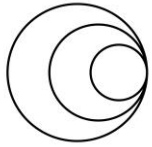
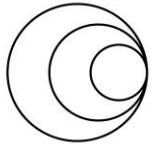


Virtual Conference Agenda

Start (BST)	Finish (BST)	Presenter details
Wednesday, 27 April 2022		
12:00	12:10	Welcome
<i>Scientific Programme Committee:</i> Susanna Dunachie, University of Oxford, UK Iruka Okeke, University of Ibadan, Nigeria Julian Parkhill, University of Cambridge, UK Yonatan Grad, Harvard University, USA		
12:10	12:55	Keynote 1
Introduction to the session <i>Chair: Iruka Okeke</i>		
12:10	12:40	Tackling antimicrobial resistance in the COVID-19 era: Lessons from the COVID-19 pandemic Sharon Peacock, University of Cambridge, UK
12:40	12:55	Q&A <i>Chair: Iruka Okeke</i> <i>Moderator: Susanna Dunachie</i>
12:55	13:10	Break/networking - Meet the speakers
13:10	14:40	Session 1: Global trends in AMR
Introduction to the session <i>Chair: Susanna Dunachie</i>		
13:10	13:30	Antimicrobial resistance in Western Pacific and a case study in Hong Kong Peng Wu, The University of Hong Kong, China
13:30	13:50	AMR Surveillance: Progress, opportunities and challenges Janet Midega, Wellcome Trust, UK
13:50	14:00	Attributable mortality and excess length of stay associated with third-generation cephalosporin resistant Enterobacterales bloodstream infections in Suva, Fiji <i>Michael Loftus, Monash University, Australia</i>
14:00	14:10	Impact of the COVID-19 pandemic on the surveillance of antimicrobial resistance <i>Koji Yahara, National Institute of Infectious Diseases, Japan</i>
14:10	14:40	Q&A <i>Chair: Susanna Dunachie</i> <i>Moderator: Julian Parkhill</i>
14:40	15:00	Break/networking
15:00	15:50	Poster Session I
15:00	15:20	Poster session I lightning talks
15:20	15:50	Poster session I - Spatial Chat

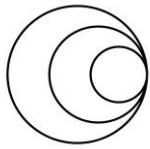


15:50	17:20	Session 2: Genomic surveillance Introduction to the session <i>Chair: Yonatan Grad</i>
15:50	16:10	Knowledge from data: translational bioinformatics for genomic surveillance of AMR pathogens <i>Kathryn Holt, London School of Hygiene & Tropical Medicine, UK</i>
16:10	16:30	Using genomics to tackle AMR in low-resource settings: One step at a time <i>Senjuti Saha, Child Health Research Foundation (CHRF), Bangladesh</i>
16:30	16:40	Genome-first approach to the detection of emerging resistance to novel therapeutic agents for SARS-CoV-2 <i>Natalie Groves, Public Health England, UK</i>
16:40	16:50	The relative transmission fitness of multidrug-resistant Mycobacterium tuberculosis <i>Etthel Windels, ETH Zürich, Switzerland</i>
16:50	17:20	Q&A <i>Chair: Yonatan Grad</i> <i>Moderator: Iruka Okeke</i>
17:20	17:40	Networking session



