

**Hybrid Conference Programme**

Start (GMT)	Finish (GMT)	Presenter details
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**Wednesday 13 March 2024**

12:00	12:50	<b>Registration, lunch and networking</b>
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12:35	12:50	<i>Briefing for Keynote &amp; Session 1 speakers, microphone runners, chair, moderator &amp; committee - Auditorium</i>
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12:50	13:00	<b>Welcome</b>
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**Scientific Programme Committee:**

*Kate Baker, University of Cambridge, UK*

*Sylvain Brisse, Institut Pasteur, France*

*Sabiha Essack, University of KwaZulu-Natal, South Africa*

*Yonatan Grad, Harvard University, USA*

13:00	14:00	<b>Keynote 1</b>
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*Chair: Yonatan Grad, Harvard University, USA*

*Moderator: Kate Baker, University of Cambridge, UK*

13:00	14:00	Legal and Social Ecologies of Resistance <a href="#">Kevin Outterson, Boston University, USA</a>
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14:00	14:05	Comfort break
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14:05	15:45	<b>Session 1: Measuring the Burden of AMR</b>
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*Chair: Stephanie Wai-U Lo, Wellcome Sanger Institute, UK*

*Moderator: Kate Baker, University of Cambridge, UK*

14:05	14:35	Measuring the burden of AMR and beyond <a href="#">Catrin Moore, St. George's, University of London, UK</a>
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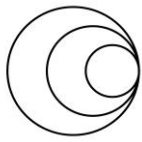
14:35	15:05	From Advocacy to Reliable Estimates: Unpacking the Global Burden of Antimicrobial Resistance <a href="#">Silvia Bertagnolio, World Health Organization, Switzerland</a>
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15:05	15:20	Acquisition and persistence of Extended-spectrum beta-lactamase (ESBL) and Carbapenem resistant (CRE) Escherichia coli carriage in hospitalized Kenyan children <i>Caroline Chepngeno Tigo Kipngeno, KEMRI/Wellcome Trust Research Programme, Kenya</i>
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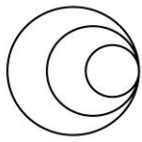
15:20	15:35	Rethinking how to quantify and interpret health impact of antimicrobial resistant infections in resource-limited settings <i>Cherry Lim, University of Oxford, UK</i>
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15:35	15:45	Session discussion
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15:45	16:20	Refreshment break and networking
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16:05	16:20	Briefing for Session 2 speakers, microphone runners, chair & moderator - Auditorium
<b>16:20</b>	<b>18:00</b>	<b>Session 2: Global public health pathogen genomics infrastructure</b>
		<i>Chair: Sylvain Brisse, Institut Pasteur, France</i> <i>Moderator: Yonatan Grad, Harvard University, USA</i>
16:20	16:50	Genomic Surveillance and Characterization of Microbial Threats Facilitates Early Detection and Containment of Disease Outbreaks in West Africa <i>Christian Happi, Redeemer's University, Nigeria</i>
16:50	17:20	Maximising value of genomic and enabling data for surveillance of AMR: Bottom-up and top-down approaches <i>David Aanensen, Oxford University, UK</i>
17:20	17:35	AMRnet: An online dashboard for global surveillance of AMR priority pathogens <i>Zoe A. Dyson, London School of Hygiene and Tropical Medicine, UK</i>
17:35	17:50	The (overly?) ambitious plan to integrate genomics and patient data in the surveillance of infectious disease and AMR in Belgium: Experiences from the be.Prepared Project <i>Pieter-Jan Ceyssens, Sciensano, Belgium</i>
17:50	18:00	Session discussion
<b>18:00</b>	<b>18:45</b>	<b>Poster pitch talks for odd number posters</b>
<b>18:45</b>	<b>19:55</b>	<b>Poster session 1 - odd number posters with drinks reception</b>
19:55	21:55	Dinner
19:55		Bar open (card payments only)



**Thursday 14 March 2024**

07:30 09:00 Breakfast

09:15 09:30 Briefing for Session 3 speakers, microphone runners, chair & moderator - Auditorium

**09:30 11:10 Session 3: Genomic surveillance of priority pathogens**

*Chair: Sylvain Brisse, Institut Pasteur, France*

*Moderator: Kate Baker, University of Cambridge, UK*

09:30 10:00 Impact of typhoid conjugate vaccine

*Farah Naz Qamar, Aga Khan University, Pakistan*

10:00 10:30 The impact of Pneumococcal Conjugate Vaccines on Antimicrobial Resistance in Pneumococcal Diseases

*Stephanie Wai-U Lo, Wellcome Sanger Institute, UK*

10:30 10:45 Plasmids carrying antibiotic resistance genes are special: they are more mobile and they evolve faster

