

Supplementary table 10a-b:

a) Spearman-rank correlation between mucosal and faecal abundance of OTUs

OTU_ID	p-value	rho	p-adjust	bacterial cluster	Mean mucosa [%]	Mean stool [%]	ratio	Genus
OTU_1	0.00500748	0.34984851	0.02	Firmicutes Cluster 1	3.190384239	3.470253226	0.919351999	Blautia
OTU_10	0.024066831	0.281947842	0.05	Firmicutes Cluster 1	4.56	3.570468322	1.276570255	Roseburia
OTU_100	0.931358986	0.014608446	0.95	Prevotella Cluster	0.02	0.004888541	4.375	Granulicatella
OTU_101	0.000251314	0.535825881	0.00	Bacteroides Cluster 2	0.31	0.122824599	2.492537313	Parasutterella
OTU_1010	0.008907698	0.40564437	0.03	Bacteroides Cluster 2	0.10	0.098381893	1.031055901	Bifidobacterium
OTU_1011	1.79E-01	0.181342967	0.27	Bacteroides Cluster 2	0.09	0.163766132	0.529850746	unclassified.Ruminococcaceae
OTU_1016	2.02E-05	0.6928209	0.00	Bacteroides Cluster 1	0.02	0.025664842	0.785714286	Barnesiella
OTU_103	0.001918715	0.404756393	0.01	Firmicutes Cluster 2	0.15	0.223650763	0.672131148	unclassified.Firmicutes
OTU_1039	0.569765026	-0.083949672	0.68	Firmicutes Cluster 1	0.03	0.048274345	0.683544304	Blautia
OTU_104	0.001437671	0.537931034	0.01	Bacteroides Cluster 2	0.13	0.22426183	0.561307902	unclassified.Clostridiales
OTU_1040	0.680789121	-0.065306183	0.76	Firmicutes Cluster 1	0.01	0.027498045	0.244444444	Lachnospiraceae_incertae_sedis
OTU_105	0.014099094	0.388393804	0.04	Pathogen Cluster	0.40	0.143600899	2.791489362	Peptostreptococcus
OTU_106	0.049598331	0.260128088	0.10	Firmicutes Cluster 1	0.11	0.122824599	0.895522388	Butyrivibrio
OTU_1063	0.008799762	0.385295282	0.03	Firmicutes Cluster 2	0.03	0.065384239	0.523364486	unclassified.Ruminococcaceae
OTU_1068	0.522607642	0.100753489	0.63	Bacteroides Cluster 2	0.02	0.024442706	0.825	Flavonifractor
OTU_107	0.247025627	0.165750542	0.35	Bacteroides Cluster 2	0.07	0.056829292	1.161290323	Oscillibacter
OTU_1078	0.086443254	0.26772786	0.15	Prevotella Cluster	0.11	0.070272781	1.626086957	Clostridium_sensu_stricto
OTU_108	0.453899843	0.123396986	0.56	Bacteroides Cluster 2	0.09	0.023831639	3.897435897	Bifidobacterium
OTU_1080	0.831686039	0.036229982	0.87	Firmicutes Cluster 2	0.00	0.009777083	0.25	Faecalibacterium
OTU_1083	0.6443432	-0.081431293	0.73	Prevotella Cluster	0.00	0.003055338	0.8	Cellulosilyticum
OTU_109	0.002929914	0.375386392	0.01	Firmicutes Cluster 1	0.91	1.258799374	0.722330097	Blautia
OTU_1090	0.002913706	0.51429655	0.01	Firmicutes Cluster 2	0.03	0.017720962	1.620689655	Coprococcus
OTU_11	0.030855348	0.288453333	0.06	Bacteroides Cluster 1	0.45	0.656897732	0.681860465	Lachnospiraceae_incertae_sedis
OTU_110	0.367632799	0.15446644	0.49	Bacteroides Cluster 1	0.01	0.005499609	2.444444444	Clostridium_IV
OTU_1111	0.000517419	0.565983972	0.00	Pathogen Cluster	0.08	0.041552601	1.852941176	unclassified.Lachnospiraceae
OTU_1117	0.68507464	0.070573585	0.76	Bacteroides Cluster 2	0.00	0.004888541	0.75	Asaccharobacter
OTU_112	0.326777338	0.143338567	0.44	Bacteroides Cluster 1	0.08	0.037886195	1.983870968	unclassified.Ruminococcaceae
OTU_1129	8.04E-01	4.24E-02	0.85	Firmicutes Cluster 2	0.01	0.00794388	0.769230769	Lachnospiraceae_incertae_sedis
OTU_113	0.01762967	0.309013587	0.04	Firmicutes Cluster 1	0.40	0.347086429	1.146126761	Lachnospiraceae_incertae_sedis
OTU_114	0.035583574	0.302917663	0.07	Prevotella Cluster	0.05	0.030553383	1.76	Flavonifractor
OTU_115	3.89E-06	0.779310345	0.00	Bacteroides Cluster 2	0.08	0.021998436	3.694444444	Clostridium_IV
OTU_1157	2.38E-01	0.207575155	0.34	Bacteroides Cluster 1	0.00	0.002444271	1.5	Dorea
OTU_1159	7.25E-01	0.05615245	0.78	Firmicutes Cluster 1	0.01	0.023220571	0.368421053	Lachnospiraceae_incertae_sedis
OTU_116	0.027507216	0.378539239	0.06	Bacteroides Cluster 2	0.03	0.008554947	3.857142857	Parabacteroides
OTU_1167	0.139068568	0.260010834	0.22	Bacteroides Cluster 1	0.00	0.008554947	0.285714286	Lachnospiraceae_incertae_sedis
OTU_1172	0.071875798	0.310329376	0.13	Bacteroides Cluster 2	0.01	0.009166015	1.2	Butyrivibrio
OTU_1174	0.845362267	-0.024590216	0.88	Firmicutes Cluster 1	0.60	0.760779233	0.790361446	Blautia
OTU_118	0.078706448	0.306186218	0.14	Bacteroides Cluster 1	0.01	0.002444271	3.25	Clostridium_XIVa
OTU_12	2.40E-01	0.174701094	0.34	Firmicutes Cluster 1	0.05	0.024442706	2.025	Coprococcus
OTU_120	1.79E-05	0.735316024	0.00	Pathogen Cluster	0.30	0.006721744	44.81818182	Anaerococcus
OTU_1200	0.003101511	0.493879918	0.01	Prevotella Cluster	0.02	0.030553383	0.7	Prevotella
OTU_1204	0.591557402	0.0925242	0.69	Bacteroides Cluster 1	0.00	0.011610285	0.368421053	Flavonifractor
OTU_121	0.007898045	0.463980364	0.02	Bacteroides Cluster 2	0.13	0.012221353	10.3	unclassified.Rhodospirillales
OTU_122	0.002432119	0.487620654	0.01	Bacteroides Cluster 1	0.16	0.079438795	2.061538462	Bacteroides
OTU_1228	0.575340859	0.073613942	0.68	Firmicutes Cluster 1	0.13	0.230983575	0.552910053	unclassified.Lachnospiraceae
OTU_1229	0.40501296	0.123706227	0.52	Firmicutes Cluster 1	0.03	0.038497262	0.650793651	Lachnospiraceae_incertae_sedis
OTU_123	3.37E-08	0.88595223	0.00	Prevotella Cluster	0.17	0.109992178	1.527777778	Catenibacterium
OTU_1230	0.88465989	0.022388683	0.91	Firmicutes Cluster 2	0.01	0.044607939	0.205479452	Lachnospiraceae_incertae_sedis
