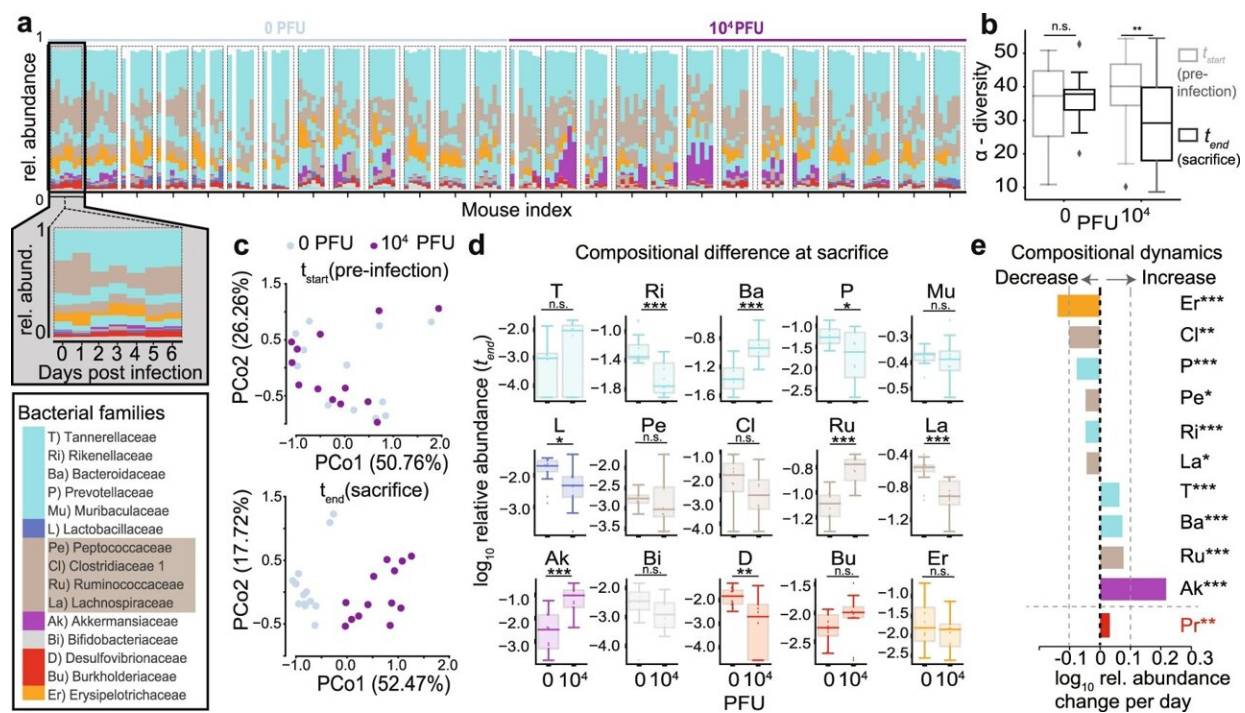


COVID-19 virus increases risk for other infections by disrupting normal mix of gut bacteria

November 1 2022



SARS-CoV-2 infection causes gut microbiome alterations in mice. K18-hACE2 mice were infected intranasally with 0 or 10⁴ PFU of SARS-CoV-2. Fecal samples for microbiome analyses were collected daily from day 0 (before infection) until sacrifice; mice were sacrificed on days 5–7. Results show pooled data from three independent experiments with n = 3–5 mice per group. a Timelines of fecal microbiota composition measured by 16S rRNA gene sequencing. Bars represent the composition of the 15 most abundant bacterial families in each sample for each day, blocks of samples correspond to an individual mouse's time course from day 0 to day 6, as exemplified for the first mouse. b α -

diversity (inverse Simpson index) per infection group in the beginning (t_{start} , $n = 13$ each for control and infected) and at the end (t_{end} , $n = 13$ each for control and infected) of the experiment (n.s.: non-significant, **: p

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