

Problem: current antileishmanial treatments have many limitations: (1) chemotherapy is toxic and increasingly ineffective with rising resistance; (2) there is no vaccine. Aim: to identify a new therapeutic target in *Leishmania* as a primer for target-based drug discovery in cutaneous leishmaniasis. Model approach: cutting-edge OMICS tools and industrial partnerships to deconvolve the MoA of a novel antileishmanial compound, 'C4', identified by GSK in a phenotypic screen (Pena et al., 2015). Our model builds on our previous work (Mina et al., 2021). Tools & partnerships: genomics (Mottram, York University), proteomics (Trost, Newcastle University), metabolomics and lipidomics (Barrett, Glasgow

