

Aquacultured rainbow trout (*Oncorhynchus mykiss*) possess a large core intestinal microbiota that is resistant to variation in diet and rearing density

Running title: Core microbiota in the rainbow trout intestine

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Table S1. Description of 16S rRNA gene pyrosequencing datasets generated in this study

Sample Name	Diet	Density	Tank #	Pyrosequencing Barcode	# Sequences ¹
1B1	fishmeal-based	high	1	AACGATCC	8 650
2B1	fishmeal-based	high	1	ATGCGGTT	7 983
3B1	fishmeal-based	high	1	CTCACTGT	3 224
1B4	fishmeal-based	high	4	ACAGACTC	3 190
2B4	fishmeal-based	high	4	CAGTAGTC	3 307
3B4	fishmeal-based	high	4	GACAACTC	10 362
1B3	fishmeal-based	low	3	AAGGCCTT	2 561
2B3	fishmeal-based	low	3	CACACAGT	5 920
3B3	fishmeal-based	low	3	GAAGTGG	8 889
1B5	fishmeal-based	low	5	ACCTACCT	2 917
2B5	fishmeal-based	low	5	CCAATTCC	5 902
3B5	fishmeal-based	low	5	GAGAGACT	9 386
1B10	fishmeal-based	low	10	AGGAACCA	3 827
2B10	fishmeal-based	low	10	CGCCAATA	9 515
3B10	fishmeal-based	low	10	GGAATTGG	2 813
1B2	grain-based	high	2	AATCCGG	4 351
2B2	grain-based	high	2	CAACTGCA	3 515
3B2	grain-based	high	2	CTGTGACA	9 047
1B6	grain-based	high	6	ACGAAGCA	4 854
2B6	grain-based	high	6	CCGGAATT	5 652
3B6	grain-based	high	6	GCAATACC	8 532
1B9	grain-based	high	9	AGCTGATC	6 179
2B9	grain-based	high	9	CGATAAGG	3 779
3B9	grain-based	high	9	GCTAGGAA	6 658
1B7	grain-based	low	7	AGACCTGT	3 112
2B7	grain-based	low	7	CCTTCAA	4 626
3B7	grain-based	low	7	GCGCAATT	5 421
1B11	grain-based	low	11	ATATCCGG	2 661
2B11	grain-based	low	11	CGTAGGTT	7 214
3B11	grain-based	low	11	GGCGAATA	1 345
1B12	grain-based	low	12	ATCCGCAA	6 563
2B12	grain-based	low	12	CTACCTTG	10 797
3B12	grain-based	low	12	GGTACGAA	2 464

Footnotes:

1. Number of sequences remaining for analysis after filtering for low-quality sequence reads, denoising of sequences, chimera slaying, and removal of Cyanobacteria sequences

Table S2. Alpha diversity estimates of 16S rRNA gene sequence datasets

Experimental Group	Sample Name	Observed Species ¹		Chao1 ¹		Shannon Index ¹		Phylogenetic Distance ¹	
		Individual	Average ²	Individual	Average ²	Individual	Average ²	Individual	Average ²
Fishmeal-based, high density	1B1	158.10	158.97+/-14.77	315.22	334.65+/-37.68	4.79	4.86+/-0.22	17.57	17.95+/-1.41
	2B1	129.00		285.65		4.43		15.16	
	3B1	177.00		404.31		5.15		19.52	
	1B4	166.80		356.70		4.91		19.02	
	2B4	159.10		314.94		4.87		18.56	
	3B4	163.80		331.10		5.01		17.85	
Fishmeal-based, low density	1B3	177.90	167.19+/-16.85	376.17	353.17+/-50.70	5.12	4.98+/-0.33	20.39	19.00+/-1.16
	2B3	170.90		381.38		4.92		19.07	
	3B3	176.00		385.07		5.06		19.53	
	1B5	195.50		458.41		5.57		20.33	
	2B5	136.20		307.45		4.32		17.37	
	3B5	159.60		310.25		4.93		18.62	
	1B10	176.50		353.23		5.24		19.75	
	2B10	146.20		283.24		4.68		16.81	
3B10	165.90	323.33	5.02	19.11					
Grain-based, high density	1B2	161.60	160.72+/-18.56	343.45	339.33+/-63.74	5.07	4.97+/-0.29	18.19	18.32+/-1.63
	2B2	162.70		360.35		5.03		19.63	
	3B2	138.50		256.86		4.72		16.33	
	1B6	144.50		288.79		4.83		16.85	
	2B6	153.50		315.41		4.84		17.87	
	3B6	152.00		304.24		4.87		16.95	
	1B9	205.40		496.90		5.68		21.94	
	2B9	154.40		338.06		4.61		17.92	
	3B9	173.90		349.90		5.11		19.15	
Grain-based, low density	1B7	153.60	165.56+/-13.89	305.52	335.38+/-49.61	4.85	5.04+/-0.24	17.01	17.89+/-1.38
	2B7	173.40		341.83		5.06		18.60	
	3B7	166.20		351.57		4.95		18.47	
	1B11	159.10		299.93		5.03		16.46	
	2B11	182.60		377.23		5.32		19.30	
	3B11	163.00		321.19		5.05		17.11	
	1B12	187.00		439.20		5.49		20.25	
	2B12	166.60		329.85		5.04		18.21	
3B12	138.50	252.08	4.58	15.64					

Footnotes:

1. All alpha diversity values were calculated using 1 092 randomly sampled sequences from each sample. Values for each sample were iteratively generated ten times and averaged.
2. Averages +/- standard deviation for each experimental group.

Proteobacteria:Gammaproteobacteria:Pseudomonadales:Moraxellaceae:Enhydrobacter	0.91%	0.56%	0.53%	0.88%	0.51%	0.75%	0.62%	0.49%	0.57%	0.17%	0.39%	0.81%	0.52%	0.61%	0.75%	0.64%	0.63%	0.65%	0.58%	0.30%	0.68%	0.34%	0.48%	0.62%	0.67%	0.69%	0.89%	0.90%	0.53%	0.67%	0.50%	0.68%	0.37%	
Proteobacteria:Gammaproteobacteria:Pseudomonadales:Moraxellaceae:Moraxella	0.00%	0.01%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Pseudomonadales:Moraxellaceae:Peftucidibaca	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Pseudomonadales:Moraxellaceae:Psychrobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Pseudomonadales:Moraxellaceae:unclassified genus	0.29%	0.51%	0.99%	1.00%	0.67%	0.40%	0.55%	0.84%	0.71%	0.27%	0.44%	0.77%	0.73%	0.61%	0.28%	0.62%	0.80%	0.43%	0.74%	0.51%	0.53%	0.44%	0.58%	0.75%	0.90%	0.76%	0.52%	0.56%	0.50%	0.37%	0.49%	0.57%	0.41%	
Proteobacteria:Gammaproteobacteria:Pseudomonadales:Pseudomonadaceae:Azorhizophilus	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Pseudomonadales:Pseudomonadaceae:Cellvibrio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.03%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Pseudomonadales:Pseudomonadaceae:Pseudomonas	0.43%	0.70%	0.37%	0.38%	0.82%	0.34%	0.74%	0.52%	0.49%	19.95%	0.24%	0.35%	8.57%	0.55%	1.28%	0.51%	0.17%	0.18%	0.45%	0.62%	0.29%	13.85%	0.77%	0.42%	0.13%	0.45%	0.65%	1.09%	1.73%	0.22%	1.01%	0.61%	0.32%	
Proteobacteria:Gammaproteobacteria:Pseudomonadales:Pseudomonadaceae:unclassified genus	0.05%	0.01%	0.03%	0.00%	0.03%	0.04%	0.04%	0.03%	0.07%	1.92%	0.08%	0.01%	0.84%	0.04%	0.04%	0.07%	0.14%	0.02%	0.06%	0.04%	0.02%	1.18%	0.08%	0.06%	0.00%	0.00%	0.07%	0.08%	0.17%	0.00%	0.17%	0.07%	0.04%	
Proteobacteria:Gammaproteobacteria:Pseudomonadales:unclassified family:unclassified genus	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Sainisphaerales:Sainisphaeraceae:Sainisphaera	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:unclassified order:unclassified family:unclassified genus	0.00%	0.00%	0.03%	0.03%	0.09%	0.04%	0.08%	0.07%	0.02%	0.34%	0.05%	0.06%	0.10%	0.04%	0.04%	0.00%	0.03%	0.07%	0.00%	0.04%	0.05%	0.16%	0.05%	0.05%	0.00%	0.04%	0.02%	0.04%	0.04%	0.07%	0.11%	0.06%	0.00%	
Proteobacteria:Gammaproteobacteria:Vibrionales:Vibrionaceae:Photobacterium	0.01%	0.00%	0.00%	0.00%	0.06%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Vibrionales:Vibrionaceae:unclassified genus	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Vibrionales:Vibrionaceae:Vibrio	0.00%	0.00%	0.00%	0.03%	0.00%	0.03%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.03%	0.04%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.05%	0.03%	0.02%	0.06%	0.00%	0.00%	0.02%	0.01%	0.00%
Proteobacteria:Gammaproteobacteria:Xanthomonadales:Sinobacteraceae:Steriodobacter	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Xanthomonadales:Xanthomonadaceae:Lysobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Xanthomonadales:Xanthomonadaceae:Pseudoxanthomonas	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Xanthomonadales:Xanthomonadaceae:Stenotrophomonas	0.06%	0.11%	0.03%	0.03%	0.06%	0.15%	0.08%	0.02%	0.03%	0.51%	0.05%	0.00%	0.21%	0.02%	0.00%	0.06%	0.06%	0.02%	0.06%	0.11%	0.01%	0.24%	0.03%	0.06%	0.00%	0.04%	0.02%	0.04%	0.17%	0.00%	0.20%	0.07%	0.00%	
Proteobacteria:Gammaproteobacteria:Xanthomonadales:Xanthomonadaceae:unclassified genus	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:Gammaproteobacteria:Xanthomonadales:Xanthomonadaceae:Xanthomonas	0.02%	0.04%	0.06%	0.00%	0.03%	0.02%	0.00%	0.00%	0.03%	0.00%	0.00%	0.01%	0.00%	0.06%	0.00%	0.00%	0.03%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Proteobacteria:unclassified class:unclassified order:unclassified family:unclassified genus	0.02%	0.05%	0.03%	0.09%	0.15%	0.00%	0.16%	0.05%	0.04%	0.10%	0.00%	0.04%	0.10%	0.00%	0.07%	0.00%	0.03%	0.02%	0.02%	0.05%	0.02%	0.15%	0.13%	0.00%	0.00%	0.06%	0.00%	0.11%	0.15%	0.00%	0.49%	0.13%	0.04%	
Spirochaetes:Spirochaetales:Spirochaetales:Treponema	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
SR1:SR1_genera_incertae_sedis:unclassified order:unclassified family:unclassified genus	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Synergistetes:Synergistia:Synergistiales:Synergistaceae:unclassified genus	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Tenericutes:Mollicutes:Anaeroplasmatales:Anaeroplasmataceae:Anaeroplasma	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Tenericutes:Mollicutes:Mycoplasmatales:Mycoplasmataceae:Mycoplasma	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
TM7:TM7_genera_incertae_sedis:unclassified order:unclassified family:unclassified genus	0.02%	0.00%	0.06%	0.09%	0.09%	0.04%	0.08%	0.07%	0.03%	0.03%	0.10%	0.04%	0.03%	0.02%	0.21%	0.02%	0.14%	0.04%	0.02%	0.12%	0.00%	0.03%	0.37%	0.05%	0.03%	0.02%	0.09%	0.04%	0.03%	0.22%	0.08%	0.07%	0.04%	
Verrucomicrobia:Opitutae:Opitutales:Opitutaceae:Opitutus	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	
Verrucomicrobia:Spartobacteria:Spartobacteria_genera_incertae_sedis:unclassified family:unclassified genus	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Verrucomicrobia:unclassified class:unclassified order:unclassified family:unclassified genus	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Verrucomicrobia:Verrucomicrobiales:Verrucomicrobiales:Akkermansia	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
unclassified phylum:unclassified class:unclassified order:unclassified family:unclassified genus	0.57%	0.65%	1.80%	1.41%	1.03%	0.49%	1.25%	0.88%	0.79%	5.90%	0.66%	0.86%	2.72%	0.56%	0.92%	1.08%	1.54%	1.47%	1.36%	0.92%	2.20%	9.24%	0.61%	0.83%	0.48%	0.80%	1.31%	0.71%	0.72%	0.45%	1.87%	0.66%	0.32%	

Footnotes:

- 1. Values represent the relative abundance, by percent, of each listed genus observed within each sample.
- 2. Taxonomic assignment determined using RDP classifier to compare a representative sequence from each OTU to reference sequences in the greengenes database.

2751	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	1	5	2	2	0	6	4	1	1	3	4	4	2	3	6	1	0	1	5	6	1	6	6	6	2	7	0	5	6	1	3	0	1			
3352	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	1	0	0	0	2	0	0	0				
4083	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4368	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4375	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4603	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	1	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	2	0	1	1	0			
4680	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	2	1	1	1	0	0	0	2	2	0	0	0	0	3	2	0	0	1	0	0	1	1	1	1	1	1	0	4	1	0	1	3	0		
4848	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0			
5190	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	0	0	2	1	2	2	0	1	2	4	0	0	2	0	1	2	3	2	4	1	0	3	1	2	0	0	3	0	1	1	4	0	0		
5193	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
5447	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5646	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
2877	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Blastomonas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
4586	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Blastomonas	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
3451	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Novosphingobium	3	2	0	0	1	7	10	8	1	4	3	14	7	4	12	3	4	6	4	2	10	6	4	15	0	25	1	1	13	0	0	2	13	0		
1672	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingobium	0	0	0	0	3	0	0	0	1	0	0	0	0	2	8	0	1	2	0	0	0	0	0	0	2	1	7	0	3	0	0	0	0	0		
2721	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingobium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2900	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingobium	4	0	1	0	0	0	0	0	0	0	1	0	0	0	8	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	1	0	0		
1578	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	1	0	0	0	0	0	0	2	0	0	0	0	0	0	1	1	1	2	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	2		
2456	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	4	4	0	1	0	2	1	2	0	1	5	2	0	3	4	0	0	0	5	2	1	5	0	2	2	1	2	2	1	6	0	1	3	3		
1945	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	1882	1650	131	582	610	1876	705	1651	485	429	968	1612	189	552	1727	683	418	1777	882	1141	1593	523	1104	1113	469	1489	166	864	1755	214	484	931	940			
3461	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	489	488	1	19	14	72	32	51	16	16	20	62	11	12	59	25	11	50	30	37	47	13	38	43	13	43	7	24	55	8	18	35	43			
1760	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4139	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	26	34	4	5	7	34	22	25	18	13	27	41	6	9	23	14	5	21	17	40	35	16	18	22	9	44	5	12	33	12	13	19	23			
3036	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	4	5	0	1	1	10	3	7	1	3	4	4	0	5	4	0	4	3	6	8	1	3	7	2	4	0	0	6	3	1	3	2	2	0		
3070	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4601	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	
4768	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	5	1	0	2	1	2	1	1	0	2	1	3	0	3	1	1	1	2	1	2	3	0	1	0	0	2	0	1	3	0	0	2	2	2	0	
5335	Proteobacteria:Alphaproteobacteria:Sphingomonadales:Sphingomonadaceae:Sphingomonas	4	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
289	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
408	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
673	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
930	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
948	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1172	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1177	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1433	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1727	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2325	Proteobacteria:Betaproteobacteria	1	0	0	0	2	2	0	1	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
2771	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2966	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3155	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
3328	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3397	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3506	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3541	Proteobacteria:Betaproteobacteria	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3581	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3845	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3993	Proteobacteria:Betaproteobacteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4185	Proteobacteria:Betaproteobacteria	0	0	0	0	0																															