OTU_1232	0.132204887	0.231219622	0.22	Firmicutes Cluster 2	0.02	0.045219007	0.405405405	Lachnospiraceae_incertae_sedis
OTU_125	0.014552158	0.402597892	0.04	Prevotella Cluster	0.01	0.113047517	0.12972973	unclassified.Clostridiales
OTU_1250	4.99E-06	0.580363546	0.00	Firmicutes Cluster 1	0.87	0.832885217	1.040352164	Faecalibacterium
OTU_1256	0.305314122	-0.178575984	0.42	Bacteroides Cluster 1	0.00	0.003666406	1.166666667	Lachnospiraceae_incertae_sedis
OTU_126	0.006283115	0.479486239	0.02	Bacteroides Cluster 2	0.03	0.000611068	51	unclassified.Deltaproteobacteria
OTU_1262	0.363761292	0.130437299	0.48	Firmicutes Cluster 1	0.03	0.101437231	0.337349398	Lachnospiraceae_incertae_sedis
OTU_1266	0.116330009	0.201470043	0.19	Firmicutes Cluster 1	0.78	0.647731717	1.204716981	unclassified.Lachnospiraceae

b) mean of foldchange and Kendall's tau correlation of OTUs per bacterial cluster between paired biopsy and faecal samples

CAG	Mean foldchange (biopsy/faecal)	Mean Kendall's tau
Bacteroides Cluster 1	2.56	0.234
Bacteroides Cluster 2	2.34	0.165
Firmicutes Cluster 1	0.71	0.265
Firmicutes Cluster 2	0.97	0.220
Pathogen Cluster	104.66	0.166
Prevotella Cluster	1.45	0.156

OTU_1267	0.030183091	0.326839888	0.06	Firmicutes Cluster 1	0.05	0.026886977	2	unclassified.Lachnospiraceae
OTU_1277	0.004234183	0.491909858	0.01	Firmicutes Cluster 2	0.14	0.015276691	9.2	unclassified.Lachnospiraceae
OTU_1279	0.266636133	0.164291413	0.37	Firmicutes Cluster 1	0.04	0.05988463	0.612244898	Lachnospiraceae_incertae_sedis
OTU_128	0.370665534	0.119622529	0.49	Firmicutes Cluster 1	0.12	0.178431756	0.695205479	Blautia
OTU_1283	0.020462955	0.339974155	0.05	Firmicutes Cluster 1	0.03	0.051329683	0.666666667	Anaerostipes
OTU_129	9.67E-05	0.658974261	0.00	Prevotella Cluster	0.04	0.020165233	1.96969697	Lachnospiraceae_incertae_sedis
OTU_1295	0.209534358	0.208237222	0.30	Firmicutes Cluster 1	0.01	0.022609503	0.405405405	Lachnospiraceae_incertae_sedis
OTU_1296	7.52E-05	0.513417148	0.00	Firmicutes Cluster 1	0.35	0.408804263	0.855007474	Faecalibacterium
OTU_13	0.002098787	0.38969155	0.01	Firmicutes Cluster 1	0.60	0.707616347	0.848877375	Gemmiger
OTU_1303	0.01465462	0.361284428	0.04	Firmicutes Cluster 1	0.02	0.035441924	0.689655172	Coprococcus
OTU_1306	0.810794722	0.038762602	0.85	Prevotella Cluster	0.01	0.015276691	0.84	unclassified.Lachnospiraceae
OTU_1309	0.07163334	0.285267345	0.13	Firmicutes Cluster 1	0.01	0.032997654	0.277777778	Lachnospiraceae_incertae_sedis
OTU_131	0.290112551	0.178599907	0.40	Bacteroides Cluster 1	0.03	0.006110677	4.2	Erysipelotrichaceae_incertae_sedis
OTU_1312	0.80016443	-0.043908943	0.85	Prevotella Cluster	0.00	0.006721744	0.545454545	Lachnospiraceae_incertae_sedis
OTU_1317	0.981005145	0.003829984	0.99	Bacteroides Cluster 1	0.02	0.023831639	1.025641026	Clostridium_XIVa
OTU_132	0.071308038	0.31154868	0.13	Pathogen Cluster	0.98	0.001833203	533.6666667	Pseudomonas
OTU_1320	0.159716686	0.187642084	0.25	Firmicutes Cluster 1	0.13	0.12771314	1.033492823	Clostridium_XIVa
OTU_1322	0.001876415	0.558415577	0.01	Bacteroides Cluster 1	0.00	0.001833203	0.333333333	Clostridium_XIVa
OTU_1324	1.25E-01	0.259029113	0.21	Firmicutes Cluster 1	0.00	0.01833203	0.166666667	unclassified.Lachnospiraceae
OTU_1326	NA	NA	NA	Firmicutes Cluster 1	0.00	0.004888541	0	unclassified.Lachnospiraceae
OTU_133	9.10E-06	0.70661157	0.00	Prevotella Cluster	0.03	0.111214314	0.252747253	unclassified.Clostridiales
OTU_1331	0.369078669	0.130625338	0.49	Firmicutes Cluster 1	0.05	0.064162104	0.8	Blautia
OTU_1337	0.042049261	0.340386694	0.08	Firmicutes Cluster 1	0.01	0.01038815	0.647058824	unclassified.Lachnospiraceae
OTU_134	0.000636464	0.581016663	0.00	Bacteroides Cluster 1	0.04	0.012832421	2.952380952	unclassified.Ruminococcaceae
OTU_1349	2.08E-01	0.217055181	0.30	Firmicutes Cluster 1	0.00	0.006721744	0.454545455	Lachnospiraceae_incertae_sedis
OTU_135	1.43E-04	0.576042335	0.00	Firmicutes Cluster 2	0.14	0.215706883	0.640226629	Ruminococcus
OTU_1357	0.499575206	-0.118940207	0.61	Firmicutes Cluster 1	0.00	0.004277474	0.428571429	unclassified.Lachnospiraceae
OTU_1358	0.000369021	0.511695216	0.00	Prevotella Cluster	0.39	0.205318733	1.87797619	Clostridium_sensu_stricto
OTU_136	0.065460554	0.284388146	0.12	Prevotella Cluster	0.09	0.067217442	1.372727273	Turicibacter
OTU_1366	0.002606656	0.503734921	0.01	Prevotella Cluster	0.02	0.006721744	3	Coprococcus
OTU_1370	0.423350286	0.128680644	0.54	Firmicutes Cluster 1	0.01	0.026275909	0.488372093	Blautia
OTU_1380	0.005024928	0.465945558	0.02	Firmicutes Cluster 1	0.01	0.01833203	0.4	unclassified.Lachnospiraceae
OTU_1388	0.747992353	-0.057114372	0.80	Firmicutes Cluster 1	0.00	0.003055338	0.2	Anaerostipes
OTU_139	0.000612191	0.538631095	0.00	Prevotella Cluster	0.11	0.272536175	0.408071749	unclassified.Bacteroidetes
OTU_1395	0.793334385	0.038005611	0.85	Firmicutes Cluster 1	0.04	0.134434885	0.272727273	unclassified.Lachnospiraceae
OTU_1396	0.000169763	0.599329127	0.00	Firmicutes Cluster 1	0.06	0.085549472	0.692857143	Blautia
OTU_14	3.48E-05	0.517766764	0.00	Bacteroides Cluster 2	4.13	3.502028745	1.178851858	Bacteroides
