

### **3 Biotech**

#### **Prokaryotic diversity and biochemical properties in aging artificial pit-mud used for production of Chinese Strong Flavor Liquor**

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## Supplementary materials

### Tables

Table S1 Statistical information of sequencing dataset

Sample Name	Raw PE	Qualified	Avg. Len (nt)	Q20	Q30	GC%	Effective %
NS1.1	64,493	60,530	253	99.2	98.56	54.54	87.91
NS1.2	35,455	32,795	253	99.54	99.07	53.51	88.98
NS1.3	106,644	85,386	253	99.48	98.96	53.78	75.52
OS1.1	44,159	38,262	254	99.09	98.35	53.34	76.7
OS1.2	103,149	80,706	253	99.56	99.08	53.31	76.48
OS1.3	78,161	71,683	253	99.57	99.12	53.69	89.59

Table S2 Quantification of three cultivable bacterial groups in pit-mud on agar plate

Samples*	NS1.1	NS1.2	NS1.3	OS1.1	OS1.2	OS1.3
Lactobacilli	20.63±0.2	18.12±0.8	19.67±0.3	66.3±0.5	60.4±0.1	71.5±0.4
Clostridia	3.52±0.3	3.45±0.5	3.61±0.8	3.01±0.4	3.18±0.2	3.19±0.6
Aerobic spore forming bacteria	36.25±0.6	39.13±0.1	32.85±0.3	81.5±0.1	78.0±0.2	80.2±0.5

All data are presented as means ± standard deviations (n = 3), \* 10<sup>5</sup>cfu per gram of wet pit-mud.

## Figures

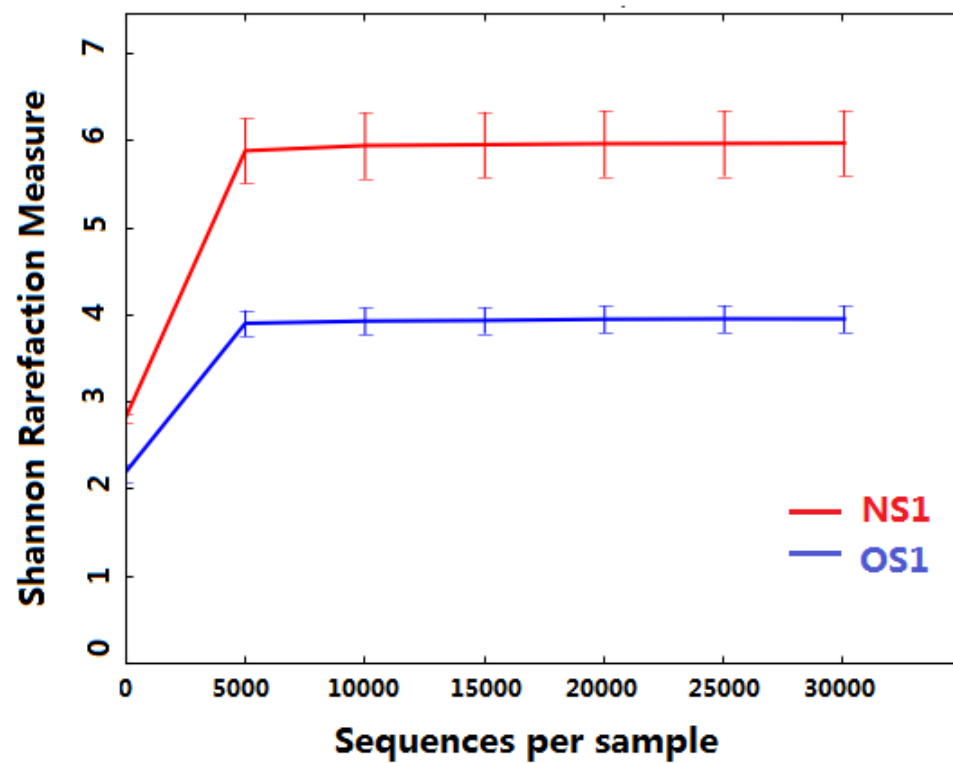


Fig. S1 Shannon rarefaction curves of different samples

NS1 is high quality pit-mud, including samples NS1.1, NS1.2, NS1.3; OS1 is aging low quality pit-mud, including samples OS1.1, OS1.2, OS1.3.

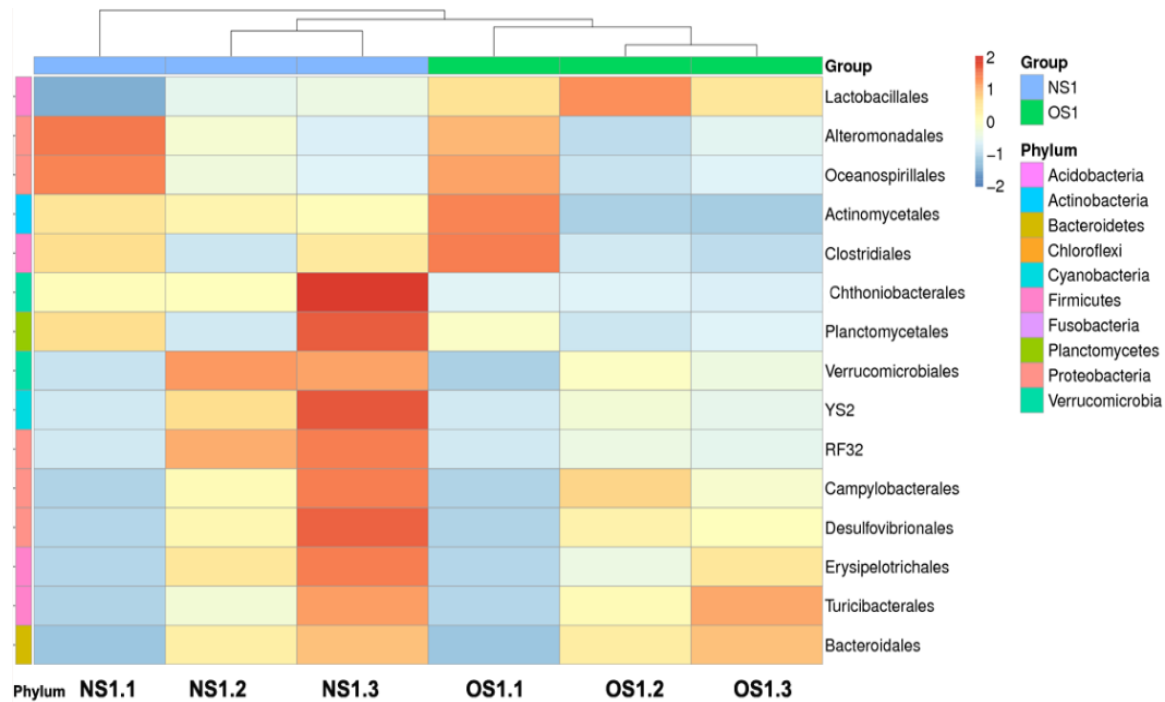


Fig. S2 Heatmap of top 15 orders in each sample

The top 15 most-abundant orders in each sample were selected and compared with their abundances (log scale) in other samples. NS1 are high quality pit-mud, including samples NS1.1, NS1.2, NS1.3; OS1 are aging low quality pit-mud, including samples OS1.1, OS1.2, OS1.3.