Table S5. Shared core microbiota of the rainbow trout Intestine¹

#OTU ID ²	Consensus Lineage ³	Fishmeal-based, high density						Fishmeal-based, low density						Grain-based, high density						Grain-based, low density															
		B1	B1	3B1	B4	B4	3B4	B10	B2B10	B13	B2B3	3B3	B5	B5	3B5	B2	B2B2	B2B2	B6	B6	3B6	B9	B9	3B9	B11	B2B11	B3B11	B12	B2B12	3B12	B7	B7	3B7		
3213	Bacteroidetes: Flavobacteria: Flavobacteriales: Flavobacteriaceae: Chryseobacterium	61	60	37	29	18	64	19	48	13	17	24	70	5	23	75	25	54	51	44	43	23	26	35	15	35	10	34	60	14	18	31	21		
4854	Bacteroidetes: Flavobacteria: Flavobacteriales: Flavobacteriaceae: Cloacibacterium	61	15	11	2	18	48	22	28	19	11	11	25	2	16	96	15	9	33	21	27	32	15	16	77	16	230	4	117	56	3	26	16	23	
681	Bacteroidetes: Sphingobacteria: Sphingobacteriales: Cytophagaaceae: Flectobacillus	19	9	6	1	10	9	4	3	19	5	7	3	9	4	13	3	8	8	7	16	7	8	9	2	32	1	117	65	8	3	12	5		
4912	Firmicutes: Bacilli: Bacillales: Bacillaceae: Bacillus	25	3	21	5	4	64	2	31	4	17	9	36	2	15	44	21	8	20	8	10	37	8	5	20	4	13	2	7	21	5	1	43	18	
1568	Firmicutes: Bacilli: Bacillales: Staphylococaceae: Staphylococcus	16	24	1	13	8	23	3	25	6	8	9	15	2	11	13	20	4	17	7	17	21	8	14	21	5	26	1	10	29	5	2	21	19	
1199	Firmicutes: Bacilli: Lactobacillales: Enterococcaceae: Enterococcus	19	26	11	12	5	27	8	16	8	9	12	22	4	6	18	11	10	20	23	15	20	7	9	7	4	15	4	11	29	6	6	6	12	
2572	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Enterococcus	42	52	21	23	19	52	11	56	13	13	35	34	5	14	48	21	23	53	28	29	34	16	15	32	11	20	7	15	45	4	9	27	22	
3978	Firmicutes: Bacilli: Lactobacillales: Leuconostocaceae	27	27	20	16	14	41	7	29	5	13	10	18	1	18	28	9	6	29	19	14	28	11	7	23	9	17	6	13	43	7	5	21	24	
1328	Firmicutes: Bacilli: Lactobacillales: Leuconostocaceae: Leuconostoc	781	836	329	286	289	863	223	907	255	233	606	657	52	318	764	382	285	770	398	473	786	275	248	532	202	413	136	424	939	145	279	353	494	
977	Firmicutes: Bacilli: Lactobacillales: Leuconostocaceae: Weissella	7	13	7	4	5	10	4	12	6	5	9	12	1	4	12	12	3	14	2	13	11	7	4	7	6	3	4	8	4	2	5	7	82	
1372	Firmicutes: Bacilli: Lactobacillales: Leuconostocaceae: Weissella	131	136	81	68	49	174	60	160	35	46	117	142	17	67	168	58	71	163	88	95	145	71	51	107	41	95	28	114	212	29	64	73	82	
4905	Firmicutes: Bacilli: Lactobacillales: Leuconostocaceae: Weissella	1700	1827	769	632	700	2013	628	2204	584	507	1284	1820	102	749	1935	886	652	1774	961	1115	1685	658	614	1333	512	1065	281	1043	2257	358	754	828	1086	
5017	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Weissella	14	15	17	4	8	18	3	15	3	2	7	23	1	6	20	9	10	13	7	10	13	8	4	18	3	8	1	7	21	9	12	5	9	
384	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae	37	39	11	9	13	29	3	27	10	7	20	25	6	14	28	13	19	25	17	15	14	9	15	17	9	14	7	13	32	5	5	6	14	
277	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Lactococcus	16	23	10	6	7	10	1	18	4	1	9	19	1	3	22	12	5	13	5	7	21	4	2	11	2	11	3	2	17	3	5	6	1	
894	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Lactococcus	421	421	198	174	171	525	114	576	128	137	311	360	38	180	495	200	205	459	260	286	437	179	140	291	125	211	64	227	534	86	137	203	264	
1285	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Lactococcus	42	29	19	19	18	55	15	65	15	12	21	46	2	11	33	23	7	38	12	21	49	9	12	29	6	16	8	31	46	10	15	25	33	
1434	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Lactococcus	199	188	108	46	74	178	57	245	44	41	141	190	22	72	175	82	89	211	107	90	178	75	69	125	58	90	46	111	237	71	74	130	122	
2767	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Lactococcus	17	31	16	6	7	22	4	18	4	7	9	26	2	10	23	16	5	17	16	19	9	6	21	3	6	6	12	20	9	5	10	13		
2942	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Lactococcus	238	228	82	67	100	233	63	287	75	56	137	219	18	75	207	86	76	236	134	127	175	73	76	144	62	133	47	107	253	94	66	99	120	
708	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Streptococcus	20	15	1	2	2	86	2	9	7	3	7	9	2	5	21	3	2	14	2	1	8	3	3	8	4	1	3	7	9	2	3	11	3	
997	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Streptococcus	56	13	19	27	21	44	6	42	11	18	22	83	1	26	62	20	3	21	15	25	45	9	13	66	10	29	7	15	27	7	20	22	33	
5231	Firmicutes: Bacilli: Lactobacillales: Streptococcaceae: Streptococcus	32	29	43	14	10	51	9	24	7	17	38	70	3	24	84	105	137	213	105	155	230	94	81	186	51	163	18	150	221	42	76	138	183	
2533	Firmicutes: Clostridia: Clostridiales: Veillonellaceae: Veillonella	70	48	31	20	27	62	15	88	30	17	40	62	5	37	51	29	28	50	33	37	63	14	9	34	21	29	16	17	62	11	18	11	34	
0	Proteobacteria: Alphaproteobacteria: Rhizobiales: Bradyrhizobiacae	44	40	4	15	16	74	7	54	12	19	31	56	7	12	60	35	16	50	31	49	50	18	44	30	14	26	3	30	52	6	12	25	34	
3190	Proteobacteria: Alphaproteobacteria: Rhizobiales: Bradyrhizobiacae	56	47	7	17	20	85	43	43	26	8	42	68	26	19	102	22	30	59	39	46	64	72	50	51	36	78	6	77	84	9	19	39	23	
2938	Proteobacteria: Alphaproteobacteria: Sphingomonadales: Sphingomonadaceae	156	124	17	54	53	164	113	142	49	41	70	170	66	77	178	75	32	132	93	119	140	86	118	129	58	222	17	104	177	27	57	100	62	
1945	Proteobacteria: Alphaproteobacteria: Sphingomonadales: Sphingomonadaceae: Sphingomonas	1882	1650	131	582	610	1876	705	1651	485	429	968	1612	189	552	1727	683	418	1777	882	1141	1593	523	1104	1113	469	1489	166	864	1755	214	484	931	940	
3461	Proteobacteria: Alphaproteobacteria: Sphingomonadales: Sphingomonadaceae: Sphingomonas	49	48	1	19	14	72	32	51	16	16	20	62	11	12	59	25	11	50	30	37	47	13	38	43	13	43	7	24	55	8	18	35	43	
4139	Proteobacteria: Alphaproteobacteria: Sphingomonadales: Sphingomonadaceae: Sphingomonas	26	34	4	5	7	34	22	25	18	13	27	41	6	9	23	14	5	21	17	40	35	16	18	22	9	44	5	12	33	12	13	19	23	
2263	Proteobacteria: Betaproteobacteria: Burkholderiales: Burkholderiales: Incertae sedis: Aquabacterium	15	8	9	5	8	12	6	18	7	2	13	12	2	3	40	5	3	16	4	11	10	7	7	49	8	98	1	9	30	2	4	7	7	
1855	Proteobacteria: Betaproteobacteria: Burkholderiales: Comamonadaceae: Acidovorax	37	26	10	2	10	25	8	35	11	8	17	56	3	10	68	19	15	26	19	11	14	9	5	39	8	63	8	13	41	7	14	11	24	
2759	Proteobacteria: Betaproteobacteria: Burkholderiales: Comamonadaceae: Acidovorax	64	42	18	10	27	56	18	54	17	14	32	40	3	16	107	64	9	42	24	30	44	15	20	112	16	187	4	21	48	15	20	22	31	
3468	Proteobacteria: Betaproteobacteria: Burkholderiales: Comamonadaceae: Diaphorobacter	35	18	5	13	12	25	11	37	11	5	15	15	2	14	105	26	12	32	15	22	26	12	10	81	6	119	2	12	49	5	16	9	8	
2509	Proteobacteria: Betaproteobacteria: Neisseriales: Neisseriaceae: Microvirgula	43	25	25	24	10	45	8	32	10	8	29	98	6	23	27	17	39	40	19	24	40	16	17	21	16	22	7	26	50	3	11	17	13	
2794	Proteobacteria: Epsilonproteobacteria: Campylobacteriales: Campylobacteriaceae: Arcobacter	58	53	38	14	21	67	16	73	15	22	41	148	4	23	42	34	42	52	37	32	72	21	24	25	21	20	11	38	60	6	25	33	32	
446	Proteobacteria: Gammaproteobacteria: Aeromonadales: Aeromonadaceae: Aeromonas	15	23	6	6	6	18	6	20	6	2	13	23	1	5	6	12	8	27	10	13	20	12	5	15	6	11	1	21	22	2	4	9	8	
4341	Proteobacteria: Gammaproteobacteria: Enterobacteriales: Enterobacteriaceae	22	14	14	4	5	22	1	21	6	5	15	21	1	1	5	10	8	14	30	14	11	9	12	12	6	11	3	5	29	4	6	6	17	
3441	Proteobacteria: Gammaproteobacteria: Enterobacteriales: Enterobacteriaceae: Citrobacter	372	336	185	149	137	345	108	408	107	113	265	426	62	156	342	159	219	354	276	198	381	162	166	244	135	189	69	195	345	77	104	156	245	
460	Proteobacteria: Gammaproteobacteria: Enterobacteriales: Enterobacteriaceae: Erwnia	21	11	5	6	10	20	166	14	12	11	7	15	246	5	10	17	5	10	12	8	13	314	4	11	11	42	1	10	24	6	13	7	7	
3492	Proteobacteria: Gammaproteobacteria: Enterobacteriales: Enterobacteriaceae: Escherichia/Shigella	20	29	10	10	31	16	9	20	34	15	23	24	13	15	15	14	8	27	15	14	16	28	13	14	5	69	3	284	165	12	5	9	9	
1488	Proteobacteria: Gammaproteobacteria: Enterobacteriales: Enterobacteriaceae: Klebsiella	25	45	26	15	14	66	12	46	15	15	39	53	6	25	43	16	20	41	31	30	43	19	14	27	17	24	7	18	80	13	15	23	22	
3907	Proteobacteria: Gammaproteobacteria: Enterobacteriales: Enterobacteriaceae: Pantoea	17	23	6	2	12	28	193	16	12	6	11	4	325	1	21																			

Table S6. Fishmeal-based, high density treatment core microbiota¹

#OTU ID ²	Consensus Lineage ³	1B1	2B1	3B1	1B4	2B4	3B4
4842	Actinobacteria;Actinobacteria;Actinomycetales;Actinomycetaceae;Actinomyces	5	2	2	2	1	3
2074	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	2	2	3	3	1	4
2949	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	16	5	1	2	1	8
3338	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	6	2	2	4	4	5
4906	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae	7	3	2	1	1	1
3213	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	61	60	37	29	18	64
80	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	6	2	7	3	3	6
4854	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Cloacibacterium	61	15	11	2	18	48
681	Bacteroidetes;Sphingobacteria;Sphingobacteriales;Cytophagaceae;Flectobacillus	19	9	6	1	10	9
111	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	8	1	2	2	2	28
4912	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	25	3	21	5	4	64
1568	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Staphylococcus	16	24	1	13	8	23
1199	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	19	26	11	12	5	27
2572	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	42	52	21	23	19	52
5230	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	4	13	3	3	5	11
4699	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Vagococcus	1	5	2	1	1	10
1802	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	6	6	8	5	4	10
1815	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	28	12	11	11	1	13
3978	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae	27	27	20	16	14	41
1328	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	781	836	329	286	289	863
1052	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	1	4	10	3	1	6
1417	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	3	3	2	3	1	6
977	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	7	13	7	4	5	10
1372	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	131	136	81	68	49	174
4905	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	1700	1827	769	632	700	2013
5017	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	14	15	17	4	8	18
1138	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	5	5	3	4	5	13
1588	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	1	2	3	2	2	3
384	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae	37	39	11	9	13	29
277	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	16	23	10	6	7	10
894	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	421	421	198	174	171	525
1265	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	42	29	19	19	18	55
1404	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	199	188	108	46	74	178
2767	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	17	31	16	6	7	22
2942	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	238	228	82	67	100	233
4516	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	4	3	3	6	3	5
95	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	2	3	2	1	1	4
1323	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	24	7	3	8	7	31
708	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	20	15	1	2	2	66
997	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	56	13	19	27	21	44
5231	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	32	29	43	14	10	51
2897	Firmicutes;Clostridia;Clostridiales	4	1	1	2	1	3
5459	Firmicutes;Clostridia;Clostridiales;Clostridiaceae;Clostridium	1	2	4	2	2	11
1673	Firmicutes;Clostridia;Clostridiales;Incertae Sedis XI	16	1	7	3	5	13
781	Firmicutes;Clostridia;Clostridiales;Peptococcaceae;Peptococcus	4	1	1	3	2	2
4580	Firmicutes;Clostridia;Clostridiales;Peptostreptococcaceae	9	8	7	3	3	33
2533	Firmicutes;Clostridia;Clostridiales;Veillonellaceae;Veillonella	70	48	31	20	27	62
3480	Firmicutes;Clostridia;Clostridiales;Veillonellaceae;Veillonella	4	1	3	2	2	3
2022	Fusobacteria;Fusobacteria;Fusobacteriales;Fusobacteriaceae	2	1	6	1	4	7
1410	Proteobacteria;Alphaproteobacteria;Alphaproteobacteria_incertae_sedis;Novispirillum	2	2	3	3	8	4
1864	Proteobacteria;Alphaproteobacteria;Caulobacterales;Caulobacteraceae;Asticcacaulis	9	1	1	1	1	1
2338	Proteobacteria;Alphaproteobacteria;Rhizobiales	15	7	2	2	3	8
0	Proteobacteria;Alphaproteobacteria;Rhizobiales;Bradyrhizobiaceae	44	40	4	15	16	74
3190	Proteobacteria;Alphaproteobacteria;Rhizobiales;Bradyrhizobiaceae	56	47	7	17	20	85
1316	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae	5	5	1	3	3	3
2938	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae	156	124	17	54	53	164
1945	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	1882	1650	131	582	610	1876
3461	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	49	48	1	19	14	72
4139	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	26	34	4	5	7	34

1816	Proteobacteria;Betaproteobacteria;Burkholderiales	5	6	1	1	4	4
5544	Proteobacteria;Betaproteobacteria;Burkholderiales;Alcaligenaceae	3	2	1	2	2	3
2263	Proteobacteria;Betaproteobacteria;Burkholderiales;Burkholderiales_incertae_sedis;Aquabacterium	15	8	9	5	8	12
2016	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	6	4	4	6	1	4
1855	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	37	26	10	2	10	25
2759	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	64	42	18	10	27	56
3903	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Comamonas	5	1	3	2	3	13
3468	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Diaphorobacter	35	18	5	13	12	25
2509	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Microvirgula	43	25	25	24	10	45
5201	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Vitrosocilla	2	11	9	4	1	11
3896	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Vogesella	1	6	3	2	4	7
5399	Proteobacteria;Betaproteobacteria;Rhodocyclales;Rhodocyclaceae;Azonexus	5	1	4	1	3	4
2794	Proteobacteria;Epsilonproteobacteria;Campylobacteriales;Campylobacteraceae;Arcobacter	58	53	38	14	21	67
85	Proteobacteria;Epsilonproteobacteria;Campylobacteriales;Campylobacteraceae;Sulfurospirillum	7	9	6	2	8	8
446	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	15	23	6	6	6	18
3236	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	3	6	4	2	1	1
4341	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	22	14	14	4	5	22
4497	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	22	26	12	10	11	16
3841	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Citrobacter	372	336	185	149	137	345
460	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Erwinia	21	11	5	6	10	20
3492	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Escherichia/Shigella	20	29	10	10	31	16
1488	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Klebsiella	25	45	26	15	14	66
3907	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Pantoea	17	23	6	2	12	28
3848	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae	5	7	12	8	4	5
5154	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae	20	29	19	23	15	35
197	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	10	13	3	3	3	10
563	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	7	6	6	4	2	9
526	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	97	83	36	54	37	123
893	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	53	62	32	31	31	51
1370	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	61	74	30	32	32	63
2675	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	189	220	133	108	90	243
1192	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	11	10	6	6	2	13
2828	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	52	23	8	15	11	48
3197	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	16	12	2	7	4	17
2252	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	4	9	1	4	5	18
5089	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	15	1	2	1	4	4
684	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	9	34	9	7	12	9
922	unclassified Bacteria	3	2	2	1	1	5
1386	unclassified Bacteria	5	8	3	9	6	4
3794	unclassified Bacteria	23	23	21	14	14	16
4670	unclassified Bacteria	14	11	3	1	8	21

Footnotes:

1. OTUs appearing in every fish reared at high density on a fishmeal diet. Table values constitute the number of times a give OTU is observed in each sample.
2. Sequences were grouped in an OTU if they share 97% or more identity to a representative sequence
3. Taxonomy assigned if at least 90% of sequences in the OTU are in agreement for the classification

