

**Imperial College London Antimicrobial Research Collaborative
ARC@Imperial
Conference 2016**

Thursday 22nd 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 Kaforou, 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 *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
