

[Supplementary data to *Int. J. Mol. Sci.*]

# Promotion of Colitis in B-Cell-Deficient C57BL/6 Mice Infected with Enterotoxigenic *Bacteroides fragilis*

Minjeong Jo <sup>1,2,†</sup>, Soonjae Hwang <sup>1,3,†</sup>, Chang-Gun Lee <sup>1</sup>, Ju-Eun Hong <sup>1</sup>, Da-Hye Kang <sup>1</sup>, Sang-Hyeon Yoo <sup>1</sup>, Woo-Seung Kim <sup>1</sup>, Jung-Yoon Yoo <sup>1</sup> and Ki-Jong Rhee <sup>1,\*</sup>

<sup>1</sup> Department of Biomedical Laboratory Science, College of Software and Digital Healthcare Convergence, Yonsei University Mirae Campus, Wonju 26493, Republic of Korea; jominjeong@skku.edu (M.J.); soonjae@gachon.ac.kr (S.H.); cglee@yonsei.ac.kr (C.-G.L.); jehong@yonsei.ac.kr (J.-E.H.); loolzeo@gmail.com (D.-H.K.); yshyyb@yonsei.ac.kr (S.-H.Y.); redberry1245@yonsei.ac.kr (W.-S.K.); jy\_yoo@yonsei.ac.kr (J.-Y.Y.)

<sup>2</sup> Department of Molecular Cell Biology, Sungkyunkwan University School of Medicine, Suwon 16419, Republic of Korea

<sup>3</sup> Department of Biochemistry, Lee Gil Ya Cancer and Diabetes Institute, College of Medicine, Gachon University, Incheon 21999, Republic of Korea

\* Correspondence: kjrhee@yonsei.ac.kr

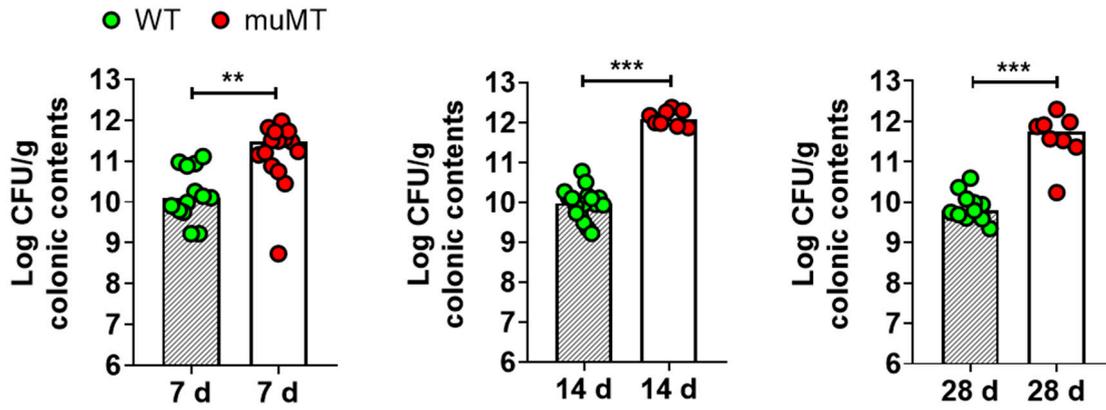
† These authors contributed equally.

