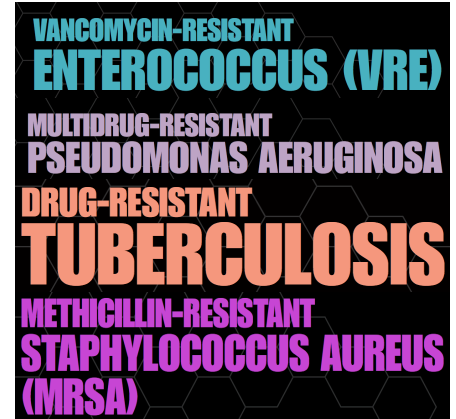


New Therapies for Pathogenic Bacteria

Jamie Triccas, Infectious Diseases and Immunology,
Central Clinical School, FMH

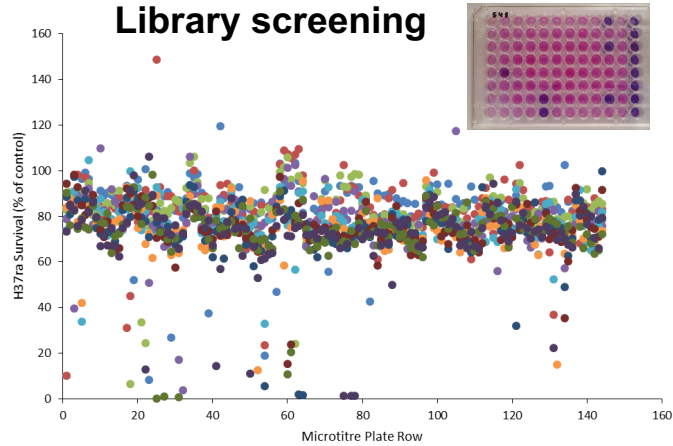
Area of Research

- Identification of new antibacterial from natural products
- Screening for anti-bacterial activity against drug resistant pathogens
- Development of new vaccines for lung pathogens (*Mycobacterium tuberculosis*, *Pseudomonas aeruginosa*)

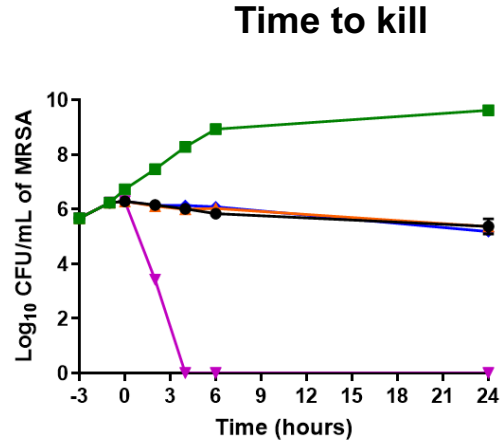


Expertise

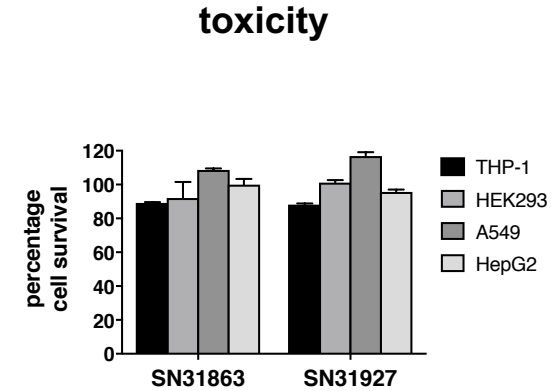
– Screening for anti-bacterial activity against pathogens



D. Quan

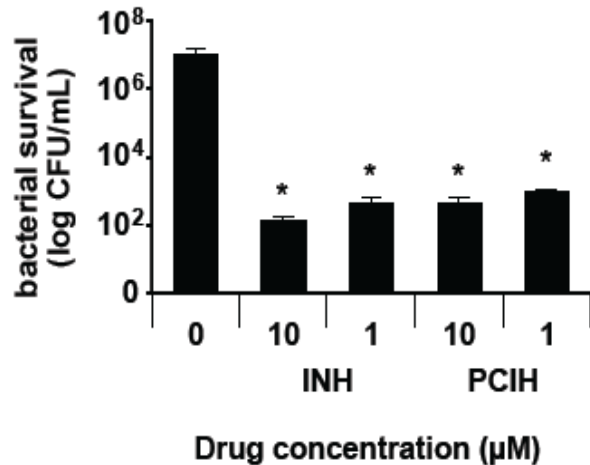
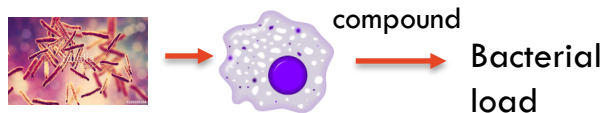