OTU_140	0.094681769	0.244142651	0.17	Prevotella Cluster	0.07	0.032997654	2.092592593	Howardella
OTU_141	0.166098594	-0.229782621	0.26	Pathogen Cluster	0.16	0.006721744	23.36363636	Gemella
OTU_1415	0.40504979	0.107037561	0.52	Firmicutes Cluster 1	0.24	0.326921197	0.745794393	Clostridium_XIVa
OTU_142	0.014465471	0.310582971	0.04	Firmicutes Cluster 2	1.25	1.3981228	0.892482517	Gemmiger
OTU_1421	0.330117636	0.171304314	0.44	Firmicutes Cluster 1	0.00	0.004888541	0.375	Gemmiger
OTU_143	0.004112343	0.41906145	0.01	Bacteroides Cluster 2	0.06	0.076994525	0.722222222	Alistipes
OTU_1439	NA	NA	NA	Prevotella Cluster	0.00	0.004277474	0	Clostridium_XI
OTU_144	0.08794441	0.29104275	0.16	Pathogen Cluster	0.23	0.031775518	7.326923077	Dialister
OTU_1446	0.157027055	-0.235158541	0.25	Firmicutes Cluster 1	0.01	0.011610285	0.578947368	Lachnospiraceae_incertae_sedis
OTU_145	0.23109117	0.171436256	0.33	Firmicutes Cluster 2	0.10	0.048274345	2.037974684	Lachnospiraceae_incertae_sedis
OTU_1451	NA	NA	NA	Bacteroides Cluster 1	0.00	0.006721744	0	Lachnospiraceae_incertae_sedis
OTU_1454	0.42785406	-0.128568013	0.54	Firmicutes Cluster 1	0.01	0.034219789	0.267857143	Lachnospiraceae_incertae_sedis
OTU_1459	7.32E-01	0.057478147	0.79	Bacteroides Cluster 2	0.01	0.009777083	0.75	Clostridium_XIVa
OTU_1461	0.705925925	-0.066993123	0.77	Firmicutes Cluster 1	0.00	0.003055338	0.2	Roseburia
OTU_1465	0.598070651	-0.093449699	0.70	Bacteroides Cluster 1	0.00	0.006110677	0.1	Coprococcus
OTU_147	0.000207255	0.589332838	0.00	Prevotella Cluster	0.04	0.07821666	0.5078125	unclassified.Lachnospiraceae
OTU_1475	0.566895426	0.074318187	0.68	Firmicutes Cluster 1	0.13	0.194930583	0.670846395	Blautia
OTU_1476	0.644546671	0.064645861	0.73	Firmicutes Cluster 1	0.06	0.091660149	0.606666667	Lachnospiraceae_incertae_sedis
OTU_148	0.018725681	0.393740087	0.04	Pathogen Cluster	0.39	0.260314822	1.509389671	Porphyromonas
OTU_149	0.113795353	0.22448358	0.19	Bacteroides Cluster 1	0.07	0.063551036	1.038461538	Lachnospiraceae_incertae_sedis
OTU_15	0.000408984	0.44789038	0.00	Firmicutes Cluster 1	0.78	0.694172859	1.127640845	Coprococcus
OTU_152	0.060403972	0.241346449	0.12	Bacteroides Cluster 2	0.31	0.33119867	0.931734317	Alistipes
OTU_1523	0.158034392	0.210719957	0.25	Bacteroides Cluster 2	0.04	0.155211185	0.24015748	Bacteroides

OTU_1524	0.02575194	0.341518192	0.06	Bacteroides Cluster 2	0.03	0.092882284	0.276315789	Bacteroides
OTU_154	0.000813485	0.569064317	0.00	Firmicutes Cluster 2	0.02	0.053162886	0.310344828	Clostridium_IV
OTU_1548	0.082248184	0.28315857	0.15	Firmicutes Cluster 2	0.01	0.017720962	0.75862069	unclassified.Ruminococcaceae
OTU_158	0.175397693	0.236682316	0.26	Pathogen Cluster	0.04	0.001222135	31	Solobacterium
OTU_16	6.64E-05	0.515411525	0.00	Bacteroides Cluster 2	0.48	0.729614783	0.659966499	Alistipes
OTU_161	0.00053368	0.498534859	0.00	Firmicutes Cluster 2	0.06	0.120380329	0.502538071	unclassified.Ruminococcaceae
OTU_162	7.01E-06	0.770331073	0.00	Bacteroides Cluster 2	0.06	0.014665624	4	unclassified.Sutterellaceae
OTU_163	0.026392203	0.316907182	0.06	Bacteroides Cluster 2	0.08	0.084938404	0.899280576	unclassified.Clostridiales
OTU_165	0.001904922	0.549029773	0.01	Bacteroides Cluster 2	0.04	0.003055338	14.2	unclassified.Alphaproteobacteria
OTU_166	0.710790202	-0.06557377	0.77	Prevotella Cluster	0.02	0.005499609	3.222222222	unclassified.Clostridiales
OTU_1663	0.707122686	0.064569904	0.77	Bacteroides Cluster 2	0.01	0.008554947	0.857142857	Barnesiella
OTU_167	1.09E-03	0.479372485	0.01	Bacteroides Cluster 1	0.04	0.052551819	0.709302326	Flavonifractor
OTU_17	0.01059235	0.324717178	0.03	Bacteroides Cluster 1	1.07	1.740931756	0.614601615	Bacteroides
OTU_1705	0.469103119	0.124559831	0.58	Firmicutes Cluster 1	0.00	0.013443488	0.227272727	Coprococcus
OTU_1707	6.39E-02	0.238473058	0.12	Firmicutes Cluster 1	0.26	0.461356081	0.569536424	Blautia
OTU_171	0.000281817	0.528396982	0.00	Prevotella Cluster	0.29	0.23220571	1.257894737	Phascolarctobacterium
OTU_1712	0.641428209	0.069465083	0.73	Firmicutes Cluster 1	0.02	0.051940751	0.376470588	Lachnospiracea_incertae_sedis
OTU_1718	0.040514881	0.272543929	0.08	Firmicutes Cluster 1	0.09	0.146656238	0.629166667	Dorea
OTU_1719	1	0	1.00	Firmicutes Cluster 1	0.01	0.004277474	1.428571429	unclassified.Lachnospiraceae
OTU_1725	0.119846362	0.230741548	0.20	Bacteroides Cluster 1	0.14	0.045830074	3.053333333	Clostridium_XIVa
OTU_1726	0.065930539	0.315333202	0.12	Firmicutes Cluster 2	0.01	0.014054556	0.391304348	Lachnospiracea_incertae_sedis
OTU_173	5.69E-06	0.796280058	0.00	Bacteroides Cluster 2	0.03	0.00794388	4	unclassified.Clostridiales
OTU_1732	8.19E-01	-3.66E-02	0.86	Firmicutes Cluster 1	0.01	0.032386586	0.245283019	Lachnospiracea_incertae_sedis
OTU_1738	0.651996164	0.079094026	0.73	Bacteroides Cluster 1	0.00	0.004888541	0.75	Lachnospiracea_incertae_sedis
OTU_1749	0.01261546	0.399900116	0.03	Bacteroides Cluster 1	0.04	0.012221353	3.55	Clostridium_XIVa
OTU_1756	9.86E-01	-0.002541397	0.99	Firmicutes Cluster 1	0.03	0.044607939	0.767123288	Blautia
OTU_1759	0.04139571	0.347019503	0.08	Prevotella Cluster	0.01	0.005499609	1.444444444	unclassified.Lachnospiraceae
