

Microbial Succession and Higher Alcohols Production in Northern Huangjiu Fermentation

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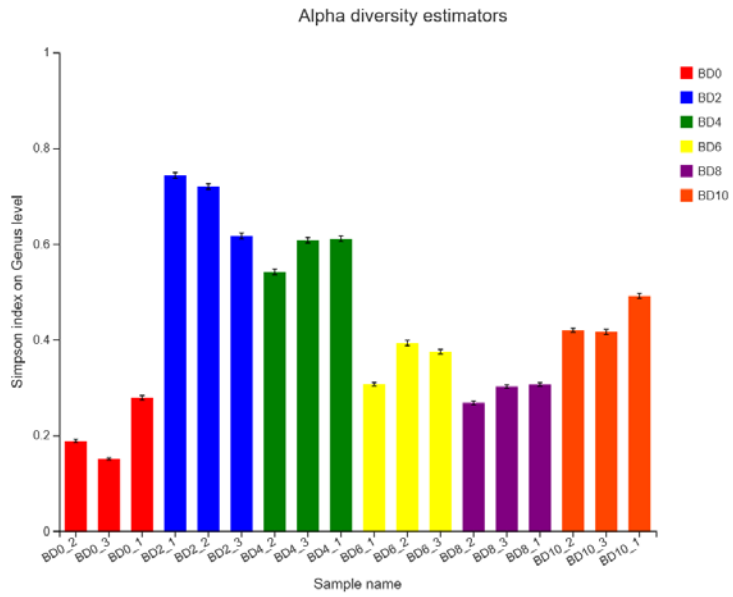


Figure S1. The fungal community diversity of the samples using alpha-diversity index.

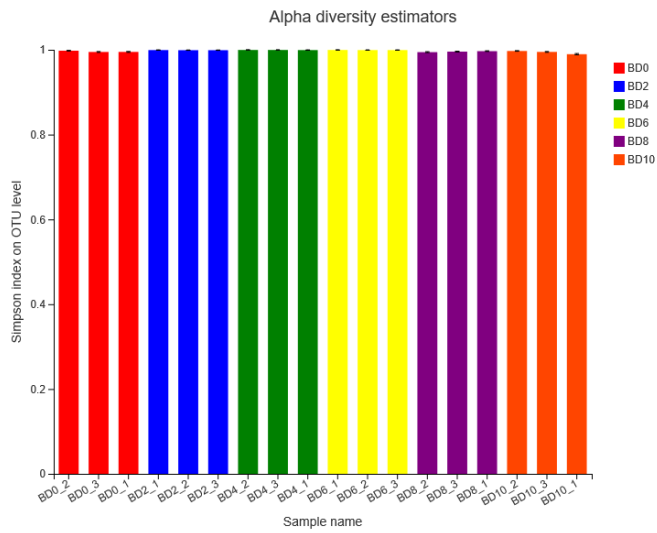


Figure S2. The bacterial community diversity of the samples using alpha-diversity index.

Table S1. The changes of alcohol, reducing sugar and acid during fermentation in northern Huangjiu.

	Day 0	Day 2	Day 4	Day 6	Day 8	Day 10
Alcohol (%vol)	0.000±0.000	6.520±0.347	11.646±0.962	12.132±0.408	12.298±0.303	12.584±0.345
Reducing sugar (g/L)	16.411±0.340	9.772±0.395	8.717±0.216	7.991±0.461	6.997±0.286	6.157±0.227
Acid (g/L)	0.837±0.052	3.736±0.263	5.255±0.229	5.093±0.775	5.007±0.184	5.013±0.425

*Every value was expressed as means standard error (n=3).

Table S2. The high-throughput sequencing of fungal diversity during the fermentation process in northern Huangjiu.

OTU ID	Day0_1	Day0_2	Day0_3	Day2_1	Day2_2	Day2_3	Day4_1	Day4_2	Day4_3
<i>Aspergillus</i>	8	6	6	1	0	2	0	0	1
<i>Malassezia</i>	1	1	1	0	0	2	1	4	2
<i>Podosphaera</i>	0	0	1	0	0	0	0	0	0
<i>Saccharomyces</i>	30339	32705	33521	31238	37968	38401	34770	41404	38034
<i>Thermoascus</i>	67	27	78	9	16	13	10	2	3

Refer to Table S2 (continued)

OTU ID	Day6_1	Day6_2	Day6_3	Day8_1	Day8_2	Day8_3	Day10_1	Day10_2	Day10_3
<i>Aspergillus</i>	2	0	1	0	1	1	1	0	2
<i>Malassezia</i>	0	1	0	3	1	1	3	1	1
<i>Podosphaera</i>	0	0	0	0	0	0	3	0	0
<i>Saccharomyces</i>	34125	37213	38754	35604	37345	38521	34253	35150	37495
<i>Thermoascus</i>	5	10	12	53	101	80	171	47	91

<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Frankiales;f__Nakamurellaceae;g__Nakamurella</i>	22	41	26	3	3	6	8	8	4	4	10	2	3	10	15	3	1	4
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Frankiales;f__Sporichthyaceae;g__hgI_clade</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Gaiellales;f__Gaiellaceae;g__Gaiella</i>	2	7	8	0	0	1	1	1	0	2	13	0	4	6	3	1	0	0
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Gaiellales;f__norank_o__Gaiellales;g__norank_o__Gaiellales</i>	7	4	0	1	0	0	0	0	0	0	0	0	5	1	0	0	0	0
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Micrococcales;f__Brevibacteriaceae;g__Brevibacterium</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	19
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Micrococcales;f__Dermabacteraceae;g__Brachybacterium</i>	8	1	0	0	0	0	2	0	1	0	0	6	3	5	0	0	0	0
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Micrococcales;f__Intrasporangiaceae;g__unclassified_f__Intrasporangiaceae</i>	0	0	3	1	0	0	1	2	0	0	0	0	0	0	5	0	1	0
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Micrococcales;f__Microbacteriaceae;g__Microbacterium</i>	4	2	2	3	4	1	2	3	1	1	0	1	8	0	1	3	2	6
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Micrococcales;f__Microbacteriaceae;g__Pseudoclavibacter</i>	5	7	0	0	0	0	0	1	0	0	0	0	4	0	0	1	0	0
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Micrococcales;f__Microbacteriaceae;g__unclassified_f__Microbacteriaceae</i>	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Micrococcales;f__Micrococcaeae;g__Kocuria</i>	3	5	0	0	0	1	3	5	3	8	4	3	16	5	9	4	2	2
<i>d__Bacteria;k__norank;p__Actinobacteria;c__Actinobacteria;o__Micrococcales;f__Micrococcaeae;g__Micrococcus</i>	0	1	5	0	0	0	0	0	0	5	0	8	1	3	8	0	1	5

<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonadaeae;g__Porphyromonas</i>	4	2	2	7	1	1	0	0	5	0	22	1	2	1	1	3	2	0
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Alloprevotella</i>	12	32	17	3	3	7	7	5	1	0	2	0	0	0	9	0	1	0
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotella</i>	0	0	0	0	1	0	0	0	0	2	0	4	0	0	1	3	5	4
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotella_1</i>	12	22	9	4	1	5	5	0	4	0	0	0	0	0	2	0	4	0
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotella_7</i>	0	18	13	1	3	12	1	1	2	2	13	1	5	0	12	0	1	20
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotella_9</i>	9	29	21	8	6	6	10	7	4	0	0	4	0	2	6	0	0	0
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotellaceae_NK3B31_group</i>	32	86	20	9	6	19	8	11	5	0	0	0	0	0	21	0	0	0
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotellaceae_UCG-001</i>	17	58	2	3	2	4	6	1	2	2	2	6	2	0	15	0	0	0
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotellaceae_UCG-003</i>	2	5	11	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__unclassified_f__Prevotellaceae</i>	19	11	0	3	1	1	2	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes</i>	7	37	6	2	2	2	2	4	0	2	0	0	0	0	4	3	0	1
<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Rikenellaceae_RC9_gut_group</i>	7	34	18	2	4	7	4	2	0	0	0	1	0	14	3	2	0	2

<i>d__Bacteria;k__norank;p__Bacteroidetes;c__Sp hingobacteriia;o__Sphingobacteriales;f__Sphing obacteriaceae;g__Sphingobacterium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
<i>d__Bacteria;k__norank;p__Chlamydiae;c__Chl amydiae;o__Chlamydiales;f__Simkaniaceae;g__ norank_f__Simkaniaceae</i>	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
<i>d__Bacteria;k__norank;p__Chlamydiae;c__Chl amydiae;o__Chlamydiales;f__unclassified_o__C hlamydiales;g__unclassified_o__Chlamydiales</i>	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Chlorobi;c__Chloro bia;o__Chlorobiales;f__OPB56;g__norank_f__ OPB56</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
<i>d__Bacteria;k__norank;p__Chloroflexi;c__Anae rolinae;o__Anaerolineales;f__Anaerolineaceae ;g__norank_f__Anaerolineaceae</i>	10	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	10	18
<i>d__Bacteria;k__norank;p__Chloroflexi;c__Cald ilineae;o__Caldilineales;f__Caldilineaceae;g__n orank_f__Caldilineaceae</i>	0	0	0	0	0	0	0	1	0	0	0	0	55	17	0	0	0	0
<i>d__Bacteria;k__norank;p__Chloroflexi;c__SJA- 15;o__norank_c__SJA-15;f__norank_c__SJA- 15;g__norank_c__SJA-15</i>	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
<i>d__Bacteria;k__norank;p__Chloroflexi;c__Ther momicrobia;o__AKYG1722;f__norank_o__AKY G1722;g__norank_o__AKYG1722</i>	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Chloroflexi;c__Ther momicrobia;o__JG30-KF- CM45;f__norank_o__JG30-KF- CM45;g__norank_o__JG30-KF-CM45</i>	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	2	0
<i>d__Bacteria;k__norank;p__Chloroflexi;c__Ther momicrobia;o__Sphaerobacterales;f__Sphaerob acteraceae;g__Nitrolancea</i>	0	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Cyanobacteria;c__C yanobacteria;o__norank_c__Cyanobacteria;f__ norank_c__Cyanobacteria;g__norank_c__Cyan obacteria</i>	21767	14128	11493	1603	2452	5492	4499	7888	5930	11656	6592	9486	13706	8951	####	8536	13806	7780