**Supplementary Figure S1.** ETBF colonization in colon in ETBF-infected mice.

**Supplementary Figure S2.** Flow cytometry dot plot of mesenteric lymph nodes in mice.

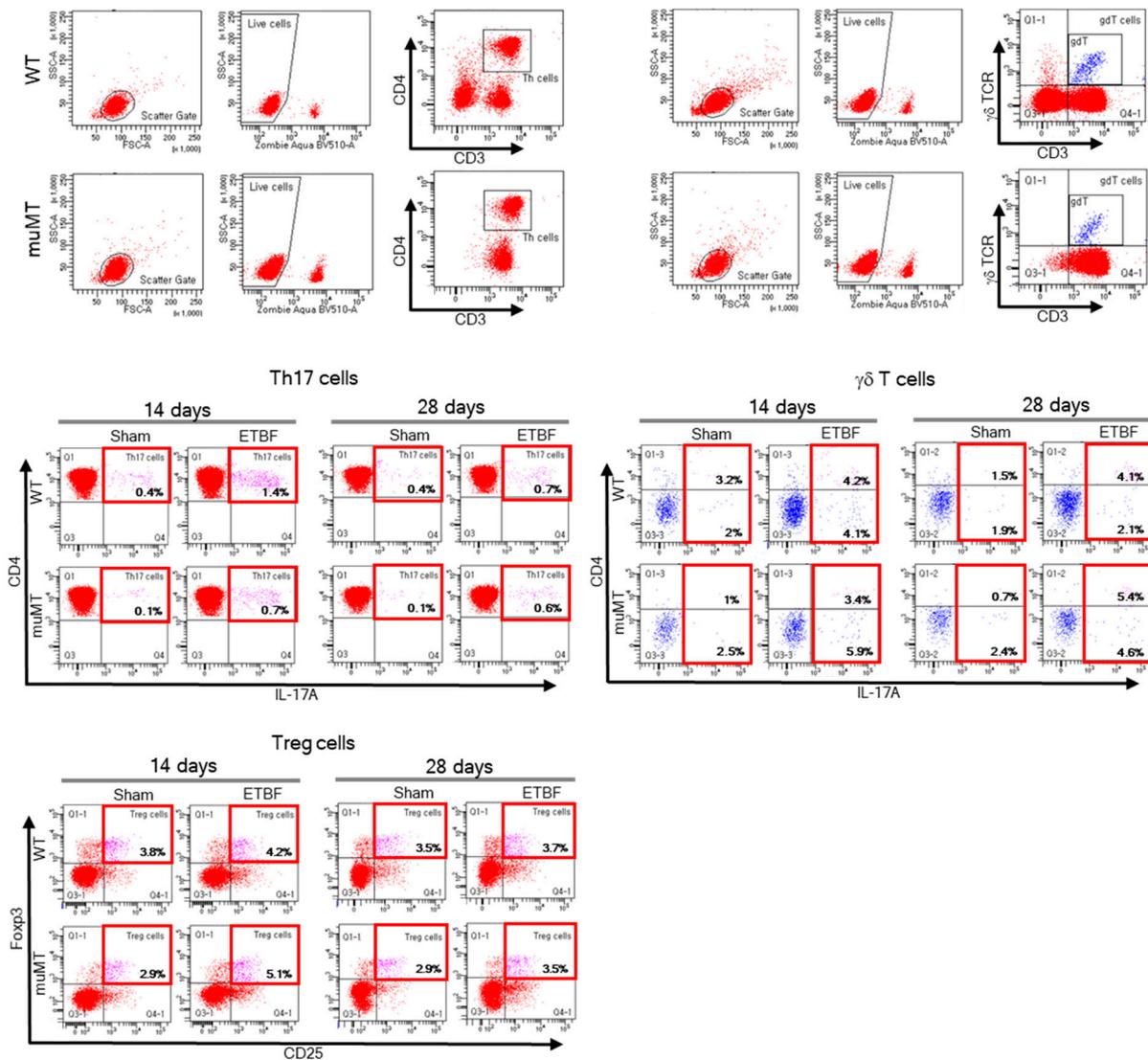
**Supplementary Table S1.** Histopathologic scoring of colon and ileum.

**Supplementary Table S2.** Probes for quantitative real-time PCR (TaqMan assay).



Supplementary Figure S1. ETBF colonization in colon of ETBF-infected mice.

Wild-type (WT) and muMT mice were infected with ETBF ( $1 \times 10^9$  CFU) for 28 days. ETBF colonization was assessed by bacterial culture of colonic contents at day 7, day 14 and day 28.  $**p < 0.01$ ,  $***p < 0.001$ , Mann-Whitney test. Each dot represents one mouse. The bar graph represents median.



**Supplementary Figure S2.** Flow cytometric dot plot of mesenteric lymph nodes in mice.

WT and muMT mice were infected with ETBF ( $1 \times 10^9$  CFU) for day 14 or day 28. The proportion of Th17, IL-17A secreting  $\gamma\delta$ T and Treg cells in the mesenteric lymph nodes was measured by flow cytometry. Representative flow cytometry dot plots are shown.

**Supplementary Table S1. Histopathology scoring of colon and ileum**

<b>Tissue</b>	<b>Category</b>	<b>Description</b>	<b>Score</b>
Colon, Ileum	Normal	Intact epithelium No crypt loss 85% < normal thickness of crypt length No infiltration of neutrophils	0
	Mild	Involvement of the lamina propria Crypt loss < 10% 70% < normal thickness of crypt length ≤ 85% Mild infiltration of neutrophils	1
	Moderate	Involvement of the submucosa 10% ≤ crypt loss < 30% 50% ≤ normal thickness of crypt length < 70% Moderate infiltration of neutrophils	2
	Severe	Transmural ulceration 30% < crypt loss Normal thickness of crypt length < 50% Severe infiltration of neutrophils	3

**Supplementary Table S2. Probes for qRT-PCR (TaqMan assay)**

<b>Gene symbol</b>	<b>Assay ID</b>
<i>KC (Cxcl1)</i>	Mm04207460_m1
<i>Il-6</i>	Mm00446190_m1
<i>Il-17A</i>	Mm00439618_m1
<i>Il-1-<math>\beta</math></i>	Mm00434228_m1
<i>Tnf-a</i>	Mm00443258_m1
<i>Nos2</i>	Mm00440502_m1
<i>GAPDH</i>	Mm99999915_g1
<i>GPR35</i>	Mm01973686_s1