

Yusra Alsammarraie

[School of Biosciences \(/schools/biosciences/index.aspx\)](/schools/biosciences/index.aspx)

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About

PhD Title: Expanding the potential of mutasynthetic approaches for pseudomonic acids

Supervisors: Professor Chris M Thomas (Supervisor) and Dr Anthony S Haines (co-supervisor)

The key aim of the project is to investigate solutions to the growing problem of antibiotic resistance. One approach is to understand how Mupirocin and Thiomarinol are made by bacteria and to use this information to engineer the production of new molecules that may have useful new biological activities, particularly but not exclusively antibiotic activity.

Qualifications

2009-2010 MSc Biosciences - (Immunity and Infection) - University of Leeds

Research

My principal research interests lie in the field of microbiology and antibiotic resistance with particular interest in the area of secondary metabolites and hybrid antibiotics. My future research plans are to build upon the foundations of my PhD to further investigate the possibility of creating hybrid molecules with potentially useful properties through manipulating the biosynthetic genes using mutasynthesis, transposon mutagenesis and gene cloning.