<i>d__Bacteria;k__norank;p__Cyanobacteria;c__Cyanobacteria;o__Obscuribacterales;f__norank_o__Obscuribacterales;g__norank_o__Obscuribacterales</i>	15	0	4	0	1	0	1	0	0	0	0	2	0	0	0	2	0	1
<i>d__Bacteria;k__norank;p__Cyanobacteria;c__Cyanobacteria;o__SubsectionI;f__FamilyI_o__SubsectionI;g__norank_f__FamilyI</i>	0	0	0	0	0	0	0	1	0	0	4	0	9	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Cyanobacteria;c__Cyanobacteria;o__SubsectionI;f__FamilyI_o__SubsectionI;g__Synechococcus</i>	0	4	0	0	0	0	0	5	0	0	0	0	8	141	0	0	0	0
<i>d__Bacteria;k__norank;p__Cyanobacteria;c__Cyanobacteria;o__SubsectionI;f__FamilyI_o__SubsectionI;g__unclassified_f__FamilyI_o__SubsectionI</i>	0	0	0	0	0	0	0	0	0	0	0	0	14	373	0	0	0	0
<i>d__Bacteria;k__norank;p__Cyanobacteria;c__Cyanobacteria;o__SubsectionII;f__FamilyII_o__SubsectionII;g__Chroococciopsis</i>	0	0	9	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Cyanobacteria;c__Cyanobacteria;o__SubsectionIII;f__FamilyI_o__SubsectionIII;g__unclassified_f__FamilyI_o__SubsectionIII</i>	0	0	0	0	0	0	0	0	0	0	0	5	2	20	0	0	0	0
<i>d__Bacteria;k__norank;p__Deinococcus-Thermus;c__Deinococci;o__Deinococcales;f__Deinococcaceae;g__Deinococcus</i>	0	4	0	1	0	0	0	0	0	0	0	3	2	8	7	8	0	0
<i>d__Bacteria;k__norank;p__Deinococcus-Thermus;c__Deinococci;o__Deinococcales;f__Truoperaceae;g__Truopera</i>	0	0	0	0	0	1	0	13	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Deinococcus-Thermus;c__Deinococci;o__Thermales;f__Thermaceae;g__Thermus</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	11	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Bacillus</i>	1380	301	398	44	32	47	63	51	52	165	193	184	120	151	269	93	55	72
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Geobacillus</i>	0	0	0	0	1	0	1	0	1	3	6	2	2	1	0	0	2	0

<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Oceanobacillus</i>	37	22	27	5	0	9	6	8	8	5	20	15	5	2	0	7	1	4
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Thalassobacillus</i>	1	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__unclassified_f__Bacillaceae</i>	0	0	0	0	0	0	0	0	1	0	0	0	5	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Virgibacillus</i>	0	5	0	0	3	0	2	0	5	0	3	7	3	0	0	5	0	10
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Family_XI_o__Bacillales;g__Gemella</i>	1	4	0	0	0	0	1	0	0	0	9	2	1	1	1	3	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Paenibacillaceae;g__Paenibacillus</i>	20	69	27	7	6	12	12	4	1	12	49	11	7	9	9	5	5	1
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Planococcaceae;g__Lysinibacillus</i>	0	1	7	0	0	0	0	0	0	0	0	0	2	4	0	0	0	4
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Planococcaceae;g__Solibacillus</i>	11	9	10	2	2	2	2	2	0	9	8	6	0	7	1	7	6	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Staphylococcaceae;g__Staphylococcus</i>	6	23	25	5	8	3	4	5	0	4	12	11	4	13	7	5	10	44
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Thermoactinomycetaceae;g__Kroppenstedtia</i>	383	631	432	79	30	39	81	70	84	118	286	175	91	218	172	89	82	51
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Bacillales;f__Thermoactinomycetaceae;g__Thermoactinomyces</i>	0	0	9	0	0	0	0	2	2	1	1	1	0	6	1	0	1	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Aerococcaceae;g__Abiotrophia</i>	0	0	0	0	0	0	0	0	0	0	11	0	3	0	0	2	0	0

<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiales_vadinBB60_group;g__norank_f__Clostridiales_vadinBB60_group</i>	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Family_XI_o__Clostridiales;g__Anaerococcus</i>	0	0	0	0	2	0	0	0	0	2	0	0	0	0	3	1	1	14
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Family_XI_o__Clostridiales;g__Ezakiella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Family_XI_o__Clostridiales;g__Finegoldia</i>	0	0	2	0	0	1	0	1	0	0	4	5	5	0	0	5	4	15
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Family_XI_o__Clostridiales;g__Gallicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Family_XI_o__Clostridiales;g__Peptoniphilus</i>	0	4	4	0	0	0	0	0	0	0	7	2	13	0	4	1	2	3
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Family_XI_o__Clostridiales;g__Sedimentibacter</i>	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Family_XIII;g__[Eubacterium]_nodatum_group</i>	0	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Family_XIII;g__Family_XIII_AD3011_group</i>	0	8	4	1	3	0	0	0	0	0	2	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Family_XIII;g__norank_f__XIII</i>	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[Eubacterium]_eligens_group</i>	1	1	3	0	0	4	1	1	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[Eubacterium]_fissicatena_group</i>	1	5	0	0	1	2	1	4	1	3	3	1	0	0	0	1	0	0

<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[Eubacterium]_hallii_group</i>	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[Ruminococcus]_gnavus_group</i>	0	2	6	1	0	2	1	0	1	0	0	0	12	0	1	3	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[Ruminococcus]_torques_group</i>	7	1	2	0	0	13	2	0	0	0	3	2	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__A_nerostipes</i>	2	6	4	0	1	2	0	5	0	0	0	0	0	0	2	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__B_lautia</i>	9	0	3	0	0	0	0	0	1	0	0	1	0	0	5	0	0	1
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Coproccoccus_1</i>	0	0	5	0	0	0	1	1	0	0	4	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Coproccoccus_3</i>	0	0	7	1	0	1	2	0	0	0	0	1	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__L_achnoanaerobaculum</i>	0	0	0	0	0	0	2	0	0	0	3	1	0	0	0	0	1	15
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__L_achnoclostridium</i>	0	0	0	0	0	2	0	0	0	2	0	0	7	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__L_achnospira</i>	6	0	2	0	0	0	0	1	0	0	7	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__L_achnospiraceae_NK4A136_group</i>	14	8	17	6	12	8	8	8	6	0	0	0	0	1	11	0	2	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__L_achnospiraceae_UCG-001</i>	1	0	0	0	0	1	1	0	2	0	0	0	0	0	5	0	0	0

<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Ruminococcaceae_UCG-010</i>	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Ruminococcaceae_UCG-011</i>	1	3	12	0	1	0	0	1	0	2	4	0	0	0	3	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Ruminococcaceae_UCG-014</i>	1	11	0	1	6	4	5	1	2	0	1	0	0	0	9	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Ruminococcus_1</i>	0	25	4	0	0	1	1	0	0	2	0	0	0	0	1	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Ruminococcus_2</i>	0	17	11	2	0	2	4	1	0	9	0	0	2	0	0	1	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Subdoligranulum</i>	6	16	11	1	0	6	2	3	0	1	0	0	0	0	3	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Erysipelotrichia;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Catenibacterium</i>	0	0	6	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Erysipelotrichia;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Erysipelatoclostridium</i>	0	0	4	2	1	3	0	3	0	0	3	0	0	0	0	4	3	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Erysipelotrichia;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Erysipelotrichaceae_UCG-002</i>	6	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	3
<i>d__Bacteria;k__norank;p__Firmicutes;c__Erysipelotrichia;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Faecalibaculum</i>	2	12	11	0	0	0	1	6	2	2	6	4	5	1	1	1	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Erysipelotrichia;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Holdemanella</i>	11	0	0	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Erysipelotrichia;o__Erysipelotrichales;f__Erysipelotrichaceae;g__norank_f__Erysipelotrichaceae</i>	1	9	8	0	4	7	4	14	0	0	0	0	4	1	0	0	6	0