OTU_1760	0.448405324	-0.125418965	0.56	Firmicutes Cluster 1	0.01	0.015276691	0.36	Lachnospiracea_incertae_sedis
OTU_1762	0.134333988	0.234366826	0.22	Firmicutes Cluster 1	0.01	0.035441924	0.310344828	Lachnospiracea_incertae_sedis
OTU_177	0.424489232	0.128451703	0.54	Bacteroides Cluster 2	0.02	0.010999218	1.611111111	Clostridium_XIVb
OTU_1772	0.381995703	0.121852407	0.49	Firmicutes Cluster 1	0.05	0.141767697	0.323275862	unclassified.Lachnospiraceae
OTU_1774	0.80990218	-0.038806942	0.85	Firmicutes Cluster 2	0.02	0.031164451	0.490196078	unclassified.Lachnospiraceae
OTU_1776	0.049649166	0.266994924	0.10	Firmicutes Cluster 1	0.12	0.113658584	1.02688172	unclassified.Lachnospiraceae
OTU_178	2.23E-04	0.601521236	0.00	Prevotella Cluster	0.03	0.031775518	1.076923077	Paraprevotella
OTU_1781	0.03450698	0.328070526	0.07	Bacteroides Cluster 1	0.02	0.026275909	0.88372093	Clostridium_XIVa
OTU_179	0.201209289	0.190758536	0.29	Bacteroides Cluster 2	0.05	0.058662495	0.895833333	unclassified.Ruminococcaceae
OTU_18	4.07E-05	0.534334764	0.00	Bacteroides Cluster 2	0.75	0.463800352	1.621870883	Parabacteroides
OTU_181	0.296605646	0.164441462	0.41	Firmicutes Cluster 2	0.02	0.117936058	0.165803109	unclassified.Lachnospiraceae
OTU_182	0.003978954	0.483074429	0.01	Bacteroides Cluster 2	0.02	0.008554947	2.571428571	unclassified.Ruminococcaceae
OTU_183	0.236780693	-0.168950487	0.34	Prevotella Cluster	0.04	0.044607939	0.97260274	Eubacterium
OTU_186	0.002878335	0.483125754	0.01	Firmicutes Cluster 2	0.03	0.063551036	0.548076923	unclassified.Ruminococcaceae
OTU_187	0.016384098	0.382500916	0.04	Prevotella Cluster	0.03	0.036052992	0.86440678	unclassified.Ruminococcaceae
OTU_1877	0.23421761	0.165343586	0.34	Firmicutes Cluster 1	0.06	0.155211185	0.38976378	Blautia
OTU_189	0.003051436	0.502775368	0.01	Firmicutes Cluster 1	0.02	0.061106766	0.3	Clostridium_XIVb
OTU_19	0.000364753	0.460413845	0.00	Firmicutes Cluster 1	0.28	0.166210403	1.658088235	Coprococcus
OTU_1925	0.710986976	0.060784175	0.77	Prevotella Cluster	0.02	0.015887759	1.346153846	Clostridium_XIVb
OTU_1936	0.588126494	-0.094294001	0.69	Prevotella Cluster	0.00	0.011610285	0.263157895	unclassified.Ruminococcaceae
OTU_196	0.480120628	0.108439298	0.59	Bacteroides Cluster 2	0.03	0.040330465	0.803030303	Alistipes
OTU_197	0.086492613	0.290034777	0.15	Pathogen Cluster	0.03	0.136268088	0.201793722	Bacteroides
OTU_1977	0.002047091	0.456937747	0.01	Firmicutes Cluster 2	0.10	0.112436449	0.907608696	Ruminococcus
OTU_199	0.096411876	0.289088508	0.17	Firmicutes Cluster 2	0.01	0.006721744	1	unclassified.Clostridiales
OTU_2	0.000337974	0.446014354	0.00	Firmicutes Cluster 1	3.82	4.171758897	0.915043211	Faecalibacterium
OTU_20	0.001978911	0.42204247	0.01	Prevotella Cluster	0.36	0.483965585	0.742424242	Clostridium_XI
OTU_200	0.155731251	0.22370079	0.25	Firmicutes Cluster 1	0.01	0.021998436	0.555555556	unclassified.Lachnospiraceae
OTU_201	0.018539952	0.393130141	0.04	Prevotella Cluster	0.02	0.019554165	0.875	Bacteroides
OTU_2018	0.949056346	-0.009813358	0.96	Firmicutes Cluster 2	0.01	0.034830856	0.385964912	unclassified.Clostridiales
OTU_203	0.003292685	0.488285579	0.01	Bacteroides Cluster 2	0.04	0.040941533	1.044776119	Clostridium_IV
OTU_205	0.004198561	0.450491309	0.01	Prevotella Cluster	0.02	0.053773954	0.420454545	Mogibacterium
OTU_206	0.000917639	0.574960257	0.00	Bacteroides Cluster 2	0.08	0.021998436	3.472222222	unclassified.Ruminococcaceae
OTU_2064	0.796357116	-0.045992205	0.85	Firmicutes Cluster 2	0.00	0.007332812	0.166666667	Coprococcus

OTU_207	0.622758813	0.084242082	0.72	Prevotella Cluster	0.01	0.001833203	5	Flavonifractor
OTU_208	0.059439952	0.288421542	0.11	Firmicutes Cluster 2	0.02	0.04949648	0.419753086	unclassified.Clostridiales
OTU_21	0.018224227	0.306710831	0.04	Firmicutes Cluster 1	0.23	0.232816777	0.989501312	Clostridium_XIVa
OTU_212	0.004621576	0.451494609	0.02	Bacteroides Cluster 2	0.04	0.035441924	1.24137931	Butyricimonas
OTU_213	0.108054067	0.246836525	0.19	Prevotella Cluster	0.06	0.060495698	1	Veillonella
OTU_214	0.026073726	0.382982191	0.06	Bacteroides Cluster 1	0.01	0.009777083	0.8125	Lachnospiracea_incertae_sedis
OTU_216	0.014103693	0.403274488	0.04	Prevotella Cluster	0.02	0.025053774	0.609756098	unclassified.Clostridiales
OTU_217	4.80E-05	0.659040627	0.00	Prevotella Cluster	0.04	0.022609503	1.918918919	unclassified.Clostridiales
OTU_218	0.236817539	0.192699216	0.34	Bacteroides Cluster 2	0.02	0.012832421	1.238095238	Alistipes
OTU_22	0.002343765	0.384773663	0.01	Firmicutes Cluster 1	0.60	0.738780798	0.811414392	Dorea
OTU_222	0.748079567	-0.056796183	0.80	Prevotella Cluster	0.01	0.005499609	1.111111111	Peptococcus
OTU_223	7.06E-01	-0.066993123	0.77	Bacteroides Cluster 1	0.01	0.000611068	10	Anaerorhabdus
OTU_226	1	0	1.00	Bacteroides Cluster 2	0.02	0.013443488	1.727272727	Clostridium_IV
OTU_228	0.000109663	0.629222482	0.00	Prevotella Cluster	0.04	0.042163668	0.855072464	Faecalibacterium
OTU_229	8.38E-05	0.667855022	0.00	Bacteroides Cluster 2	0.06	0.020165233	3.212121212	unclassified.Clostridiales
OTU_23	0.000355839	0.453886254	0.00	Firmicutes Cluster 2	0.68	1.24168948	0.543799213	unclassified.Ruminococcaceae
