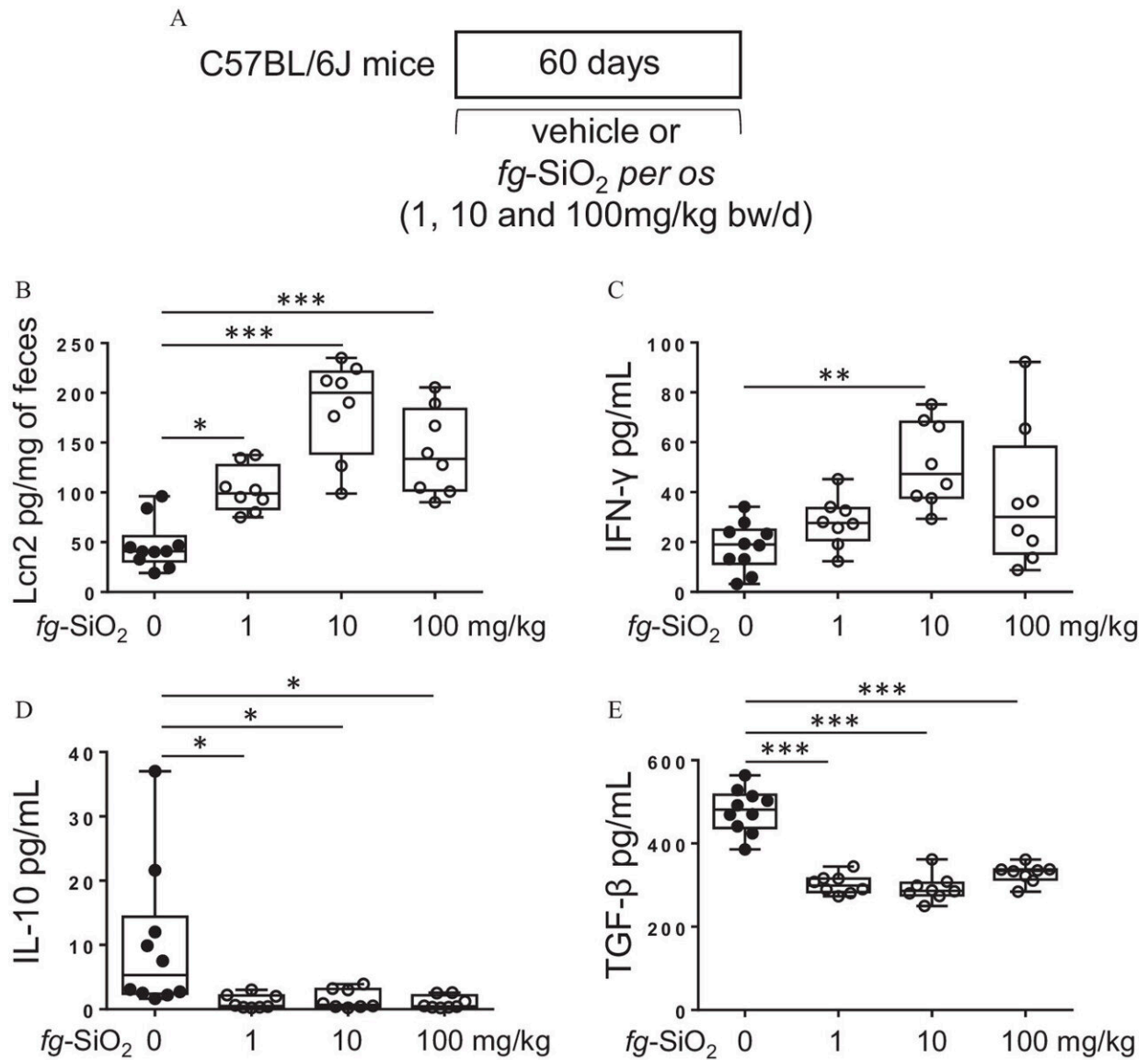


# Food additive E551 could promote celiac disease

February 21 2024



Intestinal immune response in mice after oral exposure to food-grade SiO<sub>2</sub>. (A)

The protocol for testing the effects on intestinal immune response of daily exposure of C57BL/6J mice to the vehicle (water) or to the food-grade SiO<sub>2</sub> (fg-SiO<sub>2</sub>; 1, 10, or 100mg/kg BW/d) through gavage. (B) Fecal lipocalin-2 (Lcn2) levels in mice orally exposed to food-grade SiO<sub>2</sub> (fg-SiO<sub>2</sub>) (n=8 mice per group) or to the vehicle (n=10) for 60 d. (C–E) Amounts of  $\gamma$ IFN- $\gamma$  (C), IL-10 (D), and  $\beta$ TGF- $\beta$  (E) secreted by mesenteric lymph node cells from mice orally exposed to fg-SiO<sub>2</sub> (n=8 mice per group) or to the vehicle (n=10) for 60 d. The data are expressed as median with interquartile range and whiskers extending from minimum to maximum  $\pm$  SEM. \*p

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