<i>d__Bacteria;k__norank;p__Firmicutes;c__Limn ochordia;o__Limnochordales;f__norank_o__Li mnochordales;g__norank_o__Limnochordales</i>	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Negat ivicutes;o__Selenomonadales;f__Acidaminococc aceae;g__Phascolarctobacterium</i>	8	8	6	2	1	1	0	3	1	0	0	0	1	0	10	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Negat ivicutes;o__Selenomonadales;f__Veillonellaceae ;g__Dialister</i>	4	12	0	0	0	0	1	2	1	0	0	0	0	0	0	0	2	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Negat ivicutes;o__Selenomonadales;f__Veillonellaceae ;g__Megasphaera</i>	13	16	17	0	0	2	1	7	0	0	0	2	2	0	19	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Negat ivicutes;o__Selenomonadales;f__Veillonellaceae ;g__Schwartzia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
<i>d__Bacteria;k__norank;p__Firmicutes;c__Negat ivicutes;o__Selenomonadales;f__Veillonellaceae ;g__Selenomonas</i>	3	12	6	0	0	3	0	1	0	0	0	1	0	1	1	0	0	0
<i>d__Bacteria;k__norank;p__Firmicutes;c__Negat ivicutes;o__Selenomonadales;f__Veillonellaceae ;g__Veillonella</i>	3	0	5	0	1	1	0	0	1	12	14	3	10	1	1	2	3	9
<i>d__Bacteria;k__norank;p__Fusobacteria;c__Fu sobacteriia;o__Fusobacteriales;f__Fusobacteria ceae;g__Cetobacterium</i>	0	13	0	0	4	2	1	9	1	8	23	0	2	0	7	1	0	0
<i>d__Bacteria;k__norank;p__Fusobacteria;c__Fu sobacteriia;o__Fusobacteriales;f__Fusobacteria ceae;g__Fusobacterium</i>	2	0	19	0	0	3	1	0	3	0	21	7	7	2	0	1	2	31
<i>d__Bacteria;k__norank;p__Fusobacteria;c__Fu sobacteriia;o__Fusobacteriales;f__Fusobacteria ceae;g__Propionigenium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
<i>d__Bacteria;k__norank;p__Fusobacteria;c__Fu sobacteriia;o__Fusobacteriales;f__Leptotrichiac eae;g__Leptotrichia</i>	0	2	33	1	0	5	0	0	2	0	20	6	12	0	2	0	4	5
<i>d__Bacteria;k__norank;p__Fusobacteria;c__Fu sobacteriia;o__Fusobacteriales;f__Leptotrichiac eae;g__norank_f__Leptotrichiaceae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	0	0

<i>d__Bacteria;k__norank;p__Gemmatimonadetes;c__Gemmatimonadetes;o__Gemmatimonadales;f__Gemmatimonadaceae;g__norank_f__Gemmatimonadaceae</i>	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Gemmatimonadetes;c__Gemmatimonadetes;o__Longimicrobiales;f__Longimicrobiaceae;g__norank_f__Longimicrobiaceae</i>	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	7
<i>d__Bacteria;k__norank;p__Latescibacteria;c__norank_p__Latescibacteria;o__norank_p__Latescibacteria;f__norank_p__Latescibacteria;g__norank_p__Latescibacteria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
<i>d__Bacteria;k__norank;p__Nitrospirae;c__Nitrospira;o__norank_c__Nitrospira;f__norank_c__Nitrospira;g__Nitrospira</i>	25	24	34	9	7	10	7	3	6	13	14	17	3	4	8	11	12	8
<i>d__Bacteria;k__norank;p__Omnitrophica;c__norank_p__Omnitrophica;o__norank_p__Omnitrophica;f__norank_p__Omnitrophica;g__norank_p__Omnitrophica</i>	0	0	0	0	0	0	0	0	1	2	0	0	1	1	0	0	0	0
<i>d__Bacteria;k__norank;p__Parcubacteria;c__norank_p__Parcubacteria;o__norank_p__Parcubacteria;f__norank_p__Parcubacteria;g__norank_p__Parcubacteria</i>	0	8	5	0	0	0	2	2	0	4	0	0	0	0	0	2	0	2
<i>d__Bacteria;k__norank;p__Planctomycetes;c__BD7-11;o__norank_c__BD7-11;f__norank_c__BD7-11;g__norank_c__BD7-11</i>	11	3	14	2	2	3	0	2	1	3	2	2	7	0	1	1	3	0
<i>d__Bacteria;k__norank;p__Planctomycetes;c__Phycisphaerae;o__Phycisphaerales;f__Phycisphaerae;g__CL500-3</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0
<i>d__Bacteria;k__norank;p__Planctomycetes;c__Planctomycetacia;o__Brocadiales;f__Brocadiales;g__Candidatus_Kuenenia</i>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	17
<i>d__Bacteria;k__norank;p__Planctomycetes;c__vadinHA49;o__norank_c__vadinHA49;f__norank_c__vadinHA49;g__norank_c__vadinHA49</i>	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0

<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacteriales;f__Caulobacteraceae;g__Brevundimonas</i>	89	90	107	19	9	24	47	25	12	51	125	31	42	36	75	35	51	31
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacteriales;f__Caulobacteraceae;g__Caulobacter</i>	2	1	0	2	0	0	0	0	0	0	9	0	1	2	0	1	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacteriales;f__Caulobacteraceae;g__norank_f__Caulobacteraceae</i>	1	1	0	1	2	1	0	1	0	0	0	3	0	0	0	0	1	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacteriales;f__Hymenobacteriales;g__Hirschia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacteriales;f__Hymenobacteriales;g__Woodsholea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Bradyrhizobiaceae;g__Bosea</i>	1	0	0	1	1	2	4	0	0	5	8	0	3	3	4	2	2	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Bradyrhizobiaceae;g__Bradyrhizobium</i>	4	14	19	3	6	4	7	2	0	1	17	17	4	40	10	11	9	25
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Bradyrhizobiaceae;g__Rhodopseudomonas</i>	1	7	1	0	1	1	0	0	0	0	1	3	0	7	0	1	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Brucellaceae;g__Ochrobactrum</i>	74	35	53	12	19	21	23	17	11	21	127	49	14	7	12	21	11	11
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Hyphomicrobiales;g__Devosia</i>	9	0	9	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Hyphomicrobiales;g__Pedomicrobium</i>	1	0	0	0	1	0	1	0	0	1	3	0	0	0	7	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Methylobacteriales;g__Methylobacterium</i>	4	0	5	0	1	0	0	0	2	0	13	9	1	0	1	0	2	15

<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Methylobacteriaceae;g__Microvirga</i>	0	0	2	0	0	2	0	0	0	0	0	0	1	0	2	0	0	3
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__MNG7;g__norank_f__MNG7</i>	0	0	7	2	0	1	0	0	0	0	0	0	3	0	0	2	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Phyllobacteriaceae;g__Mesorhizobium</i>	22	3	12	4	1	7	4	1	0	9	5	3	20	5	2	5	3	13
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobacteriaceae;g__Rhizobium</i>	117	143	116	33	24	33	46	48	23	59	197	69	44	50	64	38	57	24
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobiales_Incertae_Sedis;g__Rhizomicrobium</i>	2	8	0	1	0	3	0	0	0	0	0	0	0	0	0	8	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__unclassified_o__Rhizobiales;g__unclassified_o__Rhizobiales</i>	0	5	4	3	0	0	0	0	0	0	5	11	0	1	0	0	0	1
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Xanthobacteraceae;g__Pseudolabrys</i>	0	0	0	0	4	0	0	0	0	5	11	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Xanthobacteraceae;g__unclassified_f__Xanthobacteraceae</i>	10	9	0	3	1	0	4	1	0	1	0	0	4	7	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Paracoccus</i>	7	19	10	5	0	0	0	1	1	0	6	14	10	2	9	0	0	16
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Rhodobacter</i>	0	0	8	0	0	0	0	6	0	0	0	0	4	0	0	0	1	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Rubellimicrobium</i>	8	0	2	0	0	0	1	0	2	0	5	0	0	1	0	1	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rhodobacterales;f__Rhodobacteraceae;g__Rubribacterium</i>	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0

<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rickettsiales;f__Mitochondria;g__norank_f__Mitochondria</i>	2100	1572	748	587	530	330	346	859	1008	1329	462	1852	4046	556	2757	1074	808	758
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Rickettsiales;f__TK34;g__norank_f__TK34</i>	0	11	4	2	0	1	1	0	1	0	11	0	0	0	0	1	1	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__Sandaracinobacter</i>	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	21
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__Sphingobium</i>	184	195	274	53	66	84	63	78	33	150	273	148	56	57	121	112	72	60
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__Sphingomonas</i>	72	54	94	15	19	15	25	25	11	31	95	31	27	37	14	12	23	35
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__unclassified_f__Sphingomonadaceae</i>	2	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Alcaligenaceae;g__Achromobacter</i>	11	25	32	4	7	4	4	3	7	6	32	34	7	8	16	23	15	14
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Burkholderia-Paraburkholderia</i>	1046	1303	1680	318	362	398	519	477	182	688	1406	589	408	478	435	373	432	310
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Ralstonia</i>	3552	3833	5169	1007	560	820	1240	977	688	876	1681	1950	1444	2001	1752	1325	803	629
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Comamonadaceae;g__Acidovorax</i>	471	600	629	132	138	166	257	243	102	311	738	279	159	138	189	191	160	184
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Comamonadaceae;g__Aquabacterium</i>	9	4	17	1	3	2	1	2	1	1	19	9	2	4	1	13	2	0

