Imperial College London Antimicrobial Research Collaborative
ARC@Imperial
Conference 2016

Thursday 22\textsuperscript{nd} September 2016, 0900-1800
G16, Sir Alexander Fleming Building, South Kensington Campus
(Programme subject to change)

0900-0930   Registration and Coffee

0930-0945   Introduction and Welcome

0945-1115   SESSION 1: Update from ARC Fellows

Diagnosis of bacterial infections using a two-gene biomarker signature
Myrsini Kafourou, ARC Fellow, Department of Medicine

Nurse participation in antimicrobial stewardship programmes worldwide: results of a realist literature review and pan-African study
Enrique Castro- Sánchez, ARC Fellow, Department of Medicine

Identification of novel antimicrobial targets in \textit{Pseudomonas aeruginosa}
Simren Gill, ARC Fellow, Department of Medicine

Policies and strategies for the control of AMR in European healthcare settings
Gabriel Birgand, ARC Fellow, Department of Medicine

Targeting cyclic di-GMP: a strategy to control antimicrobial resistance?
Martina Valentini, ARC Fellow, Department of Life Sciences

Assessing outbreaks of drug-resistant fungi using nanopore sequencing
Johanna Rhodes, ARC Fellow, School of Public Health

Questions and Answers

Using chromosome conformation metagenomics to look at movement of AMR genes in complex bacterial populations
Mark Holmes, Cambridge Veterinary School

1115-1135   Refreshments
1135-1230 SESSION 2: Data Linkage and Data Visualisation for Research and Policy

Title TBC
Speaker TBC
TBC
David Aanensen, School of Public Health
Data visualisation for AMR
Ceire Costelloe, Department of Medicine
Questions and Answers

1230-1330 Lunch and Networking

1330-1440 SESSION 3: Identifying Targets

Pathogen adaptation to the gastrointestinal environment during antimicrobial chemotherapy
Gad Frankel, Department of Life Sciences
A novel, potent, resistance-breaking antimicrobial, targeting the host cell modification machinery
Ed Tate, Department of Chemistry
Metabolomics to accelerate antibacterial target identification and mechanism-of-action studies
Luis Carvalho, The Francis Crick Institute
Questions and Answers

1440-1535 SESSION 4: Understanding Emergence of Resistance

Emergence of Carbapenemase -producing Enterobacteriaceae (CPE): control, colistin and cost
Jon Otter, Imperial College Healthcare NHS Trust
A novel mechanism of antibiotic resistance in Staphylococcus aureus
Andrew Edwards, Department of Medicine
Emerging global threat of antifungal resistance in Aspergillus fumigatus
Darius Armstrong-James, National Heart and Lung Institute
Questions and Answers
1535-1555 Refreshments

1555-1640 SESSION 5: Innovation in Technology for Diagnosis and Dosing

Horizon scanning of diagnostic technologies for emerging infectious diseases and AMR
Jesus Rodriguez-Manzano, Department of Electrical and Electronic Engineering

Precision antimicrobial delivery using closed-loop continuous control
Tony Cass, Department of Chemistry and Tim Rawson, Department of Medicine

Questions and Answers

1640-1730 SESSION 6: Panel Discussion and Closing

1730 DRINKS RECEPTION