

Supplementary materials

Polysaccharides from seeds of *Gleditsia sinensis* Lam. attenuate colonic inflammation in DSS-induced mice via improving gut barrier homeostasis and alleviating gut microbiota dybiosis

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These two authors contributed equally to this work.

Table S1. Primer sequence used for RT-qPCR experiments

Genes	Gene ID	Forward primer	Reverse primer
<i>Muc2</i>	17831	TCATGACGTCTGGTGAATGG	AGCTTGTCGTGGCAGCTTGA
<i>Occludin</i>	18260	GGCAAGCGATCATACCAGAG	AGGCTGCCTGAAGTCATCCAC
<i>Claudin-1</i>	12737	AGTGCATGAGGTGCCTGGAAG	TGGCCACTAATGTCGCCAGA
<i>ZO-1</i>	21872	GACCAATAGCTGATGTTGCCAGAG	TATGAAGGCGAATGATGCCAGA
<i>Tff3</i>	21786	TGCTGCCATGGAGACCAGAG	GACATTTGCCGGCACCATAC
<i>IL-6</i>	16193	CTCAGCGCTGAGTTG	CCTGTAGCCCACGTCGTAGC
<i>IL-1β</i>	16176	GAGCACCTTCTTTTCCTTCATCTT	TCACACACCAGCAGGTTATCATC
<i>TNF-α</i>	21926	ACTGAACTTCGGGGTGATCG	GGCTACAGGCTTGCTCACTCG
<i>GAPDH</i>	14433	TGTGTCCGTCGTGGATCTGA	TTGCTGTTGAAGTCGCAGGAG

Table S2. List of antibodies

Name of Antibody	Catalog number	Concentration	Company
<i>Muc2</i>	27675-1-AP	IF: 1:1000	Proteintech Group
<i>ZO-1</i>	Ab221547	IF: 1:100	Abcam
Goat Anti-Rabbit IgG	Ab150077	IF: 1:400	Abcam

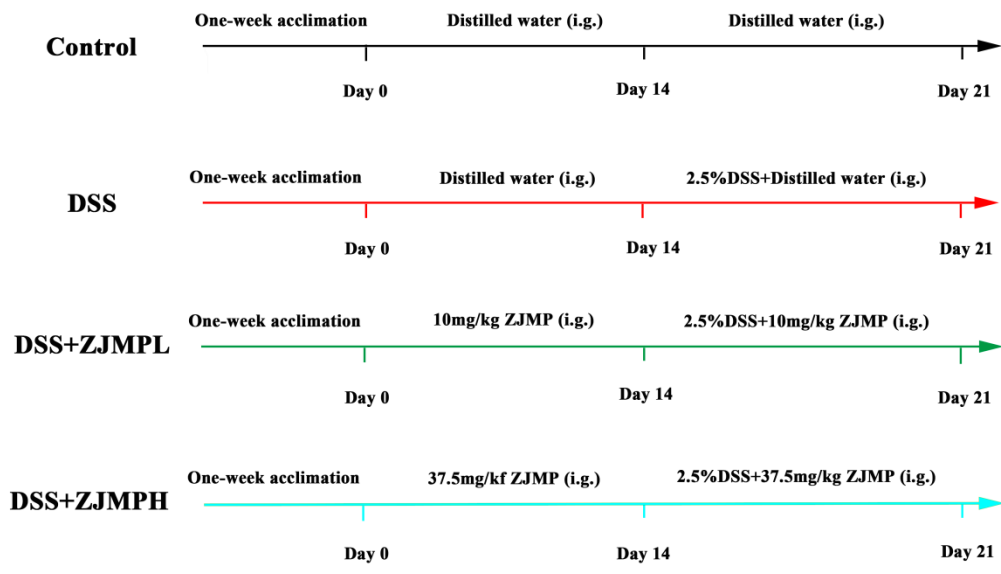


Figure S1. Study design for the whole experiment.