Table S7. Fishmeal-based, low density treatment core microbiota¹

#OTU ID ²	Consensus Lineage ³	1B10	2B10	3B10	1B3	2B3	3B3	1B5	2B5	3B5
2949	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	4	5	3	3	11	14	2	1	20
4311	Actinobacteria;Actinobacteria;Actinomycetales;Microbacteriaceae;Leifsonia	5	11	1	1	4	7	1	5	9
3213	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	19	48	13	17	24	70	5	23	75
4854	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Cloacibacterium	22	28	19	11	11	25	2	16	96
681	Bacteroidetes;Sphingobacteria;Sphingobacteriales;Cytophagaceae;Flectobacillus	4	3	19	5	7	3	9	4	13
4912	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	2	31	4	17	9	36	2	15	44
111	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	8	14	6	5	4	9	13	3	6
1568	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Staphylococcus	3	25	6	8	9	15	2	11	13
1199	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	8	16	8	9	12	22	4	6	18
2572	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	11	56	13	13	35	34	5	14	48
3526	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	5	10	1	1	5	7	1	3	8
3978	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae	7	29	5	13	10	18	1	18	28
1328	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	223	907	255	233	606	657	52	318	764
1052	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	4	3	1	6	11	4	1	6	11
977	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	4	12	6	5	9	12	1	4	12
1372	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	60	160	35	46	117	142	17	67	168
4905	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	528	2204	584	507	1284	1820	102	749	1935
5017	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	3	15	3	2	7	23	1	6	20
1138	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	4	11	2	1	4	4	1	5	10
384	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae	3	27	10	7	20	25	6	14	28
277	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	1	18	4	1	9	19	1	3	22
894	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	114	576	128	137	311	360	38	180	495
1265	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	15	65	15	12	21	46	2	11	33
1404	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	57	245	44	41	141	190	22	72	175
2767	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	4	18	4	7	9	29	2	10	23
2942	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	63	287	75	56	137	219	18	75	207
708	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	2	9	7	3	7	9	2	5	21
997	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	6	42	11	18	22	83	1	26	62
5231	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	9	24	7	17	38	70	3	24	84
1323	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	2	7	6	6	14	18	1	7	30
2533	Firmicutes;Clostridia;Clostridiales;Veillonellaceae;Veillonella	15	88	30	17	40	62	5	37	51
649	Proteobacteria;Alphaproteobacteria;Rhizobiales	3	16	1	1	6	9	7	4	8
2338	Proteobacteria;Alphaproteobacteria;Rhizobiales	3	4	5	2	5	8	8	4	11
0	Proteobacteria;Alphaproteobacteria;Rhizobiales;Bradyrhizobiaceae	7	54	12	19	31	56	7	12	60
3190	Proteobacteria;Alphaproteobacteria;Rhizobiales;Bradyrhizobiaceae	43	43	26	8	42	68	26	19	102
5588	Proteobacteria;Alphaproteobacteria;Sphingomonadales	9	9	7	6	3	23	3	7	10
2938	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae	113	142	49	41	70	170	66	77	178
2751	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae	4	1	1	3	4	4	2	3	6
3451	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Novosphingobium	10	8	1	4	3	14	7	4	12
1945	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	705	1651	485	429	968	1612	189	552	1727
3461	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	32	51	16	16	20	62	11	12	59
4139	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	22	25	18	13	27	41	6	9	23
3105	Proteobacteria;Betaproteobacteria;Burkholderiales;Burkholderiaceae;Burkholderia	1	16	2	3	5	6	1	8	12
2263	Proteobacteria;Betaproteobacteria;Burkholderiales;Burkholderiales_incertae_sedis;Aquabacterium	6	18	7	2	13	12	2	3	40
1855	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	8	35	11	8	17	56	3	10	68
2759	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	18	54	17	14	32	40	3	16	107
2016	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	3	3	10	4	4	6	3	3	5
3468	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Diaphorobacter	11	37	11	5	15	15	2	14	105
2509	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Microvirgula	8	32	10	8	29	98	6	23	27
2794	Proteobacteria;Epsilonproteobacteria;Campylobacteriales;Campylobacteriaceae;Arcobacter	16	73	15	22	41	148	4	23	42
446	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	6	20	6	2	13	23	1	5	6
4341	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	1	21	6	5	15	21	1	1	5
1814	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Cedecea	1	4	1	5	1	2	4	1	6
3841	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Citrobacter	108	408	107	113	255	426	62	156	342
460	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Erwinia	166	14	12	11	7	15	246	5	10
3492	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Escherichia/Shigella	9	20	34	15	23	24	13	15	15
1488	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Klebsiella	12	46	15	15	39	53	6	25	43
4017	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Morganella	1	5	5	3	2	6	2	2	7
3907	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Pantoea	193	16	12	6	11	4	325	1	21

5558	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Serratia	5	26	26	11	3	20	25	1	35
3848	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae	11	10	3	3	12	17	2	11	14
5154	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae	12	47	5	11	36	45	4	12	55
526	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	17	123	30	32	71	110	10	37	112
893	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	11	59	20	19	37	67	9	26	50
1370	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	16	102	21	20	55	64	2	34	99
2675	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	37	257	66	57	142	196	22	121	185
563	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	6	3	1	5	3	7	2	5	10
2828	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	10	25	14	11	17	26	1	12	37
3197	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	6	26	1	2	7	16	1	4	24
1192	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	4	7	6	3	4	8	3	7	13
2006	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae	30	4	1	1	1	4	52	4	1
1438	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	45	9	3	3	7	3	95	2	1
684	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	225	28	19	8	13	17	402	6	14
2252	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	29	7	10	7	5	3	50	4	5
1386	unclassified Bacteria	70	4	2	4	6	5	146	5	4
3794	unclassified Bacteria	9	16	2	9	26	21	4	16	35
4670	unclassified Bacteria	7	12	4	2	6	21	2	3	13

Footnotes:

1. OTUs appearing in every fish reared at low density on a fishmeal diet. Table values constitute the number of times a give OTU is observed in each sample.
2. Sequences were grouped in an OTU if they share 97% or more identity to a representative sequence
3. Taxonomy assigned if at least 90% of sequences in the OTU are in agreement for the classification

Table S8. Grain-based, high density treatment core microbiota¹

#OTU ID ²	Consensus Lineage ³	1B2	2B2	3B2	1B6	2B6	3B6	1B9	2B9	3B9
2949	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	2	1	14	6	5	12	2	3	5
4311	Actinobacteria;Actinobacteria;Actinomycetales;Microbacteriaceae;Leifsonia	12	1	15	7	4	11	3	6	1
4183	Actinobacteria;Actinobacteria;Actinomycetales;Propionibacteriaceae;Propionibacterium	3	8	10	3	5	12	3	4	7
4906	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae	2	3	7	3	4	8	4	1	1
3213	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	25	25	54	51	44	43	23	26	35
80	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	4	1	10	7	6	2	1	1	1
1695	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	1	4	2	1	4	7	2	1	2
4854	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Cloacibacterium	15	9	33	21	27	32	15	16	77
681	Bacteroidetes;Sphingobacteria;Sphingobacteriales;Cytophagaceae;Flectobacillus	3	3	8	8	7	16	7	8	9
763	Firmicutes;Bacilli;Bacillales;Bacillaceae	18	4	11	6	10	14	3	7	11
4912	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	21	8	20	8	10	37	8	5	20
1568	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Staphylococcus	20	4	17	7	17	21	8	14	21
2642	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Staphylococcus	15	6	19	4	10	9	5	2	17
1199	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	11	10	20	23	15	20	7	9	7
2572	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	21	23	53	28	29	34	16	15	32
3870	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	1	1	6	5	1	3	2	1	2
1802	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	43	22	63	27	35	66	28	24	98
1815	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	8	6	22	8	7	11	5	5	10
361	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	5	3	11	4	6	3	7	2	13
3526	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	3	2	4	2	3	12	1	1	2
3978	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae	9	6	29	19	14	28	11	7	23
1328	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	382	285	770	398	473	786	275	248	532
977	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	12	3	14	2	13	11	7	4	7
1372	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	58	71	163	88	95	145	71	51	107
4905	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	886	652	1774	961	1115	1685	658	614	1333
5017	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	9	10	13	7	10	13	8	4	18
384	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae	13	19	25	17	15	14	9	15	17
277	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	12	5	13	5	7	21	4	2	11
894	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	200	205	459	260	286	437	179	140	291
1265	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	23	7	38	12	21	49	9	12	29
1404	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	82	89	211	107	90	178	75	69	125
2767	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	16	5	17	17	16	19	9	6	21
2942	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	86	76	236	134	127	175	73	76	144
3017	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	1	2	6	5	5	2	4	2	3
708	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	3	2	14	2	1	8	3	3	8
997	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	20	3	21	15	25	45	9	13	66
5231	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	105	137	213	105	155	230	94	81	186
2667	Firmicutes;Clostridia;Clostridiales;Lachnospiraceae	3	1	2	3	5	7	2	2	11
2533	Firmicutes;Clostridia;Clostridiales;Veillonellaceae;Veillonella	29	28	50	33	37	63	14	9	34
3629	Proteobacteria;Alphaproteobacteria;Caulobacteriales;Caulobacteraceae	3	3	11	2	2	14	1	3	1
649	Proteobacteria;Alphaproteobacteria;Rhizobiales	7	3	5	4	9	9	2	1	7
0	Proteobacteria;Alphaproteobacteria;Rhizobiales;Bradyrhizobiaceae	35	16	50	31	49	50	18	44	30
3190	Proteobacteria;Alphaproteobacteria;Rhizobiales;Bradyrhizobiaceae	22	30	59	39	46	64	72	50	51
5588	Proteobacteria;Alphaproteobacteria;Sphingomonadales	11	2	12	2	9	5	4	6	8
2938	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae	75	32	132	93	119	140	86	118	129
3451	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Novosphingobium	3	4	6	4	2	10	6	4	15
1945	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	683	418	1777	882	1141	1593	523	1104	1113
3461	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	25	11	50	30	37	47	13	38	43
4139	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	14	5	21	17	40	35	16	18	22
3105	Proteobacteria;Betaproteobacteria;Burkholderiales;Burkholderiaceae;Burkholderia	80	4	17	11	8	39	3	6	11
2263	Proteobacteria;Betaproteobacteria;Burkholderiales;Burkholderiales_incertae_sedis;Aquabacterium	5	3	16	4	11	10	7	7	49
1855	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	19	15	26	19	11	14	9	5	39
2759	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	64	9	42	24	30	44	15	20	112
2016	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	1	5	4	2	2	7	5	4	7
4227	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	2	1	8	4	4	4	3	3	4
5543	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Comamonas	3	1	1	1	1	4	1	2	3
3468	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Diaphorobacter	26	12	32	15	22	26	12	10	81
2509	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Microvirgula	17	39	40	19	24	40	16	17	21
3896	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Vogesella	3	2	4	6	6	9	4	2	1

2794	Proteobacteria;Epsilonproteobacteria;Campylobacterales;Campylobacteraceae;Arcobacter	34	42	52	37	32	72	21	24	25
85	Proteobacteria;Epsilonproteobacteria;Campylobacterales;Campylobacteraceae;Sulfurospirillum	2	1	12	6	3	12	4	1	3
446	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	12	8	27	10	13	20	12	5	15
5100	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	2	2	4	3	2	6	3	3	4
4341	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	10	8	14	30	14	11	9	12	12
4497	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	9	7	21	8	14	25	4	10	8
3841	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Citrobacter	159	219	354	276	198	381	162	166	244
460	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Erwinia	17	5	10	12	8	13	314	4	11
3492	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Escherichia/Shigella	14	8	27	15	14	16	28	13	14
1488	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Klebsiella	16	20	41	31	30	43	19	14	27
3907	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Pantoea	9	3	15	12	16	14	402	1	5
5558	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Serratia	39	2	1	4	3	17	34	6	21
3848	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae	6	10	12	6	4	13	13	6	14
5154	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae	19	13	25	27	22	25	11	16	30
526	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	69	45	97	56	57	94	29	41	64
893	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	34	30	64	31	52	50	14	12	31
1370	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	19	24	63	46	37	67	28	22	47
2675	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	87	257	289	112	144	176	61	62	130
2828	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	14	10	33	17	12	33	12	7	17
3197	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	8	7	17	7	3	18	6	6	13
1192	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	6	5	8	3	2	5	3	5	8
2006	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae	3	3	2	2	2	2	63	1	4
684	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	8	1	13	10	24	18	623	16	10
1614	Proteobacteria;Gammaproteobacteria;Xanthomonadales;Xanthomonadaceae;Stenotrophomonas	3	2	2	3	4	1	9	1	2
922	unclassified Bacteria	4	15	20	5	8	9	12	5	6
1386	unclassified Bacteria	1	4	1	5	7	6	179	1	7
3794	unclassified Bacteria	14	19	85	9	18	43	8	2	15
4670	unclassified Bacteria	5	2	7	5	8	4	5	4	5

Footnotes:

1. OTUs appearing in every fish reared at high density on a soy diet. Table values constitute the number of times a give OTU is observed in each sample.
2. Sequences were grouped in an OTU if they share 97% or more identity to a representative sequence
3. Taxonomy assigned if at least 90% of sequences in the OTU are in agreement for the classification

Table S9. Grain-based, low density treatment core microbiota¹

#OTU ID ²	Consensus Lineage ³	1B11	2B11	3B11	1B12	2B12	3B12	1B7	2B7	3B7
2454	Actinobacteria;Actinobacteria;Actinomycetales;Nocardiaaceae;Gordonia	2	9	1	2	3	2	1	4	4
3213	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	15	35	10	34	60	14	18	31	21
1695	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	2	4	5	3	15	1	4	4	5
4854	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Cloacibacterium	16	230	4	17	56	3	26	16	23
681	Bacteroidetes;Sphingobacteria;Sphingobacteriales;Cytophagaceae;Flectobacillus	2	32	1	117	65	8	3	12	5
763	Firmicutes;Bacilli;Bacillales;Bacillaceae	6	14	3	12	26	6	3	7	23
4912	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	4	13	2	7	21	5	1	43	18
111	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	3	15	2	11	29	1	5	3	12
3974	Firmicutes;Bacilli;Bacillales;Bacillaceae;Virgibacillus	8	7	3	12	18	5	4	11	16
740	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Jeotgalicoccus	5	1	4	7	4	4	1	11	5
1568	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Staphylococcus	5	26	1	10	29	5	2	21	19
2642	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Staphylococcus	4	20	5	5	20	5	6	10	10
1199	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	4	15	4	11	29	6	6	6	12
2572	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	11	20	7	15	45	4	9	27	22
1802	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	20	87	15	42	63	15	38	43	54
1815	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	6	5	3	9	16	2	6	7	13
361	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	1	13	1	10	9	3	4	3	8
3978	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae	9	17	6	13	43	7	5	21	24
1328	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	202	413	136	424	939	145	279	353	494
1052	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	6	15	1	10	22	56	6	10	3
977	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	6	6	3	4	8	4	2	5	7
1372	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	41	95	28	114	212	29	64	73	82
4905	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	512	1065	281	1043	2257	358	754	828	1086
5017	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	3	8	1	7	21	9	12	5	9
1588	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	1	1	1	5	2	2	1	3	2
1138	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	1	8	1	7	13	1	5	3	5
384	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae	9	14	7	13	32	5	5	6	14
5461	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae	1	9	1	4	5	4	1	4	3
277	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	2	11	3	2	17	3	5	6	1
894	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	125	211	64	227	534	86	137	203	264
1265	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	6	16	8	31	46	10	15	25	33
1404	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	58	90	46	111	237	71	74	130	122
2767	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	3	6	6	12	20	9	5	10	13
2942	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	62	133	47	107	253	94	66	99	120
3017	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	2	5	1	5	5	2	3	5	4
708	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	4	1	3	7	9	2	3	11	3
997	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	10	29	7	15	27	7	20	22	33
5231	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	51	163	18	150	221	42	76	138	183
1323	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	7	15	5	5	18	2	2	8	9
2533	Firmicutes;Clostridia;Clostridiales;Veillonellaceae;Veillonella	21	29	16	17	62	11	18	11	34
2338	Proteobacteria;Alphaproteobacteria;Rhizobiales	2	2	1	6	9	3	3	5	3
0	Proteobacteria;Alphaproteobacteria;Rhizobiales;Bradyrhizobiaceae	14	26	3	30	52	6	12	25	34
3190	Proteobacteria;Alphaproteobacteria;Rhizobiales;Bradyrhizobiaceae	36	78	6	77	84	9	19	39	23
2938	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae	58	222	17	104	177	27	57	100	62
1945	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	469	1489	166	864	1755	214	484	931	940
3461	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	13	43	7	24	55	8	18	35	43
4139	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Sphingomonas	9	44	5	12	33	12	13	19	23
2263	Proteobacteria;Betaproteobacteria;Burkholderiales;Burkholderiales_incertae_sedis;Aquabacterium	8	98	1	9	30	2	4	7	7
1855	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	8	63	8	13	41	7	14	11	24
2759	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	16	187	4	21	48	15	20	22	31
3468	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Diaphorobacter	6	119	2	12	49	5	16	9	8
2509	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Microvirgula	16	22	7	26	50	3	11	17	13
2794	Proteobacteria;Epsilonproteobacteria;Campylobacteriales;Campylobacteriaceae;Arcobacter	21	30	11	38	60	6	25	33	32
446	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	6	11	1	21	22	2	4	9	8
5100	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	2	2	2	7	7	1	2	3	3
4341	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	6	11	3	5	29	4	6	6	17
4497	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	3	12	5	7	25	4	6	13	11
4121	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	5	2	3	2	12	2	4	9	3
3841	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Citrobacter	135	189	59	195	345	77	104	156	245
460	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Erwinia	11	42	1	10	24	6	13	7	7
3492	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Escherichia/Shigella	5	69	3	284	165	12	5	9	9
1488	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Klebsiella	17	24	7	18	80	13	15	23	22
3907	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Pantoea	18	60	2	15	27	15	8	10	15
5558	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Serratia	6	19	4	7	39	8	13	29	12
3848	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae	4	11	2	11	18	4	5	12	8

5154	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae	11	23	3	21	41	6	21	21	20
526	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	25	58	23	49	132	21	32	69	57
893	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	5	19	15	40	52	5	20	29	42
1370	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	24	37	6	29	69	20	19	29	42
2675	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	63	117	48	84	210	39	98	90	138
197	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	5	5	2	4	8	1	2	5	3
563	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	2	4	2	8	10	1	4	2	2
2828	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	15	28	7	14	32	6	13	22	25
3197	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	6	5	2	8	26	1	2	7	13
684	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	12	59	1	34	29	4	2	6	19

