

S1 Table. The 19 significantly detected family-level OTUs (FDR adjusted P-value < 0.05)

Phylum	Family	P_value	FDR	logFC
Actinobacteria	OCS155	1.39E-08	8.81E-07	-4.44248
Firmicutes	Peptostreptococcaceae	2.07E-08	8.81E-07	4.877239
Proteobacteria	Pelagibacteraceae	1.77E-05	3.76E-04	-4.94507
Proteobacteria	Halomonadaceae	1.33E-05	3.76E-04	-3.85315
Euryarchaeota	Methanobacteriaceae	3.01E-05	5.12E-04	-3.75728
SAR406	A714017	8.59E-05	1.22E-03	-3.2943
Cyanobacteria	Synechococcaceae	0.000222	2.70E-03	-4.36532
Bacteroidetes	Flavobacteriaceae	0.000279	2.96E-03	-3.87584
Proteobacteria	Rhodobacteraceae	0.00041	3.16E-03	-3.65558
Proteobacteria	AEGEAN_112	0.000372	3.16E-03	-2.99686
Proteobacteria	OM60	0.00034	3.16E-03	-2.9729
Proteobacteria	Piscirickettsiaceae	0.000626	4.43E-03	-2.76107
Synergistetes	Dethiosulfovibrionaceae	0.001699	1.11E-02	3.665901
Bacteroidetes	[Barnesiellaceae]	0.003051	1.73E-02	2.113337
Firmicutes	Planococcaceae	0.003037	1.73E-02	2.369546
Proteobacteria	Moritellaceae	0.005573	2.96E-02	1.985535
Proteobacteria	Bradyrhizobiaceae	0.006686	3.34E-02	2.047661
Bacteroidetes	Bacteroidaceae	0.010298	4.64E-02	1.065054
Proteobacteria	mitochondria	0.010364	4.64E-02	-1.97439