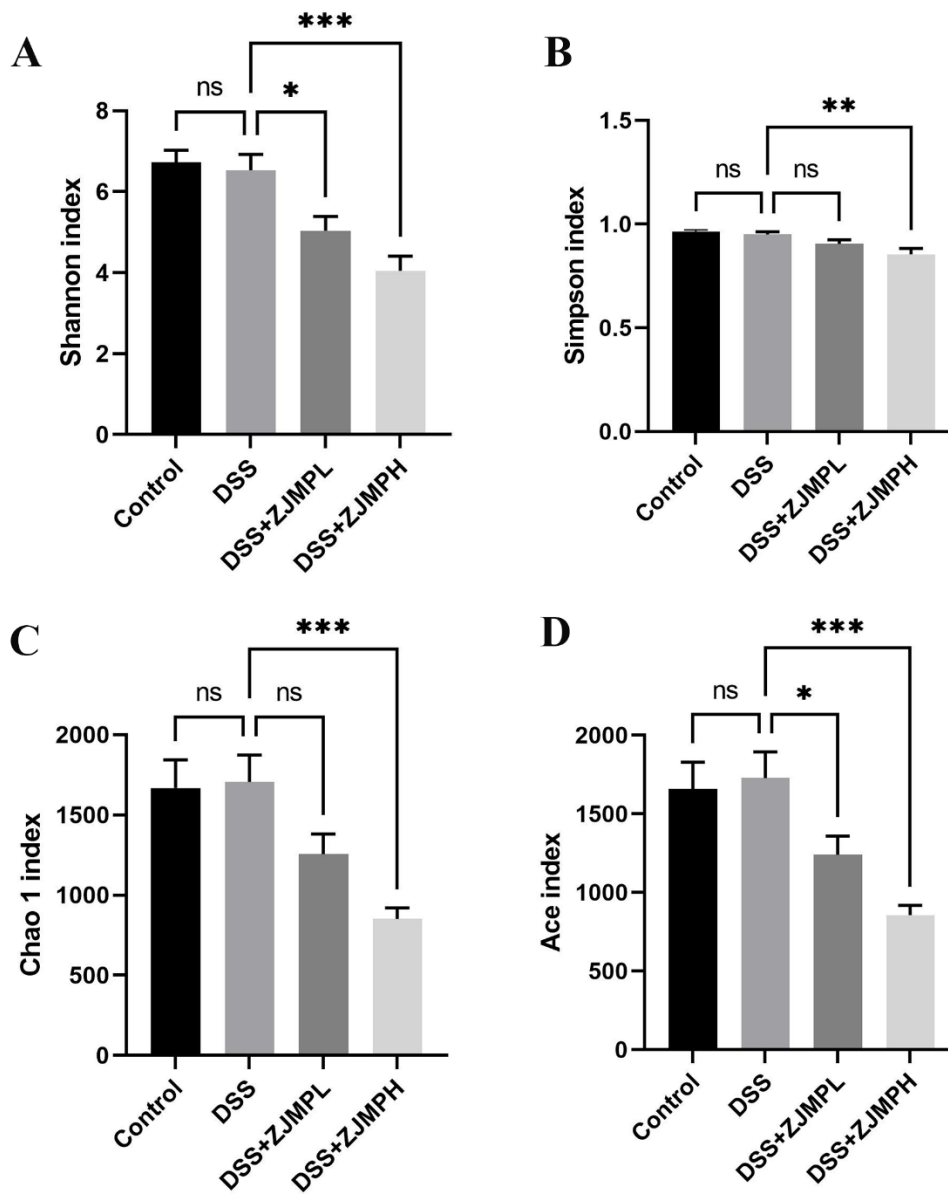


Figure S2. The impact of ZJMP on alpha diversity of fecal bacteria in different groups. (A) Shannon, (B) Simpson, (C) Chao 1, (D) Ace. All data are presented as mean \pm SEM, * $p < 0.5$, ** $p < 0.01$, *** $p < 0.001$ vs. DSS group.