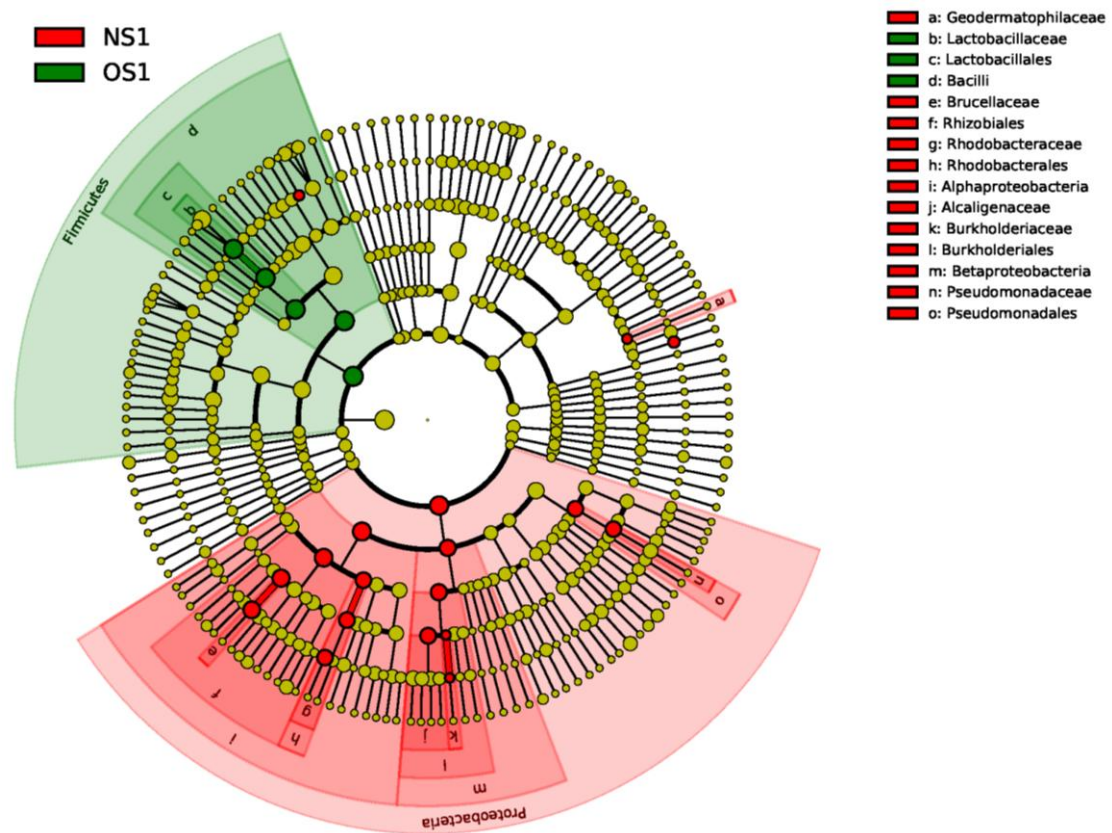


Fig. S3 Cladogram of the different biomarkers in two kinds of pit-mud by Linear discriminated analysis Effect Size (LEfSe)

NS1 are high quality pit-mud, including samples NS1.1, NS1.2, NS1.3; OS1 are aging low quality pit-mud, including samples OS1.1, OS1.2, OS1.3.

## Datasets

### Dataset 1 Statistical analysis of community composition in phylum level

Taxa	mean(NS1)	variance	STDEV	mean(OS1)	variance	STDEV	p value	q value
k_Bacteria;p_Firmicutes;	0.4840	0.0046	0.0390	0.8362	0.0002	0.0080	0.0000	0.0000
k_Bacteria;p_Proteobacteria;	0.4159	0.0082	0.0523	0.0840	0.0014	0.0216	0.0040	0.0545
k_Bacteria;p_Bacteroidetes;	0.0591	0.0023	0.0276	0.0578	0.0025	0.0291	0.9398	1.0000
k_Bacteria;p_Actinobacteria;	0.0183	0.0000	0.0014	0.0116	0.0002	0.0089	0.4866	0.6569
k_Bacteria;p_Fusobacteria;	0.0022	0.0000	0.0018	0.0004	0.0000	0.0003	0.3813	0.6088
k_Bacteria;p_Verrucomicrobia;	0.0036	0.0000	0.0011	0.0006	0.0000	0.0001	0.0190	0.1710
k_Bacteria;p_Gemmatimonadetes;	0.0028	0.0000	0.0010	0.0009	0.0000	0.0001	0.0965	0.3400
k_Bacteria;p_Acidobacteria;	0.0027	0.0000	0.0007	0.0012	0.0000	0.0002	0.0661	0.2975
k_Bacteria;p_Tenericutes;	0.0017	0.0000	0.0005	0.0016	0.0000	0.0011	0.8834	1.0000
k_Bacteria;p_Planctomycetes;	0.0022	0.0000	0.0011	0.0004	0.0000	0.0003	0.1653	0.4098
k_Bacteria;p_Cyanobacteria;	0.0020	0.0000	0.0007	0.0004	0.0000	0.0002	0.0621	0.2975
k_Bacteria;p_Chloroflexi;	0.0018	0.0000	0.0005	0.0004	0.0000	0.0001	0.0465	0.2975
k_Bacteria;p_BRC1;	0.0005	0.0000	0.0003	0.0001	0.0000	0.0001	0.1933	0.4098
k_Bacteria;p_Deferribacteres;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.3854	0.6088
k_Bacteria;p_TM6;	0.0002	0.0000	0.0002	0.0001	0.0000	0.0001	0.4385	0.6231
k_Archaea;p_Crenarchaeota;	0.0003	0.0000	0.0001	0.0001	0.0000	0.0001	0.2932	0.5654
k_Bacteria;p_Nitrospirae;	0.0001	0.0000	0.0000	0.0003	0.0000	0.0001	0.4059	0.6088
k_Bacteria;p_Chlamydiae;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.1133	0.3400
k_Bacteria;p_Synergistetes;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.3255	0.5859
k_Bacteria;p_Armatimonadetes;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8152	1.0000
k_Bacteria;p_TM7;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1973	0.4098
k_Bacteria;p_Lentisphaerae;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1973	0.4098
k_Bacteria;p_WPS-2;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1133	0.3400
k_Archaea;p_Euryarchaeota;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_GAL15;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_AD3;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
Others	0.0018	0.0000	0.0005	0.0036	0.0000	0.0029	0.5908	0.7595

## Dataset 2 Statistical analysis of community composition in class level

Taxa	mean(NS1)	variance	STDEV	mean(OS1)	variance	STDEV	p value	q value
k_Bacteria;p__Firmicutes;c__Bacilli;	0.3377	0.0016	0.0229	0.7133	0.0238	0.0891	0.0144	0.4551
k_Bacteria;p__Proteobacteria;c__Alphaproteobacteria;	0.2896	0.0076	0.0503	0.0650	0.0013	0.0209	0.0108	0.4551
k_Bacteria;p__Firmicutes;c__Clostridia;	0.1449	0.0077	0.0506	0.1222	0.0218	0.0852	0.8569	0.9816
k_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;	0.0659	0.0054	0.0423	0.0077	0.0000	0.0039	0.2412	0.5505
k_Bacteria;p__Bacteroidetes;c__Bacteroidia;	0.0568	0.0025	0.0291	0.0575	0.0026	0.0293	0.9715	1.0000
k_Bacteria;p__Proteobacteria;c__Betaproteobacteria;	0.0508	0.0011	0.0192	0.0073	0.0000	0.0022	0.0661	0.5058
k_Bacteria;p__Actinobacteria;c__Actinobacteria;	0.0172	0.0000	0.0014	0.0109	0.0002	0.0091	0.5749	0.7391
k_Bacteria;p__Proteobacteria;c__Deltaproteobacteria;	0.0064	0.0000	0.0022	0.0017	0.0000	0.0003	0.0803	0.5058
k_Bacteria;p__Proteobacteria;c__Epsilonproteobacteria;	0.0031	0.0000	0.0019	0.0023	0.0000	0.0013	0.7728	0.9016
k_Bacteria;p__Fusobacteria;c__Fusobacteriia;	0.0022	0.0000	0.0018	0.0004	0.0000	0.0003	0.3906	0.6603
k_Bacteria;p__Verrucomicrobia;c__[Spartobacteria];	0.0021	0.0000	0.0009	0.0001	0.0000	0.0000	0.0768	0.5058
k_Bacteria;p__Planctomycetes;c__Planctomycetia;	0.0021	0.0000	0.0011	0.0003	0.0000	0.0003	0.1640	0.5505
k_Bacteria;p__Tenericutes;c__CK-1C4-19;	0.0011	0.0000	0.0003	0.0012	0.0000	0.0010	0.8971	1.0000
k_Bacteria;p__Cyanobacteria;c__4C0d-2;	0.0014	0.0000	0.0008	0.0003	0.0000	0.0002	0.2143	0.5505
k_Bacteria;p__Firmicutes;c__Erysipelotrichi;	0.0013	0.0000	0.0007	0.0007	0.0000	0.0004	0.5284	0.7237
k_Bacteria;p__Bacteroidetes;c__[Saprosirae];	0.0008	0.0000	0.0007	0.0001	0.0000	0.0001	0.4033	0.6603
k_Bacteria;p__Acidobacteria;c__Acidobacteria-6;	0.0014	0.0000	0.0004	0.0006	0.0000	0.0002	0.1444	0.5505
k_Bacteria;p__Bacteroidetes;c__Cytophagia;	0.0006	0.0000	0.0004	0.0000	0.0000	0.0000	0.2447	0.5505
k_Bacteria;p__Verrucomicrobia;c__Verrucomicrobiae;	0.0009	0.0000	0.0004	0.0003	0.0000	0.0002	0.2429	0.5505
k_Bacteria;p__Chloroflexi;c__Anaerolineae;	0.0005	0.0000	0.0004	0.0000	0.0000	0.0000	0.2855	0.5621
k_Bacteria;p__Bacteroidetes;c__Sphingobacteriia;	0.0007	0.0000	0.0003	0.0001	0.0000	0.0000	0.1552	0.5505
k_Bacteria;p__Gemmatimonadetes;c__Gemm-3;	0.0009	0.0000	0.0003	0.0003	0.0000	0.0000	0.0785	0.5058
k_Bacteria;p__Gemmatimonadetes;c__Gemmatimonadetes;	0.0007	0.0000	0.0002	0.0004	0.0000	0.0000	0.1712	0.5505
k_Bacteria;p__Tenericutes;c__Mollicutes;	0.0006	0.0000	0.0003	0.0004	0.0000	0.0002	0.5462	0.7241
k_Bacteria;p__Gemmatimonadetes;c__Gemm-1;	0.0006	0.0000	0.0003	0.0001	0.0000	0.0000	0.2284	0.5505
k_Bacteria;p__Verrucomicrobia;c__[Pedosphaerae];	0.0005	0.0000	0.0003	0.0002	0.0000	0.0001	0.4298	0.6605
k_Bacteria;p__Actinobacteria;c__Thermoleophilia;	0.0009	0.0000	0.0001	0.0005	0.0000	0.0001	0.0627	0.5058
k_Bacteria;p__Acidobacteria;c__iii1-8;	0.0006	0.0000	0.0002	0.0002	0.0000	0.0000	0.0732	0.5058
k_Bacteria;p__BRC1;c__PRR-11;	0.0005	0.0000	0.0003	0.0001	0.0000	0.0001	0.1784	0.5505



