

Supplemental file

Barley leaf ameliorates *Citrobacter rodentium*-induced colitis mainly through preventive effects

Yu Feng, Daotong Li, Chen Ma, Meiling Tian, Xiaosong Hu, Fang Chen*

This file includes:

Figure S1. Daily food consumption (A) and water intake (B) of each group;

Figure S2. (A) Representative H&E staining images of cecum tissues. Scale bar, 100 μ m.

(B) Histopathology score of cecal section

Figure S3. Taxonomic distributions of gut bacterial composition at the genus level;

Table S1. The nutritional composition of barley leaf.

Table S2. The macronutrient composition of chow diet (CD) and an isocaloric barley leaf-(BL) supplemented diet.

Correspondence: College of Food Science and Nutritional Engineering, China Agricultural University, No.17, QinghuaEast Road, Haidian District, Beijing100083, China.

E-mail: chenfangch@sina.com; **Tel./Fax:** +86-10-62737654 (ext 18).

Figure S1

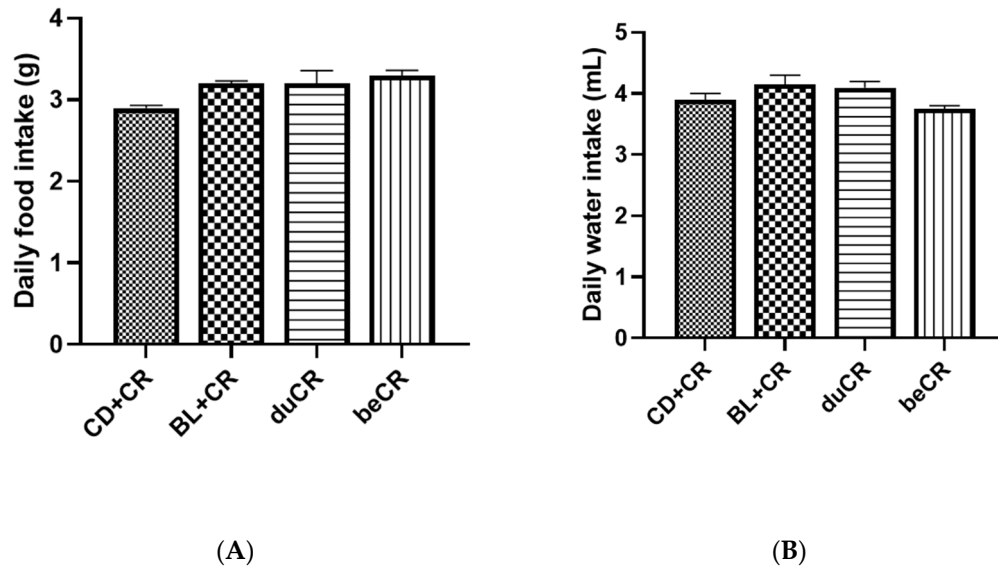


Figure S1 Daily food consumption (A) and water intake (B) of each group. Mice were fed with a standard chow diet (CD) or an isocaloric BL-supplemented diet for 3 weeks prior to the infection with *Citrobacter rodentium* (CR) for 10 days. (n = 6 per group). (A) Daily water intake and (B) daily food intake of CD- and BL-fed mice of each group. Data are mean \pm SEM. a, b means in the same bar without a common letter differ at $P < 0.05$.