OTU_230	0.003699418	0.458891852	0.01	Firmicutes Cluster 2	0.07	0.07577239	0.975806452	unclassified.Ruminococcaceae
OTU_231	0.025719351	0.391391893	0.06	Bacteroides Cluster 1	0.00	0.004277474	1	unclassified.Lachnospiraceae
OTU_234	2.07E-05	0.581640344	0.00	Bacteroides Cluster 2	0.49	0.561577177	0.87921654	Bacteroides
OTU_235	0.165554867	0.235606668	0.26	Bacteroides Cluster 1	0.01	0.009166015	0.733333333	Barnesiella
OTU_237	0.001904922	0.549029773	0.01	Bacteroides Cluster 1	0.03	0.000611068	44	Clostridium_XIVb
OTU_239	0.01447871	0.317784646	0.04	Prevotella Cluster	0.79	0.39658291	1.993836672	Streptococcus
OTU_24	0.126178953	0.193216957	0.21	Firmicutes Cluster 1	0.69	1.388345718	0.500440141	Lachnospiracea_incertae_sedis
OTU_240	0.157018688	0.230390858	0.25	Prevotella Cluster	0.02	0.017109894	0.892857143	unclassified.Coriobacteriaceae
OTU_241	0.909251484	0.019481341	0.93	Bacteroides Cluster 1	0.01	0.022609503	0.351351351	Clostridium_XIVa
OTU_242	0.510846609	0.089770053	0.62	Firmicutes Cluster 1	0.08	0.166210403	0.477941176	Lachnospiracea_incertae_sedis
OTU_246	0.785447361	0.043391227	0.84	Bacteroides Cluster 2	0.02	0.013443488	1.409090909	Pseudoflavonifractor
OTU_247	0.110704064	0.272727273	0.19	Bacteroides Cluster 2	0.01	0.022609503	0.432432432	Alistipes
OTU_249	0.70623731	-0.066136033	0.77	Pathogen Cluster	0.03	0.046441142	0.605263158	Peptoniphilus
OTU_25	5.11E-03	0.380248938	0.02	Bacteroides Cluster 2	1.11	0.827385608	1.345642541	Bifidobacterium
OTU_251	0.019154487	0.296296296	0.04	Bacteroides Cluster 1	1.03	1.536835158	0.671172962	Bacteroides
OTU_259	0.003357042	0.495742104	0.01	Bacteroides Cluster 2	0.02	0.012832421	1.904761905	Clostridium_IV
OTU_26	8.88E-06	0.658349745	0.00	Prevotella Cluster	3.50	4.686888932	0.746675359	Prevotella
OTU_261	0.150383639	0.252788311	0.24	Prevotella Cluster	0.00	0.006110677	0.5	unclassified.Clostridiales
OTU_262	0.612780034	-0.084224494	0.71	Pathogen Cluster	0.01	0.015276691	0.96	Eggerthella
OTU_263	0.915801431	-0.017857459	0.94	Bacteroides Cluster 2	0.01	0.008554947	1.071428571	unclassified.Ruminococcaceae
OTU_269	0.001056833	0.563380282	0.01	Bacteroides Cluster 2	0.01	0.021387368	0.685714286	unclassified.Clostridiales
OTU_27	0.001291531	0.459153624	0.01	Prevotella Cluster	0.40	0.27131404	1.486486486	Clostridium_sensu_stricto
OTU_274	0.387677388	0.144106177	0.50	Firmicutes Cluster 1	0.01	0.01038815	0.941176471	Butyricoccus
OTU_275	0.020649191	0.389473684	0.05	Bacteroides Cluster 2	0.01	0.012221353	1.05	Methanobrevibacter
OTU_277	1.29E-04	0.666666667	0.00	Bacteroides Cluster 2	0.01	0.046441142	0.263157895	Gemmiger
OTU_278	0.004929019	0.46875	0.02	Firmicutes Cluster 1	0.02	0.012832421	1.476190476	Coprococcus
OTU_279	0.003194059	0.480903312	0.01	Prevotella Cluster	0.01	0.026886977	0.363636364	unclassified.Ruminococcaceae
OTU_28	0.017167932	0.356813464	0.04	Prevotella Cluster	0.42	0.205318733	2.032738095	Haemophilus
OTU_283	0.979387324	0.004404688	0.99	Bacteroides Cluster 1	0.01	0.00794388	0.846153846	Holdemania
OTU_288	0.277906948	0.175406503	0.38	Prevotella Cluster	0.01	0.014665624	0.791666667	Clostridium_XIVa
OTU_29	0.007443213	0.423692469	0.02	Bacteroides Cluster 2	0.22	0.516963238	0.429078014	Bacteroides
OTU_290	0.003723575	0.471159953	0.01	Prevotella Cluster	0.03	0.080049863	0.381679389	Paraprevotella
OTU_291	0.356611646	0.153259496	0.48	Bacteroides Cluster 2	0.01	0.010999218	0.833333333	Oscillibacter
OTU_293	0.123892754	0.265822103	0.21	Prevotella Cluster	0.01	0.003055338	4.4	unclassified.Ruminococcaceae
OTU_297	8.76E-03	0.452991453	0.03	Bacteroides Cluster 2	0.01	0.014665624	0.708333333	unclassified.Coriobacteriaceae
OTU_3	0.000743966	0.411290323	0.00	Bacteroides Cluster 1	5.86	7.012001369	0.83546841	Bacteroides
OTU_30	0.039129321	0.258922833	0.08	Bacteroides Cluster 2	0.85	1.118253813	0.759562842	Oscillibacter
OTU_300	0.712907301	0.060099858	0.77	Firmicutes Cluster 2	0.02	0.007332812	2.916666667	Sporobacter
OTU_305	0.450505507	-0.121043267	0.56	Bacteroides Cluster 2	0.01	0.017720962	0.551724138	unclassified.Ruminococcaceae
OTU_306	0.194656862	0.220265173	0.29	Bacteroides Cluster 2	0.03	0.010999218	2.444444444	Clostridium_IV
OTU_31	0.004835056	0.364410051	0.02	Bacteroides Cluster 2	0.63	0.593346695	1.056642636	Bacteroides
OTU_314	0.078201797	0.286530348	0.14	Bacteroides Cluster 2	0.02	0.009166015	2.533333333	unclassified.Clostridiales
OTU_32	2.33E-06	0.750517059	0.00	Prevotella Cluster	0.90	1.502004302	0.601708706	Bacteroides
OTU_321	2.35E-01	0.175798057	0.34	Firmicutes Cluster 1	0.03	0.051940751	0.635294118	Lachnospiracea_incertae_sedis

OTU_322	NA	NA	NA	Pathogen Cluster	0.06	0	Inf	Staphylococcus
OTU_324	0.050519694	0.305648663	0.10	Firmicutes Cluster 2	0.02	0.017109894	1.035714286	Anaerotruncus
OTU_325	0.506496376	0.112017924	0.61	Prevotella Cluster	0.01	0.012832421	0.904761905	Clostridium_XIVa
OTU_327	0.00044304	0.593464102	0.00	Prevotella Cluster	0.01	0.023831639	0.282051282	Slackia
OTU_33	8.75E-05	0.580388791	0.00	Prevotella Cluster	1.18	0.102048299	11.58083832	Sutterella
OTU_330	0.007757656	0.467520803	0.02	Prevotella Cluster	0.00	0.005499609	0.444444444	unclassified.Clostridiales
