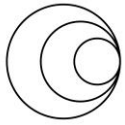


Virtual conference agenda

Wednesday, 5 May 2021

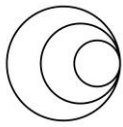
Start (BST)	Finish (BST)	Presenter details
13:00	13:10	Welcome
<p><i>Scientific Programme Committee:</i> Alan Christoffels, South African National Bioinformatics Institute, South Africa Jennifer Gardy, Bill and Melinda Gates Foundation, USA Kathryn Holt, Monash University, Australia Nick Loman, University of Birmingham, UK</p>		
13:10	13:55	Keynote 1
<p>Introduction to the session <i>Chair: Nick Loman, University of Birmingham, UK</i></p>		
13:10	13:40	Global COVID-19 Situation and Strategic Response <i>Maria van Kerkhove, World Health Organisation, Switzerland</i>
13:40	13:55	Q&A <i>Chair: Nick Loman, University of Birmingham, UK</i> <i>Moderator: Jennifer Gardy, Bill and Melinda Gates Foundation, USA</i>
13:55	14:05	Break
14:05	15:35	Session 1: COVID lessons learned, pandemic preparedness, funding agencies
<p>Introduction to the session <i>Chair: Nick Loman, University of Birmingham, UK</i></p>		
14:05	14:25	SARS-CoV-2, metagenomic sequencing, & pandemic preparedness Eddie Holmes, The University of Sydney, Australia
14:25	14:45	Genomics for COVID-19 at the public health interface in Australia Ben Howden, Doherty Institute, Australia
14:45	14:55	The SARS-CoV-2 spike mutation N439K; from genomic surveillance to multidisciplinary characterisation <i>James Shepherd, MRC-University of Glasgow Centre for Virus Research</i>
14:55	15:05	SARS-CoV-2 within-host diversity and transmission <i>Tanya Golubchik, University of Oxford</i>
15:05	15:35	Q&A <i>Chair: Nick Loman, University of Birmingham, UK</i> <i>Moderator: Kathryn Holt, Monash University, Australia</i>
15:35	15:55	Networking / Break



15:55 17:25 Session 2: Environmental Genomics for Public Health		
		Introduction to the session <i>Chair: Kathryn Holt, Monash University, Australia</i>
15:55	16:15	Genome-resolved insights of bacterial metabolism in drinking water systems Ameet Pinto, Northeastern University, USA
16:15	16:35	Tracing the spread and evolution of microbial populations in hospital rooms and sewage with metagenomics Matt Olm, Stanford University, USA
16:35	16:45	Pilot program for SARS-CoV-2 screening and environmental monitoring in an urban public school district in the United States <i>Catherine Pratt, University of Nebraska Medical Center</i>
16:45	16:55	Identifying overlapping pathogenic and antimicrobial-resistant Escherichia coli strains in humans, animals, and urban slum environments through long-read sequencing <i>Jenna Swarthout, Tufts University</i>
16:55	17:25	Q&A <i>Chair: Kathryn Holt, Monash University, Australia</i> <i>Moderator: Alan Christoffels, South African National Bioinformatics Institute, South Africa</i>
17:25	17:45	Networking in Spatial Chat
17:45	18:15	Lightning talks 1
18:15	18:45	Poster session 1 (odd number posters)

