

Supplemental files

Ketogenic Diet Aggravates DSS-induced Colitis in Mice by Modulating Microbiota and Metabolism

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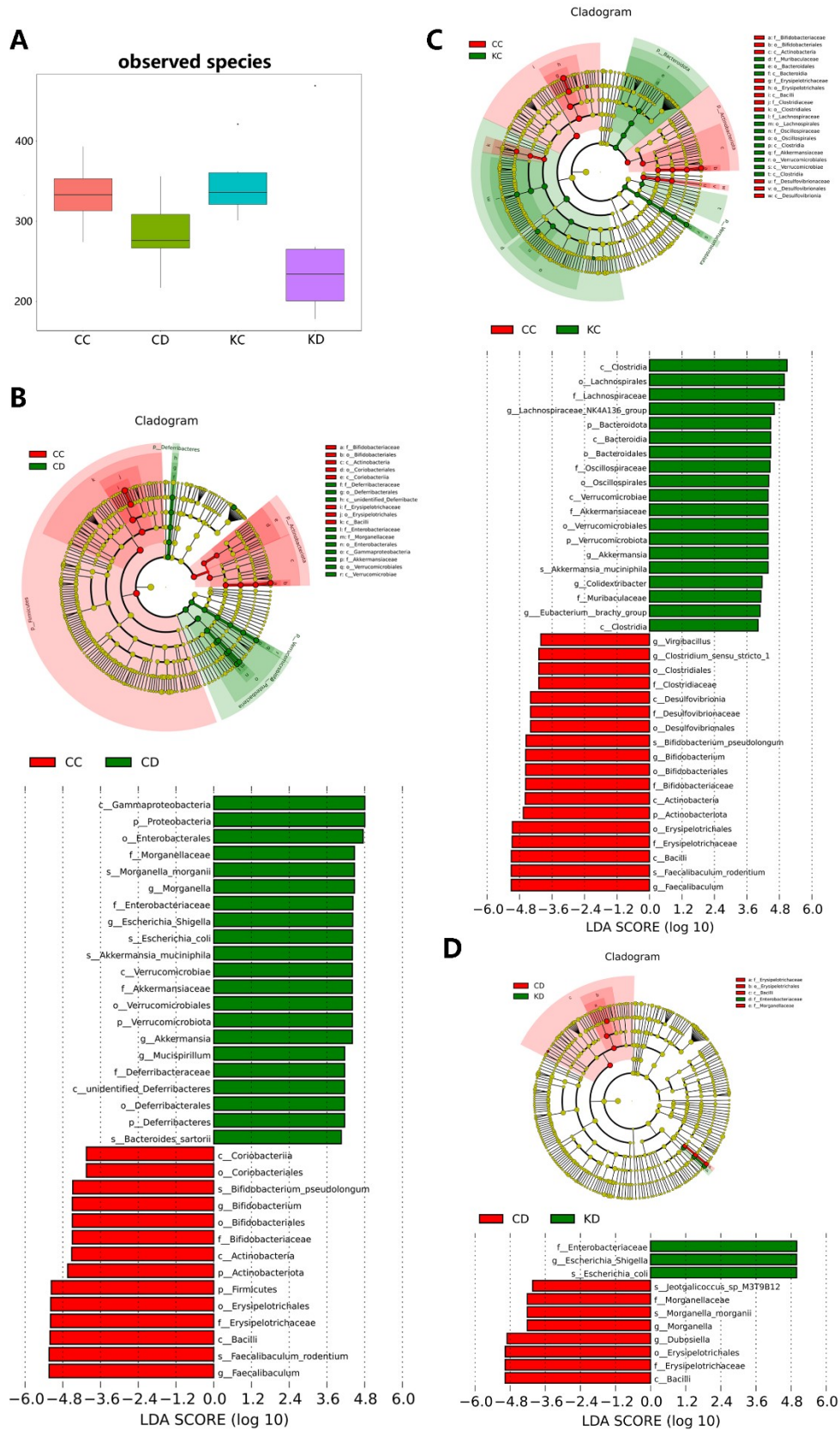
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Table S1 The detailed formula of ketogenic diet and the control diet.

Formula of Ketogenic Diet	g/Kg	Formula of Control Diet	g/Kg
Casein	173.3	Casein	100.0
DL-Methionine	2.6	DL-Methionine	1.6
Vegetable Shortening, hydrogenated	586.4	Vegetable Shortening, hydrogenated	25.0
Corn Oil	86.2	Corn Oil	25.0
Cellulose	87.97	Cellulose	34.918
Vitamin Mix, Teklad	13.0	Corn Starch	512.46
Choline Bitartrate	2.5	Maltodextrin	155.0
TBHQ, antioxidant	0.13	Sucrose	100.0
Mineral Mix, Ca-P Deficient	20.0	Vitamin Mix, AIN-93-VX w/Cellulose	15.0
Calcium Phosphate, dibasic	19.3	Thiamin (81%)	0.01
Calcium Carbonate	8.2	Vitamin K1, phylloquinone	0.002
Magnesium Oxide	0.4	Choline Bitartrate	2.5
		Mineral Mix, w/o Ca & P	13.39
		Calcium Phosphate, dibasic	9.8
		Calcium Carbonate	5.25
		TBHQ, antioxidant	0.07

Table S2 Primer pairs for Real-time Quantitative PCR analysis of indicated genes. *GADPH* was used as internal control.

Gene	Forward sequence (5'-3')	Reverse sequence (3'-5')
<i>GAPDH</i>	CCCTTAAGAGGGATGCTGCC	ACTGTGCCGTTGAATTTGCC
<i>IL-1β</i>	CCTGAACTCAACTGTGAAATGCC	CAGCTTCTCCACAGCCACAATGAG
<i>IL-6</i>	GGCGGATCGGATGTTGTGAT	GGACCCCAGACAATCGGTTG
<i>IL-10</i>	CAAGGAGCATTGAATTCCC	GGCCTTGTAGACACCTTGGTC
<i>IL-17</i>	TGAAAACACAGAAGTAACGTCCG	CCCAGGAGGAAATTGTAATGGGA
<i>TNF-α</i>	GGCCTCCCTCTCATCAGTTC	GGTTGTCTTTGAGATCCATGC
<i>ZO-1</i>	GCCGCTAAGAGCACAGCAA	GCCCTCCTTTTAACACATCAGA
<i>Occludin</i>	TGAAAGTCCACCTCCTTACAGA	CCGGATAAAAAGAGTACGCTGG



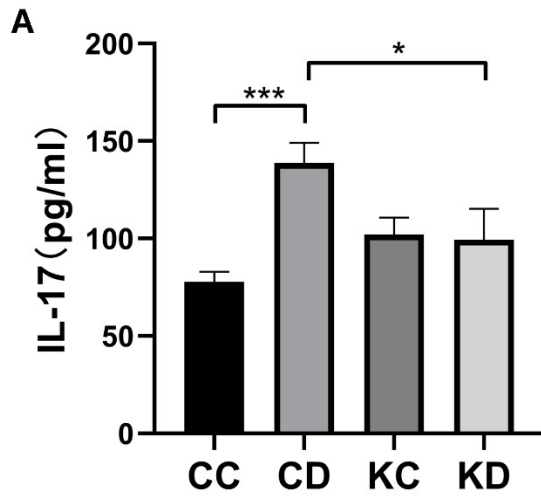


Figure S2. Ketogenic diet decreased the serum level of IL-17 in DSS-induced colitis. Data are shown as mean \pm SEM. * $p < 0.05$, *** $p < 0.001$.