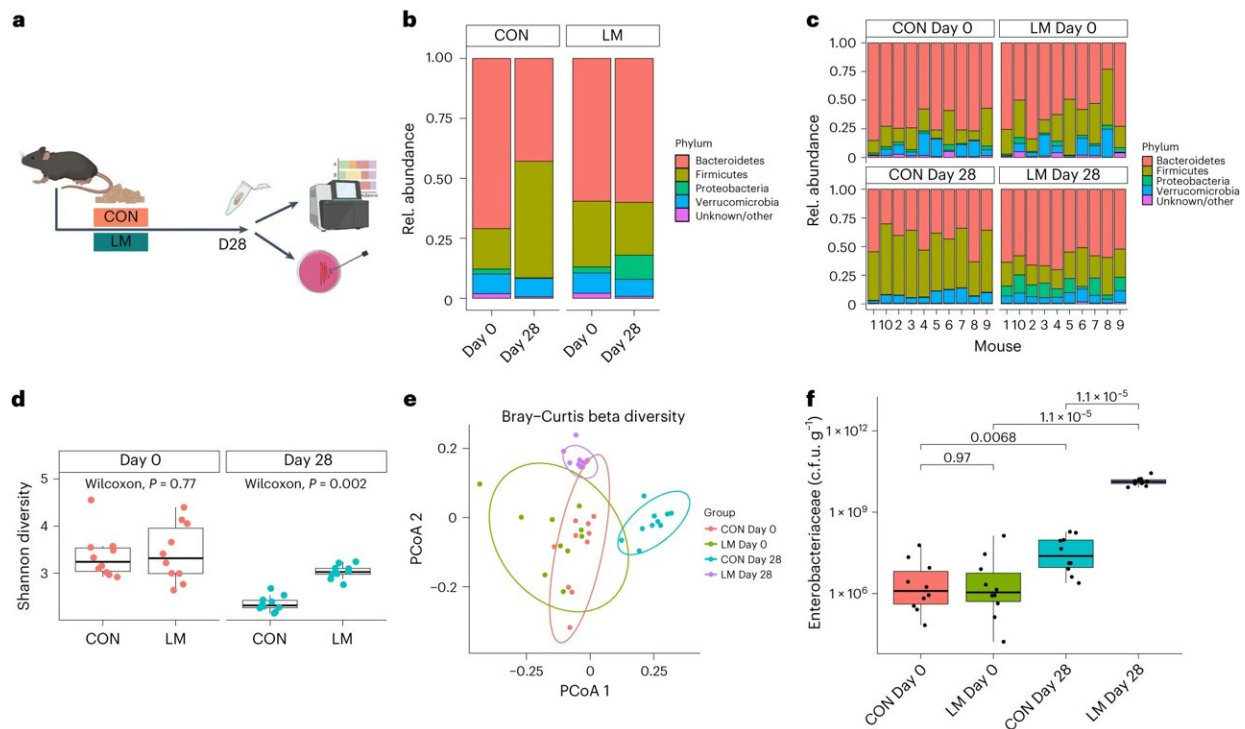


# Study reveals surprising link between malnutrition and rising antibiotic resistance

November 17 2023



Micronutrient deficiencies reshape gut bacterial community. Weanling C57Bl/6N male mice ( $n = 10$ ) were given a control or multiple low-micronutrient diet (deficient in vitamin A, B12, B9 (folate), zinc and iron) ad libitum for 28 d. Shotgun metagenomics sequencing was performed on mouse fecal samples collected at Days 0 and 28. Fresh fecal samples were also plated on MacConkey agar and Enterobacteriaceae quantified (c.f.u.). **a**, Experimental design. **b,c**, Bar plots at the phylum level by group and by individual mouse. Bars represent mean relative abundance. All taxa with

Citation: Study reveals surprising link between malnutrition and rising antibiotic resistance (2023, November 17) retrieved 28 April 2024 from <https://medicalxpress.com/news/2023-11-reveals-link-malnutrition-antibiotic-resistance.html>

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.