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Supplementary Data

Table S1: Relative abundance of bacterial at the phylum level (%)

Taxonomy	Firmicutes	Proteobacteria	Cyanobacteria	Actinobacteria	Bacteroidetes	others
FM-1	1.46	96.53	1.60	0.22	0.18	0.00
FM-2	0.51	91.85	7.23	0.04	0.37	0.01
FM-3	0.36	97.77	1.61	0.05	0.21	0.01
FM-4	0.24	98.51	0.97	0.02	0.25	0.00
FM-5	3.77	69.94	25.83	0.07	0.37	0.02
C0N-1	66.12	13.30	19.54	0.65	0.24	0.14
C0N-2	82.89	14.85	0.51	1.08	0.27	0.39
C0N-3	87.90	10.34	0.35	0.98	0.24	0.19
C0N-4	90.89	7.54	0.68	0.56	0.16	0.19
C0N-5	85.09	12.86	0.67	0.93	0.36	0.10
LAB-1	91.39	7.22	1.03	0.22	0.10	0.04
LAB-2	90.21	6.51	1.79	0.84	0.34	0.31
LAB-3	87.47	10.14	0.50	0.69	0.62	0.58
LAB-4	95.15	3.70	0.15	0.45	0.29	0.26
LAB-5	85.00	10.05	1.20	0.94	1.19	1.62

Table S2: Relative abundance of bacterial at the genus level (%)

Taxonomy	Lactobacillus	Rosenbergiella	Klebsiella	Paenibacillus	Pantoea	norank_o__Chloroplast	Enterobacter	Gluconobacter	Weissella	Leuconostoc	Asaia	Lachnoclostridium_5	Kosakonia	Serratia	Lactococcus	Anaerocolumna	Lachnospirillum	norank_f__Mitochondria	Acinetobacter	Vibrio	Exiguobacterium	others
FM-1	0.07	58.50	11.27	0.07	11.28	1.60	1.55	4.53	0.00	0.02	4.43	0.00	1.84	1.05	0.00	0.00	0.00	0.04	0.02	0.00	0.00	3.72
FM-2	0.25	33.12	20.98	0.07	20.90	7.23	4.12	3.46	0.01	0.03	3.55	0.01	1.92	1.30	0.04	0.00	0.02	0.18	0.24	0.00	0.00	2.56
FM-3	0.18	44.35	13.47	0.07	18.84	1.61	2.79	7.81	0.00	0.01	4.88	0.03	1.61	1.45	0.01	0.00	0.00	0.03	0.33	0.00	0.00	2.51
FM-4	0.09	39.69	21.38	0.08	15.68	0.97	4.55	6.13	0.00	0.02	4.55	0.02	2.27	1.83	0.00	0.00	0.00	0.02	0.08	0.00	0.00	2.66
FM-5	0.78	9.72	29.85	0.06	8.79	25.83	4.80	1.98	0.04	0.59	1.88	0.01	5.53	2.82	2.20	0.00	0.00	0.20	2.01	0.00	0.00	2.92
CON-1	45.70	0.01	5.48	9.69	0.32	19.53	0.83	0.00	1.39	3.64	0.07	2.00	0.22	0.47	0.93	0.82	0.66	3.90	0.07	0.00	0.00	4.27
CON-2	56.32	0.01	9.31	12.67	0.71	0.51	1.03	0.01	3.04	4.29	0.04	1.90	0.36	0.91	1.05	1.34	1.02	0.02	0.09	0.00	0.00	5.37
CON-3	49.18	0.01	5.83	24.40	0.41	0.35	0.87	0.01	2.26	3.12	0.04	3.38	0.16	0.32	0.58	1.33	1.96	0.00	0.05	0.00	0.00	5.75
CON-4	60.23	0.00	5.39	22.91	0.13	0.68	0.37	0.01	1.00	2.51	0.02	1.54	0.09	0.10	0.50	0.73	0.61	0.07	0.10	0.00	0.00	3.01
CON-5	58.76	0.02	7.88	15.95	0.33	0.67	1.00	0.02	2.35	2.28	0.04	1.64	0.36	0.64	1.40	0.79	0.90	0.07	0.06	0.00	0.00	4.85
LAB-1	82.07	0.12	4.44	2.49	0.19	1.03	0.75	0.01	2.62	1.51	0.01	1.13	0.16	0.27	0.46	0.46	0.00	0.04	0.40	0.00	0.00	1.82
LAB-2	75.48	0.03	3.39	6.95	0.19	1.75	0.50	0.01	1.99	0.45	0.00	1.61	0.07	0.51	0.14	1.04	0.01	0.18	0.20	0.00	0.00	5.50
LAB-3	74.49	0.33	3.71	5.56	0.64	0.44	0.83	0.00	2.86	0.66	0.01	1.36	0.09	0.41	0.12	0.54	0.01	0.00	0.42	0.00	0.00	7.52
LAB-4	86.53	0.02	1.72	3.98	0.09	0.14	0.56	0.00	1.60	0.33	0.01	0.82	0.06	0.10	0.06	0.40	0.00	0.00	0.09	0.00	0.02	3.48
LAB-5	72.58	0.02	3.21	3.56	0.15	0.82	1.13	0.00	3.23	1.27	0.02	0.66	0.22	0.60	0.27	0.30	0.00	0.01	0.35	1.55	1.37	8.68