

TABLE S1. Significant influences of two diets on the microbiota composition. W, Wilcoxon rank sum test; F, Fisher's exact test; n, number of mice underlying statistic calculation; SD, standard deviation; WD, Westernized diet; PD, plant-based diet.

Phylum level									
Phylum	<i>p</i> value (W)	<i>p</i> value (F)	WD			PD			
			mean [%]	n	SD [%]	mean [%]	n	SD [%]	
<i>Actinobacteria</i>	0.0242		1.79	8	1.53	0.32	3	0.21	
<i>Cyanobacteria</i>		0.0373	0.66	5	0.88		0		
<i>Deferribacteres</i>	0.0011	0.0013	2.98	12	1.43	0.35	4	0.28	
<i>Proteobacteria</i>	0.0001		5.17	12	2.05	2.11	11	0.56	
<i>Tenericutes</i>		0.0001		0		2.57	9	2.61	
Class level									
Phylum	Class	<i>p</i> value (W)	<i>p</i> value (F)	WD			PD		
				mean [%]	n	SD [%]	mean [%]	n	SD [%]
<i>Actinobacteria</i>	<i>Coriobacteriia</i>		0.0361	1.59	8	1.35	0.29	2	0.18
<i>Cyanobacteria</i>	<i>Melainabacteria</i>		0.0373	0.66	5	0.88		0	
<i>Deferribacteres</i>	<i>Deferribacteres</i>	0.0011	0.0013	2.98	12	1.43	0.35	4	0.28
<i>Proteobacteria</i>	<i>δ-Proteobacteria</i>	0.0013	0.0137	4.24	12	2.03	0.71	6	0.63
	<i>γ-Proteobacteria</i>		0.0137	0.46	6	0.30	1.24	11	0.63
<i>Tenericutes</i>	<i>Mollicutes</i>		0.0001		0		2.57	9	2.61
Family level									
Phylum	Family	<i>p</i> value (W)	<i>p</i> value (F)	WD			PD		
				mean [%]	n	SD [%]	mean [%]	n	SD [%]
<i>Actinobacteria</i>	<i>Atopobiaceae</i>		0.0272	1.48	7	1.34	0.26	1	
<i>Bacteroidetes</i>	<i>Marinifilaceae</i>		0.000	0.14	1		1.95	11	0.63
	<i>Muribaculaceae</i>	0.0156		32.42	12	4.71	43.01	11	11.18
	<i>Prevotellaceae</i>	0.0056		1.00	9	0.52	1.62	9	0.69
	<i>Rikenellaceae</i>	0.0156		15.50	12	6.51	9.92	11	1.76
	<i>Tannerellaceae</i>		0.0000	10.63	12	8.47	0.26	1	
<i>Cyanobacteria</i>	<i>unknown. Gastranaerophilales</i>		0.0373	0.66	5	0.88		0	
<i>Deferribacteres</i>	<i>Deferribacteraceae</i>	0.0011	0.0013	2.98	12	1.43	0.35	4	0.28

<i>Firmicutes</i>	<i>Lachnospiraceae</i>	0.0156		13.10	12	5.98	25.61	11	12.51
	<i>Ruminococcaceae</i>	0.0000		8.49	12	3.18	3.28	11	1.61
<i>Proteobacteria</i>	<i>Burkholderiaceae</i>		0.0046	0.39	5	0.25	1.17	11	0.59
	<i>Desulfovibrionaceae</i>	0.0013	0.0137	4.24	12	2.03	0.71	6	0.63
<i>Tenericutes</i>	<i>Anaeroplasmataceae</i>		0.0001		0		2.57	9	2.61
Genus level									
Phylum	Genus	<i>p</i> value (W)	<i>p</i> value (F)	WD			PD		
				mean [%]	n	SD [%]	mean [%]	n	SD [%]
<i>Bacteroidetes</i>	<i>Alistipes</i>		0.0225	14.18	12	6.33	9.08	11	1.64
	<i>Muribaculum</i>		0.0000		0		5.66	11	1.38
	<i>Odoribacter</i>		0.0000	0.14	1		1.95	11	0.63
	<i>Parabacteroides</i>		0.0000	10.63	12	8.47	0.26	1	
	<i>Prevotellaceae UCG-001</i>		0.0000		0		1.17	9	0.57
<i>Deferribacteres</i>	<i>Mucispirillum</i>	0.0011	0.0013	2.98	12	1.43	0.35	4	0.28
<i>Firmicutes</i>	<i>Blautia</i>	0.0044	0.0003	8.29	12	4.33	0.45	3	0.43
	<i>Faecalibaculum</i>	0.0030		3.09	12	2.01	1.00	8	0.50
	<i>Flavonifractor</i>		0.0006	1.27	11	0.50	0.28	2	0.26
	<i>Lachnospiraceae NK4A136 group</i>		0.0000	0.47	1		10.59	11	4.86
	<i>Lachnospiraceae UCG-006</i>		0.0000		0		2.30	10	1.39
	<i>Ruminiclostridium 9</i>	0.0138		1.45	12	0.54	0.86	10	0.32
	unbek. <i>Ruminiclostridium</i>	0.0012		2.87	11	2.11	0.80	7	0.47
<i>Turicibacter</i>		0.0123	0.17	2	0.18	0.84	8	0.58	
<i>Proteobacteria</i>	<i>Parasutterella</i>		0.0046	0.39	5	0.25	1.17	11	0.59
<i>Tenericutes</i>	<i>Anaeroplasma</i>	0.0001			0		2.57	9	2.61