New study in mice suggests curbing intestinal inflammation can combat C. diff infection

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SP-mediated and CGRP-mediated neurogenic inflammation in a TcdB caecum injection model and in a CDI mouse model. a,b. Time course of histopathological changes after injection of TcdB into the caecum of mice. a. Representative micrographs of haematoxylin and eosin (H&E)-stained caecal tissues. b, Histopathology scores. Scoring criteria and the subcategories of histopathology scores are shown in Extended Data Fig. 1. n = 5, 6, 8 and 5 mice. c,d, TcdB was injected into the caecums of WT mice or the following KO mice:
Tac1, Nk1r, Calca or Calcb. e, Representative images of H&E staining. d, Histopathology scores. n = 25, 8, 7, 10 and 5 mice. e,f, CDI experiments were carried out on WT, Tac1 KO, Nk1r KO and Calcb KO mice. Colon tissues were collected and analyzed 48 h later. e, Representative images of H&E staining. f, Histopathology scores. n = 24, 20, 10 and 7 mice. Statistical analyses in b (P