k_Bacteria;p_Gemmatimonadetes;c_Gemm-5;	0.0005	0.0000	0.0002	0.0001	0.0000	0.0000	0.1318	0.5505
k_Bacteria;p_Deferribacteres;c_Deferribacteres;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.3958	0.6603
k_Bacteria;p_Acidobacteria;c_Acidobacteriia;	0.0004	0.0000	0.0002	0.0001	0.0000	0.0001	0.1241	0.5505
k_Bacteria;p_Chloroflexi;c_Thermomicrobia;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.2763	0.5621
k_Bacteria;p_Chloroflexi;c_Gitt-GS-136;	0.0003	0.0000	0.0002	0.0001	0.0000	0.0000	0.1967	0.5505
k_Bacteria;p_Cyanobacteria;c_Chloroplast;	0.0005	0.0000	0.0001	0.0001	0.0000	0.0000	0.0714	0.5058
k_Bacteria;p_Chloroflexi;c_Ellin6529;	0.0005	0.0000	0.0001	0.0001	0.0000	0.0001	0.0451	0.5058
k_Bacteria;p_TM6;c_SJA-4;	0.0002	0.0000	0.0002	0.0001	0.0000	0.0001	0.4687	0.7030
k_Archaea;p_Crenarchaeota;c_Thaumarchaeota;	0.0003	0.0000	0.0001	0.0001	0.0000	0.0001	0.3095	0.5909
k_Bacteria;p_Acidobacteria;c_[Chloracidobacteria];	0.0001	0.0000	0.0000	0.0002	0.0000	0.0002	0.5095	0.7134
k_Bacteria;p_Nitrospirae;c_Nitrospira;	0.0001	0.0000	0.0000	0.0003	0.0000	0.0001	0.4213	0.6605
k_Bacteria;p_Acidobacteria;c_Solibacteres;	0.0002	0.0000	0.0001	0.0001	0.0000	0.0001	0.2569	0.5582
k_Bacteria;p_Actinobacteria;c_MB-A2-108;	0.0001	0.0000	0.0000	0.0002	0.0000	0.0001	0.4088	0.6603
k_Bacteria;p_Bacteroidetes;c_[Rhodothermi];	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.2801	0.5621
k_Bacteria;p_Verrucomicrobia;c_Opitutae;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.1043	0.5473
k_Bacteria;p_Actinobacteria;c_Acidimicrobiia;	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.7311	0.8838
k_Bacteria;p_Synergistetes;c_Synergistia;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.3314	0.6141
k_Bacteria;p_Armatimonadetes;c_0319-6E2;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6518	0.8051
k_Bacteria;p_Cyanobacteria;c_ML635J-21;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.2301	0.5505
k_Bacteria;p_Chlamydiae;c_Chlamydiia;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.1373	0.5505
k_Bacteria;p_Actinobacteria;c_Coriobacteriia;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.5517	0.7241
k_Bacteria;p_Bacteroidetes;c_Flavobacteriia;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.1043	0.5473
k_Bacteria;p_Lentisphaerae;c_[Lentisphaeria];	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1894	0.5505
k_Bacteria;p_Gemmatimonadetes;c_Gemm-2;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3727	0.6603
k_Bacteria;p_TM7;c_TM7-1;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.7134
k_Bacteria;p_Planctomycetes;c_Phycisphaerae;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7435	0.8838
k_Bacteria;p_AD3;c_ABS-6;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Planctomycetes;c_BD7-11;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Chloroflexi;c_Dehalococcoidetes;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Armatimonadetes;c_Chthonomonadetes;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Acidobacteria;c_Sva0725;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000

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k__Archaea;p__Euryarchaeota;c__Methanobacteria;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__TM7;c__TM7-3;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.7134
Others	0.0020	0.0000	0.0006	0.0037	0.0000	0.0029	0.6282	0.7915

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### Dataset 3 Statistical analysis of community composition in order level

Taxa	mean(NS1)	variance	STDEV	mean(OS1)	variance	STDEV	p value	q value
k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;	0.1625	0.0158	0.0725	0.5096	0.0097	0.0570	0.0153	0.4780
k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;	0.1738	0.0078	0.0511	0.2023	0.0198	0.0812	0.8150	1.0000
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;	0.2174	0.0061	0.0449	0.0364	0.0019	0.0250	0.0191	0.4780
k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;	0.1440	0.0077	0.0506	0.1220	0.0218	0.0853	0.8788	1.0000
k_Bacteria;p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;	0.0568	0.0025	0.0291	0.0575	0.0026	0.0293	0.9803	1.0000
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;	0.0475	0.0011	0.0189	0.0064	0.0000	0.0026	0.0761	0.5642
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Pseudomonadales;	0.0301	0.0013	0.0209	0.0011	0.0000	0.0003	0.2242	0.5901
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhodobacterales;	0.0313	0.0000	0.0025	0.0045	0.0000	0.0024	0.0011	0.1136
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;	0.0170	0.0000	0.0015	0.0108	0.0002	0.0091	0.5855	0.8345
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;	0.0121	0.0002	0.0074	0.0008	0.0000	0.0001	0.1749	0.5642
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Sphingomonadales;	0.0198	0.0000	0.0030	0.0116	0.0001	0.0043	0.1655	0.5642
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Aeromonadales;	0.0082	0.0001	0.0070	0.0015	0.0000	0.0008	0.4186	0.7094
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Xanthomonadales;	0.0111	0.0001	0.0049	0.0015	0.0000	0.0006	0.0895	0.5642
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhodospirillales;	0.0080	0.0000	0.0023	0.0098	0.0000	0.0031	0.6709	0.9066
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Myxococcales;	0.0049	0.0000	0.0022	0.0009	0.0000	0.0006	0.1264	0.5642
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;	0.0051	0.0000	0.0026	0.0008	0.0000	0.0004	0.1560	0.5642
k_Bacteria;p_Proteobacteria;c_Epsilonproteobacteria;o_Campylobacterales;	0.0031	0.0000	0.0019	0.0023	0.0000	0.0013	0.7701	0.9873
k_Bacteria;p_Fusobacteria;c_Fusobacteriia;o_Fusobacteriales;	0.0022	0.0000	0.0018	0.0004	0.0000	0.0003	0.3960	0.7094
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Oceanospirillales;	0.0024	0.0000	0.0015	0.0018	0.0000	0.0015	0.8226	1.0000
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Caulobacterales;	0.0037	0.0000	0.0007	0.0009	0.0000	0.0004	0.0214	0.4780
k_Bacteria;p_Verrucomicrobia;c_[Spartobacteria];o_[Chthoniobacterales];	0.0021	0.0000	0.0009	0.0001	0.0000	0.0000	0.0773	0.5642
k_Bacteria;p_Cyanobacteria;c_4C0d-2;o_YS2;	0.0014	0.0000	0.0008	0.0003	0.0000	0.0002	0.2110	0.5901
k_Bacteria;p_Firmicutes;c_Bacilli;o_Turicibacterales;	0.0012	0.0000	0.0008	0.0013	0.0000	0.0007	0.9347	1.0000
k_Bacteria;p_Planctomycetes;c_Planctomycetia;o_Pirellulales;	0.0013	0.0000	0.0007	0.0002	0.0000	0.0002	0.2052	0.5901
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Desulfovibrionales;	0.0012	0.0000	0.0007	0.0007	0.0000	0.0004	0.6263	0.8580
k_Bacteria;p_Firmicutes;c_Erysipelotrichi;o_Erysipelotrichales;	0.0013	0.0000	0.0007	0.0007	0.0000	0.0004	0.5317	0.7892
k_Bacteria;p_Bacteroidetes;c_[Saprospirae];o_[Saprospirales];	0.0008	0.0000	0.0007	0.0001	0.0000	0.0001	0.4073	0.7094
k_Bacteria;p_Acidobacteria;c_Acidobacteria-6;o_iii1-15;	0.0013	0.0000	0.0004	0.0006	0.0000	0.0002	0.1498	0.5642
k_Bacteria;p_Bacteroidetes;c_Cytophagia;o_Cytophagales;	0.0006	0.0000	0.0004	0.0000	0.0000	0.0000	0.2420	0.5902

