococcus agalactiae* in SE Asia, missed for decades	Timothy Barkham, TTSH, Singapore
<td colspan="3" align="center">12:20-13:20 Lunch</td>		
13:20-13:40	How WGS is used for foodborne pathogens: a regulatory perspective	Eric Stevens and Ruth Timme, FDA, USA
13:40-14:00	Epidemiological considerations concerning the use of WGS data for foodborne outbreak investigation	Heather Carleton, CDC, USA
14:00-14:20	Foodborne Disease Surveillance, Outbreak Detection and Response in the Genomics Era	Celine A. Nadon, PHAC, Canada
14:20-14:40	Application of WGS in surveillance and risk assessment for foodborne pathogens	Kalliopi Rantsiou, University of Turin, Italy
14:40-14:50	QA and Discussion	
<td colspan="3" align="center">14:50-15:20 Coffee break</td>		
15:20-17:20	Working group break-out session	
17:20-18:00	Summary of break-out session	Working Group Chairs
<td colspan="3" align="center">Conclusion of Day 3</td>		

Participation is free of charge, all coffee breaks and lunches will be catered for by sponsors.

Registration is now OPEN:
https://coe.ntu.edu.sg/Research/naftec/UpcomingEvent(s)/GMI%2012/Registration/Pages/Home.aspx

Further details:
www.globalmicrobialidentifier.org