

NIHR Leeds Biomedical Research Centre



Mark Wilcox
AMR and Infection Theme
NIHR Leeds BRC



AMR and Infection Theme objective:

We will accurately identify patients at risk of infections, particularly for infections that are resistant to antibiotics

Our grand challenge is:

- To optimise diagnosis of life-threatening AMR infections, transforming patient care with targeted antimicrobial treatment, thereby driving down the collateral damage caused by healthcare associated infections and spread of multi-resistant organisms
- We work collaboratively with clinical, academic and commercial partners to achieve this



Theme Lead
Professor Mark Wilcox

Workstream One Lead
Professor Mark Wilcox

Emerging Lead
Dr Kerrie Davies


Workstream Two Lead
Professor Alex O'Neill

Emerging Lead
Dr Jane Freeman


AMR and Infection Steering group

Clinicians, academics, policy, industry

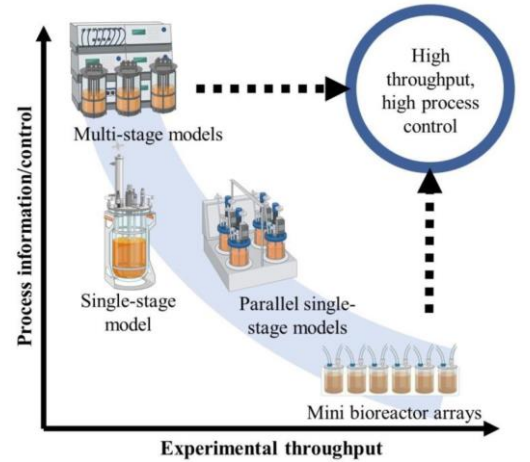
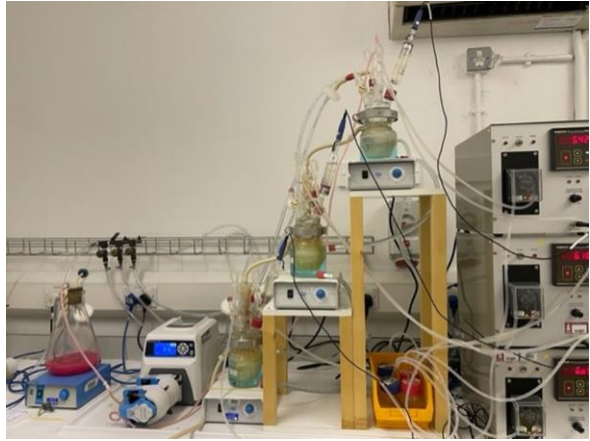
PPI Group


WS1. Targeted AMR Solutions

- Precision diagnostics**
 - AMR diagnostic testing and evaluation centre (AMR-TEC)
 - Repurposing and optimising infection diagnostics
 - Tackling disparities
- Optimising Antimicrobial stewardship**


WS2. Translational pipeline for antimicrobial solutions

- Pre-clinical studies of antimicrobial agents**
 - Gut model/Mini-model development
 - Industry engagement
- Translation into practice via clinical trials**



Davis Birch WA, Moura IB, Ewin DJ *et al.* *Microb Biotechnol.* 2023 Jun;16(6):1312-1324.

AMR and Infection theme



WS1. Targeted AMR Solutions

□ Precision diagnostics

- AMR diagnosis and evaluation (AMR-TEC)
- Repurposing and optimising diagnostics
- Tackling disparities

□ Optimising Antimicrobial stewardship



Year One Highlights

Launch of seedcorn funding

> Clin Microbiol Infect. 2023 Oct;29(10):1222-1224. doi: 10.1016/j.cmi.2023.06.027. Epub 2023 Jun 28.

Hear my voice: involving patients in Clostridioides difficile infection research

Judith Strawbridge ¹, John Heritage ², Marcela Krutová ³, Benoit Guery ⁴, Kerrie Davies ⁵, Fidelma Fitzpatrick ⁶, Jane Freeman ⁷

Launch of PhD on Disparity of CDI diagnosis

Submission of OVID-CDI grant application

Flagship Infection Diagnostics event with NHS England

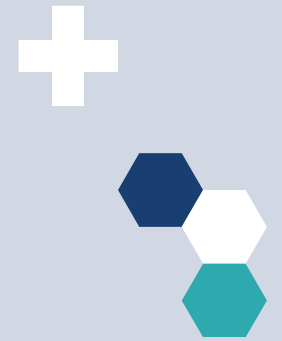


WS2. Translational pipeline for antimicrobial solutions

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/Mini-model ent engagement

□ Translation into practice via clinical trials



Questions

