

Supplementary Table: Distribution of taxonomic assignments* from lean and obese mouse gut metagenomes.

Phylum Name	Lean1	Lean 2	Lean 3	Obese 1	Obese 2
Euryarchaeota	3.13	4.09	4.65	7.54	4.48
Proteobacteria	36.57	35.58	39.65	40.29	42.09
Actinobacteria	3.28	2.76	3.25	0.00	3.50
Bacteroidetes	50.55	49.23	38.07	34.44	36.41
Cyanobacteria	0.00	2.57	3.54	3.74	2.82
Firmicutes	6.47	5.77	10.83	13.98	10.70
Bacteroidetes/Firmicutes ratio	7.81	8.53	3.51	2.46	3.40

* All assignments at or below phylum level were first cumulated to phylum level. Percentages shown in the above table are with respect to the sequences assigned at or below the level of phylum.