k_Bacteria;p_Planctomycetes;c_Planctomycetia;o_Planctomycetales;	0.0007	0.0000	0.0004	0.0002	0.0000	0.0001	0.2182	0.5901
k_Bacteria;p_Verrucomicrobia;c_Verrucomicrobiae;o_Verrucomicrobiales;	0.0009	0.0000	0.0004	0.0003	0.0000	0.0002	0.2386	0.5902
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Alteromonadales;	0.0007	0.0000	0.0003	0.0005	0.0000	0.0003	0.7328	0.9658
k_Bacteria;p_Bacteroidetes;c_Sphingobacteriia;o_Sphingobacteriales;	0.0007	0.0000	0.0003	0.0001	0.0000	0.0000	0.1521	0.5642
k_Bacteria;p_Chloroflexi;c_Anaerolineae;o_GCA004;	0.0005	0.0000	0.0004	0.0000	0.0000	0.0000	0.2861	0.6358
k_Bacteria;p_Verrucomicrobia;c_[Pedosphaerae];o_[Pedosphaerales];	0.0004	0.0000	0.0003	0.0001	0.0000	0.0001	0.3248	0.6771
k_Bacteria;p_Tenericutes;c_Mollicutes;o_RF39;	0.0006	0.0000	0.0003	0.0004	0.0000	0.0002	0.5962	0.8345
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Legionellales;	0.0006	0.0000	0.0002	0.0003	0.0000	0.0003	0.6008	0.8345
k_Bacteria;p_Acidobacteria;c_iii1-8;o_DS-18;	0.0006	0.0000	0.0002	0.0002	0.0000	0.0000	0.0739	0.5642
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_MND1;	0.0006	0.0000	0.0002	0.0002	0.0000	0.0001	0.1107	0.5642
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Rhodocyclales;	0.0006	0.0000	0.0002	0.0002	0.0000	0.0002	0.2230	0.5901
k_Bacteria;p_Derribacteres;c_Derribacteres;o_Derribacterales;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.4008	0.7094
k_Bacteria;p_Actinobacteria;c_Thermoleophilia;o_Solirubrobacteriales;	0.0006	0.0000	0.0001	0.0002	0.0000	0.0001	0.0239	0.4780
k_Bacteria;p_Acidobacteria;c_Acidobacteriia;o_Acidobacteriales;	0.0004	0.0000	0.0002	0.0001	0.0000	0.0001	0.1167	0.5642
k_Bacteria;p_Cyanobacteria;c_Chloroplast;o_Streptophyta;	0.0005	0.0000	0.0001	0.0001	0.0000	0.0000	0.0727	0.5642
k_Bacteria;p_Chloroflexi;c_Thermomicrobia;o_JG30-KF-CM45;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.2673	0.6103
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_SC-I-84;	0.0003	0.0000	0.0002	0.0001	0.0000	0.0001	0.2205	0.5901
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Neisseriales;	0.0003	0.0000	0.0001	0.0001	0.0000	0.0001	0.1178	0.5642
k_Archaea;p_Crenarchaeota;c_Thaumarchaeota;o_Nitrososphaerales;	0.0003	0.0000	0.0001	0.0001	0.0000	0.0001	0.2969	0.6455
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Ellin6067;	0.0003	0.0000	0.0001	0.0002	0.0000	0.0001	0.3670	0.6837
k_Bacteria;p_Acidobacteria;c_[Chloracidobacteria];o_RB41;	0.0001	0.0000	0.0000	0.0002	0.0000	0.0002	0.5110	0.7742
k_Bacteria;p_Actinobacteria;c_Thermoleophilia;o_Gaiellales;	0.0003	0.0000	0.0001	0.0002	0.0000	0.0001	0.8127	1.0000
k_Bacteria;p_Nitrospirae;c_Nitrospira;o_Nitrospirales;	0.0001	0.0000	0.0000	0.0003	0.0000	0.0001	0.4272	0.7120
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Bifidobacteriales;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.1595	0.5642
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Thiotrichales;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.1322	0.5642
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Ellin329;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.1276	0.5642
k_Bacteria;p_Acidobacteria;c_Solibacteres;o_Solibacterales;	0.0002	0.0000	0.0001	0.0001	0.0000	0.0001	0.2551	0.6073
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Vibrionales;	0.0002	0.0000	0.0001	0.0001	0.0000	0.0001	0.8630	1.0000
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Methylophilales;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.0604	0.5642
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Pasteurellales;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.2321	0.5902
k_Bacteria;p_Actinobacteria;c_MB-A2-108;o_0319-7L14;	0.0001	0.0000	0.0000	0.0002	0.0000	0.0001	0.4121	0.7094

k_Bacteria;p_Bacteroidetes;c_[Rhodothermi];o_[Rhodothermales];	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.2685	0.6103
k_Bacteria;p_Planctomycetes;c_Planctomycetia;o_Gemmatales;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.1288	0.5642
k_Bacteria;p_Firmicutes;c_Bacilli;o_Haloplasmatales;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0680	0.5642
k_Bacteria;p_Verrucomicrobia;c_Opitutae;o_Opitutales;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0962	0.5642
k_Bacteria;p_Actinobacteria;c_Acidimicrobiia;o_Acidimicrobiales;	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.7366	0.9658
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rickettsiales;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.3368	0.6771
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Bdellovibrionales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3692	0.6837
k_Bacteria;p_Synergistetes;c_Synergistia;o_Synergistales;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.3296	0.6771
k_Bacteria;p_Firmicutes;c_Clostridia;o_OPB54;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.5367	0.7892
k_Bacteria;p_Tenericutes;c_Mollicutes;o_Anaeroplasmatales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3692	0.6837
k_Bacteria;p_Actinobacteria;c_Coriobacteriia;o_Coriobacteriales;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.5519	0.7998
k_Bacteria;p_Chlamydiae;c_Chlamydiia;o_Chlamydiales;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.1322	0.5642
k_Bacteria;p_Gemmatimonadetes;c_Gemmatimonadetes;o_KD8-87;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.1678	0.5642
k_Bacteria;p_Bacteroidetes;c_Flavobacteriia;o_Flavobacteriales;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0962	0.5642
k_Bacteria;p_Gemmatimonadetes;c_Gemmatimonadetes;o_Gemmatimonadales;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.3453	0.6771
k_Bacteria;p_Lentisphaerae;c_[Lentisphaeria];o_Victivallales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1809	0.5653
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_IS-44;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3453	0.6771
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Syntrophobacteriales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7437	0.9658
k_Bacteria;p_Planctomycetes;c_Planctomycetia;o_B97;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.7692
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Spirobacillales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.7692
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_MIZ46;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.7692
k_Bacteria;p_Planctomycetes;c_Phycisphaerae;o_WD2101;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Chromatiales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1322	0.5642
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_BD7-3;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.7692
k_Bacteria;p_Acidobacteria;c_Acidobacteria-6;o_CCU21;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.7692
k_Bacteria;p_Chloroflexi;c_Anaerolineae;o_CFB-26;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Gemmatimonadetes;c_Gemmatimonadetes;o_N1423WL;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Acidobacteria;c_Sva0725;o_Sva0725;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_SBla14;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Desulfarcucales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k_Bacteria;p_Armatimonadetes;c_Chthonomonadetes;o_Chthonomonadales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000

k__Archaea;p__Euryarchaeota;c__Methanobacteria;o__Methanobacteriales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__NB1-j;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Planctomycetes;c__Phycisphaerae;o__Phycisphaerales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Chloroflexi;c__Anaerolineae;o__Anaerolineales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Chloroflexi;c__Dehalococcoidetes;o__Dehalococcoidales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Bacilli;o__Gemellales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Chloroflexi;c__Thermomicrobia;o__AKYG1722;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Methylococcales;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
Others	0.0136	0.0000	0.0018	0.0075	0.0000	0.0035	0.1727	0.5642

