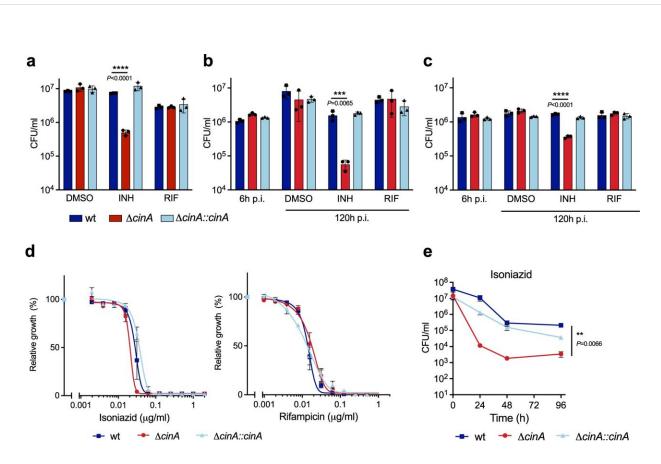


Protein contributes to drug tolerance in tuberculosis



May 4 2022, by Heather Lindsay

CinA mediates intrinsic isoniazid tolerance. a) Bacteria were starved in PBS for 14 days and then exposed to isoniazid (INH, 0.5 µg/ml), rifampicin (RIF, 1 µg/ml), or an equal amount of DMSO for 7 days and cultured for CFU enumeration. Data are means \pm SD of triplicate cultures and are representative of two independent experiments. b) CFU from resting and c) IFN- γ activated primary murine BMDMs infected with the indicated strains and treated with INH (0.1 µg/ml), RIF (0.1 µg/ml), or an equal amount of DMSO from 24 to 120 h post infection. Data are means \pm SD of triplicate cultures and are representative of two independent experiments to a strain the indicated strain treated with INH (0.1 µg/ml), RIF (0.1 µg/ml), or an equal amount of DMSO from 24 to 120 h post infection. Data are means \pm SD of triplicate cultures and are representative of two independent experiments for c. d) Impact of isoniazid and



rifampicin on growth of the indicated strains. Data are means \pm SEM from two independent experiments, each performed with duplicate cultures. e) CFU quantification of the indicated strains after incubation with 0.5 µg/ml isoniazid in standard growth media. Data are means \pm SEM from two independent experiments each performed with triplicate cultures. Statistical significance of the differences between wild-type and Δ cinA was assessed by two-tailed, unpaired t-test, **P

Citation: Protein contributes to drug tolerance in tuberculosis (2022, May 4) retrieved 26 April 2024 from <u>https://medicalxpress.com/news/2022-05-protein-contributes-drug-tolerance-tuberculosis.html</u>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.