

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 8th – Tuesday 9th 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	Registration	Mezzanine and Great Hall
12:30	Lunch and poster viewing	
13:45	Welcome address – Prof Matthew Avison, Academic Programme Lead, University of Bristol	Reception Room
14:00	Keynote lecture (Chaired by Prof Matthew Avison)	Reception Room
	Dr Catrin Moore 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'	
	Antimicrobial Prescribing During the COVID-19 Pandemic	Reception Room
14:40	Dr Wendy Thompson, University of Manchester 'Procedures Not Prescriptions Cure Toothache. Why COVID-19 Restrictions Caused Problems'	
14:55	Laura Ciaccio, University of Dundee 'Effects of COVID-19 in Antibiotic Prescribing, Healthcare Utilization, and <i>E. coli</i> Resistance'	
	Towards New Diagnostics, Drug Targets and Alternative Therapies Chair: Declan Kohl, University of Leeds	Reception Room
15:05	Rebecca Hull, University of Sheffield 'Impact of Antimicrobial Resistance on Killing of Staphylococcus aureus by Immune Peptide LL-37'	

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

Day 2 – Tuesday 9 August

Time	Event	Venue
09:10	Welcome to Day 2	Reception Room
	Dr Charis Marwick, University of Dundee	
	AMR Surveillance in One Health; Healthcare Settings, Natural and Farmed	Reception Room
	Environments	
	Chair: Beatriz Llamazares (University of Bristol)	
09:15	William Matlock, University of Oxford	
	'Enterobacterales-associated plasmid sharing amongst human bloodstream	
	infections, livestock, wastewater, and waterway niches: a genomic surveillance study in Oxfordshire, UK'	
09:30	Jordan Sealey, University of Bristol	
	'An Oasis of Resistant <i>Escherichia coli</i> in Animals in an Inner-City Zoo'	
09:45	Ryan Cook, University of Nottingham	
	'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	Kevin Chau, University of Oxford 'Wastewater Surveillance of AMR in Human Populations'	
10:15	Refreshment break (30 minutes)	Great Hall
10:45	Keynote lecture (Chaired by Dr Nicole Stoesser, University of Oxford)	Reception Room
	Prof Iruka Okeke	
	Professor of Pharmaceutical Microbiology, University of Ibadan, Nigeria	
	'Genomic Surveillance Under Nigeria's first Antimicrobial Resistance National Action Plan' (via Zoom)	
	AMR Surveillance in One Health; Healthcare Settings, Natural and Farmed Environments (cont.) Chaired by Dr Nicole Stoesser, University of Oxford)	Reception Room
11:25	Ahmed Raza, University of Dundee 'Escherichia coli Bacteraemia Antimicrobial Resistance: Bacterial Whole Genome Sequencing Linked to Patient Data'	
11:40	Winnie Lee, University of Bristol 'Genomic Analysis to Understand Non-Typhoidal Salmonella Carriage: Salmonella Agona – the Bug That Won't Go Away'	
	AMR and Antimicrobial Use: Behaviours and Interventions Chair: Claire Scott (University of Bristol)	Reception Room
11:55	Nidhee Jadeja, Imperial College London 'The Path of Least Resistance: Infection Prevention and Control! A Systems Approach to Address the Drivers of AMR in Hospitalised Neonates in Botswana'	
12:10	Esther Rottenburg, London School of Hygiene and Tropical Medicine 'WASH-ing AMR: Stitching and Unstitching Bacteria's Pathways'	
12:25	Ashleigh Myall, Imperial College London 'Integrating Multimodal Data to Improve Clinical CPE Outbreak Investigations'	
12:40	Becky McCall, University College London '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	Lucy Miller, Imperial College London 'Estimating the Burden of Respiratory Syncytial Virus Attributable Primary Care Antibiotic Prescriptions in England'	

13:10	Lunch and extended poster session (judging)	Great Hall
to		
15:00	Group 1 and 2 presenters and judges go to lunch first, please Presenters to be stood by their posters at the following times, please:	Judges
	13:30 – 14:10 Group 1: AMR Discovery Science and Technology Development	Prof Chris Dowson, Dr Andy Bailey & Prof Mark Holmes
	13:30 – 14:10 Group 2: AMR in One Health; Healthcare Settings; Natural and Farmed Environments	Dr Nicole Stoesser, Dr Charis Marwick & Prof Henry Buller (tbc)
	14:10 – 14:50 Group 3: AMR and Antimicrobial Use: Interventions and Behaviours	Dr Nicole Stoesser, Dr Charis Marwick & Prof Henry Buller
	14:10 – 14:50 Group 4: Biology of AMR	(tbc) Prof Chris Dowson, Dr Andy Bailey & Prof Mark Holmes
15:05	Video competition showreel Prof Matthew Avison, Academic Programme Lead, University of Bristol	Reception Room
15:40	Prize giving for best posters and videos	Reception Room
	Prof Matthew Avison, University of Bristol (posters) Clare Soares, Medical Research Foundation (videos)	
15:55	Closing remarks Prof Matthew Avison, Academic Programme Lead, University of Bristol	Reception Room
16:00	Conference close 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!	Great Hall
18:45	Drinks and conference dinner (for the residential training cohort, Leadership Team and guests)	Mud Dock Café 40 The Grove, Bristol BS1 4RB