M. Galetta

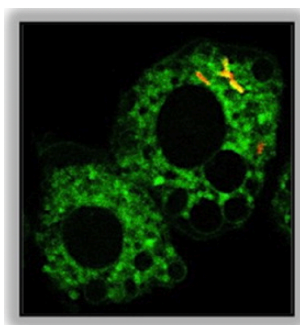


D. Quan

In vitro and in vivo compound efficacy



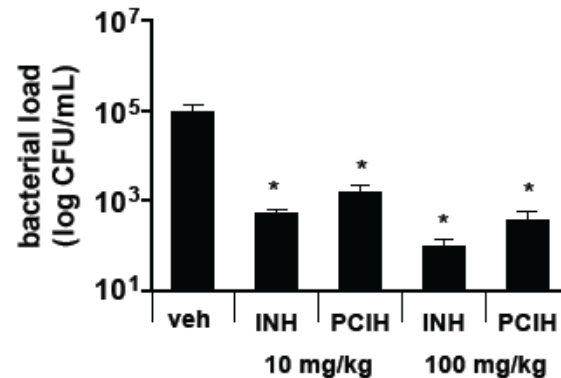
Mycobacteria compound



Yu *et al* J Med Chem, 2016 59:5917-21.

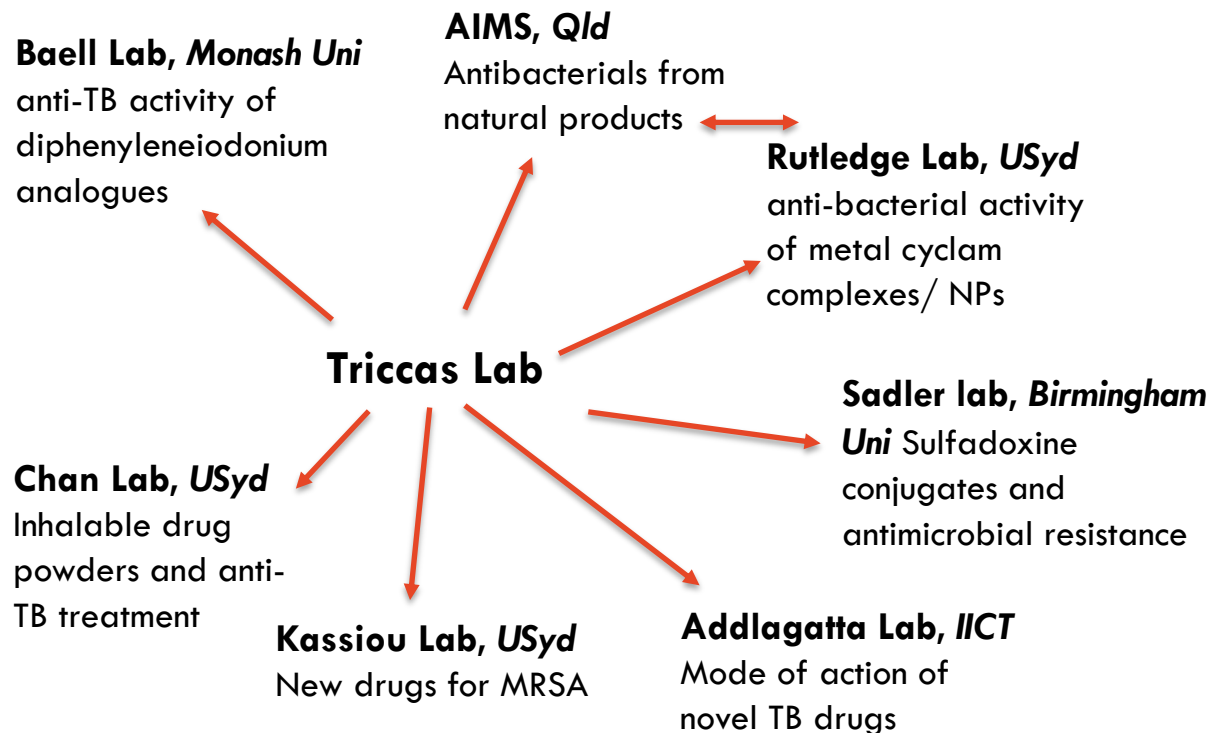
DRUG-RESISTANT TUBERCULOSIS

METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS (MRSA)



Ellis *et al*, Mol Pharmacol, 2014, 85: 269-278

Drug Development Network and requirements



- Mode of action (target identification, enzyme inhibition assays)
- Natural product synthesis
- Drug delivery