## Dataset 4 Statistical analysis of community composition in genus level

Taxa	mean(NS1)	variance	STDEV	mean(OS1)	variance	STDEV	p value	q value
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lactobacillus;	0.1561	0.0151	0.0710	0.5075	0.0097	0.0568	0.0110	0.5807
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Ruminococcus;	0.0673	0.0043	0.0381	0.0577	0.0092	0.0552	0.9352	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Brucellaceae;g__Ochrobactrum;	0.0891	0.0040	0.0363	0.0079	0.0000	0.0039	0.0504	0.6675
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Planococcaceae;g__Sporosarcina;	0.0238	0.0005	0.0126	0.0025	0.0000	0.0010	0.1315	0.6675
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Hyphomicrobiaceae;g__Devosia;	0.0177	0.0004	0.0115	0.0015	0.0000	0.0003	0.2071	0.6736
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Bacillus;	0.0212	0.0001	0.0061	0.0137	0.0004	0.0115	0.6998	1.0000
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Alcaligenaceae;g__Achromobacter;	0.0178	0.0002	0.0089	0.0006	0.0000	0.0001	0.0786	0.6675
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Paracoccus;	0.0300	0.0000	0.0025	0.0038	0.0000	0.0024	0.0020	0.1387
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Alcaligenaceae;g__Pigmentiphaga;	0.0115	0.0003	0.0106	0.0004	0.0000	0.0002	0.3577	0.7953
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Pseudomonadaceae;g__Pseudomonas;	0.0142	0.0001	0.0069	0.0005	0.0000	0.0000	0.0726	0.6675
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Aeromonadales;f__Aeromonadaceae;g__Aeromonas;	0.0082	0.0001	0.0070	0.0015	0.0000	0.0008	0.4678	0.8256
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Alcaligenaceae;g__Denitrobacter;	0.0063	0.0001	0.0058	0.0001	0.0000	0.0000	0.3202	0.7571
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Eubacteriaceae;g__Garciglia;	0.0080	0.0001	0.0045	0.0021	0.0000	0.0017	0.2551	0.7024
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobiaceae;g__Amorphomonas;	0.0088	0.0000	0.0041	0.0019	0.0000	0.0017	0.1457	0.6675
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Acetobacteraceae;g__Acetobacter;	0.0009	0.0000	0.0004	0.0081	0.0000	0.0040	0.1060	0.6675
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Corynebacteriaceae;g__Corynebacterium;	0.0011	0.0000	0.0005	0.0040	0.0000	0.0038	0.5807	0.9187
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__Sphingomonas;	0.0058	0.0000	0.0027	0.0019	0.0000	0.0007	0.2039	0.6736
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Planococcaceae;g__Solibacillus;	0.0037	0.0000	0.0033	0.0002	0.0000	0.0001	0.3350	0.7571
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Oscillospira;	0.0046	0.0000	0.0029	0.0026	0.0000	0.0014	0.6750	0.9937
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__Kaistobacter;	0.0047	0.0000	0.0008	0.0061	0.0000	0.0029	0.7537	1.0000
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides;	0.0044	0.0000	0.0026	0.0039	0.0000	0.0024	0.9400	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Hyphomicrobiaceae;g__Rhodoplanes;	0.0052	0.0000	0.0018	0.0029	0.0000	0.0025	0.5787	0.9187
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Luteimonas;	0.0038	0.0000	0.0019	0.0004	0.0000	0.0002	0.0954	0.6675
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Moraxellaceae;g__Acinetobacter;	0.0025	0.0000	0.0021	0.0003	0.0000	0.0001	0.3189	0.7571
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Sinobacteraceae;g__Steriodobacter;	0.0031	0.0000	0.0018	0.0004	0.0000	0.0003	0.1820	0.6736
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Bradyrhizobiaceae;g__Balneimonas;	0.0043	0.0000	0.0015	0.0016	0.0000	0.0012	0.2222	0.6864
k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Fusobacteriaceae;g__Cetobacterium;	0.0022	0.0000	0.0018	0.0004	0.0000	0.0003	0.4489	0.8256
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Pseudonocardaceae;g__Thermocrispum;	0.0026	0.0000	0.0014	0.0020	0.0000	0.0018	0.8515	1.0000
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Myxococcales;f__Myxococcaceae;g__Anaeromyxobacter;	0.0031	0.0000	0.0015	0.0005	0.0000	0.0004	0.1334	0.6675

k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Coproccoccus;	0.0021	0.0000	0.0016	0.0006	0.0000	0.0003	0.4839	0.8256
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Escherichia;	0.0027	0.0000	0.0013	0.0003	0.0000	0.0002	0.0947	0.6675
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Oceanospirillales;f__Halomonadaceae;g__Halomonas;	0.0023	0.0000	0.0015	0.0018	0.0000	0.0015	0.8769	1.0000
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotellaceae];g__[Prevotella];	0.0022	0.0000	0.0012	0.0021	0.0000	0.0016	0.9707	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium;	0.0028	0.0000	0.0012	0.0009	0.0000	0.0005	0.1549	0.6675
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonadaceae;g__Parabacteroides;	0.0025	0.0000	0.0014	0.0015	0.0000	0.0007	0.6442	0.9615
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Phyllobacteriaceae;g__Chelativorans;	0.0044	0.0000	0.0003	0.0017	0.0000	0.0015	0.1111	0.6675
k__Bacteria;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacteriales;f__Helicobacteraceae;g__Helicobacter;	0.0022	0.0000	0.0014	0.0019	0.0000	0.0011	0.9001	1.0000
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Paenibacillaceae;g__Paenibacillus;	0.0024	0.0000	0.0010	0.0004	0.0000	0.0002	0.0638	0.6675
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Odoribacteraceae];g__Odoribacter;	0.0017	0.0000	0.0013	0.0009	0.0000	0.0005	0.7213	1.0000
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Alcaligenaceae;g__Sutterella;	0.0021	0.0000	0.0011	0.0015	0.0000	0.0008	0.7743	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Pseudonocardiaceae;g__Saccharopolyspora;	0.0007	0.0000	0.0003	0.0011	0.0000	0.0011	0.8106	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Caldicoprobacteraceae;g__Caldicoprobacter;	0.0015	0.0000	0.0009	0.0001	0.0000	0.0000	0.1752	0.6736
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobiaceae;g__Agrobacterium;	0.0013	0.0000	0.0009	0.0002	0.0000	0.0001	0.2420	0.7011
k__Bacteria;p__Firmicutes;c__Bacilli;o__Turicibacteriales;f__Turicibacteraceae;g__Turicibacter;	0.0012	0.0000	0.0008	0.0013	0.0000	0.0007	0.9499	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Nocardiaceae;g__Rhodococcus;	0.0015	0.0000	0.0007	0.0004	0.0000	0.0004	0.1970	0.6736
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Thermoactinomycetaceae;g__Thermoactinomyces;	0.0005	0.0000	0.0001	0.0009	0.0000	0.0007	0.7206	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Methylocystaceae;g__Pleomorphomonas;	0.0009	0.0000	0.0007	0.0001	0.0000	0.0000	0.2614	0.7104
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Mycobacteriaceae;g__Mycobacterium;	0.0013	0.0000	0.0005	0.0006	0.0000	0.0005	0.4464	0.8256
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Sporanaerobacter;	0.0009	0.0000	0.0007	0.0000	0.0000	0.0000	0.2513	0.7011
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacteriales;f__Caulobacteraceae;g__Phenylobacterium;	0.0019	0.0000	0.0001	0.0004	0.0000	0.0001	0.0013	0.1353
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[Ruminococcus];	0.0008	0.0000	0.0006	0.0003	0.0000	0.0002	0.5261	0.8515
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Streptomycetaceae;g__Streptomyces;	0.0010	0.0000	0.0004	0.0003	0.0000	0.0001	0.1432	0.6675
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotella;	0.0008	0.0000	0.0005	0.0004	0.0000	0.0002	0.5666	0.9099
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Promicromonosporaceae;g__Cellulosimicrobi um;	0.0013	0.0000	0.0003	0.0002	0.0000	0.0001	0.0196	0.5935
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Erythrobacteraceae;g__Lutibacterium;	0.0010	0.0000	0.0004	0.0001	0.0000	0.0000	0.0455	0.6675
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Rhodospirillaceae;g__Phaeosporillum;	0.0007	0.0000	0.0005	0.0000	0.0000	0.0000	0.2450	0.7011
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Nocardiaceae;g__Nocardia;	0.0006	0.0000	0.0005	0.0001	0.0000	0.0000	0.2790	0.7394
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Allobaculum;	0.0006	0.0000	0.0004	0.0005	0.0000	0.0003	0.8282	1.0000
k__Bacteria;p__Planctomycetes;c__Planctomycetia;o__Planctomycetales;f__Planctomycetaceae;g__Planctomyces;	0.0007	0.0000	0.0004	0.0002	0.0000	0.0001	0.2084	0.6736
k__Bacteria;p__Verrucomicrobia;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Verrucomicrobiaceae;g__Akkermans ia;	0.0008	0.0000	0.0004	0.0003	0.0000	0.0002	0.3020	0.7562



