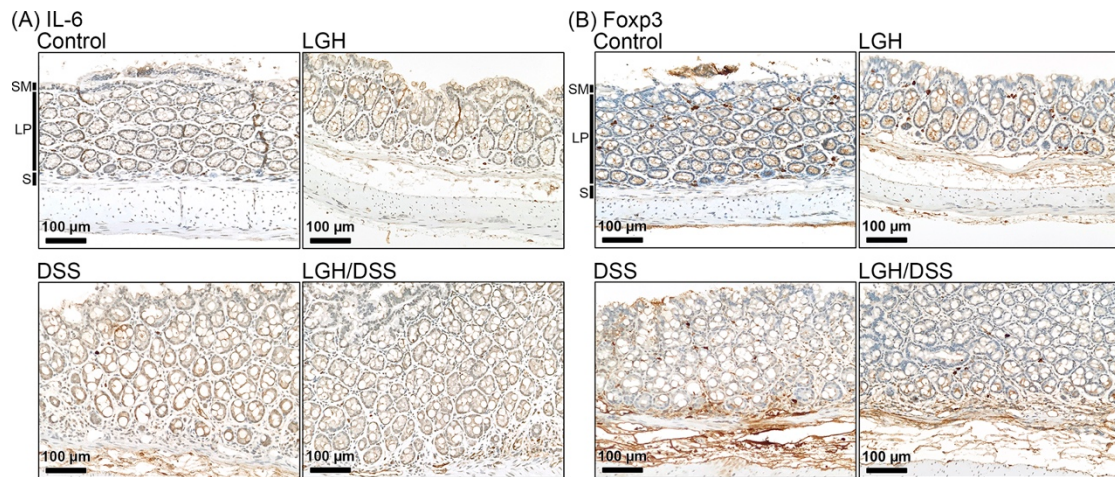


# Supplementary Figure



**Figure S1.** Representative immunohistochemical staining for the expression of IL-6 and Foxp3 in the colons of different groups. Colon tissue sections from control group (upper left panel), LGH group (upper right panel), DSS group (lower left panel), and LGH/DSS group (lower right panel) were stained with IL-6 (A) and Foxp3 (B). SM, superficial mucosa; LP, lamina propria; S, submucosa. DSS, dextran sodium sulfate; LGH, longish glucomannan hydrolysates. Scale bar, 100  $\mu$ m.

# Supplementary Tables

**Table S1.** IHC scoring scheme for cytokine expression.

| Signal intensity |             | Grade I | Cell expansion |         | Grade II |
|------------------|-------------|---------|----------------|---------|----------|
| Reactivity       | Chromophile |         | Extent         | Range   |          |
| Negative         | -           | 0       | Normal         | < 10%   | 0        |
| Light            | +           | 1       | Rare           | 10%–50% | 1        |
| Heavy            | ++          | 2       | Frequent       | > 50%   | 2        |

**Table S2.** Histological scoring scheme for colitis.

| Feature                 | Grade | Criterion                      |
|-------------------------|-------|--------------------------------|
| Inflammatory severity   | 0     | None                           |
|                         | 1     | Slight                         |
|                         | 2     | Moderate                       |
|                         | 3     | Severe                         |
| Inflammatory extent     | 0     | None                           |
|                         | 1     | Mucosa                         |
|                         | 2     | Mucosa and submucosa           |
|                         | 3     | Transmural                     |
| Epithelium regeneration | 0     | Complete regeneration          |
|                         | 1     | Partial regenerative of gland  |
|                         | 2     | Minimal regenerative change    |
|                         | 3     | No tissue repair               |
| Crypt damage            | 0     | None                           |
|                         | 1     | Basal 1/3 damaged              |
|                         | 2     | Basal 2/3 damaged              |
|                         | 3     | Only surface epithelium intact |
| Involvement             | Grade | Area                           |
|                         | 1     | 0%–25%                         |
|                         | 2     | 26%–50%                        |
|                         | 3     | 51%–75%                        |
|                         | 4     | 76%–100%                       |

Histological criteria were used to evaluate the inflammation. Involvement in quarter of 1–4 described the area percentage of the sample involved.

**Table S3.** Immunohistochemical evaluation of cytokine expression in colonic mucosa/submucosa.

| Cytokine      | Location        | Control |    |    |   |   | DSS |   |    |    |    | LGH |    |    |   |   | LGH/DSS |    |    |    |   |
|---------------|-----------------|---------|----|----|---|---|-----|---|----|----|----|-----|----|----|---|---|---------|----|----|----|---|
|               |                 | 0       | 1  | 2  | 3 | 4 | 0   | 1 | 2  | 3  | 4  | 0   | 1  | 2  | 3 | 4 | 0       | 1  | 2  | 3  | 4 |
| IL-6          | Mucosal surface | 9       | 18 | 3  | 0 | 0 | 0   | 6 | 7  | 12 | 5  | 17  | 9  | 4  | 0 | 0 | 21      | 9  | 0  | 0  | 0 |
|               | Lamina propria  | 0       | 12 | 16 | 2 | 0 | 0   | 8 | 12 | 6  | 4  | 0   | 19 | 11 | 0 | 0 | 0       | 21 | 5  | 4  | 0 |
|               | Submucosa       | 3       | 3  | 16 | 8 | 0 | 0   | 0 | 1  | 19 | 10 | 4   | 10 | 14 | 2 | 0 | 1       | 3  | 13 | 13 | 0 |
| TNF- $\alpha$ | Mucosal surface | 7       | 11 | 12 | 0 | 0 | 0   | 2 | 3  | 10 | 15 | 2   | 10 | 17 | 1 | 0 | 5       | 9  | 14 | 2  | 0 |
|               | Lamina propria  | 2       | 23 | 5  | 0 | 0 | 0   | 0 | 8  | 11 | 11 | 3   | 16 | 11 | 0 | 0 | 2       | 17 | 10 | 1  | 0 |
|               | Submucosa       | 25      | 4  | 1  | 0 | 0 | 0   | 1 | 17 | 6  | 6  | 26  | 4  | 0  | 0 | 0 | 15      | 10 | 5  | 0  | 0 |

Total 30 sections with IL-6 or TNF- $\alpha$  immunoactivity were randomly selected from colon samples of each group (Control, DSS, LGH, and LGH/DSS).

The IHC scoring scheme with levels of 0–4, as listed in Table S1, was evaluated. DSS, dextran sodium sulfate; LGH, longish glucomannan hydrolysates.