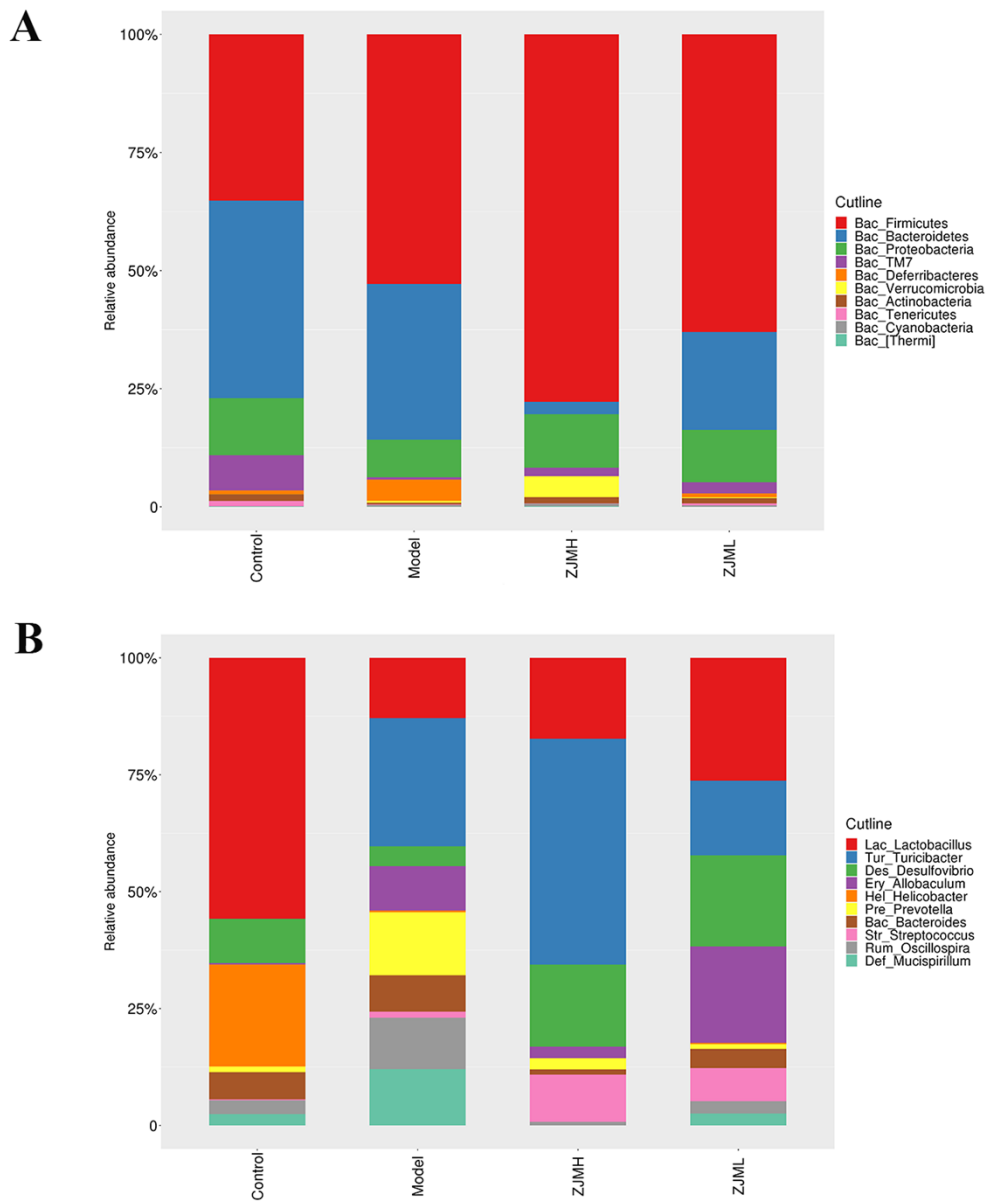


Figure S3. The impact of ZJMP on composition of gut microbiota. (A) Relative abundance at phylum level, (B) Relative abundance at genus level.