k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Lysobacter;	0.0008	0.0000	0.0002	0.0001	0.0000	0.0000	0.0183	0.5935
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Roseburia;	0.0003	0.0000	0.0002	0.0005	0.0000	0.0003	0.7010	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Bogoriellaceae;g__Georgenia;	0.0006	0.0000	0.0003	0.0001	0.0000	0.0000	0.0916	0.6675
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Alteromonadales;f__Shewanellaceae;g__Shewanella;	0.0005	0.0000	0.0003	0.0004	0.0000	0.0003	0.8782	1.0000
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Enterococcaceae;g__Enterococcus;	0.0004	0.0000	0.0003	0.0001	0.0000	0.0000	0.4659	0.8256
k__Bacteria;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacteriales;f__Helicobacteraceae;g__Flexispira;	0.0005	0.0000	0.0003	0.0002	0.0000	0.0001	0.3332	0.7571
k__Bacteria;p__Planctomycetes;c__Planctomycetia;o__Pirellulales;f__Pirellulaceae;g__Pirellula;	0.0005	0.0000	0.0003	0.0000	0.0000	0.0000	0.1067	0.6675
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Oxalobacteraceae;g__Janthinobacterium;	0.0004	0.0000	0.0001	0.0006	0.0000	0.0003	0.6046	0.9403
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Brevibacteriaceae;g__Brevibacterium;	0.0004	0.0000	0.0003	0.0000	0.0000	0.0000	0.2352	0.7011
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__Sphingopyxis	0.0004	0.0000	0.0002	0.0001	0.0000	0.0000	0.1353	0.6675
;								
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__AF12;	0.0004	0.0000	0.0002	0.0003	0.0000	0.0001	0.6473	0.9615
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Staphylococcaceae;g__Staphylococcus;	0.0002	0.0000	0.0001	0.0006	0.0000	0.0002	0.1153	0.6675
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Rubellimicrobium	0.0006	0.0000	0.0002	0.0005	0.0000	0.0001	0.8850	1.0000
;								
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacteriales;f__Caulobacteraceae;g__Asticcacaulis;	0.0001	0.0000	0.0001	0.0003	0.0000	0.0003	0.7556	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Bradyrhizobiaceae;g__Afipia;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.2064	0.6736
k__Bacteria;p__Deferribacteres;c__Deferribacteres;o__Deferribacterales;f__Deferribacteraceae;g__Mucispirillum;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.4502	0.8256
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Legionellales;f__Coxiellaceae;g__Aquicella;	0.0004	0.0000	0.0001	0.0003	0.0000	0.0002	0.6467	0.9615
k__Bacteria;p__Bacteroidetes;c__Sphingobacteriia;o__Sphingobacteriales;f__Sphingobacteriaceae;g__Sphingobacterium	0.0002	0.0000	0.0002	0.0000	0.0000	0.0000	0.3826	0.7953
;								
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Thermomona	0.0004	0.0000	0.0002	0.0000	0.0000	0.0000	0.1035	0.6675
s;								
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Desulfovibrionales;f__Desulfovibrionaceae;g__Desulfovibrio;	0.0003	0.0000	0.0002	0.0001	0.0000	0.0001	0.4956	0.8256
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Hyphomicrobiaceae;g__Hyphomicrobium;	0.0003	0.0000	0.0001	0.0002	0.0000	0.0002	0.7898	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Pseudonocardiaceae;g__Pseudonocardia;	0.0003	0.0000	0.0002	0.0001	0.0000	0.0000	0.2266	0.6864
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Pseudonocardiaceae;g__Saccharomonospora;	0.0002	0.0000	0.0001	0.0002	0.0000	0.0002	0.8411	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Dermabacteraceae;g__Brachybacterium;	0.0002	0.0000	0.0002	0.0000	0.0000	0.0000	0.3032	0.7562
k__Archaea;p__Crenarchaeota;c__Thaumarchaeota;o__Nitrososphaerales;f__Nitrososphaeraceae;g__Candidatus	0.0003	0.0000	0.0001	0.0001	0.0000	0.0001	0.2834	0.7418
Nitrososphaera;								
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Paenibacillaceae;g__Cohnella;	0.0002	0.0000	0.0002	0.0000	0.0000	0.0000	0.2877	0.7438
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Dehalobacteriaceae;g__Dehalobacterium;	0.0002	0.0000	0.0002	0.0001	0.0000	0.0001	0.8227	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Microbacteriaceae;g__Leucobacter;	0.0003	0.0000	0.0001	0.0001	0.0000	0.0001	0.0967	0.6675
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Paenibacillaceae;g__Brevibacillus;	0.0002	0.0000	0.0001	0.0002	0.0000	0.0001	0.8179	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Marivita;	0.0001	0.0000	0.0000	0.0002	0.0000	0.0002	0.7035	1.0000
k__Bacteria;p__Bacteroidetes;c__[Saprosirae];o__[Saprosirales];f__Chitinophagaceae;g__Flavisolibacter;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.2235	0.6864

k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Tsukamurellaceae;g__Tsukamurella;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.1951	0.6736
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Stenotrophomonas;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.0462	0.6675
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Thermomonosporaceae;g__Actinomadura;	0.0001	0.0000	0.0000	0.0001	0.0000	0.0001	0.9345	1.0000
k__Bacteria;p__Bacteroidetes;c__[Saprosirae];o__[Saprosirales];f__Chitinophagaceae;g__Chitinophaga;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.3826	0.7953
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Rhodobacter;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.1272	0.6675
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Amaricoccus;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.0631	0.6675
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Beijerinckiaceae;g__Beijerinckia;	0.0002	0.0000	0.0000	0.0001	0.0000	0.0001	0.2717	0.7290
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Bifidobacteriales;f__Bifidobacteriaceae;g__Bifidobacterium;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.1322	0.6675
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Neisseriales;f__Neisseriaceae;g__Chitinilyticum;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.1858	0.6736
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Vibrionales;f__Vibrionaceae;g__Vibrio;	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.9112	1.0000
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Streptococcus;	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.7810	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Micrococcaceae;g__Arthrobacter;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.1983	0.6736
k__Bacteria;p__Planctomycetes;c__Planctomycetia;o__Pirellulales;f__Pirellulaceae;g__A17;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.2493	0.7011
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonadaceae;g__Candidatus Azobacteroides;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.3826	0.7953
k__Bacteria;p__Verrucomicrobia;c__Opitutae;o__Opitutales;f__Opitutaceae;g__Opitutus;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0811	0.6675
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__Novosphingobium;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0657	0.6675
k__Bacteria;p__Verrucomicrobia;c__[Spartobacteria];o__[Chthoniobacterales];f__[Chthoniobacteraceae];g__DA101;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0338	0.6615
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacterales;f__Caulobacteraceae;g__Mycoplasma;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.4746	0.8256
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Neisseriales;f__Neisseriaceae;g__Vogesella;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.3826	0.7953
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Rhodanobacter;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.5117	0.8345
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Microbacteriaceae;g__Microbacterium;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.2933	0.7492
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Rhodospirillaceae;g__Inquilinus;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0276	0.6615
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Dorea;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.3313	0.7571
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Alteromonadales;f__Alteromonadaceae;g__Cellvibrio;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.2091	0.6736
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Sedimentibacter;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.2383	0.7011
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Clostridium;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.1470	0.6675
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Anaerostipes;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.8039	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Microbacteriaceae;g__Salinibacterium;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.1913	0.6736
k__Bacteria;p__Acidobacteria;c__Solibacteres;o__Solibacterales;f__Solibacteraceae;g__Candidatus Solibacter;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.3099	0.7571
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Burkholderia;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.1913	0.6736
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Methylobacteriaceae;g__Methylobacterium;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.9026	1.0000

