

Name **Liz Harry**

Position: Associate Professor

Organisation: Institute for the Biotechnology of Infectious Diseases, University of Technology, Sydney

Professional specialisation or role in organisation

- Research scientist
- Leader of Bacteriology Group

Areas of expertise

- Fluorescence Microscopy
- Bacterial Proteomics
- Bacterial Molecular and Cell Biology
- Gram positive bacteriology
- Bacterial Cell Division and the Cell Cycle

Capabilities

- Fluorescence microscopy for use in bacteria
- Immunofluorescence and fluorescent protein fusions
- Time-lapse fluorescence microscopy
- 3-D deconvolution
- Industry experience
- Differential display proteomics using 2-D arrays

Field of application

- Antibiotics
- Antibacterials
- Bacterial phenotyping
- Characterization of natural antibiotics and their mechanism of action

Recent projects

- Identification of antibiotic targets
- Validation of antibiotic targets
- Regulation of cell division in bacteria
- Coordination of the bacterial cell cycle

Facilities

- Proteomics Centre of Expertise, UTS; platform of proteomic capabilities)
- Fluorescence microscopes (Zeiss and Olympus) specifically set up for high resolution of bacterial cells, and cellular localization of proteins, and for doing live cell experiments. Time lapse capability included.

Facility availability

- Above facilities are available to collaborators, partners and upon application.

Other benefits

- Lead researcher in bacterial cell division and its regulation

Recent industrial activities

- Partnership with Proteome Systems Ltd in antibiotic discovery program

Publication track record

- Strong publication record with over 20 research and review papers in the last 5 years in the top two microbiology journals, *Molecular Microbiology* and *Journal of Bacteriology*.