OTU_331	0.18022977	0.233333333	0.27	Firmicutes Cluster 2	0.04	0.022609503	1.837837838	unclassified.Clostridiales
OTU_34	0.1613195	-0.212748795	0.25	Pathogen Cluster	2.81	0.004277474	657.5714286	Halomonas
OTU_342	0.167299188	0.226495726	0.26	Firmicutes Cluster 2	0.01	0.011610285	1	unclassified.Clostridiales
OTU_347	0.225207251	0.203104276	0.33	Bacteroides Cluster 2	0.02	0.004888541	3.5	Victivallis
OTU_35	0.000727464	0.569873934	0.00	Prevotella Cluster	0.95	0.681951506	1.393369176	Bacteroides
OTU_351	0.381163589	0.14101019	0.49	Bacteroides Cluster 2	0.04	0.009166015	3.866666667	unclassified.Clostridiales
OTU_354	0.834254474	0.036408196	0.87	Bacteroides Cluster 2	0.00	0.003055338	1.6	Lachnospiraceae_incertae_sedis
OTU_355	0.013327658	0.417465789	0.04	Prevotella Cluster	0.01	0.015887759	0.615384615	unclassified.Coriobacteriaceae
OTU_357	0.005623634	0.4382699	0.02	Firmicutes Cluster 1	0.02	0.02872018	0.617021277	Lachnospiraceae_incertae_sedis
OTU_36	0.022441114	0.364994138	0.05	Prevotella Cluster	0.91	1.948083692	0.467691343	Streptococcus
OTU_360	0.305993394	-0.176679548	0.42	Firmicutes Cluster 2	0.00	0.004888541	0.875	Lachnospiraceae_incertae_sedis
OTU_361	0.063643399	0.307362187	0.12	Bacteroides Cluster 2	0.01	0.012832421	0.857142857	unclassified.Ruminococcaceae
OTU_366	0.680293245	0.073044083	0.76	Bacteroides Cluster 2	0.00	0.004888541	0.875	unclassified.Ruminococcaceae
OTU_368	0.657341717	-0.075389857	0.74	Bacteroides Cluster 2	0.01	0.005499609	1.444444444	Anaerotruncus
OTU_37	0.001065726	0.446465239	0.01	Firmicutes Cluster 1	0.12	0.163766132	0.720149254	Lachnospiraceae_incertae_sedis
OTU_370	0.017454896	0.386474896	0.04	Bacteroides Cluster 2	0.01	0.026275909	0.372093023	Alistipes
OTU_371	0.000372701	0.620395465	0.00	Bacteroides Cluster 2	0.00	0.003666406	1.333333333	unclassified.Desulfovibrionaceae
OTU_373	0.002666552	0.532903504	0.01	Bacteroides Cluster 2	0.00	0.003666406	0.833333333	Clostridium_IV
OTU_375	7.67E-07	0.84094517	0.00	Prevotella Cluster	0.06	0.142989832	0.388888889	unclassified.Porphyromonadaceae
OTU_378	0.675902782	0.071362403	0.76	Firmicutes Cluster 2	0.01	0.00794388	0.846153846	Oscillibacter
OTU_38	0.000656752	0.462735825	0.00	Bacteroides Cluster 2	0.30	0.315310911	0.945736434	Alistipes
OTU_380	0.015242238	0.423678068	0.04	Bacteroides Cluster 2	0.00	0.003666406	1.166666667	Clostridium_IV
OTU_382	NA	NA	NA	Prevotella Cluster	0.00	0.004888541	0	unclassified.Ruminococcaceae
OTU_385	0.684866655	0.071115698	0.76	Prevotella Cluster	0.01	0.002444271	2.75	Rothia
OTU_387	0.397190191	0.143722882	0.51	Bacteroides Cluster 2	0.01	0.011610285	0.473684211	unclassified.Clostridiales
OTU_39	8.31E-05	0.562225543	0.00	Firmicutes Cluster 1	0.23	0.296978882	0.790123457	Lachnospiraceae_incertae_sedis
OTU_397	0.146555786	0.236354399	0.23	Bacteroides Cluster 2	0.03	0.014665624	1.833333333	Butyricimonas
OTU_4	0.002057154	0.39215754	0.01	Firmicutes Cluster 1	0.67	1.132919437	0.588996764	Anaerostipes
OTU_40	1.94E-02	0.322367866	0.04	Bacteroides Cluster 1	0.27	0.053162886	4.988505747	Clostridium_XIVa
OTU_41	0.006805529	0.429954839	0.02	Prevotella Cluster	0.13	0.554238365	0.234840132	Clostridium_sensu_stricto
OTU_412	0.00277816	0.450326605	0.01	Bacteroides Cluster 2	0.05	0.035441924	1.344827586	Butyricimonas
OTU_415	2.45E-06	0.749724292	0.00	Prevotella Cluster	0.66	0.915990418	0.715143429	Prevotella
OTU_42	0.017633931	0.31327575	0.04	Prevotella Cluster	0.62	0.590902425	1.045501551	Clostridium_XI
OTU_43	0.903806627	-0.018878008	0.93	Pathogen Cluster	1.63	0.001833203	888.3333333	Shewanella
OTU_430	0.009185544	0.379486496	0.03	Bacteroides Cluster 2	0.06	0.053773954	1.147727273	Acetanaerobacterium
OTU_436	0.115739112	0.271493723	0.19	Pathogen Cluster	0.02	0.000611068	34	Actinomyces
OTU_438	0.125344922	0.259976892	0.21	Firmicutes Cluster 2	0.00	0.010999218	0.333333333	Enterorhabdus
OTU_44	0.011971269	0.32936252	0.03	Firmicutes Cluster 1	0.29	0.281091122	1.02173913	Lachnospiraceae_incertae_sedis
OTU_444	0.367040608	0.151720252	0.49	Bacteroides Cluster 2	0.00	0.012832421	0.333333333	Pseudoflavonifractor
OTU_45	2.62E-06	0.606124942	0.00	Firmicutes Cluster 1	0.55	0.31042237	1.779527559	unclassified.Lachnospiraceae
OTU_456	0.006903185	0.442268981	0.02	Prevotella Cluster	0.04	0.0207763	1.705882353	Allisonella
OTU_457	0.033762768	0.31935106	0.07	Firmicutes Cluster 1	0.12	0.06782851	1.756756757	Lachnospiraceae_incertae_sedis
OTU_458	0.568231383	0.100156617	0.68	Bacteroides Cluster 2	0.01	0.001833203	3.666666667	unclassified.Clostridiales
OTU_46	0.072548996	0.288503959	0.13	Pathogen Cluster	0.80	3.070614978	0.260895522	Klebsiella
OTU_468	0.53778182	-0.107826504	0.65	Bacteroides Cluster 2	0.00	0.002444271	2	unclassified.Ruminococcaceae
OTU_47	1.40E-05	0.586639852	0.00	Firmicutes Cluster 1	0.14	0.180876027	0.766891892	Clostridium_XVIII
OTU_470	0.010410241	0.436398893	0.03	Bacteroides Cluster 2	0.01	0.001833203	7.333333333	unclassified.Oxalobacteraceae
OTU_48	0.024076813	0.307775935	0.05	Prevotella Cluster	0.20	0.157044388	1.295719844	Clostridium_XIVb
OTU_49	0.049480965	0.329064156	0.10	Pathogen Cluster	0.29	0.012221353	23.7	Fusobacterium
