Poster title: Thermal proteome profiling to identify drug targets of antimalarials

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Abstract: Early identification of a compound's molecular target can greatly benefit the drug discovery process. Thermal proteome profiling or TPP is a powerful, unbiased chemical proteomics tool to identify binding partners of active compounds and can help deconvolute the mechanism of action of novel drugs identified by phenotypic screening. The Mode of Action (MoA) group has developed TPP in kinetoplastids and Plasmodium falciparum. In this work we will show how this technique was optimised and successfully used in the identification of drug targets of antimalarials and will discuss other applications of TPP, including the study of protein interactions through the analysis of protein melting curves.