



ANTIBIOTIC DISCOVERY ACCELERATOR NETWORK (ABX)

WINTER MEETING PROGRAMME 2020

Wednesday 16th December 2020

- 10:00 - 10:10 **Introduction**
Professor Mat Upton
Professor of Medical Microbiology – University of Plymouth
- 10:10 - 10:30 **The Global Antibiotic Research and Development Partnership (GARDP) – filling gaps that others do not**
Professor Laura Piddock
Director of Scientific Affairs – Global Antibiotic Research and Development Partnership (GARDP)
Professor of Microbiology – University of Birmingham
- 10:30 - 10:50 **Citizen Science Drug Discovery; updates from Swab and Send**
Dr Adam Roberts
Reader, Antimicrobial Chemotherapy and Resistance – Liverpool School of Tropical Medicine
- 10:50 - 11:00 **Azetidines kill Mycobacterium tuberculosis without detectable resistance by blocking mycolate biosynthesis**
Dr Luke Alderwick
Lecturer in Molecular Microbiology – University of Birmingham
- 11:00 - 11:10 **Investigating late stage functionalisation of a cyclic peptide antibiotic**
Gustavo Perez Ortiz
Post-Doctoral Researcher – King's College London
- 11:10 - 11:20 **Flash talks x 3**
- 11:20 - 11:30 **Break**
- 11:30 - 11:45 **An Ocean of Microbial Chemistry - 'Omics Informed Antibiotic Discovery**
Dr Katherine Duncan
Chancellor's Fellow and Lecturer in Marine Microbial Chemistry - University of Strathclyde

- 11:45 - 12:00 **Antimicrobial agents from marine and desert bacteria**
Professor Marcel Jaspars
Professor of Chemistry - University of Aberdeen
- 12:00 - 12:10 **Genomic characterisation of anti-pseudomonad bioactivity from hyper-arid Micromonospora species**
David Mark
PhD Student – University of Strathclyde
- 12:10 - 12:20 **Antibiotic resistance in Antarctica: no longer a pristine ecosystem?**
Kudzai Hwengwere
Masters Student – Anglia Ruskin University
- 12:20 - 12:30 **Development of a new multi-stress in vitro model of latent TB leads to the discovery of a novel enzyme and it's corresponding inhibitor**
Savannah Gibson
PhD Student – Aston University
- 12:30 - 12:40 **Characterisation of a potent, non-toxic antimicrobial compound with potential antimycobacterial activity from a common, edible plant**
Dr Martin Goldberg
Lecturer in Clinical Microbiology – Birmingham City University
- 12:40 - 12:50 **Flash talks x 3**
- 12:50 - 13:00 **Break**
- 13:00 - 13:10 **Neglected MATE efflux pumps in Campylobacter**
Dr Thamarai Janganan
Lecturer in Microbiology and Biotechnology – University of Bedfordshire
- 13:10 - 13:20 **Novel Ruthenium Antimicrobial Compounds - an Alternative to Traditional Antibiotics**
Kirsty Smitten
PhD Student – University of Sheffield
- 13:20 - 13:30 **Building a whole cell computational model of *E.coli* to identify viable drug targets and discover new biology**
Ajay Mistry
Founder/CEO – Oppiloech
- 13:30 - 13:40 **High-throughput nanoscale crystallisation of bioactive natural products for X-ray crystallography**
Dr Michael Hall
Senior Lecturer in Organic and Biological Chemistry – Newcastle University
- 13:40 - 13:50 **Real time monitoring of peptidoglycan synthesis by membrane-reconstituted penicillin binding proteins**
Victor Hernandez-Rocamora
Research Associate – Newcastle University

- 13:50 - 14:00 **Perturbed dynamics underlie inhibition and altered efflux of a multidrug resistance pump**
Dr Eamonn Reading
Research Fellow – King's College London
- 14:00 - 14:10 **Flash talks x 3**
- 14:10 - 14:20 **Winner Announcement of Best Presentation from Post Graduates/ Early Career Researcher talks, Summary and Finish**