<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Burkholderiales;f__Coma monadaceae;g__Delftia</i>	14	35	33	8	3	12	12	7	4	20	46	12	15	5	2	9	12	12
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Burkholderiales;f__Coma monadaceae;g__Limnohabitans</i>	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Burkholderiales;f__Coma monadaceae;g__Pelomonas</i>	15	14	24	4	7	7	4	0	3	8	9	12	6	4	12	1	3	1
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Burkholderiales;f__Coma monadaceae;g__unclassified_f__Comamonadac eae</i>	7	0	4	0	1	1	0	3	1	0	6	0	1	0	0	0	1	1
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Burkholderiales;f__Oxalo bacteraceae;g__Massilia</i>	10	1	0	0	0	0	1	1	0	0	3	3	2	3	3	2	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Burkholderiales;f__Oxalo bacteraceae;g__unclassified_f__Oxalobacterace ae</i>	2262	2981	3483	648	840	850	1208	1163	425	1652	3749	1270	855	726	880	984	929	906
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Burkholderiales;f__Oxalo bacteraceae;g__Undibacterium</i>	0	2	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Hydrogenophilales;f__Hy drogenophilaceae;g__Hydrogenophilus</i>	0	0	0	0	0	0	0	0	0	0	13	0	0	0	2	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Neisseriales;f__Neisseriac eae;g__Eikenella</i>	0	0	0	0	0	0	0	1	0	1	12	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Neisseriales;f__Neisseriac eae;g__Neisseria</i>	7	2	6	5	9	1	15	0	14	2	91	10	12	12	5	5	25	9
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Neisseriales;f__Neisseriac eae;g__norank_f__Neisseriaceae</i>	6	0	2	0	0	0	1	0	0	0	0	0	0	6	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__B etaproteobacteria;o__Neisseriales;f__Neisseriac eae;g__unclassified_f__Neisseriaceae</i>	0	0	0	0	2	0	0	2	0	0	0	0	12	17	0	0	0	0

<i>d__Bacteria;k__norank;p__Proteobacteria;c__Deltaproteobacteria;o__Myxococcales;f__Haliangiaceae;g__Haliangium</i>	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Deltaproteobacteria;o__Myxococcales;f__mle1-27;g__norank_f__mle1-27</i>	1	10	1	1	0	3	0	0	0	0	0	3	4	2	7	0	1	8	
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Deltaproteobacteria;o__Myxococcales;f__Polyangiaceae;g__Sorangium</i>	0	0	3	0	0	0	1	1	0	0	6	3	0	2	0	0	0	0	
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Deltaproteobacteria;o__Oligoflexales;f__0319-6G20;g__norank_f__0319-6G20</i>	12	2	12	3	3	2	2	2	0	2	13	1	2	14	4	7	4	5	
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Deltaproteobacteria;o__Oligoflexales;f__Oligoflexaceae;g__norank_f__Oligoflexaceae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Deltaproteobacteria;o__unclassified_c__Deltaproteobacteria;f__unclassified_c__Deltaproteobacteria;g__unclassified_c__Deltaproteobacteria</i>	5	1	4	1	0	5	0	1	0	1	0	6	2	0	2	0	1	7	
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Campylobacteraceae;g__Campylobacter</i>	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Helicobacteraceae;g__Helicobacter</i>	3	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Helicobacteraceae;g__Sulfuricurvum</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	11
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Helicobacteraceae;g__Sulfurimonas</i>	0	1	0	0	0	0	0	0	0	0	1	0	2	1	2	0	2	0	
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Aeromonadales;f__Aeromonadaceae;g__Aeromonas</i>	3	0	0	0	0	0	2	1	4	0	0	0	2	12	0	11	0	0	

<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Aeromonadales;f__Succinivibrionaceae;g__Anaerobiospirillum</i>	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Aeromonadales;f__Succinivibrionaceae;g__Succinivibrio</i>	1	5	3	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Alteromonadales;f__Alteromonadaceae;g__Marinobacter</i>	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Alteromonadales;f__Shewanellaceae;g__Shewanella</i>	0	0	0	0	0	0	1	4	1	0	0	0	13	89	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Cellvibrionales;f__Cellvibrionaceae;g__Simiduia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Escherichia-Shigella</i>	94	141	223	20	33	41	143	126	128	75	153	127	243	180	174	85	103	175
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Morganella</i>	9	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Pantoea</i>	139	188	226	43	54	45	81	78	51	106	230	122	79	79	117	155	90	67
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Legionellales;f__Legionellaceae;g__Legionella</i>	3	2	4	0	0	0	1	0	0	0	6	4	0	0	1	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Pasteurellales;f__Pasteurellaceae;g__Aggregatibacter</i>	0	1	0	0	0	3	0	2	0	0	18	0	0	0	0	0	0	5
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Pasteurellales;f__Pasteurellaceae;g__Haemophilus</i>	0	8	4	3	0	3	1	1	5	1	14	3	0	2	2	2	2	14
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Moraxellaceae;g__Acinetobacter</i>	925	1322	1773	197	486	549	524	1073	256	923	933	551	611	337	432	248	529	543

<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Moraxellaceae;g__Enhydrobacter</i>	3	3	6	0	1	1	2	0	0	3	3	3	6	2	0	2	1	10
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Moraxellaceae;g__Moraxella</i>	0	0	5	0	0	1	0	0	2	0	8	0	1	0	0	0	1	2
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Moraxellaceae;g__Perlucidibaca</i>	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Pseudomonadaceae;g__Pseudomonas</i>	463	682	833	167	153	149	255	225	117	295	786	385	206	200	190	160	282	100
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Run-SP154;f__norank_o__Run-SP154;g__norank_o__Run-SP154</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__unclassified_c__Gammaproteobacteria;f__unclassified_c__Gammaproteobacteria;g__unclassified_c__Gammaproteobacteria</i>	3	3	12	1	1	0	2	0	2	0	6	0	24	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Vibrionales;f__Vibrionaceae;g__Photobacterium</i>	0	0	0	0	6	0	0	3	0	0	0	0	5	3541	0	0	18	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Vibrionales;f__Vibrionaceae;g__Vibrio</i>	7	0	0	0	4	0	0	4	0	0	0	0	16	2689	1	0	12	10
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__JTB255_marine_benthic_group;g__norank_f__JTB255_marine_benthic_group</i>	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__norank_o__Xanthomonadales;g__norank_o__Xanthomonadales</i>	0	4	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0

<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Dokdonella</i>	6	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Dyella</i>	5	6	7	0	1	1	5	1	1	3	2	3	0	0	3	1	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Ignatzschineria</i>	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__norank_f__Xanthomonadaceae</i>	5	1	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Stenotrophomonas</i>	144	141	233	31	40	65	65	45	35	69	167	58	49	66	73	56	30	47
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Tahibacter</i>	0	0	0	0	0	0	0	1	1	0	0	0	3	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Thermomonas</i>	22	31	27	1	9	7	4	4	3	17	27	8	8	3	7	2	2	12
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__unclassified_f__Xanthomonadaceae</i>	0	13	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Proteobacteria;c__Proteobacteria_Incertae_Sedis;o__Unknown_c__Proteobacteria_Incertae_Sedis;f__Unknown_o__Unknown_c__Proteobacteria_Incertae_Sedis;g__Candidatus_Thiobios</i>	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0
<i>d__Bacteria;k__norank;p__Saccharibacteria;c__norank_p__Saccharibacteria;o__norank_p__Saccharibacteria;f__norank_p__Saccharibacteria;g__norank_p__Saccharibacteria</i>	1	0	2	1	0	1	2	2	0	3	0	0	1	19	1	0	0	29

<i>d__Bacteria;k__norank;p__unclassified_k__norank;c__unclassified_k__norank;o__unclassified_k__norank;f__unclassified_k__norank;g__unclassified_k__norank</i>	12	10	17	12	14	24	6	7	20	1	8	1	3	3	4	1	4	38
<i>d__Bacteria;k__norank;p__Verrucomicrobia;c__Spartobacteria;o__Chthoniobacterales;f__LD29;g__norank_f__LD29</i>	0	0	0	0	0	0	0	0	0	0	0	0	3	108	0	0	0	0
<i>d__Bacteria;k__norank;p__Verrucomicrobia;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Verrucomicrobiaceae;g__Akkermansia</i>	1	2	3	0	0	5	0	1	1	0	0	0	6	0	2	0	0	0
<i>d__Bacteria;k__norank;p__WS6;c__norank_p__WS6;o__norank_p__WS6;f__norank_p__WS6;g__norank_p__WS6</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	8	0
<i>d__Bacteria;k__norank;p__WWE3;c__norank_p__WWE3;o__norank_p__WWE3;f__norank_p__WWE3;g__norank_p__WWE3</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0

Table S4. Correlation between HA and microorganisms on genus level.

