

Supplementary Table S2. Clustering analysis results for (A) phylum, (B) family and (C) genus taxonomic levels. The mean relative abundance of each taxon in each cluster is shown.

A PHYLUM	Cluster 1	Cluster 2
	Relative abundance mean	Relative abundance mean
<i>Firmicutes</i>	78.51	57.51
<i>Proteobacteria</i>	12.91	26.74
<i>Actinobacteria</i>	6.31	4.60
<i>Bacteroidetes</i>	2.08	7.84
<i>Tenericutes</i>	0.00	2.69

B FAMILY	Cluster 1	Cluster 2
	Relative abundance mean	Relative abundance mean
<i>Peptoniphilaceae</i>	66.92	17.69
<i>Staphylococcaceae</i>	4.63	10.52
<i>Campylobacteraceae</i>	4.13	7.99
<i>Corynebacteriaceae</i>	2.86	1.65
<i>Veillonellaceae</i>	2.75	3.04
<i>Propionibacteriaceae</i>	2.34	1.12
<i>Enterococcaceae</i>	2.27	2.53
<i>Streptococcaceae</i>	1.88	7.12
<i>Prevotellaceae</i>	1.71	8.60
<i>Actinomycetaceae</i>	1.27	1.31
<i>Moraxellaceae</i>	0.77	2.02
<i>Enterobacteriaceae</i>	0.76	3.58
<i>Burkholderiaceae</i>	0.75	2.64
<i>Caulobacteraceae</i>	0.72	1.42
<i>Aerococcaceae</i>	0.64	1.34
<i>Lactobacillaceae</i>	0.17	7.68
<i>Bacillaceae</i>	0.10	4.23
<i>Pasteurellaceae</i>	0.00	2.53
<i>Mycoplasmataceae</i>	0.00	2.86

C GENUS	Cluster 1	Cluster 2
	Relative abundance mean	Relative abundance mean
<i>Peptoniphilus</i>	24.53	5.85
<i>Finegoldia</i>	21.90	6.33
<i>Anaerococcus</i>	10.13	2.63
<i>Staphylococcus</i>	4.31	9.55
<i>Campylobacter</i>	3.67	6.52
<i>Corynebacterium</i>	2.72	1.47
<i>Ezakiella</i>	2.67	3.83
<i>Enterococcus</i>	2.22	2.33
<i>Streptococcus</i>	1.87	6.83
<i>Cutibacterium</i>	1.80	0.76
<i>Prevotella</i>	1.56	7.18
<i>Dialister</i>	0.99	2.22
<i>Ralstonia</i>	0.68	2.21
<i>Moraxella</i>	0.50	1.71
<i>Lactobacillus</i>	0.15	6.41
<i>Bacillus</i>	0.04	3.36
<i>Haemophilus</i>	0.00	1.96
<i>Ureaplasma</i>	0.00	2.77