OTU_5	0.084806349	0.217214939	0.15	Firmicutes Cluster 1	1.21	1.541112632	0.787073751	Lachnospiraceae_incertae_sedis
OTU_502	0.003433994	0.50511572	0.01	Firmicutes Cluster 2	0.01	0.003055338	2.2	unclassified.Clostridiales
OTU_507	0.001150239	0.53843376	0.01	Bacteroides Cluster 2	0.09	0.062328901	1.421568627	Bacteroides
OTU_51	4.44E-05	0.555964316	0.00	Firmicutes Cluster 2	0.27	0.414914939	0.659793814	Sporobacter
OTU_52	NA	NA	NA	Prevotella Cluster	0.00	0.001222135	0	Fusobacterium

OTU_53	1.72E-06	0.77333545	0.00	Bacteroides Cluster 2	0.14	0.1643772	0.821561338	Phascolarctobacterium
OTU_534	0.022846058	0.390231006	0.05	Prevotella Cluster	0.02	0.005499609	4.222222222	Desulfovibrio
OTU_535	0.37879454	-0.147117164	0.49	Bacteroides Cluster 1	0.01	0.006721744	2	Clostridium_XIVa
OTU_536	0.029460556	0.296053068	0.06	Bacteroides Cluster 1	0.12	0.342197888	0.358928571	Bacteroides
OTU_54	0.628402917	-0.070160407	0.72	Firmicutes Cluster 1	0.05	0.032997654	1.481481481	Clostridium_XIVa
OTU_545	0.005111574	0.482600547	0.02	Bacteroides Cluster 2	0.01	0.001833203	5.333333333	Erysipelotrichaceae_incertae_sedis
OTU_55	0.051672971	0.261356734	0.10	Bacteroides Cluster 2	0.19	0.313477708	0.598440546	Bifidobacterium
OTU_555	0.169281506	0.223935339	0.26	Bacteroides Cluster 2	0.05	0.137490223	0.342222222	Alistipes
OTU_56	1.65E-07	0.815602837	0.00	Bacteroides Cluster 2	0.24	0.055607157	4.351648352	Sutterella
OTU_57	7.87E-06	0.664878943	0.00	Firmicutes Cluster 2	0.37	0.348308565	1.073684211	unclassified.Clostridiales
OTU_58	2.11E-05	0.666671449	0.00	Prevotella Cluster	0.27	0.22426183	1.185286104	Desulfovibrio
OTU_580	0.391509791	0.150278648	0.50	Firmicutes Cluster 2	0.00	0.004277474	0.714285714	Oscillibacter
OTU_586	0.00340692	0.468965066	0.01	Prevotella Cluster	0.03	0.018943097	1.35483871	Clostridium_XIVa
OTU_59	0.006071315	0.355319149	0.02	Bacteroides Cluster 2	1.03	0.596402034	1.719262295	Ruminococcus
OTU_593	0.107151911	0.272842658	0.19	Pathogen Cluster	0.01	0.007332812	1.75	Clostridium_XVIII
OTU_6	0.040340642	0.259264199	0.08	Pathogen Cluster	2.96	3.740345131	0.792517562	Escherichia_Shigella
OTU_60	0.013667274	0.322256651	0.04	Firmicutes Cluster 2	0.15	0.384361557	0.383147854	Oscillibacter
OTU_603	0.116317273	0.22304299	0.19	Firmicutes Cluster 2	0.08	0.08616054	0.971631206	Lachnospiraceae_incertae_sedis
OTU_61	0.005439654	0.3891103	0.02	Prevotella Cluster	0.32	0.08616054	3.758865248	Streptococcus
OTU_62	1.38E-05	0.646827931	0.00	Bacteroides Cluster 2	0.68	0.468688893	1.449804433	Bacteroides
OTU_627	0.009443548	0.459016393	0.03	Prevotella Cluster	0.00	0.005499609	0.555555556	unclassified.Bacteroidetes
OTU_63	0.003879261	0.40398503	0.01	Firmicutes Cluster 1	0.06	0.062328901	1.029411765	Lachnospiraceae_incertae_sedis
OTU_639	0.000344524	0.553405736	0.00	Prevotella Cluster	0.08	0.072717051	1.033613445	Clostridium_XIVa
OTU_64	0.000130984	0.543640756	0.00	Firmicutes Cluster 2	0.28	0.312866641	0.88671875	Ruminococcus
OTU_65	3.40E-02	2.96E-01	0.07	Firmicutes Cluster 2	0.09	0.304922761	0.29258517	Flavonifractor
OTU_66	9.89E-05	0.551905784	0.00	Firmicutes Cluster 2	0.53	0.789499413	0.673374613	Coproccoccus
OTU_673	0.189894158	0.191369823	0.28	Prevotella Cluster	0.06	0.033608721	1.745454545	Lachnospiraceae_incertae_sedis
OTU_678	0.836795743	0.034961127	0.87	Bacteroides Cluster 1	0.00	0.01038815	0.411764706	Clostridium_XIVa
OTU_68	7.97E-05	0.66470299	0.00	Bacteroides Cluster 1	0.11	0.031775518	3.461538462	Dialister
OTU_681	0.071647194	0.30192982	0.13	Prevotella Cluster	0.01	0.031164451	0.196078431	Veillonella
OTU_689	0.590284701	0.087708605	0.69	Prevotella Cluster	0.03	0.007332812	3.916666667	Clostridium_sensu_stricto
OTU_69	0.002527399	0.472590636	0.01	Prevotella Cluster	0.17	0.185764568	0.907894737	unclassified.Ruminococcaceae
OTU_7	2.61E-05	0.558498896	0.00	Bacteroides Cluster 2	1.80	3.599188502	0.499660441	Akkermansia
OTU_70	6.91E-05	0.585501455	0.00	Bacteroides Cluster 2	0.18	0.273758311	0.658482143	Clostridium_IV
OTU_702	0.029329624	0.313922635	0.06	Bacteroides Cluster 1	0.15	0.157655456	0.976744186	Clostridium_XIVa
OTU_71	6.73E-07	0.761906221	0.00	Bacteroides Cluster 2	0.34	0.304311693	1.126506024	Bacteroides
OTU_72	0.195695196	0.172236217	0.29	Bacteroides Cluster 2	0.19	0.119158193	1.569230769	Odoribacter
OTU_721	0.195545161	-0.219455087	0.29	Bacteroides Cluster 1	0.01	0.009166015	1.333333333	Clostridium_XIVa
OTU_727	0.564631658	-0.103448276	0.68	Firmicutes Cluster 1	0.00	0.001833203	1	unclassified.Lachnospiraceae
OTU_731	0.329294855	0.123203545	0.44	Firmicutes Cluster 1	0.54	0.827385608	0.652880355	Blautia
OTU_738	0.011514855	0.36922321	0.03	Firmicutes Cluster 1	0.08	0.110603246	0.745856354	Lachnospiraceae_incertae_sedis
OTU_74	0.077505222	0.290424556	0.14	Pathogen Cluster	0.27	0.024442706	11.2	Parvimonas
OTU_745	0.006841386	0.427281519	0.02	Prevotella Cluster	0.10	0.191264177	0.504792332	Erysipelotrichaceae_incertae_sedis
OTU_75	8.00E-06	0.579355822	0.00	Bacteroides Cluster 2	0.70	0.38863903	1.801886792	Barnesiella
OTU_751	0.193208478	0.203148367	0.29	Firmicutes Cluster 1	0.01	0.030553383	0.34	Lachnospiraceae_incertae_sedis
