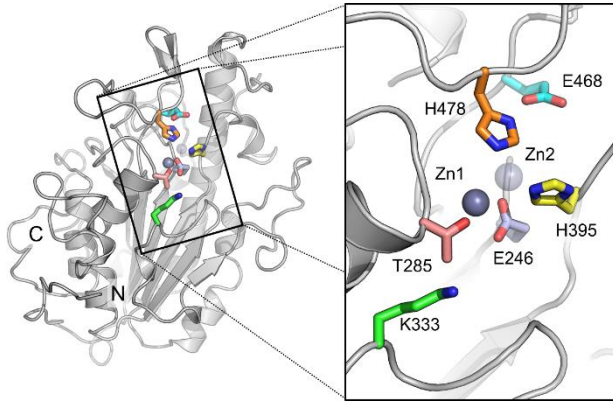


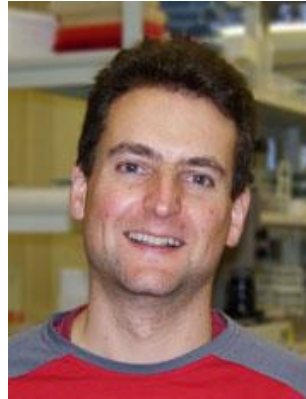


# Antimicrobial Resistance (AMR)



## Molecular mechanisms of AMR

- β-lactam resistance
- Colistin resistance
- Protein synthesis inhibitors



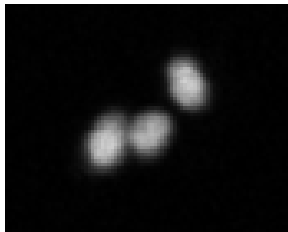
## Dr. Jim Spencer

Reader in Microbiology,  
Cellular and Molecular Medicine,  
University of Bristol  
Jim.Spencer@Bristol.ac.uk



## Antimicrobial Discovery

- Natural products
- In silico* methods
- Inhibitors of resistance
- Antimicrobial materials



## Bacterial capture/detection

- Magnetic labelling
- Fluorescent labelling

## Why am I here?

- New ideas/collaborations
- Expertise to share (basic science)
- Hard/software challenges for handheld/cell phone devices
- Improve understanding of challenges/barriers to implementation

## Existing ODA Collaborations

- Thailand (TB, detection)
- Pakistan (materials)
- Argentina, China (inhibitors of AMR)