*Charles Coluzzi, Institut Pasteur, France*

10:45 11:00 Genomic insights into the longitudinal transmission of *Neisseria gonorrhoeae*

*Mona Taouk, University of Melbourne, Australia*

11:00 11:10 Session discussion

11:10 11:45 Refreshment break and networking

11:30 11:45 Briefing for Session 4 speakers, microphone runners, chair & moderator - Auditorium

**11:45 13:25 Session 4: Translation and implementation of genomics for AMR control**

*Chair: Kate Baker, University of Cambridge, UK*

*Moderator: Sylvain Brisse, Institut Pasteur, France*

11:45 12:15 Adventures in AMR genomics at the clinical and public health microbiology coalface

*Norelle Sherry, University of Melbourne, Australia*

12:15 12:45 Leaving Pasteur and Fleming behind by implementing genomic-based surveillance for AMR

*Rene Hendriksen, Technical University of Denmark, Denmark*

12:45 13:00 Increasing the Predictive Accuracy of the Resistance Gene Identifier by Abandoning Sole Reliance on Bitscore

*Karyn Mukiri, McMaster University, Canada*

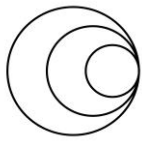
13:00 13:15 Genomic epidemiology of strain and antibiotic resistance dynamics for four major causes of bacteremia in a Canadian metropolitan area, 2006-2022

*Thi Mui Pham, Harvard T.H. Chan School of Public Health, USA*

13:15 13:25 Session discussion

13:25 14:45 Lunch and networking

14:30 14:45 Briefing for Session 5 speakers, microphone runners, chair & moderator - Auditorium



**14:45 16:25 Session 5: Wastewater surveillance**

*Chair: Yonatan Grad, Harvard University, USA*

*Moderator: Stephanie Wai-U Lo, Wellcome Sanger Institute, UK*

14:45 15:15 Diving into the sewers to track antimicrobial resistance - VIRTUAL  
*Amy Kirby, National Wastewater Surveillance System, USA*

15:15 15:45 The utility of wastewater detection of antimicrobial resistance for public health and health system response  
*Guy Palmer, Washington State University, USA*

15:45 16:00 Resistance in sewage-associated microbiota mirror patterns of clinical bacteria and reflect a variable lagging association with antibiotic usage  
*Connor Brown, Virginia Tech, USA*

16:00 16:15 High Throughput qPCR is more sensitive than Metagenomics for wastewater AMR surveillance  
*Nicola Coyle, Cefas, UK*

16:15 16:25 Session discussion

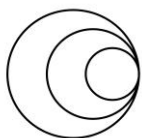
16:25 16:55 Refreshment break and networking

**16:55 17:40 Poster pitch talks for even number posters**

**17:40 18:50 Poster session 2 - even number posters with drinks reception**

18:50 20:50 Dinner

18:50 Bar open (card payments only)



Friday 15 March 2024

07:30 09:00 Breakfast

09:15 09:30 Briefing for Session 6 speakers, microphone runners, chair & moderator - Auditorium

**09:30 Session 6: AI, ML, and Big Data Tools**

*Chair: Yonatan Grad, Harvard University, USA*

*Moderator: Kate Baker, University of Cambridge, UK*

09:30 10:00 What can models tell us about the dynamics of AMR from large-scale data?

*Lulla Opatowski, Institut Pasteur, France*

10:00 10:30 Predicting Antibiotic Resistance - VIRTUAL

*Roy Kishony, Technion, Israel*

10:30 10:45 From Hindsight to Foresight: Safeguarding the Antibiotic Supply Chain - VIRTUAL

*Chaitanya Koduri, US Pharmacopeia, USA*

10:45 11:00 From Archives to Insights: Antimicrobial Resistance Analysis in Global-Scale Metagenomic Datasets

*Shivang Bhanushali, University of Turku, Finland*

11:00 11:10 Session discussion

11:10 11:45 Refreshment break and networking

11:30 11:45 Briefing for Keynote, microphone runners, chair, moderator & committee - Auditorium

**11:45 12:45 Keynote 2**

*Chair: Kate Baker, University of Cambridge, UK*

*Moderator: Sylvain Brisse, Institut Pasteur, France*

11:45 12:45 Applying novel diagnostic approaches to the prevention and control of AMR

*Deborah Williamson, UK Health Security Agency, UK and University of Melbourne, Australia*

**12:45 13:00 Closing remarks and prize presentation**

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*Sylvain Brisse, Institut Pasteur, France*

*Sabiha Essack, University of KwaZulu-Natal, South Africa*

*Yonatan Grad, Harvard University, USA*

13:00 13:50 Lunch and departures

13:50 Coach departures for Stansted and Heathrow airports

14:00 Coach departures for Cambridge train station and city centre