

**Table S4**

16S gene count statistics (20 march 2017)

<https://rrndb.umms.med.umich.edu/>

Phylum	Genomes	Range	Mode	Median	Mean	Std Dev
Acidobacteria	18	[1 - 2]	1	1.0	1.3	0.5
Actinobacteria	687	[1 - 9]	4	3	3.3	1.7
Bacteroidetes	215	[1 - 13]	3	3	3.7	1.9
Chloroflexi	27	[1 - 3]	1	1	1.5	0.7
Fibrobacteres	2	[3 - 3]	3	3	3.00	0.00
Firmicutes	1352	[1 - 16]	6	6	7	3.0
Fibrobacter	2	[3 - 3]	3	3	3.00	0
Gemmatimonadetes	3	[1 - 2]	2	2	1.7	0.5
Nitrospirae	8	[1 - 3]	1	1.5	1.6	0.7
Planctomycetes	13	[1 - 8]	—	2	2.5	1.8
Proteobacteria	3424	[1 - 15]	7	4	4.7	2.5

  

Family	Genomes	Range	Mode	Median	Mean	Std Dev
<i>Rhodospirillaceae</i>	19	[1 - 10]	4	4	4.5	3.0
<i>Sphingomonadaceae</i>	44	[1 - 3]		2	2.2	0.8
<i>Caulobacteraceae</i>	7	[1 - 3]	2	2	2.00	0.53
<i>Hyphomicrobiaceae</i>	14	[1 - 3]	1	1.5	1.7	0.8
<i>Rhizobiaceae</i>	116	[1-6]	3	3	2.6	1.0
<i>Sinobacteriaceae</i>	nd	nd	nd	nd	nd	nd
<i>Pseudomonadaceae</i>	229	[2 - 8]	4	4	4.8	1.2
<i>Sphingobacteriaceae</i>	10	[3 - 8]	4	4	5	1.7
<i>Cryomorphaceae</i>	1	[1 - 2]	2	2	2	0
<i>Flavobacteriaceae</i>	93	[1 - 13]	3	3	3.9	2.1