



## Emergence and Dissemination of Antibiotic Resistance in Adsorption Processes for Water Treatment

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## Medical Research Foundation National PhD Training Programme in AMR Research

### Annual Conference

**Monday 8<sup>th</sup> – Tuesday 9<sup>th</sup> August 2022**

**Wills Memorial Building, Queen's Road, University of Bristol, BS8 1RJ**

### FINAL PROGRAMME

#### Day 1 – Monday 8 August

Time	Event	Venue
12:00	<b>Registration</b>	Mezzanine and Great Hall
12:30	<b>Lunch and poster viewing</b>	
13:45	<b>Welcome address – Prof Matthew Avison</b> , Academic Programme Lead, University of Bristol	Reception Room
14:00	<b>Keynote lecture</b> (Chaired by Prof Matthew Avison)  <b>Dr Catrin Moore</b> Department of Infection and Immunity, St George's, University of London and Member of the Advisory Group for Critically Important Antimicrobials, World Health Organisation  'The Global Burden of AMR: Lessons Learned from GRAM and How This Evidence is Informing New Studies'	Reception Room
14:40	<b>Antimicrobial Prescribing During the COVID-19 Pandemic</b>  <b>Dr Wendy Thompson, University of Manchester</b> 'Procedures Not Prescriptions Cure Toothache. Why COVID-19 Restrictions Caused Problems'	Reception Room
14:55	<b>Laura Ciaccio, University of Dundee</b> 'Effects of COVID-19 in Antibiotic Prescribing, Healthcare Utilization, and <i>E. coli</i> Resistance'	
15:05	<b>Towards New Diagnostics, Drug Targets and Alternative Therapies</b> Chair: Declan Kohl, University of Leeds  <b>Rebecca Hull, University of Sheffield</b> 'Impact of Antimicrobial Resistance on Killing of <i>Staphylococcus aureus</i> by Immune Peptide LL-37'	Reception Room

15:20	<b>Jonny Burnett, University of Warwick</b> 'Assays Old and New, Developing New Methods to Analyse the Kinetics and Turnover of Antibiotics Against Penicillin Binding Proteins'	
15:35	<b>Dr Alen Krajnc, University of Ljubljana</b> '(Bi)Cyclic Boronates: Magic Bullets Against Multi-Drug Resistant Bacteria?'	
15:50	<b>Sarah Dodd, University of Bristol</b> 'Mining Fungal Genomes in the Discovery of Novel Antibiotics'	
16:05	<b>Refreshments and posters</b> (30 mins)	Great Hall
	<b>Towards New Diagnostics, Drug Targets and Therapies cont.</b> Chair: Declan Kohl, University of Leeds	Reception Room
16:35	<b>Daniel Buhl, University of Cambridge</b> 'Novel Diagnostic Methods for Bacterial Infections'	
16:50	<b>Karen Adler, University of Leicester</b> 'Optimisation of Bacteriophage Cocktail for Treatment of Antibiotic-Resistant Urinary Tract Infections'	
17:05	<b>Dr Laia Pasquina Lemonche, University of Sheffield</b> 'Antibiotic Effects on the Bacterial Cell Wall of Gram-Positive Species: A Look at the Nanoscale with Atomic Force Microscopy'	
17:20	<b>Closing remarks</b> <b>Prof Chris Dowson, University of Warwick</b>	Reception Room
17:25 - 18:30	<b>Drinks reception – networking and poster session</b>	Great Hall

## Day 2 – Tuesday 9 August

Time	Event	Venue
09:10	<b>Welcome to Day 2</b> <b>Dr Charis Marwick, University of Dundee</b>	Reception Room
	<b>AMR Surveillance in One Health; Healthcare Settings, Natural and Farmed Environments</b> Chair: Beatriz Llamazares (University of Bristol)	Reception Room
09:15	<b>William Matlock, University of Oxford</b> ' <i>Enterobacteriales</i> -associated plasmid sharing amongst human bloodstream infections, livestock, wastewater, and waterway niches: a genomic surveillance study in Oxfordshire, UK'	
09:30	<b>Jordan Sealey, University of Bristol</b> 'An Oasis of Resistant <i>Escherichia coli</i> in Animals in an Inner-City Zoo'	
09:45	<b>Ryan Cook, University of Nottingham</b> 'Hybrid Assembly of an Agricultural Slurry Virome Reveals a Diverse and Stable Community with the Potential to Alter the Metabolism and Virulence of Veterinary Pathogens'	

