

Challenges and Advances in Antimicrobial Resistance Research

April 5, 2019

Breakthrough Theatre,
Matrix – Level 4, Biopolis, Singapore

Organizers: Amit Singhal (SigN) and Abcam

08:00 – 08:55 Registration

08:55 – 09:05 Opening remarks: Ryan Chong (Abcam) and Amit Singhal (SigN, A*STAR)

09:05 – 09:10 Welcome address: Sir David Lane (Chief Scientist A*STAR)

Session 1 Host-pathogen interaction
Session chair: Pablo Bifani

09:15 – 09:55 Jose Bengoeche (Queen's University Belfast, UK)
Klebsiella pneumoniae: a master tactician in immune evasion

09:55 – 10:35 Yunn Gan (National University Singapore (NUS), Singapore)
How Klebsiella pneumoniae interact with the host's gut and liver

10:35 – 11:00 Coffee break

11:00 – 11:40 Mark Schembri (University of Queensland, Australia)
Uropathogenic E. coli – genomics, virulence and antibiotic resistance

11:40 – 12:20 Kimberly Kline (Nanyang Technological University, Singapore)
Enterococcus faecalis biofilm-associated infections

12:20 – 12:40 Peter Bond (Bioinformatics Institute (BII), A*STAR, Singapore)
The structural basis for endotoxin neutralization

12:40 – 1:45 Lunch

Session 2 Novel interventions for AMR
Session chair: Amit Singhal

1:45 – 2:25 David Lye (National Centre for Infectious Diseases (NCID), Singapore)
Treating the untreatable antibiotic-resistant gram negative bacterial infections?

2:25 – 3:05 Eunice Leong & Yi Yan Yang (Institute of Bioengineering & Nanotechnology (IBN), A*STAR, Singapore)
Novel macromolecules with unique antimicrobial mechanism for treatment of MDR bacterial infections

3:05 – 3:25 Roger Beuerman (Singapore Eye Research Institute (SERI), Singapore)
Overcoming colistin resistance to mcr-1 with a new adjuvant

3:25 – 4:00 Coffee break

4:00 – 4:40 Pablo Bifani (National University Singapore (NUS), Singapore)
The adaptability of the folate pathway and antimicrobial resistance

4:40 – 5:20 Shawn Vasoo (National Centre for Infectious Diseases (NCID), Singapore)
Gaps and what's new in the diagnostics of Gram negative