

Supplementary Material Table S1

Primers	Sequences
β -actin-forward primer	5'-ACATCCGTAAAGACCTCTATGCC-3'
β -actin-reverse primer	5'-TACTCCTGCTTGCTGATCCAC-3'
IL-1 β -forward primer	5'-GTGTCTTTCCCGTGGACCTTC-3'
IL-1 β -reverse primer	5'-TCATCTCGGAGCCTGTAGTGC-3'
IL-6-forward primer	5'- GAAATCGTGAAATGAG-3'
IL-6-reverse primer	5'-GCTTAGGCATAACGCACT-3'
TNF- α -forward primer	5'- GTGGAAGTGGCAGAAGAGGCA-3'
TNF- α -reverse primer	5'-AGAGGGAGGCCATTTGGGAAC-3'

Supplementary Material Table S2

Antibodies	Source/Cat. No.	Cat. No.
β -actin	CST	4970S
AMPK	Proteintech	66536-1-Ig
p-AMPK	CST	50081S
Sirt1	Abcam	ab110304
PI3K	Abcam	ab151549
p-PI3K	CST	17366S
AKT	CST	9272S
p-AKT	CST	4060S
Bax	CST	2772S
Bcl-2	CST	3498S
TLR4	Proteintech	66350-1-Ig
MyD88	CST	4283S
NF- κ B	CST	8242S
P-NF- κ B	CST	3033S
ZO-1	Proteintech	21773-1-AP
Occludin	Proteintech	13409-1-AP

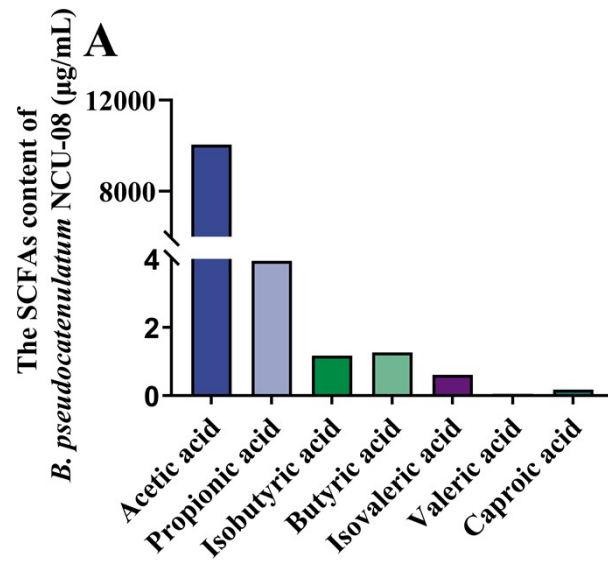


Figure S1. (A) Targeted metabolomics analysis of SCFAs in culture supernatants of *B. pseudocatenulatum* NCU-08 .