

Figure S1

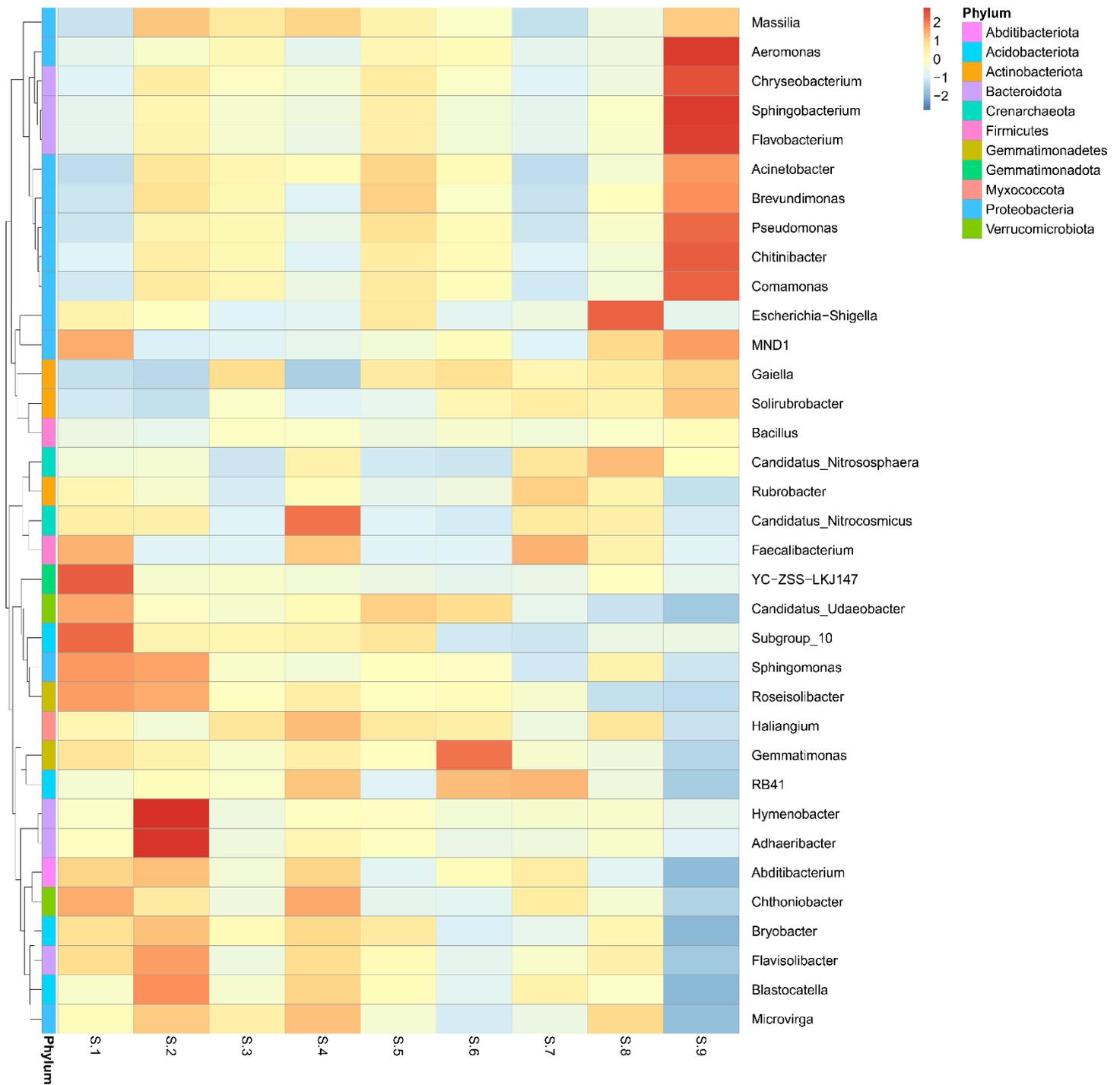


Figure S1. Heat-map of genus based on the microbial phylogeny in different sampling sites

Table S1. Relative abundance of main 10 phyla (%)

Taxon	unidentified_B	Acidobacteriota	Proteoba-	Actinobac	Crenarcha	Verrucomi	Firmicutes	Bacteroid	Actinobacteri	Planctomy
-omy	acteria		acteria	-teriota	-eota	-crobiota		ota	a	-cetota
S.1	14.29	13.69	12.23	11.98	1.78	5.71	5.58	3.44	3.55	3.21
S.2	12.62	14.55	16.88	10.93	2.11	3.8	0.38	5.23	3.45	2.05
S.3	16	16.16	13.07	13.07	0.97	3.63	0.62	2.56	4.1	1.69
S.4	14.19	18.03	12.03	11.56	3.38	4.36	2.66	3.32	3.78	2.96
S.5	16.25	13.32	16.41	11.71	1.11	5.05	0.5	3.8	3.91	1.52
S.6	17.23	16.98	11.33	14.21	0.99	4.86	0.61	2.26	3.85	2.18
S.7	15.83	16.43	7.53	16.48	3	3.47	4.89	2.76	5.08	2.21
S.8	17.6	13.83	13.69	13.97	3.64	2.66	2.88	3.29	3.97	1.65
S.9	23.45	10.31	16.26	14.8	2.41	1.91	0.74	4.14	2.93	1.88

Table S2. Relative abundance of main 10 genera (%)

Taxonomy	RB41	Candidatus _Udaeobacter	Rubrobacter	Candidatus _Nitrososphaera	Acinetobacter	Sphingobacterium	Aeromonas	Sphingomonas	Hymenobacter	Solirubrobacter
S.1	6.57	4.13	4.55	0.54	0	0	0	1.53	0.16	0.98
S.2	7.36	2.49	3.81	0.59	1.05	0.41	0.36	1.48	0.83	0.92
S.3	6.94	2.34	2.72	0.28	0.84	0.21	0.64	0.73	0.08	1.31
S.4	9.49	2.72	4.27	0.82	0.72	0.11	0.01	0.66	0.19	1.05
S.5	5.52	3.7	3.17	0.3	1.23	0.48	0.66	0.82	0.17	1.11
S.6	9.67	3.5	3.52	0.29	0.75	0.16	0.6	0.77	0.12	1.45
S.7	9.75	1.85	5.63	0.94	0	0	0	0.36	0.14	1.55
S.8	6.28	1.36	4.6	1.16	0.53	0.25	0.17	0.96	0.15	1.47
S.9	4.17	0.87	2.48	0.71	1.61	1.4	2.27	0.33	0.03	1.79