10:00	<b>Kevin Chau, University of Oxford</b> 'Wastewater Surveillance of AMR in Human Populations'	
10:15	<b>Refreshment break</b> (30 minutes)	Great Hall
10:45	<b>Keynote lecture</b> (Chaired by Dr Nicole Stoesser, University of Oxford)  <b>Prof Iruka Okeke</b> Professor of Pharmaceutical Microbiology, University of Ibadan, Nigeria  'Genomic Surveillance Under Nigeria's first Antimicrobial Resistance National Action Plan' (via Zoom)	Reception Room
11:25	<b>AMR Surveillance in One Health; Healthcare Settings, Natural and Farmed Environments (cont.)</b> (Chaired by Dr Nicole Stoesser, University of Oxford)  <b>Ahmed Raza, University of Dundee</b> ' <i>Escherichia coli</i> Bacteraemia Antimicrobial Resistance: Bacterial Whole Genome Sequencing Linked to Patient Data'	Reception Room
11:40	<b>Winnie Lee, University of Bristol</b> 'Genomic Analysis to Understand Non-Typhoidal <i>Salmonella</i> Carriage: <i>Salmonella</i> Agona – the Bug That Won't Go Away'	
11:55	<b>AMR and Antimicrobial Use: Behaviours and Interventions</b> Chair: Claire Scott (University of Bristol)  <b>Nidhee Jadeja, Imperial College London</b> 'The Path of Least Resistance: Infection Prevention and Control! A Systems Approach to Address the Drivers of AMR in Hospitalised Neonates in Botswana'	Reception Room
12:10	<b>Esther Rottenburg, London School of Hygiene and Tropical Medicine</b> 'WASH-ing AMR: Stitching and Unstitching Bacteria's Pathways'	
12:25	<b>Ashleigh Myall, Imperial College London</b> 'Integrating Multimodal Data to Improve Clinical CPE Outbreak Investigations'	
12:40	<b>Becky McCall, University College London</b> 'Story Bug: Personal Stories are Powerful – How Might They Influence Public Intentions, and Potentially Behaviours, to Help Mitigate the Emergence and Spread of Antibiotic Resistance?'	
12:55	<b>Lucy Miller, Imperial College London</b> 'Estimating the Burden of Respiratory Syncytial Virus Attributable Primary Care Antibiotic Prescriptions in England'	

<p>13:10 to 15:00</p>	<p><b>Lunch and extended poster session (judging)</b></p> <p><i>Group 1 and 2 presenters and judges go to lunch first, please</i></p> <p>Presenters to be stood by their posters at the following times, please:</p> <p><b>13:30 – 14:10 Group 1:</b> AMR Discovery Science and Technology Development</p> <p><b>13:30 – 14:10 Group 2:</b> AMR in One Health; Healthcare Settings; Natural and Farmed Environments</p> <p><b>14:10 – 14:50 Group 3:</b> AMR and Antimicrobial Use: Interventions and Behaviours</p> <p><b>14:10 – 14:50 Group 4:</b> Biology of AMR</p>	<p>Great Hall</p> <p>Judges</p> <p>Prof Chris Dowson, Dr Andy Bailey &amp; Prof Mark Holmes</p> <p>Dr Nicole Stoesser, Dr Charis Marwick &amp; Prof Henry Buller (tbc)</p> <p>Dr Nicole Stoesser, Dr Charis Marwick &amp; Prof Henry Buller (tbc)</p> <p>Prof Chris Dowson, Dr Andy Bailey &amp; Prof Mark Holmes</p>
<p>15:05</p>	<p><b>Video competition showreel</b> Prof Matthew Avison, Academic Programme Lead, University of Bristol</p>	<p>Reception Room</p>
<p>15:40</p>	<p><b>Prize giving for best posters and videos</b></p> <p><b>Prof Matthew Avison</b>, University of Bristol (posters) <b>Clare Soares</b>, Medical Research Foundation (videos)</p>	<p>Reception Room</p>
<p>15:55</p>	<p><b>Closing remarks</b> Prof Matthew Avison, Academic Programme Lead, University of Bristol</p>	<p>Reception Room</p>
<p>16:00</p>	<p><b>Conference close</b> <b>Please collect your luggage from Room 1.5 first but you are welcome to stay on and do some final networking in the Great Hall - the room is available until 17:00. Please don't forget to collect your poster!</b></p>	<p>Great Hall</p>
<p>18:45</p>	<p><b>Drinks and conference dinner</b> (for the residential training cohort, Leadership Team and guests)</p>	<p><a href="#">Mud Dock Café</a> 40 The Grove, Bristol BS1 4RB</p>