Footnotes:

1. OTUs appearing in every fish reared at low density on a soy diet. Table values constitute the number of times a give OTU is observed in each sample.
2. Sequences were grouped in an OTU if they share 97% or more identity to a representative sequence
3. Taxonomy assigned if at least 90% of sequences in the OTU are in agreement for the classification

Table S10. Fishmeal-based, high density accessory core¹

#OTU ID ²	Consensus Lineage ³	1B1	2B1	3B1	1B4	2B4	3B4
4842	Actinobacteria;Actinobacteria;Actinomycetales;Actinomycetaceae;Actinomyces	5	2	2	2	1	3
2949	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	16	5	1	2	1	8
2074	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	2	2	3	3	1	4
3338	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	6	2	2	4	4	5
4906	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae	7	3	2	1	1	1
80	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	6	2	7	3	3	6
111	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	8	1	2	2	2	28
5230	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	4	13	3	3	5	11
4699	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Vagococcus	1	5	2	1	1	10
1802	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	6	6	8	5	4	10
1815	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	28	12	11	11	1	13
1052	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	1	4	10	3	1	6
1417	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	3	3	2	3	1	6
1588	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	1	2	3	2	2	3
1138	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	5	5	3	4	5	13
4516	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	4	3	3	6	3	5
1323	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	24	7	3	8	7	31
95	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	2	3	2	1	1	4
2897	Firmicutes;Clostridia;Clostridiales	4	1	1	2	1	3
5459	Firmicutes;Clostridia;Clostridiales;Clostridiaceae;Clostridium	1	2	4	2	2	11
1673	Firmicutes;Clostridia;Clostridiales;Incertae Sedis XI	16	1	7	3	5	13
781	Firmicutes;Clostridia;Clostridiales;Peptococcaceae;Peptococcus	4	1	1	3	2	2
4580	Firmicutes;Clostridia;Clostridiales;Peptostreptococcaceae	9	8	7	3	3	33
3480	Firmicutes;Clostridia;Clostridiales;Veillonellaceae;Veillonella	4	1	3	2	2	3
2022	Fusobacteria;Fusobacteria;Fusobacteriales;Fusobacteriaceae	2	1	6	1	4	7
1410	Proteobacteria;Alphaproteobacteria;Alphaproteobacteria_incertae_sedis;Novispirillum	2	2	3	3	8	4
1864	Proteobacteria;Alphaproteobacteria;Caulobacterales;Caulobacteraceae;Asticcacaulis	9	1	1	1	1	1
2338	Proteobacteria;Alphaproteobacteria;Rhizobiales	15	7	2	2	3	8
1316	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae	5	5	1	3	3	3
1816	Proteobacteria;Betaproteobacteria;Burkholderiales	5	6	1	1	4	4
5544	Proteobacteria;Betaproteobacteria;Burkholderiales;Alcaligenaceae	3	2	1	2	2	3
2016	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	6	4	4	6	1	4
3903	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Comamonas	5	1	3	2	3	13
5201	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Vitreoscilla	2	11	9	4	1	11
3896	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Vogesella	1	6	3	2	4	7
5399	Proteobacteria;Betaproteobacteria;Rhodocyclales;Rhodocyclaceae;Azonexus	5	1	4	1	3	4
85	Proteobacteria;Epsilonproteobacteria;Campylobacteriales;Campylobacteraceae;Sulfurospirillum	7	9	6	2	8	8
3236	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	3	6	4	2	1	1
4497	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	22	26	12	10	11	16
197	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	10	13	3	3	3	10
563	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	7	6	6	4	2	9
1192	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	11	10	6	6	2	13
2252	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	4	9	1	4	5	18
5089	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	15	1	2	1	4	4
922	unclassified Bacteria	3	2	2	1	1	5
1386	unclassified Bacteria	5	8	3	9	6	4
3794	unclassified Bacteria	23	23	21	14	14	16
4670	unclassified Bacteria	14	11	3	1	8	21

Footnotes:

1. OTUs that are observed in every fish reared at high density on a fishmeal diet but not necessarily in fish raised under different diet and/or density conditions. Table values constitute the number of times a give OTU is observed in each sample.
2. Sequences were grouped in an OTU if they share 97% or more identity to a representative sequence.
3. Taxonomy assigned if at least 90% of sequences in the OTU are in agreement for the classification.

Table S11. Fishmeal-based, low density accessory core¹

#OTU ID ²	Consensus Lineage ³	1B10	2B10	3B10	1B3	2B3	3B3	1B5	2B5	3B5
2949	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	4	5	3	3	11	14	2	1	20
4311	Actinobacteria;Actinobacteria;Actinomycetales;Microbacteriaceae;Leifsonia	5	11	1	1	4	7	1	5	9
111	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	8	14	6	5	4	9	13	3	6
3526	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	5	10	1	1	5	7	1	3	8
1052	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	4	3	1	6	11	4	1	6	11
1138	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	4	11	2	1	4	4	1	5	10
1323	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	2	7	6	6	14	18	1	7	30
649	Proteobacteria;Alphaproteobacteria;Rhizobiales	3	16	1	1	6	9	7	4	8
2338	Proteobacteria;Alphaproteobacteria;Rhizobiales	3	4	5	2	5	8	8	4	11
5588	Proteobacteria;Alphaproteobacteria;Sphingomonadales	9	9	7	6	3	23	3	7	10
2751	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae	4	1	1	3	4	4	2	3	6
3451	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Novosphingobium	10	8	1	4	3	14	7	4	12
3105	Proteobacteria;Betaproteobacteria;Burkholderiales;Burkholderiaceae;Burkholderia	1	16	2	3	5	6	1	8	12
2016	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	3	3	10	4	4	6	3	3	5
1814	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Cedecea	1	4	1	5	1	2	4	1	6
4017	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Morganella	1	5	5	3	2	6	2	2	7
5558	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Serratia	5	26	26	11	3	20	25	1	35
563	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	6	3	1	5	3	7	2	5	10
1192	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	4	7	6	3	4	8	3	7	13
2006	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae	30	4	1	1	1	4	52	4	1
1438	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	45	9	3	3	7	3	95	2	1
2252	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	29	7	10	7	5	3	50	4	5
1386	unclassified Bacteria	70	4	2	4	6	5	146	5	4
3794	unclassified Bacteria	9	16	2	9	26	21	4	16	35
4670	unclassified Bacteria	7	12	4	2	6	21	2	3	13

Footnotes:

1. OTUs that are observed in every fish reared at low density on a fishmeal diet but not necessarily in fish raised under different diet and/or density conditions. Table values constitute the number of times a give OTU is observed in each sample.
2. Sequences were grouped in an OTU if they share 97% or more identity to a representative sequence
3. Taxonomy assigned if at least 90% of sequences in the OTU are in agreement for the classification

Table S12. Grain-based, high density accessory core¹

#OTU ID ²	Consensus Lineage ³	1B2	2B2	3B2	1B6	2B6	3B6	1B9	2B9	3B9
2949	Actinobacteria;Actinobacteria;Actinomycetales;Corynebacteriaceae;Corynebacterium	2	1	14	6	5	12	2	3	5
4311	Actinobacteria;Actinobacteria;Actinomycetales;Microbacteriaceae;Leifsonia	12	1	15	7	4	11	3	6	1
4183	Actinobacteria;Actinobacteria;Actinomycetales;Propionibacteriaceae;Propionibacterium	3	8	10	3	5	12	3	4	7
4906	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae	2	3	7	3	4	8	4	1	1
1695	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	1	4	2	1	4	7	2	1	2
80	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	4	1	10	7	6	2	1	1	1
763	Firmicutes;Bacilli;Bacillales;Bacillaceae	18	4	11	6	10	14	3	7	11
2642	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Staphylococcus	15	6	19	4	10	9	5	2	17
3870	Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	1	1	6	5	1	3	2	1	2
361	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	5	3	11	4	6	3	7	2	13
3526	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	3	2	4	2	3	12	1	1	2
1802	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	43	22	63	27	35	66	28	24	98
1815	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	8	6	22	8	7	11	5	5	10
3017	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	1	2	6	5	5	2	4	2	3
2667	Firmicutes;Clostridia;Clostridiales;Lachnospiraceae	3	1	2	3	5	7	2	2	11
3629	Proteobacteria;Alphaproteobacteria;Caulobacteriales;Caulobacteraceae	3	3	11	2	2	14	1	3	1
649	Proteobacteria;Alphaproteobacteria;Rhizobiales	7	3	5	4	9	9	2	1	7
5588	Proteobacteria;Alphaproteobacteria;Sphingomonadales	11	2	12	2	9	5	4	6	8
3451	Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Novosphingobium	3	4	6	4	2	10	6	4	15
3105	Proteobacteria;Betaproteobacteria;Burkholderiales;Burkholderiaceae;Burkholderia	80	4	17	11	8	39	3	6	11
4227	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	2	1	8	4	4	4	3	3	4
2016	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Acidovorax	1	5	4	2	2	7	5	4	7
5543	Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Comamonas	3	1	1	1	1	4	1	2	3
3896	Proteobacteria;Betaproteobacteria;Neisseriales;Neisseriaceae;Vogesella	3	2	4	6	6	9	4	2	1
85	Proteobacteria;Epsilonproteobacteria;Campylobacteriales;Campylobacteraceae;Sulfurospirillum	2	1	12	6	3	12	4	1	3
5100	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	2	2	4	3	2	6	3	3	4
4497	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	9	7	21	8	14	25	4	10	8
5558	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Serratia	39	2	1	4	3	17	34	6	21
1192	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Enhydrobacter	6	5	8	3	2	5	3	5	8
2006	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae	3	3	2	2	2	2	63	1	4
1614	Proteobacteria;Gammaproteobacteria;Xanthomonadales;Xanthomonadaceae;Stenotrophomonas	3	2	2	3	4	1	9	1	2
922	unclassified Bacteria	4	15	20	5	8	9	12	5	6
1386	unclassified Bacteria	1	4	1	5	7	6	179	1	7
3794	unclassified Bacteria	14	19	85	9	18	43	8	2	15
4670	unclassified Bacteria	5	2	7	5	8	4	5	4	5

Footnotes:

1. OTUs that are observed in every fish reared at high density on a soy diet but not necessarily in fish raised under different diet and/or density conditions. Table values constitute the number of times a give OTU is observed in each sample.
2. Sequences were grouped in an OTU if they share 97% or more identity to a representative sequence
3. Taxonomy assigned if at least 90% of sequences in the OTU are in agreement for the classification

Table S13. Grain-based, low density accessory core¹

#OTU ID ²	Consensus Lineage ³	1B11	2B11	3B11	1B12	2B12	3B12	1B7	2B7	3B7
2454	Actinobacteria;Actinobacteria;Actinomycetales;Nocardiaceae;Gordonia	2	9	1	2	3	2	1	4	4
1695	Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Chryseobacterium	2	4	5	3	15	1	4	4	5
763	Firmicutes;Bacilli;Bacillales;Bacillaceae	6	14	3	12	26	6	3	7	23
111	Firmicutes;Bacilli;Bacillales;Bacillaceae;Bacillus	3	15	2	11	29	1	5	3	12
3974	Firmicutes;Bacilli;Bacillales;Bacillaceae;Virgibacillus	8	7	3	12	18	5	4	11	16
740	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Jeotgalicoccus	5	1	4	7	4	4	1	11	5
2642	Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Staphylococcus	4	20	5	5	20	5	6	10	10
361	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	1	13	1	10	9	3	4	3	8
1802	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	20	87	15	42	63	15	38	43	54
1815	Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	6	5	3	9	16	2	6	7	13
1052	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Leuconostoc	6	15	1	10	22	56	6	10	3
1588	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	1	1	1	5	2	2	1	3	2
1138	Firmicutes;Bacilli;Lactobacillales;Leuconostocaceae;Weissella	1	8	1	7	13	1	5	3	5
5461	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae	1	9	1	4	5	4	1	4	3
3017	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	2	5	1	5	5	2	3	5	4
1323	Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	7	15	5	5	18	2	2	8	9
2338	Proteobacteria;Alphaproteobacteria;Rhizobiales	2	2	1	6	9	3	3	5	3
5100	Proteobacteria;Gammaproteobacteria;Aeromonadales;Aeromonadaceae;Aeromonas	2	2	2	7	7	1	2	3	3
4121	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	5	2	3	2	12	2	4	9	3
4497	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae	3	12	5	7	25	4	6	13	11
5558	Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Serratia	6	19	4	7	39	8	13	29	12
197	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	5	5	2	4	8	1	2	5	3
563	Proteobacteria;Gammaproteobacteria;Pseudomonadales;Moraxellaceae;Acinetobacter	2	4	2	8	10	1	4	2	2

Footnotes:

1. OTUs that are observed in every fish reared at low density on a soy diet but not necessarily in fish raised under different diet and/or density conditions. Table values constitute the number of times a given OTU is observed in each sample.
2. Sequences were grouped in an OTU if they share 97% or more identity to a representative sequence
3. Taxonomy assigned if at least 90% of sequences in the OTU are in agreement for the classification

Table S14. LEfSe comparison of all fishmeal-based groups against all grain-based groups

Taxon ¹	Log10 [(mean relative abundance) x (10 ⁶)] from group with higher relative abundance of taxon	Group with significantly higher logarithmic LDA score	Logarithmic LDA score of higher-scoring group
Bacteria	6		
Bacteria.Acidobacteria	0		
Bacteria.Acidobacteria.Acidobacteria	0		
Bacteria.Acidobacteria.Acidobacteria Gp1	0		
Bacteria.Acidobacteria.Acidobacteria Gp1.Gp1	0		
Bacteria.Acidobacteria.Acidobacteria Gp1.Gp1.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp1.Gp1.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp16	0		
Bacteria.Acidobacteria.Acidobacteria Gp16.Gp16	0		
Bacteria.Acidobacteria.Acidobacteria Gp16.Gp16.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp16.Gp16.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp2	0		
Bacteria.Acidobacteria.Acidobacteria Gp2.Gp2	0		
Bacteria.Acidobacteria.Acidobacteria Gp2.Gp2.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp2.Gp2.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp3	0		
Bacteria.Acidobacteria.Acidobacteria Gp3.Gp3	0		
Bacteria.Acidobacteria.Acidobacteria Gp3.Gp3.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp3.Gp3.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp4	0		
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Bacteria.Firmicutes.Bacilli.Bacillales.Planococcaceae.unclassified_genus	0		
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Bacteria.Firmicutes.Bacilli.Bacillales.Staphylococcaceae.Saliniocooccus	0		
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Bacteria.Firmicutes.Bacilli.Lactobacillales.Leuconostocaceae.unclassified_genus	3.340552621		
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Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae	5.17349219	Grain-based	3.947605787
Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae.Lactococcus	5.048149257		
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Bacteria.Firmicutes.Clostridia.Clostridiales.Eubacteriaceae.unclassified_genus	0		
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Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Peptoniphilus	0		
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Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Tepidimicrobium	0		
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Bacteria.Proteobacteria.unclassified_class.unclassified_order	0	
Bacteria.Proteobacteria.unclassified_class.unclassified_order.unclassified_family	0	
Bacteria.Proteobacteria.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Spirochaetes	0	
Bacteria.Spirochaetes.Spirochaetes	0	
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales	0	
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales.Spirochaetaceae	0	
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Bacteria.Synergistetes.Synergistia.Synergistales	0	
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Bacteria.TM7.TM7_genera_incertae_sedis.unclassified_order	0	
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Bacteria.Verrucomicrobia.Opitutae	0	
Bacteria.Verrucomicrobia.Opitutales	0	
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Bacteria.Verrucomicrobia.Spartobacteria	0	
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria_genera_incertae_sedis	0	
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria_genera_incertae_sedis.unclassified_family	0	
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Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales	0	
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae	0	
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae.Akkermansia	0	

Footnotes:

1. Taxonomic assignment determined using RDP classifier to compare a representative sequence from each OTU to reference sequences in the greengenes database.

Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.Knoellia	0	
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Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.unclassified_genus	0	
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Jonesiaceae	0	
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Jonesiaceae.Jonesia	0	
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Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Agrococcus	0	
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Clavibacter	0	
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Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.unclassified_genus	0	
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Bacteria.Proteobacteria.Deltaproteobacteria.Myxococcales.Cystobacteraceae.Cystobacter	0	
Bacteria.Proteobacteria.Deltaproteobacteria.Myxococcales.Cystobacteraceae.unclassified_genus	0	
Bacteria.Proteobacteria.Deltaproteobacteria.Myxococcales.Nannocystaceae	0	
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Bacteria.Proteobacteria.Deltaproteobacteria.Myxococcales.Polyangiaceae	0	
Bacteria.Proteobacteria.Deltaproteobacteria.Myxococcales.Polyangiaceae.Byssovorax	0	
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Bacteria.Proteobacteria.Deltaproteobacteria.Myxococcales.unclassified_family	0	
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Bacteria.Proteobacteria.Deltaproteobacteria.unclassified_order.unclassified_family	0	
Bacteria.Proteobacteria.Deltaproteobacteria.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Proteobacteria.Epsilonproteobacteria	3.975339672	
Bacteria.Proteobacteria.Epsilonproteobacteria.Campylobacteriales	3.975339672	
Bacteria.Proteobacteria.Epsilonproteobacteria.Campylobacteriales.Campylobacteraceae	3.975339672	
Bacteria.Proteobacteria.Epsilonproteobacteria.Campylobacteriales.Campylobacteraceae.Arcobacter	3.975339672	
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Bacteria.Proteobacteria.Epsilonproteobacteria.Campylobacteriales.Campylobacteraceae.Sulfurospirillum	0	
Bacteria.Proteobacteria.Epsilonproteobacteria.Campylobacteriales.Helicobacteraceae	0	
Bacteria.Proteobacteria.Epsilonproteobacteria.Campylobacteriales.Helicobacteraceae.Helicobacter	0	
Bacteria.Proteobacteria.Epsilonproteobacteria.unclassified_order	0	
Bacteria.Proteobacteria.Epsilonproteobacteria.unclassified_order.unclassified_family	0	
Bacteria.Proteobacteria.Epsilonproteobacteria.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Proteobacteria.Gammaproteobacteria	5.25934003	
Bacteria.Proteobacteria.Gammaproteobacteria.Aeromonadales	2.776244546	
Bacteria.Proteobacteria.Gammaproteobacteria.Aeromonadales.Aeromonadaceae	2.776244546	
Bacteria.Proteobacteria.Gammaproteobacteria.Aeromonadales.Aeromonadaceae.Aeromonas	2.776244546	
Bacteria.Proteobacteria.Gammaproteobacteria.Aeromonadales.Aeromonadaceae.unclassified_genus	0	
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Bacteria.Proteobacteria.Gammaproteobacteria.Alteromonadales.Shewanellaceae.Shewanella	0	
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Bacteria.Proteobacteria.Gammaproteobacteria.Chromatiales	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Chromatiales.Chromatiaceae	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Chromatiales.Chromatiaceae.Rheinheimera	0	

Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales	4.926510645	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae	4.926510645	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Buttiauxella	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Cedecea	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Citrobacter	4.674523572	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Cronobacter	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Enterobacter	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Erwinia	3.932202644	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Escherichia_Shigella	3.776942827	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Klebsiella	3.735951079	
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Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Morganella	0	
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Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Raoultella	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Enterobacteriales.Enterobacteriaceae.Serratia	3.392598597	
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Bacteria.Proteobacteria.Gammaproteobacteria.Gammaproteobacteria_incertae_sedis	2.776244546	
Bacteria.Proteobacteria.Gammaproteobacteria.Gammaproteobacteria_incertae_sedis.Solimonas	2.776244546	
Bacteria.Proteobacteria.Gammaproteobacteria.Gammaproteobacteria_incertae_sedis.Solimonas.unclassified_genus	2.776244546	
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Bacteria.Proteobacteria.Gammaproteobacteria.Pasteurellales.Pasteurellaceae.Agregatibacter	0	
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Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales	4.979802458	
Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales.Moraxellaceae	4.902592569	
Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales.Moraxellaceae.Acinetobacter	4.800960111	
Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales.Moraxellaceae.Alkanindiges	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales.Moraxellaceae.Enhydrobacter	3.941063178	
Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales.Moraxellaceae.Moraxella	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales.Moraxellaceae.Perlucidibaca	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales.Moraxellaceae.Psychrobacter	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales.Moraxellaceae.unclassified_genus	3.899933385	
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Bacteria.Proteobacteria.Gammaproteobacteria.Pseudomonadales.Pseudomonadaceae.Pseudomonas	4.376590197	
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Bacteria.Proteobacteria.Gammaproteobacteria.Salinisphaerales	0	
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Bacteria.Proteobacteria.Gammaproteobacteria.unclassified_order.unclassified_family	0	
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Bacteria.Proteobacteria.Gammaproteobacteria.Vibrionales.Vibrionaceae.unclassified_genus	0	
Bacteria.Proteobacteria.Gammaproteobacteria.Vibrionales.Vibrionaceae.Vibrio	0	
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Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.Wohlfahrtimonas	0	
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Bacteria.Proteobacteria.unclassified_class.unclassified_order.unclassified_family	0	
Bacteria.Proteobacteria.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Spirochaetes	0	
Bacteria.Spirochaetes.Spirochaetes	0	
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales	0	
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales.Spirochaetaeaceae	0	
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales.Spirochaetaeaceae.Treponema	0	
Bacteria.SR1	0	

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Bacteria.Synergistetes	0		
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Bacteria.Synergistetes.Synergistia.Synergistales	0		
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Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales.Anaeroplasmataceae	0		
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Bacteria.TM7	0		
Bacteria.TM7.TM7_genera_incertae_sedis	0		
Bacteria.TM7.TM7_genera_incertae_sedis.unclassified_order	0		
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Bacteria.Verrucomicrobia.Opitutae	0		
Bacteria.Verrucomicrobia.Opitutae.Opitutales	0		
Bacteria.Verrucomicrobia.Opitutae.Opitutales.Opitutaceae	0		
Bacteria.Verrucomicrobia.Opitutae.Opitutales.Opitutaceae.Opitutus	0		
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Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria_genera_incertae_sedis	0		
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria_genera_incertae_sedis.unclassified_family	0		
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Bacteria.Verrucomicrobia.unclassified_class.unclassified_order	0		
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Bacteria.Verrucomicrobia.Verrucomicrobiae	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae.Akkermansia	0		

Footnotes:

1. Taxonomic assignment determined using RDP classifier to compare a representative sequence from each OTU to reference sequences in the greengenes database.

Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Arthrobacter	3.101274818		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Kocuria	0		
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Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Nesterenkonia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Rothia	0		
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Bacteria.Actinobacteria.Actinobacteria.unclassified_order.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Aquificae	0		
Bacteria.Aquificae.Aquificae	0		
Bacteria.Aquificae.Aquificae.Aquificales	0		
Bacteria.Aquificae.Aquificae.Aquificales.Hydrogenothermaceae	0		
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Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Riemerella	0		

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Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.unclassified_family	0	
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Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.Pedobacter	0	
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Bacteria.Chloroflexi	0	
Bacteria.Chloroflexi.Anaerolineae	0	
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Bacteria.Firmicutes.Bacilli.Bacillales.Staphylococcaceae.Nosocomiicoccus		0	
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Bacteria.Firmicutes.Bacilli.Lactobacillales.Enterococcaceae.Enterococcus	4.039659764		
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Bacteria.Firmicutes.Bacilli.Lactobacillales.Leuconostocaceae.unclassified_genus	3.556749702		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Leuconostocaceae.Weissella	5.416201657	Fishmeal-based	4.340951048
Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae	5.175782145		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae.Lactococcus	5.112000431		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae.Streptococcus	4.573304732	Grain-based	4.096274975
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Bacteria.Proteobacteria.Gammaproteobacteria.Vibrionales.Vibrionaceae.Vibrio	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Sinobacteraceae	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Sinobacteraceae.Steroidobacter	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.Lysobacter	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.Pseudoxanthomonas	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.Stenotrophomonas	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.unclassified_genus	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.Wohlfahrtiimonas	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.Xanthomonas	0		
Bacteria.Proteobacteria.unclassified_class	0		
Bacteria.Proteobacteria.unclassified_class.unclassified_order	0		
Bacteria.Proteobacteria.unclassified_class.unclassified_order.unclassified_family	0		
Bacteria.Proteobacteria.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Spirochaetes	0		
Bacteria.Spirochaetes.Spirochaetes	0		
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales	0		
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales.Spirochaetaceae	0		
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales.Spirochaetaceae.Treponema	0		
Bacteria.SR1	0		
Bacteria.SR1.SR1 genera incertae sedis	0		
Bacteria.SR1.SR1 genera incertae sedis.unclassified_order	0		
Bacteria.SR1.SR1 genera incertae sedis.unclassified_order.unclassified_family	0		
Bacteria.SR1.SR1 genera incertae sedis.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Synergistetes	0		
Bacteria.Synergistetes.Synergistia	0		
Bacteria.Synergistetes.Synergistia.Synergistales	0		
Bacteria.Synergistetes.Synergistia.Synergistales.Synergistaceae	0		
Bacteria.Synergistetes.Synergistia.Synergistales.Synergistaceae.unclassified_genus	0		
Bacteria.Tenericutes	0		
Bacteria.Tenericutes.Mollicutes	0		
Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales	0		
Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales.Anaeroplasmataceae	0		
Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales.Anaeroplasmataceae.Anaeroplasma	0		
Bacteria.Tenericutes.Mollicutes.Mycoplasmatales	0		
Bacteria.Tenericutes.Mollicutes.Mycoplasmatales.Mycoplasmataceae	0		
Bacteria.Tenericutes.Mollicutes.Mycoplasmatales.Mycoplasmataceae.Mycoplasma	0		
Bacteria.TM7	0		
Bacteria.TM7.TM7 genera incertae sedis	0		
Bacteria.TM7.TM7 genera incertae sedis.unclassified_order	0		
Bacteria.TM7.TM7 genera incertae sedis.unclassified_order.unclassified_family	0		
Bacteria.TM7.TM7 genera incertae sedis.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.unclassified_phylum	4.369765597		
Bacteria.unclassified_phylum.unclassified_class	4.369765597		
Bacteria.unclassified_phylum.unclassified_class.unclassified_order	4.369765597		
Bacteria.unclassified_phylum.unclassified_class.unclassified_order.unclassified_family	4.369765597		
Bacteria.unclassified_phylum.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	4.369765597		
Bacteria.Verrucomicrobia	0		
Bacteria.Verrucomicrobia.Opitutae	0		
Bacteria.Verrucomicrobia.Opitutae.Opitutales	0		
Bacteria.Verrucomicrobia.Opitutae.Opitutales.Opitutaceae	0		
Bacteria.Verrucomicrobia.Opitutae.Opitutales.Opitutaceae.Opitutus	0		
Bacteria.Verrucomicrobia.Spartobacteria	0		
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria genera incertae sedis	0		
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria genera incertae sedis.unclassified_family	0		
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria genera incertae sedis.unclassified_family.unclassified_genus	0		
Bacteria.Verrucomicrobia.unclassified_class	0		
Bacteria.Verrucomicrobia.unclassified_class.unclassified_order	0		
Bacteria.Verrucomicrobia.unclassified_class.unclassified_order.unclassified_family	0		
Bacteria.Verrucomicrobia.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae.Akkermansia	0		

Footnotes:

1. Taxonomic assignment determined using RDP classifier to compare a representative sequence from each OTU to reference sequences in the greengenes database.

Table S17. LEfSe comparison of fishmeal-based, low density against grain-based, low density

Taxon ¹	Log10 [(mean relative abundance) x (10 ⁶)] from group with higher relative abundance of taxon	Group with significantly higher logarithmic LDA score	Logarithmic LDA score of higher-scoring group
Bacteria	6		
Bacteria.Acidobacteria	0		
Bacteria.Acidobacteria.Acidobacteria Gp1	0		
Bacteria.Acidobacteria.Acidobacteria Gp1.Gp1	0		
Bacteria.Acidobacteria.Acidobacteria Gp1.Gp1.unclassified_family	0		
Bacteria.Acidobacteria.Acidobacteria Gp1.Gp1.unclassified_family.unclassified_genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp16	0		
Bacteria.Acidobacteria.Acidobacteria Gp16.Gp16	0		
Bacteria.Acidobacteria.Acidobacteria Gp16.Gp16.unclassified_family	0		
Bacteria.Acidobacteria.Acidobacteria Gp16.Gp16.unclassified_family.unclassified_genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp2	0		
Bacteria.Acidobacteria.Acidobacteria Gp2.Gp2	0		
Bacteria.Acidobacteria.Acidobacteria Gp2.Gp2.unclassified_family	0		
Bacteria.Acidobacteria.Acidobacteria Gp2.Gp2.unclassified_family.unclassified_genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp3	0		
Bacteria.Acidobacteria.Acidobacteria Gp3.Gp3	0		
Bacteria.Acidobacteria.Acidobacteria Gp3.Gp3.unclassified_family	0		
Bacteria.Acidobacteria.Acidobacteria Gp3.Gp3.unclassified_family.unclassified_genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp4	0		
Bacteria.Acidobacteria.Acidobacteria Gp4.Gp4	0		
Bacteria.Acidobacteria.Acidobacteria Gp4.Gp4.unclassified_family	0		
Bacteria.Acidobacteria.Acidobacteria Gp4.Gp4.unclassified_family.unclassified_genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp5	0		
Bacteria.Acidobacteria.Acidobacteria Gp5.Gp5	0		
Bacteria.Acidobacteria.Acidobacteria Gp5.Gp5.unclassified_family	0		
Bacteria.Acidobacteria.Acidobacteria Gp5.Gp5.unclassified_family.unclassified_genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp6	0		
Bacteria.Acidobacteria.Acidobacteria Gp6.Gp6	0		
Bacteria.Acidobacteria.Acidobacteria Gp6.Gp6.unclassified_family	0		
Bacteria.Acidobacteria.Acidobacteria Gp6.Gp6.unclassified_family.unclassified_genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp7	0		
Bacteria.Acidobacteria.Acidobacteria Gp7.Gp7	0		
Bacteria.Acidobacteria.Acidobacteria Gp7.Gp7.unclassified_family	0		
Bacteria.Acidobacteria.Acidobacteria Gp7.Gp7.unclassified_family.unclassified_genus	0		
Bacteria.Actinobacteria	3.387746094		
Bacteria.Actinobacteria.Actinobacteria	3.387746094		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.Acidimicrobiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.Acidimicrobiaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.lamiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.lamiaceae.lamia	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.incertae_sedis	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.incertae_sedis.lumatobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.incertae_sedis.lumatobacter.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales	3.387746094		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Actinomycetaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Actinomycetaceae.Actinomyces	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Actinomycetaceae.Arcanobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Actinomycetaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Beutenbergiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Beutenbergiaceae.Salana	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Beutenbergiaceae.Serinibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Bogoriellaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Bogoriellaceae.Georgia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Bogoriellaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Brevibacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Brevibacteriaceae.Brevibacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Cellulomonadaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Cellulomonadaceae.Cellulomonas	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Cellulomonadaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Corynebacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Corynebacteriaceae.Corynebacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Corynebacteriaceae.Turicella	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Corynebacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dermabacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dermabacteraceae.Brachybacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dermacoccaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dermacoccaceae.Dermacoccus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dietziaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dietziaceae.Dietzia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Geodermatophilaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Geodermatophilaceae.Blastococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Geodermatophilaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.Janibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.Knoellia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.Ornithinimicrobium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.Tetrasphaera	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Jonesiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Jonesiaceae.Jonesia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Agrococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Clavibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Curtobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Frigonibacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Leifsonia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Leucobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Microbacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Plantibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Pseudoclavibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae	3.387746094		

Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Arthrobacter	3.387746094		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Kocuria	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Micrococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Nesterenkonia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Rothia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micromonosporaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micromonosporaceae.Luedemannella	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micromonosporaceae.Micromonospora	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Mycobacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Mycobacteriaceae.Mycobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.Gordonia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.Rhodococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.Williamsia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Aeromicrobium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Marmoricola	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Nocardioides	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Pimelobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiopsaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiopsaceae.Nocardiopsis	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiopsaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.Friedmannella	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.Microlunatus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.Propionibacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.Actinomycetospora	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.Pseudonocardia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.Saccharopolyspora	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Sanguibacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Sanguibacteraceae.Sanguibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Streptomycetaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Streptomycetaceae.Streptomyces	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Streptomycetaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.unclassified_family.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Yaniellaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Yaniellaceae.Yaniella	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae.Aeriscardovia	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae.Bifidobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Asaccharobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Atopobium	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Collinsella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Eggerthella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Olsenella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Paraeggerthella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Rubrobacterales	0		
Bacteria.Actinobacteria.Actinobacteria.Rubrobacterales.Rubrobacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Rubrobacterales.Rubrobacteraceae.Rubrobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacterales	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacterales.Conexibacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacterales.Conexibacteraceae.Conexibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacterales.Solirubrobacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacterales.Solirubrobacteraceae.Solirubrobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacterales.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacterales.unclassified_family.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Aquificae	0		
Bacteria.Aquificae.Aquificae	0		
Bacteria.Aquificae.Aquificae.Aquificales	0		
Bacteria.Aquificae.Aquificae.Aquificales.Hydrogenothermaceae	0		
Bacteria.Aquificae.Aquificae.Aquificales.Hydrogenothermaceae.Sulfurihydrogenibium	0		
Bacteria.Bacteroidetes	4.39801795		
Bacteria.Bacteroidetes.Bacteroidia	3.390152164		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales	3.390152164		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Bacteroidaceae	3.081969663		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Bacteroidaceae.Bacteroides	3.081969663		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae	3.390152164		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Dysgonomonas	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Porphyrionadaceae	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Porphyrionadaceae	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Porphyrionadaceae	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.unclassified_genus	3.390152164		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae.Hallella	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae.Prevotella	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae.unclassified_genus	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.unclassified_family	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.unclassified_family.unclassified_genus	0		
Bacteria.Bacteroidetes.Flavobacteria	4.280023713		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales	4.280023713		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Cryomorphaceae	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Cryomorphaceae.Fluvicola	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae	4.280023713		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Capnocytophaga	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Chryseobacterium	4.045262684	Fishmeal-based	3.157342848
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Cloacibacterium	3.851591741		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Flavobacterium	3.086716098		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Myroides	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Riemerella	0		

Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Salinimicrobium	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Wautersiella	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.unclassified_family	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.unclassified_family.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria	3.692407098	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales	3.692407098	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.Ferruginibacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.Filimonas	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.Flavisolibacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae	3.675880032	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Adhaeribacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Cytophaga	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Dyadobacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Ermicicia	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Flectobacillus	3.675880032	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Hymenobacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Pontibacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Runella	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Sporocytophaga	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae	3.56544288	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.Nubsella	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.Pedobacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.Sphingobacterium	3.56544288	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.unclassified_family	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.unclassified_family.unclassified_genus	0	
Bacteria.Bacteroidetes.unclassified_class	0	
Bacteria.Bacteroidetes.unclassified_class.unclassified_order	0	
Bacteria.Bacteroidetes.unclassified_class.unclassified_order.unclassified_family	0	
Bacteria.Bacteroidetes.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Chloroflexi	0	
Bacteria.Chloroflexi.Anaerolineae	0	
Bacteria.Chloroflexi.Anaerolineae.Anaerolineales	0	
Bacteria.Chloroflexi.Anaerolineae.Anaerolineales.Anaerolineaceae	0	
Bacteria.Chloroflexi.Anaerolineae.Anaerolineales.Anaerolineaceae.unclassified_genus	0	
Bacteria.Chloroflexi.Caldilineae	0	
Bacteria.Chloroflexi.Caldilineae.Caldilineales	0	
Bacteria.Chloroflexi.Caldilineae.Caldilineales.Caldilineaceae	0	
Bacteria.Chloroflexi.Caldilineae.Caldilineales.Caldilineaceae.Caldilinea	0	
Bacteria.Chloroflexi.Thermomicrobia	0	
Bacteria.Chloroflexi.Thermomicrobia.Sphaerobacteriales	0	
Bacteria.Chloroflexi.Thermomicrobia.Sphaerobacteriales.Sphaerobacteraceae	0	
Bacteria.Chloroflexi.Thermomicrobia.Sphaerobacteriales.Sphaerobacteraceae.Sphaerobacter	0	
Bacteria.Chloroflexi.Thermomicrobia.unclassified_order	0	
Bacteria.Chloroflexi.Thermomicrobia.unclassified_order.unclassified_family	0	
Bacteria.Chloroflexi.Thermomicrobia.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Chloroflexi.unclassified_class	0	
Bacteria.Chloroflexi.unclassified_class.unclassified_order	0	
Bacteria.Chloroflexi.unclassified_class.unclassified_order.unclassified_family	0	
Bacteria.Chloroflexi.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Deinococcus_Thermus	0	
Bacteria.Deinococcus_Thermus.Deinococci	0	
Bacteria.Deinococcus_Thermus.Deinococci.Deinococcales	0	
Bacteria.Deinococcus_Thermus.Deinococci.Deinococcales.Deinococcaceae	0	
Bacteria.Deinococcus_Thermus.Deinococci.Deinococcales.Deinococcaceae.Deinococcus	0	
Bacteria.Deinococcus_Thermus.Deinococci.Deinococcales.Trueperaceae	0	
Bacteria.Deinococcus_Thermus.Deinococci.Deinococcales.Trueperaceae.Truepera	0	
Bacteria.Deinococcus_Thermus.Deinococci.Thermales	0	
Bacteria.Deinococcus_Thermus.Deinococci.Thermales.Thermaceae	0	
Bacteria.Deinococcus_Thermus.Deinococci.Thermales.Thermaceae.Meiothermus	0	
Bacteria.Deinococcus_Thermus.Deinococci.unclassified_order	0	
Bacteria.Deinococcus_Thermus.Deinococci.unclassified_order.unclassified_family	0	
Bacteria.Deinococcus_Thermus.Deinococci.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Firmicutes	5.741882699	
Bacteria.Firmicutes.Bacilli	5.731425133	
Bacteria.Firmicutes.Bacilli.Bacillales	4.226199611	
Bacteria.Firmicutes.Bacilli.Bacillales.Alicyclobacillaceae	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Alicyclobacillaceae.Alicyclobacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae	4.043655146	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Anoxybacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Bacillus	3.992838517	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Caldalkalibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Cerasibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Exiguobacterium	3.086716098	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Geobacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Gracilibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Lentibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Lysinibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Oceanobacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Ornithinibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Tenuibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Terribacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Tumebacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.unclassified_genus	3.562260965	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Ureibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillaceae.Virgibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillales_incertae_sedis	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillales_incertae_sedis.Rummeliibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Bacillales_incertae_sedis.Solibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Listeriaceae	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Listeriaceae.Brochothrix	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Listeriaceae.Listeria	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Paenibacillaceae	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Paenibacillaceae.Ammoniphilus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Paenibacillaceae.Aneurinibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Paenibacillaceae.Brevibacillus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Paenibacillaceae.Cohnella	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Paenibacillaceae.Oxalophagus	0	
Bacteria.Firmicutes.Bacilli.Bacillales.Paenibacillaceae.Paenibacillus	0	

Bacteria.Firmicutes.Bacilli.Bacillales.Paenibacillaceae.Saccharibacillus	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Paenibacillaceae.unclassified_genus	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Planococcaceae	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Planococcaceae.Bhargavaea	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Planococcaceae.Kurthia	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Planococcaceae.Planococcus	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Planococcaceae.Planomicrobium	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Planococcaceae.Sporosarcina	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Planococcaceae.unclassified_genus	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Staphylococcaceae	3.778249365	Grain-based	3.477650438
Bacteria.Firmicutes.Bacilli.Bacillales.Staphylococcaceae.Gemella	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Staphylococcaceae.Jeotgalicoccus	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Staphylococcaceae.Macrococcus	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Staphylococcaceae.Nosocomiicoccus	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Staphylococcaceae.Saliniicoccus	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Staphylococcaceae.Staphylococcus	3.778249365	Grain-based	3.51558726
Bacteria.Firmicutes.Bacilli.Bacillales.Thermoactinomycetaceae	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Thermoactinomycetaceae.Thermoactinomyces	0		
Bacteria.Firmicutes.Bacilli.Bacillales.Thermoactinomycetaceae.unclassified_genus	0		
Bacteria.Firmicutes.Bacilli.Bacillales.unclassified_family	0		
Bacteria.Firmicutes.Bacilli.Bacillales.unclassified_family.unclassified_genus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales	5.717639285		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Aerococcaceae	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Aerococcaceae.Abiotrophia	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Aerococcaceae.Aerococcus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Aerococcaceae.Eremococcus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Aerococcaceae.Globicatella	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Carnobacteriaceae	4.69321689		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Carnobacteriaceae.Atopostipes	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Carnobacteriaceae.Carnobacterium	4.69321689		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Carnobacteriaceae.Desemzia	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Carnobacteriaceae.Granulicatella	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Carnobacteriaceae.Marinilactibacillus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Carnobacteriaceae.Trichococcus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Carnobacteriaceae.unclassified_genus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Enterococcaceae	4.031628666		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Enterococcaceae.Enterococcus	4.031628666		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Enterococcaceae.unclassified_genus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Enterococcaceae.Vagococcus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Lactobacillaceae	4.156940991	Grain-based	3.748785221
Bacteria.Firmicutes.Bacilli.Lactobacillales.Lactobacillaceae.Lactobacillus	4.156940991	Grain-based	3.749054345
Bacteria.Firmicutes.Bacilli.Lactobacillales.Lactobacillaceae.Pediococcus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Lactobacillaceae.unclassified_genus	0		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Leuconostocaceae	5.542249348		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Leuconostocaceae.Leuconostoc	5.083808037		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Leuconostocaceae.unclassified_genus	3.096367484		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Leuconostocaceae.Weissella	5.356507914		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae	5.171190096	Grain-based	4.126232247
Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae.Lactococcus	5.041281712		
Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae.Streptococcus	4.56980786	Grain-based	3.992609372
Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae.unclassified_genus	3.081969663		
Bacteria.Firmicutes.Bacilli.Lactobacillales.unclassified_family	3.086716098		
Bacteria.Firmicutes.Bacilli.Lactobacillales.unclassified_family.unclassified_genus	3.086716098		
Bacteria.Firmicutes.Bacilli.unclassified_order	0		
Bacteria.Firmicutes.Bacilli.unclassified_order.unclassified_family	0		
Bacteria.Firmicutes.Bacilli.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Firmicutes.Clostridia	4.169528353	Fishmeal-based	3.541770375
Bacteria.Firmicutes.Clostridia.Clostridiales	4.169528353	Fishmeal-based	3.541770375
Bacteria.Firmicutes.Clostridia.Clostridiales.Clostridiaceae	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Clostridiaceae.Clostridium	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Clostridiaceae.Thermobrachium	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Clostridiaceae.unclassified_genus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Eubacteriaceae	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Eubacteriaceae.Eubacterium	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Eubacteriaceae.unclassified_genus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI	3.086716098		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Anaerococcus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Anaerospaera	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Finegoldia	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Gallicola	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Parvimonas	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Peptoniphilus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Sporanaerobacter	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Tepidimicrobium	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Tissierella	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.unclassified_genus	3.086716098		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXIII	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXIII.Anaerovorax	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXIII.unclassified_genus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXIV	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXIV.Blautia	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Lachnospiraceae	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Lachnospiraceae.Anaerospobacter	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Lachnospiraceae.Orbacterium	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Lachnospiraceae.unclassified_genus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Peptococcaceae	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Peptococcaceae.Peptococcus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Peptococcaceae.unclassified_genus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Peptostreptococcaceae	3.086716098		
Bacteria.Firmicutes.Clostridia.Clostridiales.Peptostreptococcaceae.Peptostreptococcus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Peptostreptococcaceae.Sporacetigenium	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Peptostreptococcaceae.unclassified_genus	3.086716098		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae	3.853899272		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae.Acetivibrio	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae.Anaeroflum	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae.Anaerotruncus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae.Butyricoccus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae.Faecalibacterium	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae.Oscillibacter	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae.Ruminococcus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae.Subdoligranulum	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Ruminococcaceae.unclassified_genus	3.853899272		
Bacteria.Firmicutes.Clostridia.Clostridiales.unclassified_family	0		

Bacteria.Firmicutes.Clostridia.Clostridiales.unclassified_family.unclassified_genus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae	3.936658981	Fishmeal-based	3.314626044
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae.Anaerococcus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae.Dialister	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae.Megasphaera	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae.Phascolarctobacterium	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae.Selenomonas	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae.Sporomusa	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae.Sporotalea	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae.unclassified_genus	0		
Bacteria.Firmicutes.Clostridia.Clostridiales.Veillonellaceae.Veillonella	3.936658981	Fishmeal-based	3.349332314
Bacteria.Firmicutes.Clostridia.unclassified_order	0		
Bacteria.Firmicutes.Clostridia.unclassified_order.unclassified_family	0		
Bacteria.Firmicutes.Clostridia.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Firmicutes.Erysipelotrichi	0		
Bacteria.Firmicutes.Erysipelotrichi.Erysipelotrichales	0		
Bacteria.Firmicutes.Erysipelotrichi.Erysipelotrichales.Erysipelotrichaceae	0		
Bacteria.Firmicutes.Erysipelotrichi.Erysipelotrichales.Erysipelotrichaceae.Allobaculum	0		
Bacteria.Firmicutes.Erysipelotrichi.Erysipelotrichales.Erysipelotrichaceae.Erysipelothrix	0		
Bacteria.Firmicutes.Erysipelotrichi.Erysipelotrichales.Erysipelotrichaceae.Turicibacter	0		
Bacteria.Firmicutes.Erysipelotrichi.Erysipelotrichales.Erysipelotrichaceae.unclassified_genus	0		
Bacteria.Firmicutes.unclassified_class	0		
Bacteria.Firmicutes.unclassified_class.unclassified_order	0		
Bacteria.Firmicutes.unclassified_class.unclassified_order.unclassified_family	0		
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Bacteria.Fusobacteria	0		
Bacteria.Fusobacteria.Fusobacteria	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales.Fusobacteriaceae	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales.Fusobacteriaceae.Cetobacterium	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales.Fusobacteriaceae.Fusobacterium	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales.Fusobacteriaceae.unclassified_genus	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales.Leptotrichiaceae	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales.Leptotrichiaceae.Leptotrichia	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales.Leptotrichiaceae.Sealdella	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales.unclassified_family	0		
Bacteria.Fusobacteria.Fusobacteria.Fusobacteriales.unclassified_family.unclassified_genus	0		
Bacteria.Gemmatimonadetes	0		
Bacteria.Gemmatimonadetes.Gemmatimonadetes	0		
Bacteria.Gemmatimonadetes.Gemmatimonadetes.Gemmatimonadales	0		
Bacteria.Gemmatimonadetes.Gemmatimonadetes.Gemmatimonadales.Gemmatimonadaceae	0		
Bacteria.Gemmatimonadetes.Gemmatimonadetes.Gemmatimonadales.Gemmatimonadaceae.Gemmatimonas	0		
Bacteria.Nitrospira	0		
Bacteria.Nitrospira.Nitrospira	0		
Bacteria.Nitrospira.Nitrospira.Nitrospirales	0		
Bacteria.Nitrospira.Nitrospira.Nitrospirales.Nitrospiraceae	0		
Bacteria.Nitrospira.Nitrospira.Nitrospirales.Nitrospiraceae.Nitrospira	0		
Bacteria.OD1	0		
Bacteria.OD1.OD1_genera_incertae_sedis	0		
Bacteria.OD1.OD1_genera_incertae_sedis.unclassified_order	0		
Bacteria.OD1.OD1_genera_incertae_sedis.unclassified_order.unclassified_family	0		
Bacteria.OD1.OD1_genera_incertae_sedis.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Planctomycetes	0		
Bacteria.Planctomycetes.Planctomycetacia	0		
Bacteria.Planctomycetes.Planctomycetacia.Planctomycetales	0		
Bacteria.Planctomycetes.Planctomycetacia.Planctomycetales.Planctomycetaceae	0		
Bacteria.Planctomycetes.Planctomycetacia.Planctomycetales.Planctomycetaceae.Gemmata	0		
Bacteria.Planctomycetes.Planctomycetacia.Planctomycetales.Planctomycetaceae.Planctomyces	0		
Bacteria.Planctomycetes.Planctomycetacia.Planctomycetales.Planctomycetaceae.Rhodopirellula	0		
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Bacteria.Planctomycetes.Planctomycetacia.Planctomycetales.Planctomycetaceae.unclassified_genus	0		
Bacteria.Proteobacteria	5.654300166		
Bacteria.Proteobacteria.Alphaproteobacteria	5.342557482		
Bacteria.Proteobacteria.Alphaproteobacteria.Alphaproteobacteria_incertae_sedis	3.077274542		
Bacteria.Proteobacteria.Alphaproteobacteria.Alphaproteobacteria_incertae_sedis.Novispirillum	3.077274542		
Bacteria.Proteobacteria.Alphaproteobacteria.Alphaproteobacteria_incertae_sedis.Novispirillum.unclassified_genus	3.077274542		
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Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.Pseudoxanthomonas	0		
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Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.unclassified_genus	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.Wohlfahrtiimonas	0		
Bacteria.Proteobacteria.Gammaproteobacteria.Xanthomonadales.Xanthomonadaceae.Xanthomonas	0		
Bacteria.Proteobacteria.unclassified_class	0		
Bacteria.Proteobacteria.unclassified_class.unclassified_order	0		
Bacteria.Proteobacteria.unclassified_class.unclassified_order.unclassified_family	0		
Bacteria.Proteobacteria.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Spirochaetes	0		
Bacteria.Spirochaetes.Spirochaetes	0		
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales	0		
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales.Spirochaetaceae	0		
Bacteria.Spirochaetes.Spirochaetes.Spirochaetales.Spirochaetaceae.Treponema	0		
Bacteria.SR1	0		
Bacteria.SR1.SR1 genera incertae sedis	0		
Bacteria.SR1.SR1 genera incertae sedis.unclassified_order	0		
Bacteria.SR1.SR1 genera incertae sedis.unclassified_order.unclassified_family	0		
Bacteria.SR1.SR1 genera incertae sedis.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Synergistetes	0		
Bacteria.Synergistetes.Synergistia	0		
Bacteria.Synergistetes.Synergistia.Synergistales	0		
Bacteria.Synergistetes.Synergistia.Synergistales.Synergistaceae	0		
Bacteria.Synergistetes.Synergistia.Synergistales.Synergistaceae.unclassified_genus	0		
Bacteria.Tenericutes	0		
Bacteria.Tenericutes.Mollicutes	0		
Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales	0		
Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales.Anaeroplasmataceae	0		
Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales.Anaeroplasmataceae.Anaeroplasma	0		
Bacteria.Tenericutes.Mollicutes.Mycoplasmatales	0		
Bacteria.Tenericutes.Mollicutes.Mycoplasmatales.Mycoplasmataceae	0		
Bacteria.Tenericutes.Mollicutes.Mycoplasmatales.Mycoplasmataceae.Mycoplasma	0		
Bacteria.TM7	0		
Bacteria.TM7.TM7 genera incertae sedis	0		
Bacteria.TM7.TM7 genera incertae sedis.unclassified_order	0		
Bacteria.TM7.TM7 genera incertae sedis.unclassified_order.unclassified_family	0		
Bacteria.TM7.TM7 genera incertae sedis.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.unclassified_phylum	4.293861782	Fishmeal-based	3.677331359
Bacteria.unclassified_phylum.unclassified_class	4.293861782	Fishmeal-based	3.677331359
Bacteria.unclassified_phylum.unclassified_class.unclassified_order	4.293861782	Fishmeal-based	3.677331359
Bacteria.unclassified_phylum.unclassified_class.unclassified_order.unclassified_family	4.293861782	Fishmeal-based	3.677331359
Bacteria.unclassified_phylum.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	4.293861782	Fishmeal-based	3.677331359
Bacteria.Verrucomicrobia	0		
Bacteria.Verrucomicrobia.Opitutae	0		
Bacteria.Verrucomicrobia.Opitutae.Opitutales	0		
Bacteria.Verrucomicrobia.Opitutae.Opitutales.Opitutaceae	0		
Bacteria.Verrucomicrobia.Opitutae.Opitutales.Opitutaceae.Opitutus	0		
Bacteria.Verrucomicrobia.Spartobacteria	0		
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria genera incertae sedis	0		
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria genera incertae sedis.unclassified_family	0		
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria genera incertae sedis.unclassified_family.unclassified_genus	0		
Bacteria.Verrucomicrobia.unclassified_class	0		
Bacteria.Verrucomicrobia.unclassified_class.unclassified_order	0		
Bacteria.Verrucomicrobia.unclassified_class.unclassified_order.unclassified_family	0		
Bacteria.Verrucomicrobia.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae	0		
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae.Akkermansia	0		

Footnotes:

1. Taxonomic assignment determined using RDP classifier to compare a representative sequence from each OTU to reference sequences in the greengenes database.