Thursday, 28 April 2022

12:00	13:30	Session 3: Point of care detection
		Introduction to the session <i>Chair: Yonatan Grad</i>
12:00	12:20	Biosensors and artificial intelligence to support antimicrobial optimisation Tim Rawson, Imperial College London, UK
12:20	12:40	Transcriptional profiling to accelerate infectious disease diagnostics Roby Bhattacharyya, Massachusetts General Hospital/Broad Institute, USA
12:40	12:50	Biologically and Clinically Informed Machine Learning Models for Molecular Antimicrobial Susceptibility Tests for <i>Neisseria gonorrhoeae</i> <i>Skylar Martin, Harvard School of Public Health, USA</i>
12:50	13:00	The Use of an Intracellular Viral DNA qPCR Assay as a Low-Cost Treatment Monitoring Tool to Alleviate Global HIV-1 Drug-Resistance Development <i>Jemima Malisa, Imperial College London, UK</i>
13:00	13:30	Q&A <i>Chair: Yonatan Grad</i> <i>Moderator: Julian Parkhill</i>
13:30	13:50	Break/networking
13:50	14:40	Poster Session II
13:50	14:10	Poster session II lightning talks
14:10	14:40	Poster session II - Spatial Chat
14:40	16:00	Session 4: Translation into clinical practice and policy
		Introduction to the session <i>Chair: Susanna Dunachie</i>
14:40	15:00	Bacterial sequencing in clinical practice Robin Patel, Mayo Clinic, USA
15:00	15:10	A Pilot Data Coordinating Center for Antimicrobial Resistance in Veterinary Medicine <i>Juliana Ruzante, RTI International, USA</i>
15:10	15:20	Why high-quality microbiology might not affect antibiotic use in LMIC settings: Early findings from a qualitative study of a hub-and-spoke surveillance programme in Kenya <i>Felix Bahati, Kemri-Wellcome Trust, Kenya</i>
15:20	15:30	Successes and challenges of using big data technologies in global antimicrobial resistance control <i>Leonid Chindelevitch, Imperial College London, UK</i>
15:30	16:00	Q&A <i>Chair: Susanna Dunachie</i> <i>Moderator: Yonatan Grad</i>
16:00	16:30	Networking session



Friday, 29 April 2022

12:00 13:30 **Session 5: Machine learning and GWAS**

Introduction to the session

Chair: Julian Parkhill

12:00 12:20 Genome-wide association study identifies bacterial multidrug efflux pumps as factors associated with 28-day mortality in melioidosis patients

[*Claire Chewapreecha, MORU Tropical Health Network, Thailand*](#)

12:20 12:40 Machine learning to predict and understand antibiotic resistance in Mycobacterium tuberculosis

[*Maha Farhat, Harvard University, USA*](#)

12:40 12:50 Random forest models with population structure controls predict antibiotic eradication treatment failure and identify potential causal variants.

Lucia Grana, University of Toronto, Canada

12:50 13:00 Genome wide association studies define minimal set of loci for prediction of penicillin and tetracycline susceptibility in Neisseria gonorrhoeae

Tatum Mortimer, Harvard T.H. Chan School of Public Health, USA

13:00 13:30

Q&A

Chair: Julian Parkhill

Moderator: Yonatan Grad

13:30 13:50 Break/networking

13:50 15:20 **Session 6: Antimicrobial discovery**

Introduction to the session

Chair: Iruka Okeke

13:50 14:10 Mimicking the host: imitation is the sincerest form of discovery

[*Eric Brown, McMaster University, Canada*](#)

14:10 14:30 Strategies to Combat Multi-Drug Resistance in Tuberculosis

[*Vinayak Singh, University of Cape Town, South Africa*](#)

14:30 14:40 Discovery of a novel antibiotic potentiator for Gram-negative ESKAPE pathogens using droplet microfluidics

Megan Tse, Broad Institute, USA

14:40 14:50 Chemical entities with Salmonella enterica Biofilm Inhibitory Potential

Adeshola Fagbemi, University of Ibadan, Nigeria

14:50 15:20

Q&A

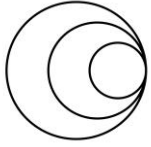
Chair: Iruka Okeke

Moderator: Susanna Dunachie

15:20 16:10 **Poster Session III**

15:20 15:40 Poster session III lightning talks

15:40 16:10 Poster session III - Spatial Chat



16:10 16:55

Keynote 2

Introduction to the session

Chair: Julian Parkhill

16:10 16:40

Vaccines to reduce antimicrobial resistant pathogens

[*Keith Klugman, Gates Foundation, USA*](#)

16:40 16:55

Q&A

Chair: Julian Parkhill

Moderator: Iruka Okeke

16:55 17:10

Closing remarks

16:05 17:10

Scientific Programme Committee:

Susanna Dunachie, University of Oxford, UK

Iruka Okeke, University of Ibadan, Nigeria

Julian Parkhill, University of Cambridge, UK

Yonatan Grad, Harvard University, USA