

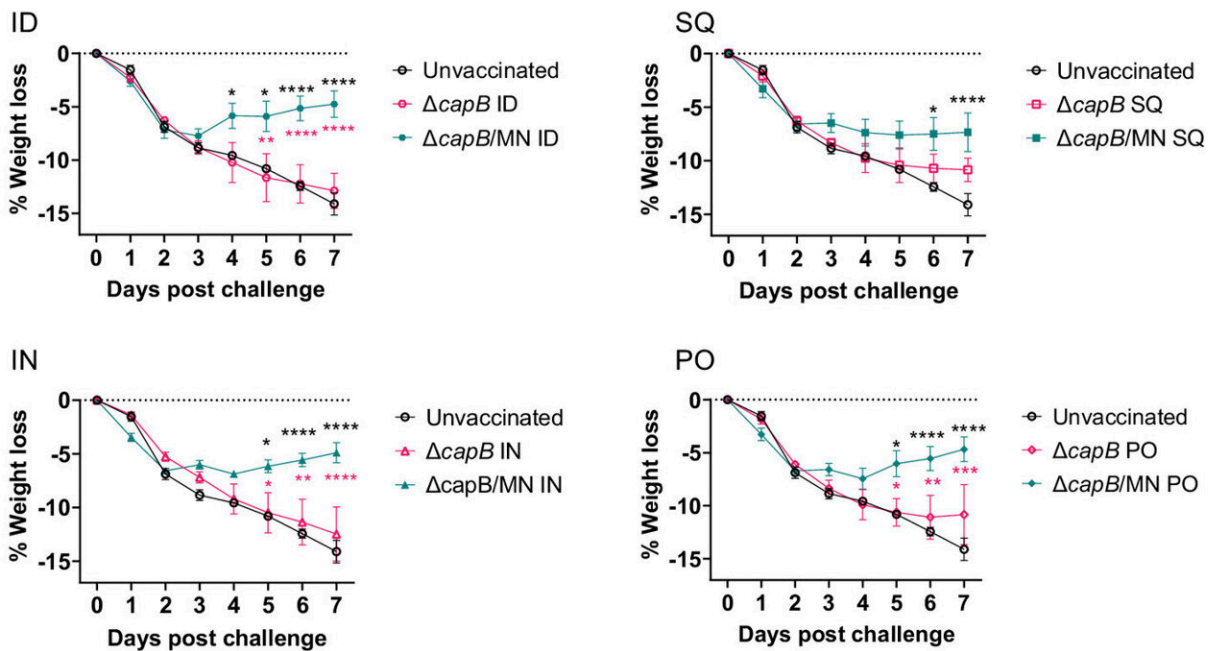
Researchers develop a universal oral COVID-19 vaccine that prevents severe illness in hamsters

March 22 2023

A Vaccination and challenge schedule



B Kinetics of weight loss after challenge



Experimental schedule and weight loss after challenge. (A) Experiment schedule. Syrian hamsters (8/group, 4 females, 4 males) were immunized ID, IN, SQ, or

PO three times on weeks 0, 3, and 6 with LVS Δ capB vector (Δ capB) or rLVS Δ capB/MN (Δ capB/MN) vaccine; challenged IN on week 10 with 104 PFU of SARS-CoV-2 (2019-nCoV/USA-WA1/2020 strain); and monitored closely daily for clinical signs of infection, including weight loss. Half of the animals were euthanized for lung viral titers at 3 days post challenge (dpi); the other half were euthanized for lung histopathology at 7 dpi. (B) Weight change after challenge. From days 0 to 3, n = 8/group; from days 4 to 7, n = 4/group. Data are mean percent weight loss \pm standard deviation. Mean % changes were compared among groups on each day using a repeated measure (mixed) analysis of variance model since observations on the same animal over days are correlated. P values for comparing mean changes were determined to be significant using Tukey's adjusted criterion: *, P

Citation: Researchers develop a universal oral COVID-19 vaccine that prevents severe illness in hamsters (2023, March 22) retrieved 28 March 2023 from <https://medicalxpress.com/news/2023-03-universal-oral-covid-vaccine-severe.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.