Table S18. LEfSe comparison of fishmeal-based, high density against fishmeal-based, low density

Taxon ¹	Log10 [(mean relative abundance) x (10 ⁶)] from group with higher relative abundance of taxon	Group with significantly higher logarithmic LDA score	Logarithmic LDA score of higher-scoring group
Bacteria	6		
Bacteria.Acidobacteria	0		
Bacteria.Acidobacteria.Acidobacteria Gp1	0		
Bacteria.Acidobacteria.Acidobacteria Gp1.Gp1	0		
Bacteria.Acidobacteria.Acidobacteria Gp1.Gp1.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp1.Gp1.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp16	0		
Bacteria.Acidobacteria.Acidobacteria Gp16.Gp16	0		
Bacteria.Acidobacteria.Acidobacteria Gp16.Gp16.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp16.Gp16.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp2	0		
Bacteria.Acidobacteria.Acidobacteria Gp2.Gp2	0		
Bacteria.Acidobacteria.Acidobacteria Gp2.Gp2.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp2.Gp2.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp3	0		
Bacteria.Acidobacteria.Acidobacteria Gp3.Gp3	0		
Bacteria.Acidobacteria.Acidobacteria Gp3.Gp3.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp3.Gp3.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp4	0		
Bacteria.Acidobacteria.Acidobacteria Gp4.Gp4	0		
Bacteria.Acidobacteria.Acidobacteria Gp4.Gp4.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp4.Gp4.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp5	0		
Bacteria.Acidobacteria.Acidobacteria Gp5.Gp5	0		
Bacteria.Acidobacteria.Acidobacteria Gp5.Gp5.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp5.Gp5.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp6	0		
Bacteria.Acidobacteria.Acidobacteria Gp6.Gp6	0		
Bacteria.Acidobacteria.Acidobacteria Gp6.Gp6.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp6.Gp6.unclassified family.unclassified genus	0		
Bacteria.Acidobacteria.Acidobacteria Gp7	0		
Bacteria.Acidobacteria.Acidobacteria Gp7.Gp7	0		
Bacteria.Acidobacteria.Acidobacteria Gp7.Gp7.unclassified family	0		
Bacteria.Acidobacteria.Acidobacteria Gp7.Gp7.unclassified family.unclassified genus	0		
Bacteria.Actinobacteria	3.387746094		
Bacteria.Actinobacteria.Actinobacteria	3.387746094		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.Acidimicrobiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.Acidimicrobiaceae.unclassified genus	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.lamiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.lamiaceae.lamia	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiales.Acidimicrobiidae incertae sedis	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiidae incertae sedis.lumatobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Acidimicrobiidae incertae sedis.lumatobacter.unclassified genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales	3.387746094		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Actinomycetaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Actinomycetaceae.Actinomycetes	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Actinomycetaceae.Arcanobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Actinomycetaceae.unclassified genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Beutenbergiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Beutenbergiaceae.Salana	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Beutenbergiaceae.Serinibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Bogoriellaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Bogoriellaceae.Georgia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Bogoriellaceae.unclassified genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Brevibacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Brevibacteriaceae.Brevibacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Cellulomonadaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Cellulomonadaceae.Cellulomonas	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Cellulomonadaceae.unclassified genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Corynebacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Corynebacteriaceae.Corynebacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Corynebacteriaceae.Turicella	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Corynebacteriaceae.unclassified genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dermabacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dermabacteraceae.Brachybacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dermacoccaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dermacoccaceae.Dermacoccus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dietziaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Dietziaceae.Dietzia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Geodermatophilaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Geodermatophilaceae.Blastococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Geodermatophilaceae.unclassified genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.Janibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.Knoellia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.Ornithinimicrobium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.Tetrasphaera	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Intrasporangiaceae.unclassified genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Jonesiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Jonesiaceae.Jonesia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Agrococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Clavibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Curtobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Frigoribacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Leifsonia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Leucobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Microbacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Plantibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.Pseudoclavibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Microbacteriaceae.unclassified genus	0		

Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae	3.387746094		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Arthrobacter	3.387746094		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Kocuria	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Micrococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Nesterenkonia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Rothia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micromonosporaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micromonosporaceae.Luedemannella	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micromonosporaceae.Micromonospora	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Mycobacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Mycobacteriaceae.Mycobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.Gordonia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.Rhodococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.Williamsia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Aeromicrobium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Marmoricola	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Nocardioides	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Pimelobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiopsaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiopsaceae.Nocardiopsis	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiopsaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.Friedmanniella	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.Microlunatus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.Propionibacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.Pseudonocardia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.Saccharopolyspora	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Sanguibacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Sanguibacteraceae.Sanguibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Streptomycetaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Streptomycetaceae.Streptomyces	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Streptomycetaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.unclassified_family.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Yaniellaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Yaniellaceae.Yaniella	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae.Aeriscardovia	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae.Bifidobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Asaccharobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Atopobium	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Collinsella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Eggerthella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Olsenella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Paraeggerthella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Rubrobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Rubrobacteriales.Rubrobacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Rubrobacteriales.Rubrobacteraceae.Rubrobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.Conexibacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.Conexibacteraceae.Conexibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.Solirubrobacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.Solirubrobacteraceae.Solirubrobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.unclassified_family.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Aquificae	0		
Bacteria.Aquificae.Aquificae	0		
Bacteria.Aquificae.Aquificae.Aquificales	0		
Bacteria.Aquificae.Aquificae.Aquificales.Hydrogenothermaceae	0		
Bacteria.Aquificae.Aquificae.Aquificales.Hydrogenothermaceae.Sulfurihydrogenibium	0		
Bacteria.Bacteroidetes	4.369799832		
Bacteria.Bacteroidetes.Bacteroidia	3.390152164		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales	3.390152164		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Bacteroidaceae	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Bacteroidaceae.Bacteroides	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae	3.390152164		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Dysgonomonas	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Porphyrionomonas	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Proteiniphilum	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.unclassified_genus	3.390152164		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae.Hallella	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae.Prevotella	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae.unclassified_genus	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.unclassified_family	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.unclassified_family.unclassified_genus	0		
Bacteria.Bacteroidetes.Flavobacteria	4.216231133		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales	4.216231133		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Cryomorphaceae	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Cryomorphaceae.Fluvicola	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae	4.216231133		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Capnocytophaga	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Chryseobacterium	4.105452614		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Cloacibacterium	3.571877254		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Flavobacterium	3.086716098		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Myroides	0		

Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Riemerella	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Salinimicrobium	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Wautersiella	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.unclassified_family	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria	3.692407098	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales	3.692407098	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.Ferruginibacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.Filimonas	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.Flavisolibacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae	3.096367484	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Adhaeribacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Cytophaga	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Dvadobacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Ermicicia	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Flectobacillus	3.096367484	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Hymenobacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Pontibacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Runella	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Sporocytophaga	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae	3.56544288	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.Nubsella	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.Pedobacter	0	
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Bacteria.Chloroflexi	0	
Bacteria.Chloroflexi.Anaerolineae	0	
Bacteria.Chloroflexi.Anaerolineae.Anaerolineales	0	
Bacteria.Chloroflexi.Anaerolineae.Anaerolineales.Anaerolineaceae	0	
Bacteria.Chloroflexi.Anaerolineae.Anaerolineales.Anaerolineaceae.unclassified_genus	0	
Bacteria.Chloroflexi.Caldilineae	0	
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Bacteria.Chloroflexi.Thermomicrobium	0	
Bacteria.Chloroflexi.Thermomicrobium.Sphaerobacteriales	0	
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Bacteria.Chloroflexi.unclassified_class.unclassified_order.unclassified_family	0	
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Bacteria.Deinococcus_Thermus.Deinococci.Themales.Thermaceae	0	
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Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae	5.174747385	
Bacteria.Firmicutes.Bacilli.Lactobacillales.Streptococcaceae.Lactococcus	5.112000431	
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Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Sporanaerobacter	0	
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Bacteria.Firmicutes.Clostridia.Clostridiales.IncertaeSedisXI.Tissierella	0	
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Bacteria.SR1.SR1_genera_incertae_sedis.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Synergistetes	0	
Bacteria.Synergistetes.Synergistia	0	
Bacteria.Synergistetes.Synergistia.Synergistales	0	
Bacteria.Synergistetes.Synergistia.Synergistales.Synergistaceae	0	
Bacteria.Synergistetes.Synergistia.Synergistales.Synergistaceae.unclassified_genus	0	
Bacteria.Tenericutes	0	
Bacteria.Tenericutes.Mollicutes	0	
Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales	0	
Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales.Anaeroplasmataceae	0	
Bacteria.Tenericutes.Mollicutes.Anaeroplasmatales.Anaeroplasmataceae.Anaeroplasma	0	
Bacteria.Tenericutes.Mollicutes.Mycoplasmatales	0	
Bacteria.Tenericutes.Mollicutes.Mycoplasmatales.Mycoplasmataceae	0	
Bacteria.Tenericutes.Mollicutes.Mycoplasmatales.Mycoplasmataceae.Mycoplasma	0	
Bacteria.TM7	0	
Bacteria.TM7.TM7_genera_incertae_sedis	0	
Bacteria.TM7.TM7_genera_incertae_sedis.unclassified_order	0	
Bacteria.TM7.TM7_genera_incertae_sedis.unclassified_order.unclassified_family	0	
Bacteria.TM7.TM7_genera_incertae_sedis.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.unclassified_phylum	4.293861782	
Bacteria.unclassified_phylum.unclassified_class	4.293861782	
Bacteria.unclassified_phylum.unclassified_class.unclassified_order	4.293861782	
Bacteria.unclassified_phylum.unclassified_class.unclassified_order.unclassified_family	4.293861782	
Bacteria.unclassified_phylum.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	4.293861782	
Bacteria.Verrucomicrobia	0	
Bacteria.Verrucomicrobia.Opitutae	0	
Bacteria.Verrucomicrobia.Opitutae.Opitutales	0	
Bacteria.Verrucomicrobia.Opitutae.Opitutales.Opitutaceae	0	
Bacteria.Verrucomicrobia.Opitutae.Opitutales.Opitutaceae.Opitutus	0	
Bacteria.Verrucomicrobia.Spartobacteria	0	
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria_genera_incertae_sedis	0	
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria_genera_incertae_sedis.unclassified_family	0	
Bacteria.Verrucomicrobia.Spartobacteria.Spartobacteria_genera_incertae_sedis.unclassified_family.unclassified_genus	0	
Bacteria.Verrucomicrobia.unclassified_class	0	
Bacteria.Verrucomicrobia.unclassified_class.unclassified_order	0	
Bacteria.Verrucomicrobia.unclassified_class.unclassified_order.unclassified_family	0	
Bacteria.Verrucomicrobia.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Verrucomicrobia.Verrucomicrobiae	0	
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales	0	
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae	0	
Bacteria.Verrucomicrobia.Verrucomicrobiae.Verrucomicrobiales.Verrucomicrobiaceae.Akkermansia	0	

Footnotes:

1. Taxonomic assignment determined using RDP classifier to compare a representative sequence from each OTU to reference sequences in the greengenes database.

Table S19. LEfSe comparison of grain-based, high density against grain-based, low density

Taxon ¹	Log10 [(mean relative abundance) x (10 ⁶)] from group with higher relative abundance of taxon	Group with significantly higher logarithmic LDA score	Logarithmic LDA score of higher-scoring group
Bacteria	6		
Bacteria_Acidobacteria	0		
Bacteria_Acidobacteria_Acidobacteria_Gp1	0		
Bacteria_Acidobacteria_Acidobacteria_Gp1_Gp1	0		
Bacteria_Acidobacteria_Acidobacteria_Gp1_Gp1_unclassified_family	0		
Bacteria_Acidobacteria_Acidobacteria_Gp1_Gp1_unclassified_family_unclassified_genus	0		
Bacteria_Acidobacteria_Acidobacteria_Gp16	0		
Bacteria_Acidobacteria_Acidobacteria_Gp16_Gp16	0		
Bacteria_Acidobacteria_Acidobacteria_Gp16_Gp16_unclassified_family	0		
Bacteria_Acidobacteria_Acidobacteria_Gp16_Gp16_unclassified_family_unclassified_genus	0		
Bacteria_Acidobacteria_Acidobacteria_Gp2	0		
Bacteria_Acidobacteria_Acidobacteria_Gp2_Gp2	0		
Bacteria_Acidobacteria_Acidobacteria_Gp2_Gp2_unclassified_family	0		
Bacteria_Acidobacteria_Acidobacteria_Gp2_Gp2_unclassified_family_unclassified_genus	0		
Bacteria_Acidobacteria_Acidobacteria_Gp3	0		
Bacteria_Acidobacteria_Acidobacteria_Gp3_Gp3	0		
Bacteria_Acidobacteria_Acidobacteria_Gp3_Gp3_unclassified_family	0		
Bacteria_Acidobacteria_Acidobacteria_Gp3_Gp3_unclassified_family_unclassified_genus	0		
Bacteria_Acidobacteria_Acidobacteria_Gp4	0		
Bacteria_Acidobacteria_Acidobacteria_Gp4_Gp4	0		
Bacteria_Acidobacteria_Acidobacteria_Gp4_Gp4_unclassified_family	0		
Bacteria_Acidobacteria_Acidobacteria_Gp4_Gp4_unclassified_family_unclassified_genus	0		
Bacteria_Acidobacteria_Acidobacteria_Gp5	0		
Bacteria_Acidobacteria_Acidobacteria_Gp5_Gp5	0		
Bacteria_Acidobacteria_Acidobacteria_Gp5_Gp5_unclassified_family	0		
Bacteria_Acidobacteria_Acidobacteria_Gp5_Gp5_unclassified_family_unclassified_genus	0		
Bacteria_Acidobacteria_Acidobacteria_Gp6	0		
Bacteria_Acidobacteria_Acidobacteria_Gp6_Gp6	0		
Bacteria_Acidobacteria_Acidobacteria_Gp6_Gp6_unclassified_family	0		
Bacteria_Acidobacteria_Acidobacteria_Gp6_Gp6_unclassified_family_unclassified_genus	0		
Bacteria_Acidobacteria_Acidobacteria_Gp7	0		
Bacteria_Acidobacteria_Acidobacteria_Gp7_Gp7	0		
Bacteria_Acidobacteria_Acidobacteria_Gp7_Gp7_unclassified_family	0		
Bacteria_Acidobacteria_Acidobacteria_Gp7_Gp7_unclassified_family_unclassified_genus	0		
Bacteria_Actinobacteria	3.101274818		
Bacteria_Actinobacteria_Actinobacteria	3.101274818		
Bacteria_Actinobacteria_Actinobacteria_Acidimicrobiales	0		
Bacteria_Actinobacteria_Actinobacteria_Acidimicrobiales_Acidimicrobiaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Acidimicrobiales_Acidimicrobiaceae_unclassified_genus	0		
Bacteria_Actinobacteria_Actinobacteria_Acidimicrobiales_lamiaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Acidimicrobiales_lamiaceae_lamia	0		
Bacteria_Actinobacteria_Actinobacteria_Acidimicrobiales_incertae_sedis	0		
Bacteria_Actinobacteria_Actinobacteria_Acidimicrobiales_incertae_sedis_lumatobacter	0		
Bacteria_Actinobacteria_Actinobacteria_Acidimicrobiales_incertae_sedis_lumatobacter_unclassified_genus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales	3.101274818		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Actinomycetaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Actinomycetaceae_Actinomycetes	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Actinomycetaceae_Arcanobacterium	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Actinomycetaceae_unclassified_genus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Beutenbergiaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Beutenbergiaceae_Salana	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Beutenbergiaceae_Serinebacter	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Bogoriellaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Bogoriellaceae_Georgia	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Bogoriellaceae_unclassified_genus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Brevibacteriaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Brevibacteriaceae_Brevibacterium	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Cellulomonadaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Cellulomonadaceae_Cellulomonas	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Cellulomonadaceae_unclassified_genus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Corynebacteriaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Corynebacteriaceae_Corynebacterium	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Corynebacteriaceae_Turicella	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Corynebacteriaceae_unclassified_genus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Dermabacteriaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Dermabacteriaceae_Brachybacterium	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Dermacoccaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Dermacoccaceae_Dermacoccus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Dietziaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Dietziaceae_Dietzia	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Geodermatophilaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Geodermatophilaceae_Blastococcus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Geodermatophilaceae_unclassified_genus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Intrasporangiaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Intrasporangiaceae_Janibacter	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Intrasporangiaceae_Knoellia	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Intrasporangiaceae_Omithinimicrobium	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Intrasporangiaceae_Tetrasphaera	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Intrasporangiaceae_unclassified_genus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Jonesiaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Jonesiaceae_Jonesia	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_Agrococcus	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_Clavibacter	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_Curtobacterium	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_Frigoribacterium	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_Leifsonia	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_Leucobacter	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_Microbacterium	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_Plantibacter	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_Pseudoclavibacter	0		
Bacteria_Actinobacteria_Actinobacteria_Actinomycetales_Microbacteriaceae_unclassified_genus	0		

Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae	3.101274818		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Arthrobacter	3.101274818		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Kocuria	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Micrococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Nesterenkonia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.Rothia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micrococcaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micromonosporaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micromonosporaceae.Luedemannella	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Micromonosporaceae.Micromonospora	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Mycobacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Mycobacteriaceae.Mycobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.Gordonia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.Rhodococcus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiaceae.Williamsia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Aeromicrobium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Marmoricola	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Nocardioides	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.Pimelobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardioidaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiopsaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiopsaceae.Nocardiopsis	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Nocardiopsaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.Friedmanniella	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.Microlunatus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.Propionibacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Propionibacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.Pseudonocardia	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.Saccharopolyspora	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Pseudonocardiaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Sanguibacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Sanguibacteraceae.Sanguibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Streptomycetaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Streptomycetaceae.Streptomyces	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Streptomycetaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.unclassified_family.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Yaniellaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Actinomycetales.Yaniellaceae.Yaniella	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae.Aeriscardovia	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae.Bifidobacterium	0		
Bacteria.Actinobacteria.Actinobacteria.Bifidobacteriales.Bifidobacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Asaccharobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Atopobium	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Collinsella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Eggerthella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Olsenella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.Paraeggerthella	0		
Bacteria.Actinobacteria.Actinobacteria.Coriobacteriales.Coriobacteriaceae.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.Rubrobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Rubrobacteriales.Rubrobacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Rubrobacteriales.Rubrobacteraceae.Rubrobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.Conexibacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.Conexibacteraceae.Conexibacter	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.Solirubrobacteraceae	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.Solirubrobacteraceae.Solirubrobacter	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.Solirubrobacteriales.unclassified_family.unclassified_genus	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order.unclassified_family	0		
Bacteria.Actinobacteria.Actinobacteria.unclassified_order.unclassified_family.unclassified_genus	0		
Bacteria.Aquificae	0		
Bacteria.Aquificae.Aquificae	0		
Bacteria.Aquificae.Aquificae.Aquificales	0		
Bacteria.Aquificae.Aquificae.Aquificales.Hydrogenothermaceae	0		
Bacteria.Aquificae.Aquificae.Aquificales.Hydrogenothermaceae.Sulfurihydrogenibium	0		
Bacteria.Bacteroidetes	4.39801795		
Bacteria.Bacteroidetes.Bacteroidia	3.081969663		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales	3.081969663		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Bacteroidaceae	3.081969663		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Bacteroidaceae.Bacteroides	3.081969663		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Dysgonomonas	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Porphyrionas	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.Proteiniphilum	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Porphyrionadaceae.unclassified_genus	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae.Hallella	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae.Prevotella	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.Prevotellaceae.unclassified_genus	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.unclassified_family	0		
Bacteria.Bacteroidetes.Bacteroidia.Bacteroidales.unclassified_family.unclassified_genus	0		
Bacteria.Bacteroidetes.Flavobacteria	4.280023713		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales	4.280023713		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Cryomorphaceae	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Cryomorphaceae.Fluvicola	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae	4.280023713		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Capnocytophaga	0		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Chryseobacterium	4.037422441		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Cloacibacterium	3.851591741		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Flavobacterium	3.077274542		
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Myroides	0		

Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Riemerella	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Salinimicrobium	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.Flavobacteriaceae.Wautersiella	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.unclassified_family	0	
Bacteria.Bacteroidetes.Flavobacteria.Flavobacteriales.unclassified_family.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria	3.675880032	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales	3.675880032	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.Ferruginibacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.Filimonas	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.Flavisolibacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Chitinophagaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae	3.675880032	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Adhaeribacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Cytophaga	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Dvadobacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Ermicicia	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Flectobacillus	3.675880032	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Hymenobacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Pontibacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Runella	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.Sporocytophaga	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Cytophagaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae	3.101274818	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.Nubsella	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.Pedobacter	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.Sphingobacterium	3.101274818	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.Sphingobacteriaceae.unclassified_genus	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.unclassified_family	0	
Bacteria.Bacteroidetes.Sphingobacteria.Sphingobacteriales.unclassified_family.unclassified_genus	0	
Bacteria.Bacteroidetes.unclassified_class	0	
Bacteria.Bacteroidetes.unclassified_class.unclassified_order	0	
Bacteria.Bacteroidetes.unclassified_class.unclassified_order.unclassified_family	0	
Bacteria.Bacteroidetes.unclassified_class.unclassified_order.unclassified_family.unclassified_genus	0	
Bacteria.Chloroflexi	0	
Bacteria.Chloroflexi.Anaerolineae	0	
Bacteria.Chloroflexi.Anaerolineae.Anaerolineales	0	
Bacteria.Chloroflexi.Anaerolineae.Anaerolineales.Anaerolineaceae	0	
Bacteria.Chloroflexi.Anaerolineae.Anaerolineales.Anaerolineaceae.unclassified_genus	0	
Bacteria.Chloroflexi.Caldiilineae	0	
Bacteria.Chloroflexi.Caldiilineae.Caldiilineales	0	
Bacteria.Chloroflexi.Caldiilineae.Caldiilineales.Caldiilineaceae	0	
Bacteria.Chloroflexi.Caldiilineae.Caldiilineales.Caldiilineaceae.Caldiilinea	0	
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Footnotes:

1. Taxonomic assignment determined using RDP classifier to compare a representative sequence from each OTU to reference sequences in the greengenes database.

Table S20. Average intestinal inflammation scores in each treatment group

Experimental group	Score
Fishmeal-based, high density	1.53 ± 0.17
Fishmeal-based, low density	1.93 ± 0.21
Grain-based, high density	1.73 ± 0.18
Grain-based, low density	1.6 ± 0.19

Table S21. End-of-study results for measured fish fillet contaminant concentrations in each diet treatment group

Contaminant	Fishmeal Diet	Grain-based Diet
DDE ($\mu\text{g/g}$) ¹	0.0059 \pm 0.0006	0.0064 \pm 0.0012
Total PCBs (ppm) ²	0.0069 \pm 0.0009	0.0048 \pm 0.0015

Footnotes:

1. DDE = dichlorodiphenyldichloroethylene

2. PCBs = polychlorinated biphenyls (209 congeners tested).

%OTUs from each class

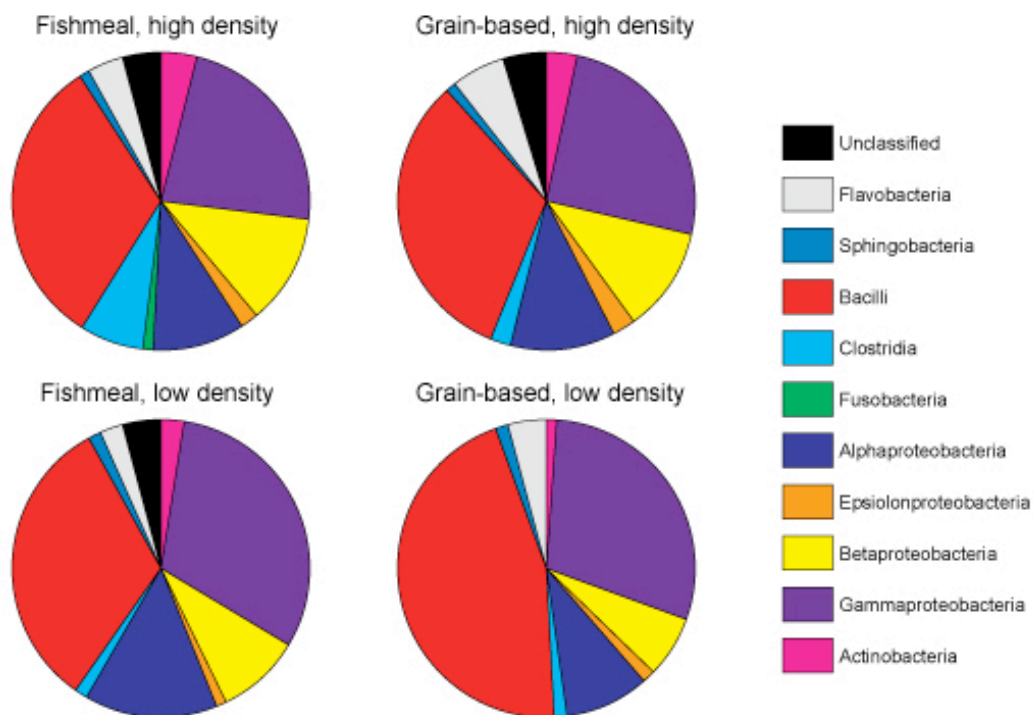


Figure S1. Diversity of rainbow trout treatment core microbiotas. Percentage of the treatment core OTUs from each bacterial class.

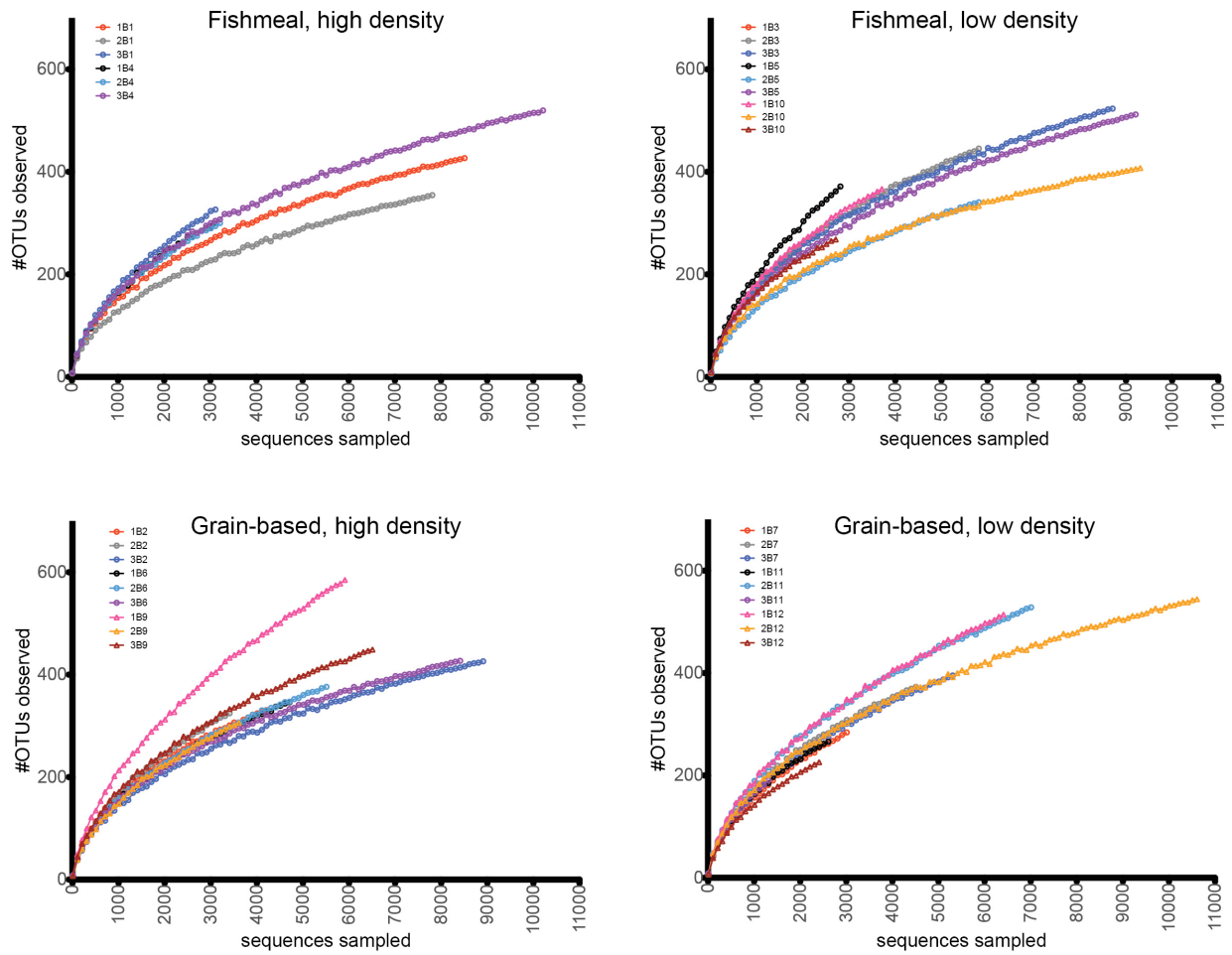


Figure S2. Alpha rarefaction of 16S sequences from rainbow trout intestines. The number of unique observed 16S sequences for each sequenced fish at sampling depths from 10-11000 sequences. Each curve in each panel represents a single animal. Curves are truncated when all sequences in an individual have been sampled.

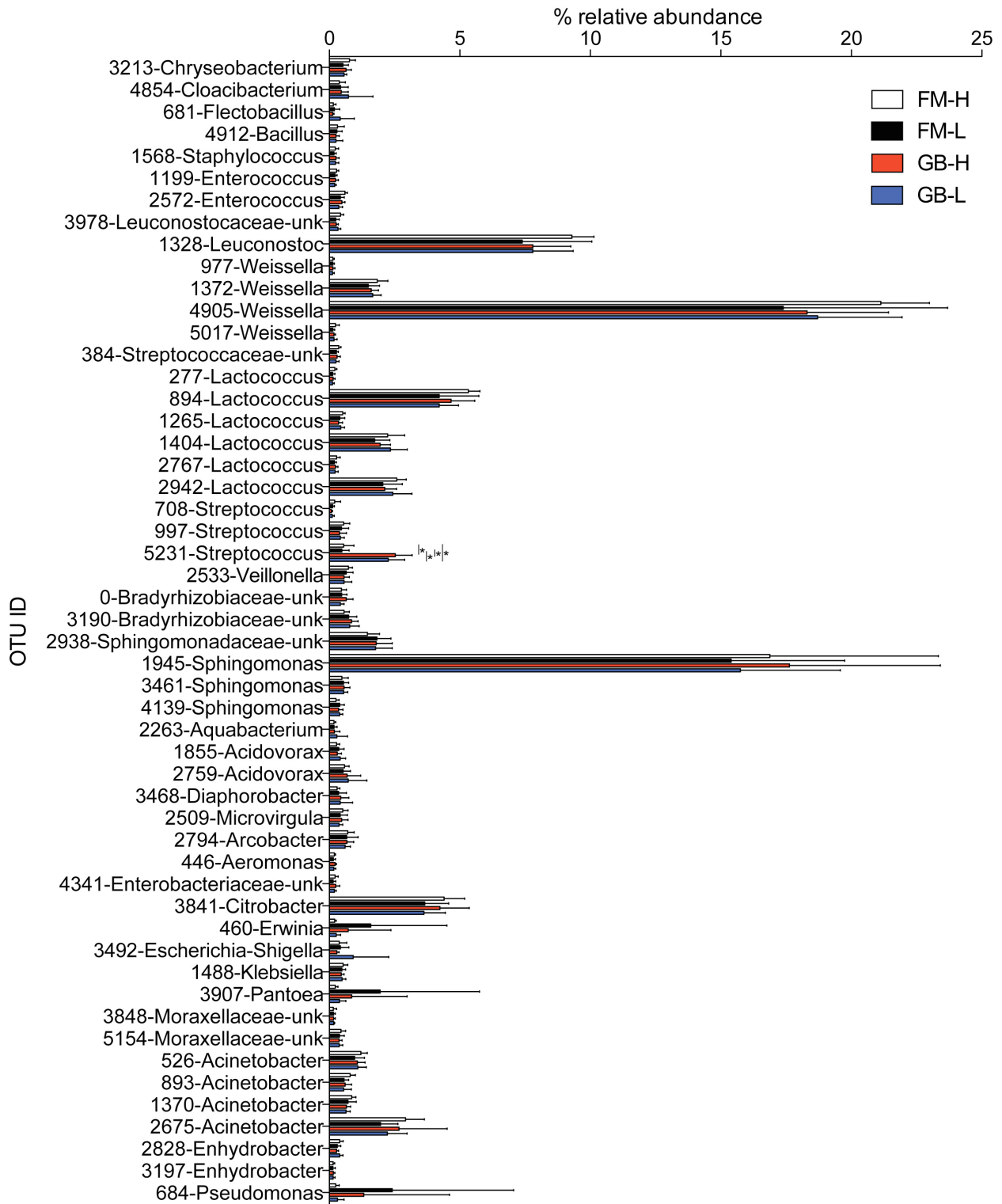


Figure S3. Average relative abundances of 52 shared core OTUs in each treatment. “OTU ID” indicates an arbitrarily assigned OTU number followed by the most detailed taxonomic classification for the OTU. For statistical comparison between treatment groups, OTU counts were standardized by sample and normalized by \log_{10} transformation. Relative abundances between treatment groups were compared by Student’s t-test with a 5% FDR. Asterisks indicate statistically significant differences between treatment groups.