Figure S2

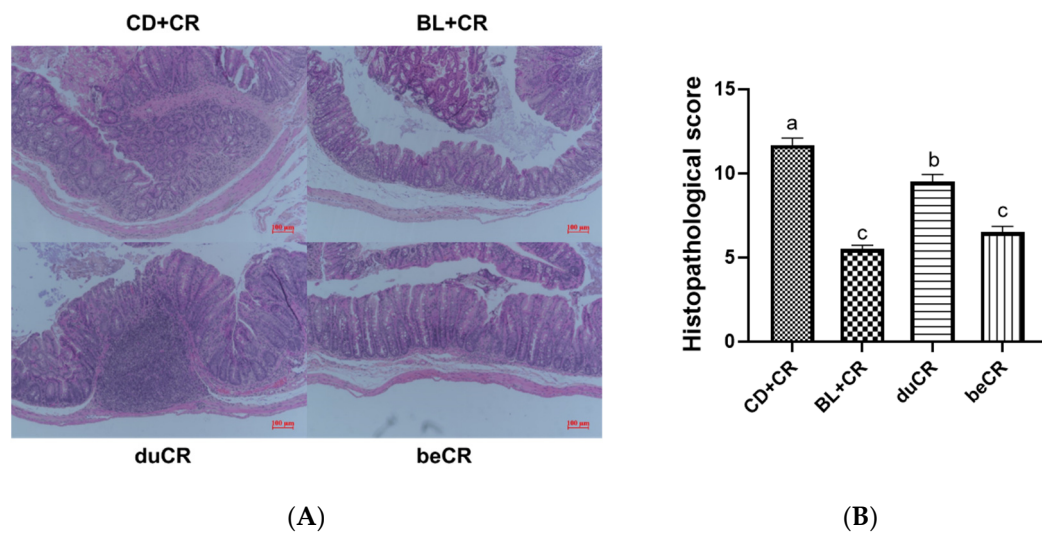


Figure S2 Effect of the beCR and duCR intervention on improving cecal histopathology. (A) Representative H&E staining images of cecum tissues. Scale bar, 100 µm. (B) Histopathology score of cecal section; All values are the mean ± SEM, n = 6 if not specified. a, b, c means in the same bar without a common letter differ at $P < 0.05$.

Figure S3

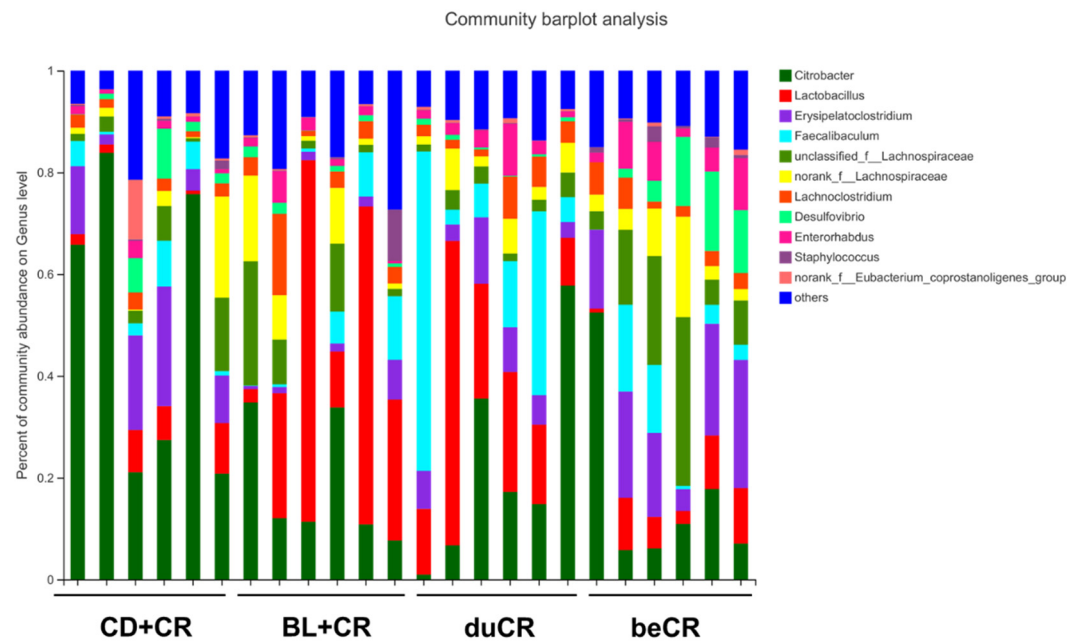


Figure S3 Effect of beCR and duCR treatment on regulating gut bacterial composition at the genus level. Each bar represents the taxonomic composition and relative abundance of an individual mouse at the genus level.

Table S1

Table S1. The nutritional composition of barley leaf.

	Unit (g/100g)
Protein	23.9
Fat	2.98
Carbohydrate	62.3
Soluble dietary fiber	< 0.01
Insoluble dietary fiber	53.6
Moisture	3.99
Ash	6.8

Table S2

Table S2. The macronutrient composition of chow diet (CD) and an isocaloric barley leaf-(BL) supplemented diet.

Ingredients (g/kg of diet)	Diets	
	CD	BL
BL	0	25
Casein	189.58	178.58
L-Cysteine	2.84	2.84
Corn Starch	298.59	280.59
Maltodextrin	33.18	33.18
Sucrose	331.77	327.77
Cellulose	47.40	47.40
Soybean oil	23.70	23.70
Lard	18.96	18.96
Mineral Mix M1002	9.48	9.48
DiCalcium Phosphate	12.32	12.32
Calcium Carbonate	5.21	5.21
Potassium Citrate	15.64	15.64
Vitamin mix V10001	9.48	9.48
Choline Bitartrate	1.90	1.90
Total	1000	1000