HA	Microorganisms	P value	P adjust	correlation
1-Dodecanol	<i>Anaerotruncus</i>	0.050	0.566	(0.812)
	<i>Candidatus_Thiobios</i>	0.044	0.520	0.824
	<i>CL500-29_marine_group</i>	0.044	0.520	0.824
	<i>CL500-3</i>	0.044	0.520	0.824
	<i>Clostridium_sensu_stricto_13</i>	0.030	0.453	0.854
	<i>Deinococcus</i>	0.019	0.340	0.884
	<i>Ezakiella</i>	0.044	0.520	0.824
	<i>Fastidiosipila</i>	0.044	0.520	0.824
	<i>Flectobacillus</i>	0.044	0.520	0.824
	<i>Gallicola</i>	0.044	0.520	0.824
	<i>hgcI_clade</i>	0.044	0.520	0.824
	<i>Hirschia</i>	0.044	0.520	0.824
	<i>Ilumatobacter</i>	0.022	0.377	0.875
	<i>Kocuria</i>	0.034	0.474	0.846
	<i>Lachnoclostridium</i>	0.037	0.490	0.838
	<i>Neorickettsia</i>	0.044	0.520	0.824
	<i>norank_c_vadinHA49</i>	0.044	0.520	0.824
	<i>norank_f_Caldilineaceae</i>	0.045	0.532	0.821
	<i>norank_f_FamilyI</i>	0.020	0.341	0.884
	<i>norank_f_LD29</i>	0.044	0.520	0.824
	<i>norank_f_Leptotrichiaceae</i>	0.044	0.520	0.824
	<i>norank_f_Mycoplasmataceae</i>	0.044	0.520	0.824
	<i>norank_f_Oligoflexaceae</i>	0.044	0.520	0.824
	<i>norank_f_OPB56</i>	0.044	0.520	0.824

	<i>norank_p_Latescibacteria</i>	0.044	0.520	0.824
	<i>norank_p_WWE3</i>	0.044	0.520	0.824
	<i>Pediococcus</i>	0.023	0.386	0.873
	<i>Pedomicrobium</i>	0.039	0.509	0.834
	<i>Peptoniphilus</i>	0.037	0.490	0.838
	<i>Photobacterium</i>	0.043	0.520	0.825
	<i>Propionigenium</i>	0.044	0.520	0.824
	<i>Rubribacterium</i>	0.044	0.520	0.824
	<i>Ruminiclostridium_I</i>	0.044	0.520	0.824
	<i>Sediminibacterium</i>	0.044	0.520	0.824
	<i>Sphaerochaeta</i>	0.044	0.520	0.824
	<i>Spongiimonas</i>	0.044	0.520	0.824
	<i>Sulfurimonas</i>	0.013	0.261	0.905
	<i>Sva0081_sediment_group</i>	0.044	0.520	0.824
	<i>unclassified_f_FamilyI_o_SubsectionI</i>	0.044	0.520	0.824
	<i>unclassified_f_FamilyI_o_SubsectionIII</i>	0.018	0.322	0.889
	<i>unclassified_f_Flavobacteriaceae</i>	0.044	0.520	0.824
	<i>Vibrio</i>	0.043	0.520	0.825
1-Heptadecanol	<i>[Eubacterium]_nodatum_group</i>	0.006	0.152	0.937
	<i>Bradyrhizobium</i>	0.017	0.306	(0.893)
	<i>Cellulosimicrobium</i>	0.010	0.212	(0.919)
	<i>Cloacibacterium</i>	0.010	0.218	(0.916)
	<i>Enhydrobacter</i>	0.013	0.260	(0.905)
	<i>Micrococcus</i>	0.038	0.493	(0.837)
	<i>norank_c_Cyanobacteria</i>	0.028	0.438	(0.859)
	<i>norank_f_0319-6G20</i>	0.042	0.520	(0.828)

	<i>Rhodococcus</i>	0.020	0.344	(0.883)
1-Hexacosanol	<i>[Eubacterium]_hallii_group</i>	0.004	0.113	0.948
	<i>Abiotrophia</i>	0.000	0.000	0.999
	<i>Acidisoma</i>	0.019	0.333	0.886
	<i>Aggregatibacter</i>	0.012	0.250	0.908
	<i>Bosea</i>	0.015	0.283	0.899
	<i>Capnocytophaga</i>	0.009	0.203	0.922
	<i>Caulobacter</i>	0.010	0.221	0.916
	<i>Eikenella</i>	0.006	0.155	0.936
	<i>Gemella</i>	0.024	0.394	0.871
	<i>Geobacillus</i>	0.000	0.025	0.982
	<i>Hydrogenophilus</i>	0.001	0.031	0.977
	<i>Ignatzschineria</i>	0.004	0.113	0.948
	<i>Neisseria</i>	0.002	0.068	0.963
	<i>norank_f_Erysipelotrichaceae</i>	0.040	0.511	(0.833)
	<i>norank_f_I-10</i>	0.011	0.234	0.912
	<i>Porphyromonas</i>	0.030	0.453	0.854
	<i>Pseudolabrys</i>	0.015	0.288	0.898
	<i>Pseudonocardia</i>	0.004	0.113	0.948
	<i>Sorangium</i>	0.027	0.431	0.862
	<i>unclassified_f_Rikenellaceae</i>	0.003	0.088	0.956
	<i>Undibacterium</i>	0.026	0.412	0.866
	<i>Veillonella</i>	0.006	0.150	0.937
1-Hexadecanol	<i>Candidatus_Bacilloplasma</i>	0.041	0.520	0.829
	<i>Candidatus_Thiobios</i>	0.035	0.474	0.843
	<i>CL500-29_marine_group</i>	0.035	0.474	0.843

<i>CL500-3</i>	0.035	0.474	0.843
<i>Deinococcus</i>	0.032	0.472	0.849
<i>Ezakiella</i>	0.035	0.474	0.843
<i>Fastidiosipila</i>	0.035	0.474	0.843
<i>Flectobacillus</i>	0.035	0.474	0.843
<i>Gallicola</i>	0.035	0.474	0.843
<i>hgcI_clade</i>	0.035	0.474	0.843
<i>Hirschia</i>	0.035	0.474	0.843
<i>Ilumatobacter</i>	0.029	0.444	0.858
<i>Kocuria</i>	0.009	0.209	0.920
<i>Lachnoclostridium</i>	0.031	0.461	0.852
<i>Neorickettsia</i>	0.035	0.474	0.843
<i>norank_c_vadinHA49</i>	0.035	0.474	0.843
<i>norank_f_Caldilineaceae</i>	0.036	0.478	0.841
<i>norank_f_FamilyI</i>	0.005	0.128	0.944
<i>norank_f_LD29</i>	0.035	0.474	0.843
<i>norank_f_Leptotrichiaceae</i>	0.035	0.474	0.843
<i>norank_f_Mycoplasmataceae</i>	0.035	0.474	0.843
<i>norank_f_Oligoflexaceae</i>	0.035	0.474	0.843
<i>norank_f_OPB56</i>	0.035	0.474	0.843
<i>norank_o_PeM15</i>	0.043	0.520	0.825
<i>norank_p_Latescibacteria</i>	0.035	0.474	0.843
<i>norank_p_WWE3</i>	0.035	0.474	0.843
<i>Pediococcus</i>	0.014	0.273	0.901
<i>Pedomicrobium</i>	0.014	0.276	0.901
<i>Peptoniphilus</i>	0.029	0.440	0.859

	<i>Photobacterium</i>	0.035	0.474	0.843
	<i>Propionigenium</i>	0.035	0.474	0.843
	<i>Rubribacterium</i>	0.035	0.474	0.843
	<i>Ruminiclostridium_I</i>	0.035	0.474	0.843
	<i>Sediminibacterium</i>	0.035	0.474	0.843
	<i>Shewanella</i>	0.039	0.509	0.833
	<i>Spongiimonas</i>	0.035	0.474	0.843
	<i>Sulfurimonas</i>	0.018	0.329	0.887
	<i>Sva0081_sediment_group</i>	0.035	0.474	0.843
	<i>Synechococcus</i>	0.040	0.517	0.831
	<i>Thermus</i>	0.042	0.520	0.827
	<i>unclassified_f_FamilyI_o_SubsectionI</i>	0.035	0.474	0.843
	<i>unclassified_f_FamilyI_o_SubsectionIII</i>	0.009	0.203	0.922
	<i>unclassified_f_Flavobacteriaceae</i>	0.035	0.474	0.843
	<i>unclassified_f_Neisseriaceae</i>	0.048	0.557	0.815
	<i>unclassified_k_norank</i>	0.041	0.518	(0.830)
	<i>Vibrio</i>	0.035	0.474	0.843
1-Triacontanol	<i>[Eubacterium]_hallii_group</i>	0.005	0.131	0.942
	<i>Abiotrophia</i>	0.000	0.007	0.992
	<i>Acidisoma</i>	0.019	0.339	0.884
	<i>Aggregatibacter</i>	0.023	0.378	0.874
	<i>Bosea</i>	0.010	0.214	0.918
	<i>Capnocytophaga</i>	0.011	0.227	0.914
	<i>Caulobacter</i>	0.007	0.176	0.930
	<i>Cetobacterium</i>	0.035	0.474	0.842
	<i>Eikenella</i>	0.007	0.175	0.931

	<i>Gemella</i>	0.023	0.387	0.873
	<i>Geobacillus</i>	0.001	0.032	0.977
	<i>Hydrogenophilus</i>	0.001	0.025	0.981
	<i>Ignatzschineria</i>	0.005	0.131	0.942
	<i>Neisseria</i>	0.005	0.133	0.942
	<i>norank_f_I-10</i>	0.025	0.404	0.868
	<i>Porphyromonas</i>	0.033	0.474	0.847
	<i>Pseudolabrys</i>	0.018	0.322	0.888
	<i>Pseudonocardia</i>	0.005	0.131	0.942
	<i>Sorangium</i>	0.019	0.331	0.886
	<i>unclassified_f_Rikenellaceae</i>	0.001	0.025	0.981
	<i>Undibacterium</i>	0.024	0.397	0.870
	<i>Veillonella</i>	0.010	0.217	0.917
	<i>Vibrionimonas</i>	0.043	0.520	0.826
1-Undecanol	<i>norank_o_JG30-KF-CM45</i>	0.001	0.036	0.975
	<i>Truepera</i>	0.000	0.001	0.997
2-(2-butoxyethoxy)-Ethanol	<i>[Eubacterium]_eligens_group</i>	0.042	0.520	(0.827)
	<i>Anaerococcus</i>	0.029	0.444	0.858
	<i>Anaerotruncus</i>	0.029	0.448	(0.857)
	<i>Filifactor</i>	0.035	0.474	0.843
	<i>Finegoldia</i>	0.019	0.338	0.885
	<i>Lachnospiraceae_NK4A136_group</i>	0.049	0.562	(0.813)
	<i>norank_p_Saccharibacteria</i>	0.009	0.209	0.920
	<i>norank_p_WS6</i>	0.028	0.433	0.861
	<i>Prevotella</i>	0.045	0.525	0.822
2-ethyl-1-Hexanol	<i>[Eubacterium]_nodatum_group</i>	0.047	0.540	0.818