k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Thermoactinomyetaceae;g__Laceyella;	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.9794	1.0000
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Rhodocyclales;f__Rhodocyclaceae;g__Azoarcus;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.1759	0.6736
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Bdellovibrionales;f__Bdellovibrionaceae;g__Bdellovibrio;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4232	0.8256
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__Desulfosporosinus;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.5876	0.9227
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Dokdonella;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0312	0.6615
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Desulfovibrionales;f__Desulfovibrionaceae;g__Bilophila;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7593	1.0000
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Myxococcales;f__Myxococcaceae;g__Myxococcus;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.2129	0.6736
k__Bacteria;p__Tenericutes;c__Mollicutes;o__Anaeroplasmatales;f__Anaeroplasmataceae;g__Anaeroplasmata;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4232	0.8256
k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Dethiosulfovibrionaceae;g__Aminobacterium;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.3215	0.7571
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Phyllobacteriaceae;g__Mesorhizobium;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.2129	0.6736
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Dietziaceae;g__Dietzia;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4232	0.8256
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Alteromonadales;f__HTCC2188;g__HTCC;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.2129	0.6736
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Methylophilales;f__Methylophilaceae;g__Methylotenera;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0811	0.6675
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Comamonadaceae;g__Rubrivivax;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6077	0.9403
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobiaceae;g__Kaistia;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3357	0.7571
k__Bacteria;p__Nitrospirae;c__Nitrospira;o__Nitrospirales;f__Nitrospiraceae;g__Nitrospira;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1574	0.6675
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Butyricoccus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6486	0.9615
k__Bacteria;p__Verrucomicrobia;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Verrucomicrobiaceae;g__Luteolibacter;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0374	0.6615
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Rhodospirillaceae;g__Constrictibacter;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0811	0.6675
k__Bacteria;p__Chlamydiae;c__Chlamydiae;o__Chlamydiales;f__Rhabdochlamydiaceae;g__Candidatus Rhabdochlamydia;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3826	0.7953
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Lactococcus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1574	0.6675
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Adlercreutzia;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1574	0.6675
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Propionibacteriaceae;g__Propionibacterium;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8330	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptostreptococcaceae;g__Tepidibacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6486	0.9615
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Rhodospirillaceae;g__Elstera;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6486	0.9615
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Paenibacillaceae;g__Aneurinibacillus;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.3357	0.7571
k__Bacteria;p__Lentisphaerae;c__[Lentisphaeria];o__Victivallales;f__Victivallaceae;g__Victivallis;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1574	0.6675
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Caloramator;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0152	0.5935
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Methylocystaceae;g__Methylophila;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.5024	0.8256
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Nocardiodaceae;g__Aeromicrobium;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0374	0.6615
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Aerococcaceae;g__Aerococcus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3826	0.7953

k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Microbacteriaceae;g__Pseudoclavibacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Finegoldia;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Streptosporangiaceae;g__Nonomuraea;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__[Weeksellaceae];g__Cloacibacterium;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0676	0.6675
k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Fusobacteriaceae;g__Fusobacterium;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Actinobacteria;c__Thermoleophilii;o__Solirubrobacterales;f__Patulibacteraceae;g__Patulibacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Pseudoxanthomonas;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3826	0.7953
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Candidatus Arthromitus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0676	0.6675
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Coprobacillus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobiaceae;g__Prosthecomicrobium;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1166	0.6675
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Microbacteriaceae;g__Agromyces;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Bacteroidetes;c__Cytophagia;o__Cytophagales;f__Cytophagaceae;g__Flectobacillus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1166	0.6675
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pasteurellales;f__Pasteurellaceae;g__Aggregatibacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Vibrionales;f__Pseudoalteromonadaceae;g__Pseudoalteromonas;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8002	1.0000
k__Bacteria;p__Bacteroidetes;c__[Saprospirae];o__[Saprospirales];f__Chitinophagaceae;g__Parasegitibacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1166	0.6675
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Terribacillus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinomycetaceae;g__Actinomyces;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Verrucomicrobia;c__[Spartobacteria];o__[Chthoniobacterales];f__[Chthoniobacteraceae];g__Candidatus Xiphinematobacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Megasphaera;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhodobiaceae;g__Afifella;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Ignatzschineria;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Micrococcaceae;g__Micrococcus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Alteromonadales;f__Alteromonadaceae;g__Alteromonas;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Veillonella;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Gordoniaceae;g__Gordonia;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Syntrophobacterales;f__Syntrophaceae;g__Desulfobacca;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Legionellales;f__Legionellaceae;g__Legionella;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Nitrospirae;c__Nitrospira;o__Nitrospirales;f__[Thermodesulfovibrionaceae];g__HB118;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridiolibacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__SMB53;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Cellulomonadaceae;g__Cellulomonas;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256

k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__Pelotomaculum;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Myxococcales;f__Nannocystaceae;g__Plesiocystis;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Glycomycetaceae;g__Glycomyces;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Verrucomicrobia;c__[Spartobacteria];o__[Chthoniobacteriales];f__[Chthoniobacteraceae];g__Ellin506;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Bacteroidetes;c__Cytophagia;o__Cytophagales;f__Cytophagaceae;g__Pontibacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Chloroflexi;c__Anaerolineae;o__Anaerolineales;f__Anaerolineaceae;g__Anaerolinea;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Alicyclobacillaceae;g__Alicyclobacillus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Verrucomicrobia;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Verrucomicrobiaceae;g__Rubritalea;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Archaea;p__Euryarchaeota;c__Methanobacteria;o__Methanobacteriales;f__Methanobacteriaceae;g__Methanobacterium;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Rhodospirillaceae;g__Skermanella;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Nocardiodaceae;g__Nocardiooides;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Thermomonosporaceae;g__Actinocorallia;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Clostridium;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.8256
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Gracilibacteraceae;g__Gracilibacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Acidobacteria;c__Acidobacteriia;o__Acidobacteriales;f__Koribacteraceae;g__Candidatus Koribacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Bacteroidetes;c__Sphingobacteriia;o__Sphingobacteriales;f__Sphingobacteriaceae;g__Parapedobacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Syntrophomonadaceae;g__Syntrophomonas;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
k__Bacteria;p__Verrucomicrobia;c__[Spartobacteria];o__[Chthoniobacteriales];f__[Chthoniobacteraceae];g__OR-59;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Acetobacteraceae;g__Roseococcus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Vibrionales;f__Vibrionaceae;g__Aliivibrio;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__Flavobacteriaceae;g__Flavobacterium;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Xanthobacteraceae;g__Labrys;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Chloroflexi;c__Dehalococcoidetes;o__Dehalococcoidales;f__Dehalococcoidaceae;g__Dehalogenimonas;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Bacteroidetes;c__Sphingobacteriia;o__Sphingobacteriales;f__Sphingobacteriaceae;g__Solitalea;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Bacteroidetes;c__[Saprospirae];o__[Saprospirales];f__Chitinophagaceae;g__Flaviumibacter;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Planctomycetes;c__Planctomycetia;o__Gemmatales;f__Gemmataceae;g__Gemmata;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Sporolactobacillaceae;g__Sporolactobacillus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
Others	0.4032	0.0017	0.0236	0.3345	0.0170	0.0752	0.5005	0.8256

