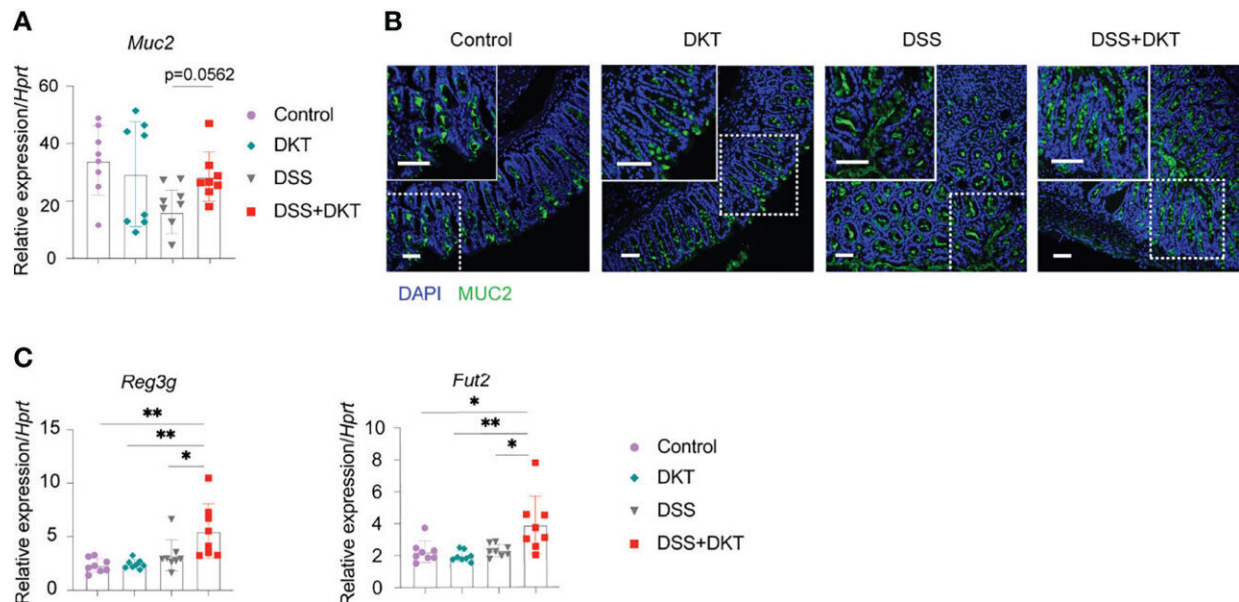


# How a Japanese herbal medicine protects the gut against inflammatory bowel disease

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DKT protects the integrity of colonic epithelium by upregulating Muc2, the antimicrobial peptide gene *Reg3* and the fucosyltransferase gene *Fut2*. (A) *Muc2* mRNA expression in the colonic enterocytes after colitis induction (N=8 per group). (B) Immunofluorescence images of MUC2 expression (green) and DAPI (blue) staining in the rectal colonic tissue (Control N=3, DKT N=3, DSS N=4, DSS+DKT N=4). Scale bars represent 50  $\mu$ m, inset scale bars represent 50  $\mu$ m. (C) *Reg3g* and *Fut2* mRNA expression in the colonic enterocytes after colitis induction (N=8 per group). Each symbol (A, C) represents data from an individual mouse. (A, C), results are pooled from two independent experiments with four mice in each experimental group and show means  $\pm$  SEM; \*p

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