	<i>Achromobacter</i>	0.042	0.520	(0.827)
	<i>Bradyrhizobium</i>	0.008	0.188	(0.926)
	<i>Cellulosimicrobium</i>	0.026	0.420	(0.865)
	<i>Cloacibacterium</i>	0.004	0.118	(0.947)
	<i>Enhydrobacter</i>	0.009	0.209	(0.920)
	<i>Micrococcus</i>	0.032	0.463	(0.851)
	<i>norank_c_Cyanobacteria</i>	0.045	0.532	(0.821)
	<i>norank_f_0319-6G20</i>	0.020	0.344	(0.882)
	<i>Paracoccus</i>	0.040	0.510	(0.833)
	<i>Rhodococcus</i>	0.017	0.310	(0.892)
2-ethyl-2-methyl-Tridecanol	<i>Anaerotruncus</i>	0.034	0.474	(0.847)
	<i>Bradyrhizobium</i>	0.037	0.493	0.837
	<i>Cloacibacterium</i>	0.046	0.534	0.820
	<i>Clostridium_sensu_stricto_13</i>	0.007	0.175	0.931
	<i>Deinococcus</i>	0.010	0.218	0.917
	<i>Granulicatella</i>	0.027	0.425	0.863
	<i>Ilumatobacter</i>	0.022	0.365	0.878
	<i>norank_p_Saccharibacteria</i>	0.047	0.546	0.817
	<i>norank_p_WS6</i>	0.012	0.237	0.911
	<i>Sulfurimonas</i>	0.009	0.209	0.920
2-Furanmethanol	<i>[Eubacterium]_coprostanoligenes_group</i>	0.001	0.048	0.970
	<i>Acinetobacter</i>	0.013	0.257	0.906
	<i>Alistipes</i>	0.000	0.000	0.998
	<i>Alloprevotella</i>	0.001	0.028	0.978
	<i>Anaerobiospirillum</i>	0.000	0.000	0.999
	<i>Anaerostipes</i>	0.010	0.218	0.916

<i>Aspergillus</i>	0.000	0.005	0.993
<i>Bacillus</i>	0.002	0.071	0.962
<i>Blautia</i>	0.010	0.217	0.917
<i>Burkholderia-Paraburkholderia</i>	0.030	0.453	0.855
<i>Candidatus_Saccharimonas</i>	0.000	0.000	0.999
<i>Catenibacterium</i>	0.000	0.021	0.984
<i>Christensenellaceae_R-7_group</i>	0.007	0.176	0.929
<i>Chroococciopsis</i>	0.016	0.294	0.896
<i>Clostridium_sensu_stricto_15</i>	0.001	0.037	0.975
<i>Coprococcus_3</i>	0.004	0.113	0.949
<i>Desulfovibrio</i>	0.000	0.007	0.991
<i>Devosia</i>	0.000	0.000	0.999
<i>Dialister</i>	0.002	0.056	0.967
<i>Dokdonella</i>	0.025	0.407	0.867
<i>Dyella</i>	0.016	0.300	0.894
<i>Enorma</i>	0.000	0.000	0.999
<i>Enterococcus</i>	0.000	0.010	0.990
<i>Erysipelotrichaceae_UCG-002</i>	0.027	0.423	0.864
<i>Faecalibacterium</i>	0.000	0.016	0.986
<i>Faecalibaculum</i>	0.031	0.453	0.854
<i>Family_XIII_AD3011_group</i>	0.004	0.118	0.947
<i>Haliangium</i>	0.000	0.000	0.999
<i>Helicobacter</i>	0.003	0.080	0.958
<i>Holdemanella</i>	0.002	0.053	0.968
<i>Inquilinus</i>	0.000	0.000	0.999
<i>Kroppenstedtia</i>	0.007	0.176	0.930

<i>Lachnospiraceae_UCG-010</i>	0.000	0.000	0.999
<i>Lactococcus</i>	0.041	0.518	(0.831)
<i>Lawsonella</i>	0.001	0.048	0.970
<i>Limnohabitans</i>	0.000	0.000	0.999
<i>Marinobacter</i>	0.000	0.000	0.999
<i>Marvinbryantia</i>	0.015	0.286	0.898
<i>Megasphaera</i>	0.015	0.286	0.898
<i>Microlunatus</i>	0.012	0.242	0.910
<i>Mycobacterium</i>	0.012	0.248	0.909
<i>Nakamurella</i>	0.001	0.045	0.972
<i>Nitrolancea</i>	0.001	0.048	0.970
<i>Nitrospira</i>	0.014	0.267	0.903
<i>norank_c_Acidobacteria</i>	0.003	0.093	0.955
<i>norank_c_Bacteroidetes_BD2-2</i>	0.000	0.000	0.999
<i>norank_c_Bacteroidetes_VC2.1_Bac22</i>	0.000	0.000	0.999
<i>norank_c_BD7-11</i>	0.001	0.033	0.977
<i>norank_f_Acidimicrobiaceae</i>	0.000	0.000	0.999
<i>norank_f_Acidobacteriaceae_Subgroup_1</i>	0.000	0.000	0.999
<i>norank_f_Actinopolysporaceae</i>	0.026	0.415	0.866
<i>norank_f_B79</i>	0.003	0.100	0.952
<i>norank_f_Bacteroidales_BS11_gut_group</i>	0.008	0.179	0.928
<i>norank_f_Bacteroidales_S24-7_group</i>	0.002	0.065	0.964
<i>norank_f_Bacteroidales_UCG-001</i>	0.024	0.392	0.871
<i>norank_f_Chitinophagaceae</i>	0.000	0.004	0.994
<i>norank_f_Clostridiales_vadinBB60_group</i>	0.000	0.000	0.999
<i>norank_f_Gemmatimonadaceae</i>	0.000	0.000	0.999

<i>norank_f_JTB255_marine_benthic_group</i>	0.000	0.000	0.999
<i>norank_f_Lachnospiraceae</i>	0.017	0.317	0.890
<i>norank_f_MNG7</i>	0.030	0.453	0.854
<i>norank_f_MSB-1E8</i>	0.038	0.495	0.837
<i>norank_f_Nitrosomonadaceae</i>	0.001	0.025	0.982
<i>norank_f_Rhodospirillaceae</i>	0.001	0.028	0.979
<i>norank_f_Xanthomonadaceae</i>	0.000	0.003	0.996
<i>norank_f_XIII</i>	0.000	0.000	0.999
<i>norank_o_AKYG1722</i>	0.000	0.000	0.999
<i>norank_o_Gaiellales</i>	0.030	0.453	0.854
<i>norank_o_Limnochordales</i>	0.000	0.000	0.999
<i>norank_o_Obscuribacterales</i>	0.000	0.013	0.988
<i>norank_o_Subgroup_7</i>	0.000	0.000	0.999
<i>norank_o_TRA3-20</i>	0.011	0.226	0.914
<i>norank_o_Xanthomonadales</i>	0.001	0.025	0.980
<i>norank_p_Parcubacteria</i>	0.013	0.260	0.905
<i>norank_p_TM6_Dependentiae</i>	0.000	0.000	0.999
<i>Oceanobacillus</i>	0.010	0.212	0.919
<i>Odoribacter</i>	0.012	0.248	0.908
<i>Oribacterium</i>	0.003	0.080	0.958
<i>Oscillibacter</i>	0.006	0.151	0.937
<i>Paenibacillus</i>	0.034	0.474	0.846
<i>Papillibacter</i>	0.000	0.000	0.999
<i>Parabacteroides</i>	0.000	0.005	0.993
<i>Pelomonas</i>	0.031	0.459	0.852
<i>Perlucidibaca</i>	0.000	0.000	0.999

<i>Phascolarctobacterium</i>	0.021	0.356	0.880
<i>Prevotella_1</i>	0.001	0.032	0.977
<i>Prevotella_9</i>	0.007	0.175	0.930
<i>Prevotellaceae_NK3B31_group</i>	0.001	0.045	0.972
<i>Prevotellaceae_UCG-001</i>	0.001	0.025	0.981
<i>Prevotellaceae_UCG-003</i>	0.000	0.002	0.997
<i>Pseudoclavibacter</i>	0.005	0.129	0.943
<i>Pyramidobacter</i>	0.000	0.000	0.999
<i>Ralstonia</i>	0.004	0.106	0.951
<i>Rikenellaceae_RC9_gut_group</i>	0.002	0.065	0.964
<i>Rubellimicrobium</i>	0.024	0.395	0.870
<i>Ruminococcaceae_UCG-002</i>	0.010	0.214	0.918
<i>Ruminococcaceae_UCG-007</i>	0.000	0.000	0.999
<i>Ruminococcaceae_UCG-010</i>	0.000	0.000	0.999
<i>Ruminococcaceae_UCG-011</i>	0.007	0.176	0.929
<i>Ruminococcus_1</i>	0.000	0.001	0.998
<i>Ruminococcus_2</i>	0.002	0.072	0.961
<i>Saccharomyces</i>	0.014	0.278	(0.900)
<i>Saccharopolyspora</i>	0.002	0.068	0.963
<i>Sedimentibacter</i>	0.000	0.000	0.999
<i>Selenomonas</i>	0.000	0.004	0.994
<i>Sphingomonas</i>	0.049	0.561	0.814
<i>Stenotrophomonas</i>	0.012	0.248	0.908
<i>Streptococcus</i>	0.016	0.300	0.894
<i>Streptomyces</i>	0.029	0.444	0.858
<i>Subdoligranulum</i>	0.000	0.020	0.984

