Rapid and low-cost diagnostic tools for surveillance of antibiotic resistance genes

Goal: Development of a culture-independent diagnostic tool to complement and accelerate epidemiological surveillance of antibiotic resistance genes in low resource settings

Develop a PCR-HRM panel for detection of ARGs to 3rd and 4th Gen cephalosporins, carbapenems and colistin

Optimise PCR-HRM protocol for direct detection of antibiotic resistance genes in stool and blood specimen

Validate PCR-HRM panel for surveillance of antibiotic resistance genes in humans and livestock in Fleming Fund laboratory network in Kenya

Budget: 300,000 GBP
Funders: Royal Society & CGIAR A4NH
Partners:
- University of Liverpool
- Fleming Fund AMR surveillance network in Kenya

Duration: May 2020 – April 2022
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