

Table S1. Conventional group experiment animal daily food intake after DSS induction

Days after DSS induction	0	1	2	3	4	5
Treatment groups	Food intake (g)/cage					
Control	10.26	14.82	10.53	9.66	10.15	7.94
DSS	11.02	13.98	6.43	4.26	2.33	0.86
A	10.64	13.96	8.02	8.29	6.94	4.84
B	11.11	13.12	8.49	9.04	6.60	5.22
C	10.42	12.33	7.53	8.83	5.86	4.15
D	10.55	12.59	9.24	9.14	7.03	5.01

Table S2. Conventional group experiment animal daily water intake after DSS induction

Days after DSS induction	0	1	2	3	4	5
Treatment groups	Water intake (g)/cage					
Control	13.49	28.95	14.87	13.38	12.56	14.44
DSS	17.65	27.65	20.83	14.55	14.07	17.67
A	11.19	22.37	18.60	14.30	12.22	10.25
B	12.53	26.09	21.95	17.78	13.63	10.65
C	12.73	23.03	17.49	16.04	11.47	10.71
D	12.87	22.73	18.07	16.55	12.43	8.11

Table S3. Antibiotics group experiment animal food intake after DSS induction

Days after DSS induction	3	5
Treatment groups	Food intake (g)/cage	
Control	10.36	7.33
DSS	10.43	3.74
A	10.98	5.65
B	8.94	3.81
C	9.53	5.08
D	8.82	4.93

Table S4. Antibiotics group experiment animal water intake after DSS induction

Days after DSS induction	3	5
Treatment groups	Water intake (g)/cage	
Control	16.72	14.90
DSS	20.49	12.54
A	15.12	11.47
B	14.20	11.11
C	16.00	12.04
D	15.92	14.48

Table S5. Conventional group experiment colon histology score

Category	Mucosal hyperplasia	Epithelial cell death	mono-nuclear infiltrate	PMN infiltrate	eosinophils	crypt architectural distortion/death	submucosa involvement	Sum
DSS	0.00	2.29	1.86	2.57	0.14	2.57	2.14	11.57
Control	0.00	1.29	0.29	0.00	0.00	0.14	0.00	1.71
A	0.00	1.29	0.86	1.43	0.43	1.14	0.86	6.00
B	0.00	1.57	1.00	1.71	0.14	2.00	1.00	7.43
C	0.00	0.86	0.14	0.43	0.00	0.43	0.14	2.00
D	0.00	0.29	0.29	0.57	0.14	0.71	0.29	2.29

Table S6. Antibiotics group experiment colon histology score

Category	Mucosal hyperplasia	Epithelial cell death	mono-nuclear infiltrate	PMN infiltrate	eosinophils	crypt architectural distortion/death	submucosa involvement	Sum
DSS	0.00	1.71	0.71	1.43	0.14	2.14	0.71	6.86
Control	0.00	1.00	0.17	0.00	0.00	0.17	0.00	1.33
A	0.00	1.43	0.43	0.86	0.00	1.29	0.29	4.29
B	0.00	1.43	0.43	0.86	0.00	2.00	0.86	5.57
C	0.00	1.57	0.29	0.43	0.29	2.00	0.29	4.86
D	0.00	0.71	0.43	0.43	0.29	0.43	0.43	2.71