S1 Table. A comparison of correlation based methods adopted from [1].

	Methods	Measures	Assumption	Run-time [secs]
	CCREPE	Pearson/Spearman correlation	None	38.284
	CCLasso	Pearson correlation of log-ratio transform data	Edge density is no greater than $(\frac{1}{2} - \frac{1}{p-1})$	9.220
	SparCC	Pearson correlation of log-ratio transform data	Average correlation of a taxon and others is zero	2.984
	REBACCA	Pearson correlation of log-ratio transform data	Each taxon interacts with less than quarter of total taxa	124.840
	SPIEC(gl)	Partial correlation of log-ratio transform data	Number of interactions scales linearly with the number of taxa	24.884
	SPIEC(mb)	Partial correlation of log-ratio transform data	Number of interactions scales linearly with the number of taxa	20.820
	MPLasso	Partial correlation of log-ratio transform data	Number of interactions scales linearly with the number of taxa	1.098
[1] Li C, et al. Predicting microbial interactions through computational approaches. Elsevier Methods. 2016;102:12?9.				
doi:10.1016/j.ymeth.2016.02.019.				