OTU_755	0.427247194	0.121716124	0.54	Firmicutes Cluster 1	0.02	0.040941533	0.432835821	Lachnospiraceae_incertae_sedis
OTU_76	0.00799471	0.370939885	0.02	Bacteroides Cluster 2	0.24	0.147878373	1.615702479	Clostridium_IV
OTU_761	0.000140753	0.603729969	0.00	Firmicutes Cluster 1	0.05	0.042774736	1.057142857	Lachnospiraceae_incertae_sedis
OTU_77	0.014353222	0.32743443	0.04	Bacteroides Cluster 1	0.13	0.08616054	1.460992908	Bilophila
OTU_78	5.43E-05	0.675485122	0.00	Pathogen Cluster	0.32	0.077605592	4.133858268	Enterococcus
OTU_782	0.254757132	0.178752098	0.35	Bacteroides Cluster 2	0.02	0.035441924	0.465517241	Alistipes
OTU_784	0.114223944	0.26577699	0.19	Prevotella Cluster	0.01	0.018943097	0.290322581	unclassified.Clostridiales
OTU_788	0.000676707	0.450440891	0.00	Firmicutes Cluster 1	0.22	0.234038913	0.921671018	Lachnospiraceae_incertae_sedis
OTU_79	0.331894407	0.127576589	0.44	Firmicutes Cluster 1	0.14	0.11488072	1.244680851	Clostridium_XIVa
OTU_790	0.00253593	0.51446574	0.01	Bacteroides Cluster 2	0.00	0.014054556	0.260869565	Akkermansia
OTU_8	0.646561622	0.059138097	0.73	Firmicutes Cluster 1	0.48	0.677062964	0.710288809	Roseburia
OTU_802	0.000426493	0.441505824	0.00	Firmicutes Cluster 1	1.84	1.715266914	1.071250445	Faecalibacterium
OTU_809	0.860762123	0.026434187	0.89	Firmicutes Cluster 1	0.01	0.089826946	0.163265306	Lachnospiraceae_incertae_sedis
OTU_81	0.036946278	0.280407241	0.08	Firmicutes Cluster 1	0.10	0.197374853	0.501547988	unclassified.Ruminococcaceae
OTU_82	0.000188952	0.592245487	0.00	Prevotella Cluster	0.45	0.758334963	0.591458501	Prevotella

OTU_822	0.443434543	-0.132499735	0.55	Prevotella Cluster	0.00	0.008554947	0.285714286	Flavonifractor
OTU_83	0.088966644	0.226191327	0.16	Firmicutes Cluster 2	0.25	0.353197106	0.693771626	Lachnospiraceae_incertae_sedis
OTU_830	0.913389972	0.017948773	0.94	Firmicutes Cluster 2	0.01	0.022609503	0.27027027	Lachnospiraceae_incertae_sedis
OTU_837	0.253886852	0.16953753	0.35	Firmicutes Cluster 1	0.04	0.083716269	0.532846715	unclassified.Lachnospiraceae
OTU_84	7.04E-05	0.638899124	0.00	Prevotella Cluster	0.05	0.188819906	0.239482201	unclassified.Clostridiales
OTU_843	0.05290069	0.319866529	0.10	Prevotella Cluster	0.03	0.091049081	0.342281879	Prevotella
OTU_856	0.001822708	0.438196677	0.01	Firmicutes Cluster 1	0.19	0.248704537	0.776412776	Bacteroides
OTU_86	6.76E-05	0.64671795	0.00	Bacteroides Cluster 1	0.02	0.017720962	1.206896552	unclassified.Rhodospirillaceae
OTU_869	0.632989532	-0.083389653	0.73	Prevotella Cluster	0.01	0.001222135	9	Actinomyces
OTU_87	0.000294743	0.597938144	0.00	Bacteroides Cluster 2	0.09	0.046441142	1.921052632	Alistipes
OTU_877	0.631885133	0.076196063	0.73	Prevotella Cluster	0.02	0.009777083	2.25	Lachnospiraceae_incertae_sedis
OTU_88	0.000924593	0.516295956	0.00	Bacteroides Cluster 1	0.04	0.055607157	0.681318681	Barnesiella
OTU_884	1.15E-01	0.23450334	0.19	Firmicutes Cluster 2	0.04	0.055607157	0.725274725	unclassified.Ruminococcaceae
OTU_888	0.614274784	0.083321762	0.71	Bacteroides Cluster 1	0.01	0.021387368	0.342857143	Lachnospiraceae_incertae_sedis
OTU_89	0.163399161	0.231709369	0.25	Pathogen Cluster	0.22	0.00794388	28.15384615	Streptococcus
OTU_9	0.014198498	0.333164673	0.04	Pathogen Cluster	1.32	0.288423934	4.593220339	Bacteroides
OTU_92	0.005866875	0.396783508	0.02	Firmicutes Cluster 2	0.10	0.118547126	0.824742268	unclassified.Ruminococcaceae
OTU_922	0.963495932	0.007253808	0.98	Firmicutes Cluster 1	0.01	0.027498045	0.311111111	Lachnospiraceae_incertae_sedis
OTU_930	0.643854035	-0.072534641	0.73	Firmicutes Cluster 1	0.02	0.035441924	0.448275862	unclassified.Lachnospiraceae
OTU_94	0.001305542	0.425302167	0.01	Bacteroides Cluster 2	0.15	0.097770825	1.54375	Collinsella
OTU_949	0.13808909	0.234560764	0.22	Firmicutes Cluster 1	0.02	0.109992178	0.155555556	Bacteroides
OTU_96	0.02758643	0.322941514	0.06	Prevotella Cluster	0.13	0.274369378	0.481069042	Acetanaerobacterium
OTU_960	0.294817916	0.135449811	0.40	Firmicutes Cluster 1	0.23	0.411859601	0.557863501	unclassified.Lachnospiraceae
OTU_962	0.001099578	0.497090135	0.01	Prevotella Cluster	0.04	0.143600899	0.30212766	Lachnospiraceae_incertae_sedis
OTU_968	0.16699084	0.18147671	0.26	Firmicutes Cluster 1	0.13	0.249315604	0.50245098	Clostridium_XIVa
OTU_969	0.425569385	0.134490192	0.54	Prevotella Cluster	0.01	0.005499609	2.444444444	Clostridium_IV
OTU_97	0.01427565	0.33926477	0.04	Prevotella Cluster	0.12	0.123435667	1.004950495	Flavonifractor
OTU_972	0.169847399	0.239045722	0.26	Firmicutes Cluster 1	0.00	0.00794388	0.384615385	Coprococcus
OTU_98	4.46E-06	0.776653352	0.00	Firmicutes Cluster 2	0.09	0.064773172	1.462264151	Ruminococcus
OTU_988	0.4853091	0.097330804	0.59	Firmicutes Cluster 1	0.05	0.112436449	0.451086957	Dorea
OTU_989	0.481741941	0.118081985	0.59	Firmicutes Cluster 1	0.00	0.016498827	0.185185185	Lachnospiraceae_incertae_sedis
OTU_99	0.010345649	0.363115024	0.03	Firmicutes Cluster 1	0.03	0.089826946	0.360544218	unclassified.Lachnospiraceae
OTU_997	0.371783931	0.138522417	0.49	Firmicutes Cluster 2	0.010999218	0.066606375	0.165137615	Oscillibacter
OTU_998	0.017558315	0.376821488	0.04	Firmicutes Cluster 1	0.028109112	0.017720962	1.586206897	Oscillibacter