	<i>Succinivibrio</i>	0.001	0.025	0.981
	<i>Thalassobacillus</i>	0.000	0.000	0.999
	<i>Thermomonas</i>	0.038	0.495	0.837
	<i>Treponema_2</i>	0.022	0.377	0.875
	<i>Tyzzerella_3</i>	0.000	0.000	0.999
	<i>unclassified_f_Comamonadaceae</i>	0.023	0.378	0.875
	<i>unclassified_f_Coriobacteriaceae</i>	0.000	0.000	0.999
	<i>unclassified_f_Microbacteriaceae</i>	0.000	0.000	0.999
	<i>unclassified_f_Nocardioideaceae</i>	0.000	0.000	0.999
	<i>unclassified_f_Prevotellaceae</i>	0.000	0.007	0.991
	<i>unclassified_f_Xanthobacteraceae</i>	0.035	0.474	0.842
	<i>unclassified_f_Xanthomonadaceae</i>	0.000	0.008	0.991
	<i>unclassified_o_Chlamydiales</i>	0.000	0.000	0.999
	<i>unclassified_o_Solirubrobacterales</i>	0.000	0.000	0.999
2-Isopropyl-5-methyl-1-heptanol	<i>Bradyrhizobium</i>	0.025	0.401	(0.869)
	<i>Cloacibacterium</i>	0.020	0.341	(0.883)
	<i>Enhydrobacter</i>	0.037	0.492	(0.838)
	<i>norank_f_0319-6G20</i>	0.028	0.433	(0.861)
	<i>norank_o_JG30-KF-CM45</i>	0.032	0.463	0.851
	<i>Truepera</i>	0.007	0.177	0.929
2-methyl-1-Propanol	<i>Acidothermus</i>	0.000	0.000	1.000
	<i>Anaerococcus</i>	0.000	0.020	0.984
	<i>Bdellovibrio</i>	0.000	0.000	1.000
	<i>Brevibacterium</i>	0.000	0.000	0.999
	<i>Candidatus_Kuenenia</i>	0.000	0.004	0.994
	<i>Filifactor</i>	0.023	0.378	0.875

<i>Finegoldia</i>	0.005	0.127	0.944
<i>Lachnoanaerobaculum</i>	0.002	0.056	0.967
<i>Lactobacillus</i>	0.018	0.318	(0.890)
<i>norank_c_SJA-15</i>	0.003	0.093	0.955
<i>norank_f_Anaerolineaceae</i>	0.006	0.160	0.935
<i>norank_f_BIrii41</i>	0.000	0.002	0.996
<i>norank_f_Holosporaceae</i>	0.029	0.440	0.859
<i>norank_f_NS9_marine_group</i>	0.000	0.000	1.000
<i>norank_o_Acidimicrobiales</i>	0.000	0.003	0.996
<i>norank_o_Run-SP154</i>	0.000	0.000	1.000
<i>norank_o_SC-I-84</i>	0.000	0.000	1.000
<i>OM27_clade</i>	0.000	0.020	0.984
<i>Paludibaculum</i>	0.030	0.448	0.856
<i>Podosphaera</i>	0.005	0.142	0.939
<i>Prevotella</i>	0.018	0.322	0.889
<i>Propioniciclava</i>	0.000	0.000	1.000
<i>Rothia</i>	0.001	0.025	0.980
<i>Sandaracinobacter</i>	0.000	0.004	0.994
<i>Scardovia</i>	0.000	0.000	1.000
<i>Schwartzia</i>	0.000	0.000	1.000
<i>Simiduia</i>	0.000	0.000	1.000
<i>Sphingobacterium</i>	0.000	0.000	1.000
<i>Sulfuricurvum</i>	0.000	0.004	0.995
<i>Sulfuritalea</i>	0.005	0.131	0.943
<i>Thauera</i>	0.046	0.539	0.819
<i>Virgibacillus</i>	0.045	0.527	0.822

	<i>Woodsholea</i>	0.000	0.000	1.000
2-O-decyl-Threitol	<i>[Eubacterium]_coprostanoligenes_group</i>	0.006	0.144	0.939
	<i>Acinetobacter</i>	0.019	0.337	0.885
	<i>Alistipes</i>	0.002	0.058	0.966
	<i>Alloprevotella</i>	0.009	0.203	0.922
	<i>Anaerobiospirillum</i>	0.001	0.025	0.980
	<i>Anaerostipes</i>	0.040	0.512	0.832
	<i>Aspergillus</i>	0.001	0.030	0.978
	<i>Bacillus</i>	0.000	0.025	0.982
	<i>Blautia</i>	0.002	0.073	0.961
	<i>Brevundimonas</i>	0.035	0.474	0.842
	<i>Burkholderia-Paraburkholderia</i>	0.028	0.434	0.860
	<i>Candidatus_Saccharimonas</i>	0.001	0.025	0.980
	<i>Catenibacterium</i>	0.010	0.212	0.919
	<i>Christensenellaceae_R-7_group</i>	0.007	0.176	0.929
	<i>Chroococciopsis</i>	0.018	0.318	0.889
	<i>Clostridium_sensu_stricto_15</i>	0.010	0.218	0.916
	<i>Coprococcus_3</i>	0.031	0.459	0.852
	<i>Desulfovibrio</i>	0.004	0.118	0.947
	<i>Devosia</i>	0.001	0.046	0.971
	<i>Dialister</i>	0.006	0.164	0.933
	<i>Dokdonella</i>	0.009	0.203	0.922
	<i>Dyella</i>	0.031	0.453	0.854
	<i>Enorma</i>	0.001	0.025	0.980
	<i>Enterococcus</i>	0.004	0.112	0.949
	<i>Erysipelotrichaceae_UCG-002</i>	0.042	0.520	0.827

<i>Faecalibacterium</i>	0.004	0.118	0.947
<i>Faecalibaculum</i>	0.031	0.453	0.854
<i>Family_XIII_AD3011_group</i>	0.021	0.359	0.879
<i>Haliangium</i>	0.001	0.025	0.980
<i>Helicobacter</i>	0.024	0.394	0.871
<i>Holdemanella</i>	0.013	0.264	0.904
<i>Inquilinus</i>	0.001	0.025	0.980
<i>Kroppenstedtia</i>	0.003	0.085	0.957
<i>Lachnospiraceae_UCG-010</i>	0.001	0.025	0.980
<i>Lactococcus</i>	0.007	0.176	(0.929)
<i>Lawsonella</i>	0.000	0.016	0.986
<i>Limnohabitans</i>	0.001	0.025	0.980
<i>Marinobacter</i>	0.001	0.025	0.980
<i>Marvinbryantia</i>	0.008	0.191	0.925
<i>Megasphaera</i>	0.009	0.210	0.919
<i>Mesorhizobium</i>	0.031	0.461	0.852
<i>Microtholunatus</i>	0.008	0.190	0.925
<i>Mycobacterium</i>	0.002	0.070	0.962
<i>Nakamurella</i>	0.002	0.059	0.966
<i>Nitrolancea</i>	0.008	0.196	0.924
<i>Nitrospira</i>	0.016	0.300	0.894
<i>norank_c_Acidobacteria</i>	0.005	0.131	0.943
<i>norank_c_Bacteroidetes_BD2-2</i>	0.001	0.025	0.980
<i>norank_c_Bacteroidetes_VC2.1_Bac22</i>	0.001	0.025	0.980
<i>norank_c_BD7-11</i>	0.001	0.053	0.969
<i>norank_c_Cyanobacteria</i>	0.047	0.540	0.818

<i>norank_f_Acidimicrobiaceae</i>	0.001	0.025	0.980
<i>norank_f_Acidobacteriaceae_Subgroup_1</i>	0.001	0.025	0.980
<i>norank_f_Actinopolysporaceae</i>	0.018	0.327	0.887
<i>norank_f_B79</i>	0.004	0.106	0.951
<i>norank_f_Bacteroidales_BS11_gut_group</i>	0.012	0.237	0.911
<i>norank_f_Bacteroidales_S24-7_group</i>	0.006	0.163	0.934
<i>norank_f_Bacteroidales_UCG-001</i>	0.033	0.473	0.849
<i>norank_f_Chitinophagaceae</i>	0.001	0.048	0.970
<i>norank_f_Clostridiales_vadinBB60_group</i>	0.001	0.025	0.980
<i>norank_f_Gemmatimonadaceae</i>	0.001	0.025	0.980
<i>norank_f_JTB255_marine_benthic_group</i>	0.001	0.025	0.980
<i>norank_f_Lachnospiraceae</i>	0.014	0.272	0.902
<i>norank_f_MNG7</i>	0.028	0.434	0.860
<i>norank_f_MSB-1E8</i>	0.009	0.203	0.922
<i>norank_f_Neisseriaceae</i>	0.049	0.562	0.813
<i>norank_f_Nitrosomonadaceae</i>	0.004	0.113	0.948
<i>norank_f_Rhodospirillaceae</i>	0.000	0.018	0.985
<i>norank_f_Xanthomonadaceae</i>	0.002	0.061	0.965
<i>norank_f_XIII</i>	0.001	0.025	0.980
<i>norank_o_AKYG1722</i>	0.001	0.025	0.980
<i>norank_o_Gaiellales</i>	0.016	0.294	0.896
<i>norank_o_Limnochordales</i>	0.001	0.025	0.980
<i>norank_o_Obscuribacterales</i>	0.001	0.039	0.974
<i>norank_o_Subgroup_7</i>	0.001	0.025	0.980
<i>norank_o_TRA3-20</i>	0.006	0.150	0.937
<i>norank_o_Xanthomonadales</i>	0.006	0.147	0.938

