Table S6 Phylum-level species abundance of THS

Phylum	THS1	THS2	THS3	THS4	THS5	Average	Proportion (%)
Bacteroidetes	0.611194	0.214405	0.572984	0.556907	0.470770	0.485252	48.53
Firmicutes	0.242830	0.420459	0.303263	0.247520	0.430986	0.329012	32.90
Proteobacteria	0.033152	0.059645	0.076464	0.126853	0.041142	0.067451	6.75
Chytridiomycota	0.001159	0.032870	0.000080	0.000061	0.001268	0.007088	0.71
Euryarchaeota	0.010256	0.008848	0.001054	0.000842	0.001073	0.004414	0.44
Ascomycota	0.000833	0.023576	0.000023	0.000049	0.000901	0.005077	0.51
Actinobacteria	0.032729	0.033091	0.003972	0.005560	0.008505	0.016771	1.68
Mucoromycota	0.000774	0.019646	0.000121	0.000257	0.000879	0.004335	0.43
Uroviricota	0.004400	0.015765	0.004833	0.012860	0.003212	0.008214	0.82
Chlamydiae	0.020108	0.003586	0.003386	0.003862	0.002857	0.006760	0.68
Others	0.008114	0.053208	0.006334	0.016090	0.009539	0.018657	1.87
Unclassified	0.032768	0.099584	0.026422	0.026532	0.026610	0.042383	4.24
Unassigned	0.001683	0.015317	0.001063	0.002607	0.002258	0.004585	0.46
Total	1	1	1	1	1	1	100

Table S7 Phylum-level species abundance of HTS

Phylum	HTS1	HTS2	HTS3	HTS4	HTS5	Average	Proportion (%)
Bacteroidetes	0.376622	0.490807	0.481272	0.440027	0.607178	0.479181	47.92
Firmicutes	0.267558	0.249192	0.174302	0.275581	0.140256	0.221378	22.14
Proteobacteria	0.028706	0.011036	0.028085	0.019140	0.017505	0.020894	2.09
Chytridiomycota	0.032646	0.029615	0.034532	0.023621	0.015642	0.027211	2.72
Euryarchaeota	0.029774	0.006999	0.015892	0.008772	0.042470	0.020781	2.08
Ascomycota	0.023875	0.021929	0.025089	0.017806	0.011226	0.019985	2.00
Actinobacteria	0.005134	0.008522	0.005298	0.005444	0.002755	0.005431	0.54
Mucoromycota	0.019102	0.018055	0.020321	0.014105	0.009268	0.016170	1.62
Uroviricota	0.009228	0.003257	0.010806	0.006431	0.006380	0.007220	0.72
Chlamydiae	0.002819	0.001841	0.002117	0.003113	0.001582	0.002294	0.23
Others	0.057933	0.042663	0.052755	0.051453	0.041635	0.049288	4.93
Unclassified	0.131544	0.103083	0.134001	0.122316	0.095778	0.117344	11.7
Unassigned	0.015059	0.012999	0.015530	0.012191	0.008326	0.012821	1.28
Total	1	1	1	1	1	1	100