## Dataset 5 Statistical analysis of community composition in species level

Taxa	mean(NS1)	variance	STDEV	mean(OS1)	variance	STDEV	p value	q value
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lactobacillus;s__acidipiscis;	0.1228	0.0100	0.0578	0.2150	0.0447	0.1220	0.6134	0.9614
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Bacillus;s__thermoamylovorans;	0.0080	0.0000	0.0021	0.0092	0.0002	0.0083	0.9259	1.0000
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Aeromonadales;f__Aeromonadaceae;g__Aeromonas;s__caviae;	0.0082	0.0001	0.0070	0.0015	0.0000	0.0008	0.4644	0.9420
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Bacillus;s__humi;	0.0096	0.0000	0.0033	0.0027	0.0000	0.0017	0.0966	0.7549
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobiaceae;g__Amorphomonas;s__oryzae;	0.0088	0.0000	0.0041	0.0019	0.0000	0.0017	0.1307	0.7549
k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Fusobacteriaceae;g__Cetobacterium;s__somerae;	0.0022	0.0000	0.0018	0.0004	0.0000	0.0003	0.4505	0.9420
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Pseudonocardiaceae;g__Thermocrispum;s__municipale;	0.0026	0.0000	0.0014	0.0020	0.0000	0.0018	0.8332	1.0000
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Escherichia;s__coli;	0.0027	0.0000	0.0013	0.0003	0.0000	0.0002	0.0930	0.7549
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Bacillus;s__firmus;	0.0032	0.0000	0.0009	0.0018	0.0000	0.0014	0.5362	0.9420
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium;s__tyrobutyricum;	0.0016	0.0000	0.0010	0.0005	0.0000	0.0003	0.2789	0.7696
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Pseudonocardiaceae;g__Saccharopolyspora;s__hirsuta;	0.0006	0.0000	0.0003	0.0011	0.0000	0.0011	0.7614	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Hyphomicrobiaceae;g__Rhodoplanes;s__elegans;	0.0019	0.0000	0.0009	0.0010	0.0000	0.0009	0.5793	0.9588
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Ruminococcus;s__flavefaciens;	0.0009	0.0000	0.0009	0.0000	0.0000	0.0000	0.3290	0.7696
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides;s__acidifaciens;	0.0014	0.0000	0.0007	0.0011	0.0000	0.0007	0.8939	1.0000
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Nocardiaceae;g__Rhodococcus;s__ruber;	0.0015	0.0000	0.0007	0.0004	0.0000	0.0004	0.1872	0.7696
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonadaceae;g__Parabacteroides;s__distasonis;	0.0010	0.0000	0.0007	0.0005	0.0000	0.0003	0.7097	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[Ruminococcus];s__gnavus;	0.0008	0.0000	0.0006	0.0003	0.0000	0.0002	0.5111	0.9420
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides;s__caccae;	0.0002	0.0000	0.0001	0.0006	0.0000	0.0006	0.5596	0.9573
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Rhodospirillaceae;g__Phaeospirillum;s__fulvum;	0.0007	0.0000	0.0005	0.0000	0.0000	0.0000	0.2267	0.7696
k__Bacteria;p__Verrucomicrobia;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Verrucomicrobiaceae;g__Akkermansia;s__muciniphila;	0.0008	0.0000	0.0004	0.0003	0.0000	0.0002	0.2897	0.7696
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Alteromonadales;f__Shewanellaceae;g__Shewanella;s__algae;	0.0005	0.0000	0.0003	0.0004	0.0000	0.0003	0.8279	1.0000
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Paenibacillaceae;g__Paenibacillus;s__lautus;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.0984	0.7549
k__Bacteria;p__Deferribacteres;c__Deferribacteres;o__Deferribacterales;f__Deferribacteraceae;g__Mucispirillum;s__schaedleri;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.4523	0.9420
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Bradyrhizobiaceae;g__Afipia;s__felis;	0.0005	0.0000	0.0002	0.0002	0.0000	0.0001	0.1982	0.7696
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Desulfovibrionales;f__Desulfovibrionaceae;g__Desulfovibrio;s__C21_c20;	0.0003	0.0000	0.0002	0.0001	0.0000	0.0001	0.5040	0.9420
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lactobacillus;s__reuteri;	0.0003	0.0000	0.0001	0.0002	0.0000	0.0001	0.6348	0.9614
k__Bacteria;p__Bacteroidetes;c__Sphingobacteriia;o__Sphingobacteriales;f__Sphingobacteriaceae;g__Sphingobacterium;s__multivorum;	0.0002	0.0000	0.0002	0.0000	0.0000	0.0000	0.3433	0.7696
k__Archaea;p__Crenarchaeota;c__Thaumarchaeota;o__Nitrososphaerales;f__Nitrososphaeraceae;g__CandidatusNitrososphaera;s__SCA1145;	0.0003	0.0000	0.0001	0.0001	0.0000	0.0001	0.2933	0.7696

k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Hyphomicrobiaceae;g__Hyphomicrobium;s__zavarzinii;	0.0002	0.0000	0.0001	0.0001	0.0000	0.0001	0.8975	1.0000
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Thermomonas;s__fusca;	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	0.2249	0.7696
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium;s__thermopalmarium;	0.0003	0.0000	0.0001	0.0001	0.0000	0.0001	0.0398	0.7549
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium;s__butyricum;	0.0002	0.0000	0.0001	0.0001	0.0000	0.0001	0.2519	0.7696
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Neisseriales;f__Neisseriaceae;g__Chitinilyticum;s__aquatile;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.1765	0.7696
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Thermomonosporaceae;g__Actinomadura;s__vinacea;	0.0001	0.0000	0.0000	0.0001	0.0000	0.0001	0.9369	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium;s__tetani;	0.0001	0.0000	0.0001	0.0001	0.0000	0.0000	0.5147	0.9420
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Streptococcus;s__luteciae;	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.8707	1.0000
k__Bacteria;p__Bacteroidetes;c__Sphingobacteriia;o__Sphingobacteriales;f__Sphingobacteriaceae;g__Sphingobacterium;s__mizutaii;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.3433	0.7696
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Thermoactinomycetaceae;g__Thermoactinomyces;s__sanguinis;	0.0001	0.0000	0.0001	0.0001	0.0000	0.0000	0.5290	0.9420
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Stenotrophomonas;s__acidaminiphila;	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0326	0.7549
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lactobacillus;s__mucosae;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.3433	0.7696
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__Desulfosporosinus;s__meridiei;	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.5900	0.9588
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lactobacillus;s__parlamentarius;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.2035	0.7696
k__Bacteria;p__Lentisphaeria;c__[Lentisphaeria];o__Victivallales;f__Victivallaceae;g__Victivallis;s__vadensis;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1394	0.7549
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Pseudomonadaceae;g__Pseudomonas;s__thermotolerans;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3433	0.7696
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotella;s__copri;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3433	0.7696
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium;s__bowmanii;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.9696	1.0000
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Bdellovibrionales;f__Bdellovibrionaceae;g__Bdellovibrio;s__bacteriovorus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3433	0.7696
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Rhodospirillaceae;g__Constrictibacter;s__antarcticus;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0700	0.7549
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Rhodospirillaceae;g__Elstera;s__litoralis;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6508	0.9614
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Paracoccus;s__aminovorans;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1394	0.7549
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Methylophilales;f__Methylophilaceae;g__Methylophilum;s__mobilis;	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0700	0.7549
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Butyricoccus;s__pullicaeorum;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6508	0.9614
k__Bacteria;p__Bacteroidetes;c__[Saprosirae];o__[Saprosirales];f__Chitinophagaceae;g__Parasegitibacter;s__luojieensis;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1072	0.7549
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobiaceae;g__Prosthecomicrobium;s__pneumaticum;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1072	0.7549
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Microbacteriaceae;g__Pseudoclavibacter;s__bifida;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodospirillales;f__Rhodospirillaceae;g__Inquilinus;s__limosus;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Clostridium;s__colinum;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Vibrionales;f__Vibrionaceae;g__Aliivibrio;s__fischeri;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000

k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__Flavobacteriaceae;g__Flavobacterium;s__sucinicans;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium;s__intestinale;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Bacteroidetes;c__Sphingobacteriia;o__Sphingobacteriales;f__Sphingobacteriaceae;g__Solitalea;s__canadensis;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Archaea;p__Euryarchaeota;c__Methanobacteria;o__Methanobacteriales;f__Methanobacteriaceae;g__Methanobacterium;s__bryantii;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Veillonella;s__dispar;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
k__Archaea;p__Crenarchaeota;c__Thaumarchaeota;o__Nitrososphaerales;f__Nitrososphaeraceae;g__Candidatus Nitrososphaera;s__SCA1170;	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
Others	0.8149	0.0073	0.0492	0.7569	0.0582	0.1393	0.8010	1.0000