

Figure S1. Relative abundance at the phylum level as revealed by 16S ribosomal RNA gene sequencing. Each column represents a group and different colours indicate different phylum among the microbiota. The 10 most abundant phylum are listed. C, healthy control; T0, T1, T2 and T3, patients with type 2 diabetes mellitus at the initial diagnosis and after 1, 3 and 6 months of treatment, respectively.

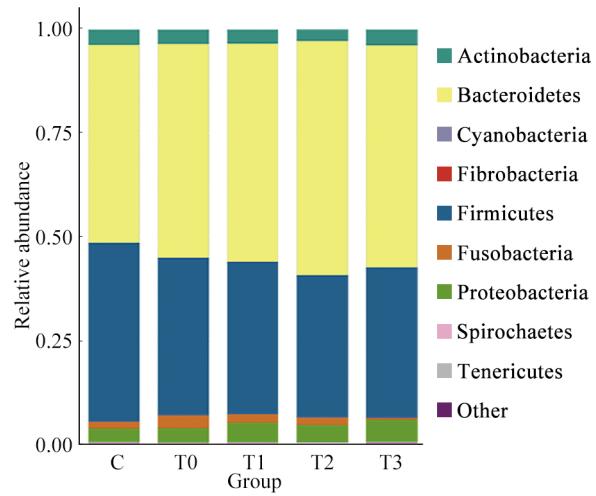


Table S1. Basic information of T2DM patients and healthy individuals.

Group/patient ID	Gender (male/ female, n)	Age (years)	FPG (mmol/l)	2hPG (mmol/l)	HbA1c (%)	BMI (kg/m <sup>2</sup> )	Chronic diseases	Family history
Healthy individuals	8/8	51.55±6.23	4.86±0.33	6.5±0.5	5.6±0.4	22.5±1.3		
1	Female	52	4.85	6.5	5.2	21.2	N/A	N/A
2	Female	48	4.94	6.8	5.6	20.7	N/A	N/A
3	Female	48	4.53	6.5	5.3	23.1	N/A	N/A
4	Male	50	5.08	6.7	5.2	24.5	N/A	N/A
5	Female	52	4.76	5.8	5.9	21.5	N/A	N/A
6	Male	66	4.29	6.2	5.7	22.3	N/A	N/A
7	Male	45	4.61	6.2	5.2	22.0	N/A	N/A
8	Female	48	4.84	5.6	5.8	24.1	N/A	N/A
9	Female	58	4.92	6.7	5.3	22.2	N/A	N/A
10	Male	45	5.00	5.9	5.6	22.8	N/A	N/A
11	Female	55	5.10	6.8	5.8	21.3	N/A	N/A
12	Male	45	4.47	6.9	5.7	23.5	N/A	N/A
13	Female	48	4.45	6.2	5.2	22.8	N/A	N/A
14	Male	50	5.34	6.9	5.7	25.0	N/A	N/A
15	Male	47	5.21	7.2	5.3	20.9	N/A	N/A
16	Male	51	5.40	7.3	5.2	22.3	N/A	N/A
T2DM patients	9/7	50.25±4.95	8.05±0.47	12.5±0.5	6.8±0.3	26.4±0.8		
1	Male	46	8.44	12.7	7.1	25.2	N/A	N/A
2	Female	51	8.25	12.6	6.9	26.3	N/A	N/A
3	Male	51	8.23	12.5	6.9	26.5	N/A	N/A
4	Male	57	7.67	12.3	6.6	26.1	Hypertension	Father: Hypertension
5	Female	51	8.71	13.0	7.2	25.2	N/A	N/A
6	Male	49	7.15	12.5	6.3	26.5	Hypertension/ hyperlipidemia	N/A
7	Female	47	8.32	13.6	7.0	25.3	Chronic gastritis	N/A
8	Female	53	8.27	11.6	7.0	27.6	Hypertension/ hyperlipidemia	Father: Hypertension
9	Male	42	8.13	12.1	6.9	27.5	N/A	N/A
10	Male	53	8.22	12.4	6.9	25.9	N/A	N/A
11	Female	63	7.56	12.7	6.5	27.4	Hypertension	Brother: Hypertension
12	Male	50	7.97	12.9	6.8	26.2	N/A	N/A
13	Female	44	7.23	11.8	6.3	25.4	Hypertension	N/A
14	Male	60	8.62	12.3	7.2	26.8	Mother: Hypertension	Mother: Hypertension
15	Female	53	8.37	12.4	7.0	27.0	Hypertension	N/A
16	Male	50	7.64	12.4	6.6	27.2	Hypertension	N/A

FPG, fasting plasma glucose; 2hPG, 2-h plasma glucose; HbA1c, glycosylated hemoglobin A1c; BMI, body mass index; N/A, not available; T2DM, type 2 diabetes mellitus.