

Samantha & Ghaith

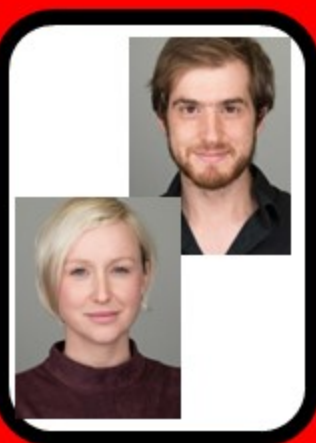
Liverpool School of Tropical Medicine

Thursday 16th January 1-2pm

CTID Boardroom, LSTM

LIV TB

Liverpool TB Research Group



“Intracellular Pharmacodynamic (*PDi*) based modelling for the prediction of drug activity against TB”

Clinical studies of new antitubercular drugs are costly and time-consuming. Owing to the extensive tuberculosis (TB) treatment periods, the ability to identify drug candidates based on their predicted clinical efficacy is vital to accelerate the pipeline of new therapies. Recent failures of preclinical models in predicting the activity of fluoroquinolones underline the importance of developing new and more robust predictive tools that will optimise the design of future trials. We used high-content imaging screening and pharmacodynamic intracellular (*PDi*) modelling to identify and prioritise fluoroquinolones for TB treatment.

Samantha & Ghaith, post-docs working in Prof Biagini's TB group at LSTM, will present the data from their research into an intracellular drug screening assay, published in 2019 in *Antimicrobial Agents and Chemotherapy*.