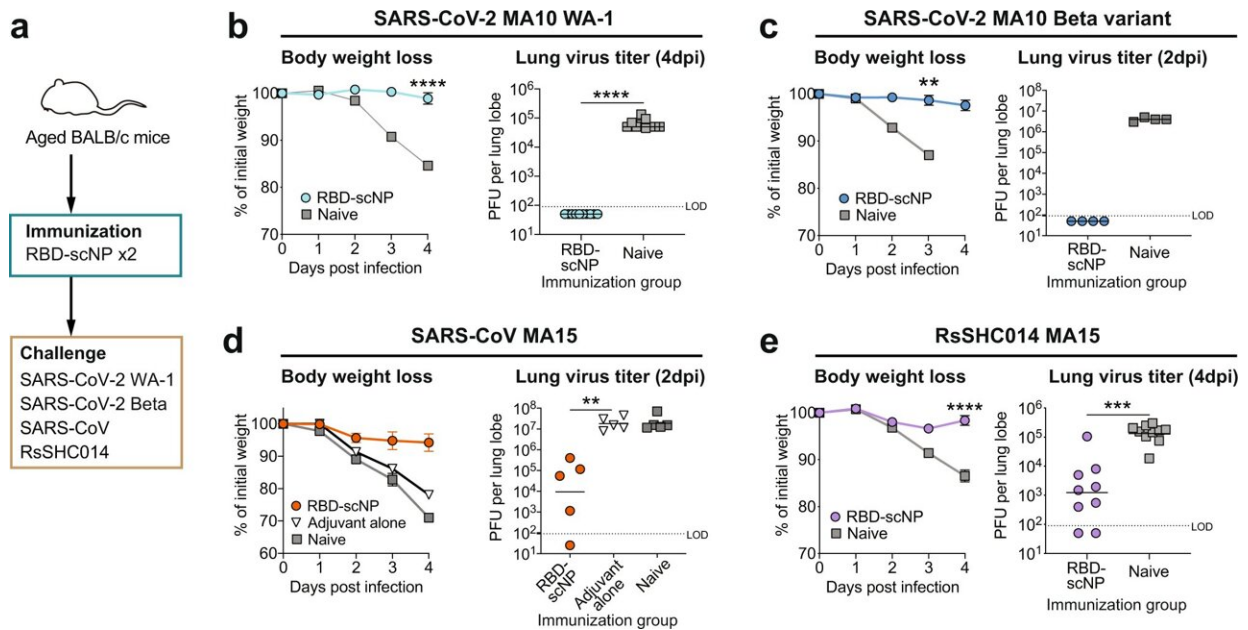


# New pan-coronavirus vaccine passes key experiments, demonstrates protection

October 28 2022, by Sarah Avery



Two doses of RBD-scNP vaccination protected mice from challenges of SARS-CoV-2 variants and other betacoronaviruses. a Schematic of the mouse challenge studies. 11-month-old female BALB/c mice (n = 10 per group) were immunized intramuscularly twice with adjuvanted RBD-scNP and challenged with SARS-CoV-2 mouse-adapted 10 (MA10) WA-1, SARS-CoV-2 MA10 Beta variant, SARS-CoV-1 mouse-adapted 15 (MA15), or Bat coronavirus (CoV) RsSHC014 MA15. GLA-SE was used as adjuvant in the SARS-CoV challenge study, and 3M-052-Alum was used in the other challenge studies. b Weight loss (n = 10 per group) and lung virus titers (n = 10 per group) at 4 days post-infection (dpi) of the SARS-CoV-2 MA10 WA-1 challenged mice. c Weight loss (n = 5 per group) and lung virus titers (n = 4 per group) at 2 dpi of the SARS-CoV-2 MA10 Beta variant challenged mice. d Weight loss (n = 10 per group) and lung virus titers (n

= 5 per group) at 2 dpi of the SARS-CoV-1 MA15 challenged mice. e Weight loss (n = 10 per group) and lung virus titers (n = 10 per group) at 4 dpi of the Bat CoV RsSHC014 MA15 challenged mice. For weight curves, data are presented as mean values  $\pm$ SEM. For lung virus titers, each dot indicates one mouse and bars indicate geometric mean values of each group. P-values: ns not significant, \*p

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