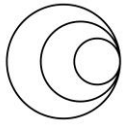
Thursday, 6 May 2021

13:00 14:30 Session 3: Global Public Health Genomics		
Introduction to the session <i>Chair: Jennifer Gardy, Bill and Melinda Gates Foundation, USA</i>		
13:00	13:20	Using genomics to track azithromycin resistance in typhoidal Salmonella in Bangladesh Senjuti Saha, Child Health Research Foundation, Bangladesh
13:20	13:40	AMR & genetic characterization of Shigella flexneri in the Philippines <i>Sonia Sia, Research Institute for Tropical Medicine - Department of Health, Philippines</i>
13:40	13:50	The House that Jack Built: Reaching aspirations for whole genome sequence-based clinical microbiology in rural Nigeria <i>Ifeoluwa Akintayo, University of Ibadan</i>
13:50	14:00	Simultaneous emergence of multiple clades of Salmonella Typhi resistant to fluoroquinolones due to QRDR mutations in Blantyre, Malawi <i>Philip Ashton, Malawi-Liverpool-Wellcome Unit</i>
14:00	14:30	Q&A <i>Chair: Jennifer Gardy, Bill and Melinda Gates Foundation, USA</i> <i>Moderator: Kathryn Holt, Monash University, Australia</i>
14:30	14:50	Networking / Break
14:50 16:20 Session 4: Bioinformatics Showcase		
Introduction to the session <i>Chair: Alan Christoffels, South African National Bioinformatics Institute, South Africa</i>		
14:50	15:10	The COMBAT-TB Workbench: powerful, accessible tools for M. tuberculosis bioinformatics in public health Peter van Heusden, South African National Bioinformatics Institute, South Africa
15:10	15:30	Investigating outbreaks of SARS-CoV-2 using civet Verity Hill, University of Edinburgh, UK
15:30	15:40	Hash-based phonemic naming of biological sequences <i>Bede Constantinides, Nuffield Department of Medicine, UK</i>
15:40	15:50	<i>Graph Gene Caller: a novel approach to bacterial gene calling and gene discovery</i> <i>Samuel Horsfield, Imperial College London, UK</i>
15:50	16:20	Q&A <i>Chair: Alan Christoffels, South African National Bioinformatics Institute, South Africa</i> <i>Moderator: Kathryn Holt, Monash University, Australia</i>
16:20	16:40	Networking in Spatial Chat
16:40	17:10	Lightning talks 2
17:10	17:40	Poster session 2 (even number posters)



Friday, 7 May 2021

13:00	14:30	Session 5: Digital Epidemiology
Introduction to the session <i>Chair: Jennifer Gardy, Bill and Melinda Gates Foundation, USA</i>		
13:00	13:20	Closing the loop: connected diagnostics and digital epidemiology for global health <i>Emily Turner, Gates Foundation, USA</i>
13:20	13:40	Computational Epidemiology During the COVID-19 Pandemic <i>Maia Majumder, Harvard University, USA</i>
13:40	13:50	Real-time genomic epidemiology with millions of samples <i>John Lees, Imperial College London, UK</i>
13:50	14:00	Machine learning for rapid geographical source attribution of Salmonella Enteritidis infections <i>Sion Bayliss, University of Bath, UK</i>
14:00	14:30	Q&A <i>Chair: Jennifer Gardy, Bill and Melinda Gates Foundation, USA</i> <i>Moderator: Nick Loman, University of Birmingham, UK</i>
14:30	14:50	Networking / Break
14:50	16:20	Session 6: Late Breaking
Introduction to the session <i>Chair: Kathryn Holt, Monash University, Australia</i>		
14:50	15:10	Developing a global genomics partnership to inform pneumococcal vaccine strategy <i>Stephen Bentley, Wellcome Sanger Institute, UK</i>
15:10	15:20	Long-read metagenomics using PromethION uncovers oral bacteriophages and their interaction with host bacteria <i>Koji Yahara, National Institute of Infectious Diseases, Japan</i>
15:20	15:30	Genomic surveillance of a novel SARS-CoV-2 variant of concern in Manaus, Brazil <i>Darlan da Silva Candido, University of Oxford, UK</i>
15:30	15:40	An International Common Mechanism for Screening Synthetic DNA Orders <i>Nicole Wheeler, University of Birmingham, Consultant to NTI, bio, UK</i>
15:40	15:50	Assessing Direct Whole Genome Sequencing feasibility from clinical samples in high-burden tuberculosis countries <i>Carla Mariner Llicer, Instituto de Biomedicina de València-CSIC, Spain</i>
15:50	16:20	Q&A <i>Chair: Kathryn Holt, Monash University, Australia</i> <i>Moderator: Nick Loman, University of Birmingham, UK</i>
16:20	16:40	Networking / Break



16:40	17:25	Keynote 2
		Introduction to the session <i>Chair: Jennifer Gardy, Bill and Melinda Gates Foundation, USA</i>
16:40	17:10	Genomic Pathogen Surveillance across Africa: Catalysts & Challenges Ahmed Ouma, Africa CDC, Ethiopia
17:10	17:25	Q&A <i>Chair: Jennifer Gardy, Bill and Melinda Gates Foundation, USA</i>
17:25	17:35	Closing remarks
		Scientific Programme Committee: <i>Alan Christoffels, South African National Bioinformatics Institute, South Africa</i> <i>Jennifer Gardy, Bill and Melinda Gates Foundation, USA</i> <i>Kathryn Holt, Monash University, Australia</i> <i>Nick Loman, University of Birmingham, UK</i>