<i>norank_p_Parcubacteria</i>	0.016	0.300	0.894
<i>norank_p_TM6_Dependentiae_</i>	0.001	0.025	0.980
<i>Oceanobacillus</i>	0.020	0.344	0.882
<i>Oribacterium</i>	0.024	0.394	0.871
<i>Oscillibacter</i>	0.029	0.447	0.857
<i>Paenibacillus</i>	0.039	0.504	0.835
<i>Papillibacter</i>	0.001	0.025	0.980
<i>Parabacteroides</i>	0.001	0.047	0.971
<i>Paracoccus</i>	0.025	0.404	0.868
<i>Pelomonas</i>	0.032	0.463	0.851
<i>Perlucidibaca</i>	0.001	0.025	0.980
<i>Phascolarctobacterium</i>	0.020	0.342	0.883
<i>Prevotella_1</i>	0.012	0.237	0.911
<i>Prevotella_7</i>	0.044	0.525	0.823
<i>Prevotella_9</i>	0.039	0.510	0.833
<i>Prevotellaceae_NK3B31_group</i>	0.011	0.229	0.913
<i>Prevotellaceae_UCG-001</i>	0.002	0.064	0.964
<i>Prevotellaceae_UCG-003</i>	0.003	0.096	0.954
<i>Pseudoclavibacter</i>	0.001	0.045	0.971
<i>Pyramidobacter</i>	0.001	0.025	0.980
<i>Ralstonia</i>	0.001	0.034	0.976
<i>Rikenellaceae_RC9_gut_group</i>	0.004	0.120	0.946
<i>Rubellimicrobium</i>	0.029	0.445	0.857
<i>Ruminococcaceae_UCG-002</i>	0.044	0.520	0.824
<i>Ruminococcaceae_UCG-007</i>	0.001	0.025	0.980
<i>Ruminococcaceae_UCG-010</i>	0.001	0.025	0.980

<i>Ruminococcaceae_UCG-011</i>	0.007	0.175	0.931
<i>Ruminococcus_1</i>	0.001	0.035	0.975
<i>Ruminococcus_2</i>	0.009	0.209	0.920
<i>Saccharomyces</i>	0.016	0.294	(0.896)
<i>Saccharopolyspora</i>	0.003	0.082	0.958
<i>Sedimentibacter</i>	0.001	0.025	0.980
<i>Selenomonas</i>	0.002	0.073	0.961
<i>Sphingomonas</i>	0.035	0.474	0.842
<i>Spirochaeta_2</i>	0.030	0.450	0.856
<i>Stenotrophomonas</i>	0.010	0.218	0.916
<i>Streptococcus</i>	0.007	0.177	0.929
<i>Streptomyces</i>	0.009	0.207	0.921
<i>Subdoligranulum</i>	0.008	0.188	0.926
<i>Succinivibrio</i>	0.011	0.228	0.914
<i>Thalassobacillus</i>	0.001	0.025	0.980
<i>Thermomonas</i>	0.035	0.474	0.843
<i>Tyzzerella_3</i>	0.001	0.025	0.980
<i>unclassified_f_Comamonadaceae</i>	0.041	0.518	0.830
<i>unclassified_f_Coriobacteriaceae</i>	0.001	0.025	0.980
<i>unclassified_f_Lachnospiraceae</i>	0.041	0.518	0.830
<i>unclassified_f_Microbacteriaceae</i>	0.001	0.025	0.980
<i>unclassified_f_Nocardoidaceae</i>	0.001	0.025	0.980
<i>unclassified_f_Prevotellaceae</i>	0.006	0.148	0.938
<i>unclassified_f_Xanthobacteraceae</i>	0.034	0.474	0.846
<i>unclassified_f_Xanthomonadaceae</i>	0.004	0.113	0.949
<i>unclassified_o_Chlamydiales</i>	0.001	0.025	0.980

2-phenoxy-Ethanol	<i>unclassified_o_Solirubrobacterales</i>	0.001	0.025	0.980
	<i>Aspergillus</i>	0.040	0.512	0.832
	<i>Bifidobacterium</i>	0.027	0.424	0.863
	<i>Denitratisoma</i>	0.017	0.306	0.893
	<i>Erysipelotrichaceae_UCG-002</i>	0.023	0.378	0.875
	<i>Lactococcus</i>	0.045	0.526	(0.822)
	<i>Lawsonella</i>	0.044	0.523	0.823
	<i>Lysinibacillus</i>	0.036	0.481	0.840
	<i>Marvinbryantia</i>	0.024	0.396	0.870
	<i>Mesorhizobium</i>	0.030	0.453	0.855
	<i>norank_f_MNG7</i>	0.049	0.561	0.814
	<i>norank_o_Obscuribacterales</i>	0.034	0.474	0.846
	<i>norank_o_TRA3-20</i>	0.003	0.095	0.954
	<i>Parabacteroides</i>	0.037	0.492	0.838
	<i>Prevotella_7</i>	0.011	0.228	0.913
	<i>Rhizomicrobium</i>	0.013	0.266	0.904
	<i>Ruminiclostridium_9</i>	0.011	0.225	0.915
	<i>Saccharomyces</i>	0.015	0.283	(0.899)
	<i>Spirochaeta_2</i>	0.000	0.022	0.984
	<i>Staphylococcus</i>	0.010	0.218	0.916
3-(methylthio)-1-Propanol	<i>[Eubacterium]_nodatum_group</i>	0.000	0.000	1.000
	<i>Anaerofilum</i>	0.005	0.139	0.940
	<i>Cellulosimicrobium</i>	0.015	0.290	(0.897)
	<i>Escherichia-Shigella</i>	0.041	0.520	(0.829)
	<i>norank_c_Cyanobacteria</i>	0.044	0.523	(0.823)
	<i>norank_f_PHOS-HE51</i>	0.005	0.139	0.940

3,7-dimethyl-1,6-Octadien-3-ol	<i>norank_o_Mollicutes_RF9</i>	0.005	0.139	0.940
	[<i>Eubacterium</i>] <i>_nodatum_group</i>	0.000	0.000	0.999
	<i>Anaerofilum</i>	0.007	0.176	0.929
	<i>Cellulosimicrobium</i>	0.013	0.266	(0.904)
	<i>Escherichia-Shigella</i>	0.044	0.523	(0.823)
	<i>norank_c_Cyanobacteria</i>	0.041	0.518	(0.831)
	<i>norank_f_PHOS-HE51</i>	0.007	0.176	0.929
3-methyl-1-Butanol	<i>norank_o_Mollicutes_RF9</i>	0.007	0.176	0.929
	[<i>Eubacterium</i>] <i>_eligens_group</i>	0.007	0.178	(0.928)
	<i>Anaerotruncus</i>	0.003	0.094	(0.954)
	<i>Cloacibacterium</i>	0.043	0.520	0.826
	<i>Lachnospiraceae_NK4A136_group</i>	0.027	0.423	(0.864)
	<i>norank_f_Erysipelotrichaceae</i>	0.025	0.404	(0.868)
	<i>Odoribacter</i>	0.031	0.456	(0.853)
4-methyl-1-Heptanol	[<i>Eubacterium</i>] <i>_nodatum_group</i>	0.005	0.128	0.944
	<i>Anaerofilum</i>	0.000	0.000	1.000
	<i>Escherichia-Shigella</i>	0.036	0.478	(0.841)
	<i>norank_f_PHOS-HE51</i>	0.000	0.000	1.000
	<i>norank_o_Mollicutes_RF9</i>	0.000	0.000	1.000
5-methyl-2-(1-methylethenyl)-4-Hexen-1-ol	[<i>Eubacterium</i>] <i>_nodatum_group</i>	0.005	0.128	0.944
	<i>Anaerofilum</i>	0.000	0.000	1.000
	<i>Escherichia-Shigella</i>	0.036	0.478	(0.841)
	<i>norank_f_PHOS-HE51</i>	0.000	0.000	1.000
	<i>norank_o_Mollicutes_RF9</i>	0.000	0.000	1.000
6-Methyl-1-octanol	[<i>Eubacterium</i>] <i>_hallii_group</i>	0.000	0.000	1.000
	<i>Abiotrophia</i>	0.003	0.091	0.955

	<i>Acidisoma</i>	0.001	0.053	0.968
	<i>Aggregatibacter</i>	0.002	0.058	0.966
	<i>Capnocytophaga</i>	0.000	0.005	0.993
	<i>Caulobacter</i>	0.007	0.176	0.930
	<i>Cetobacterium</i>	0.011	0.229	0.913
	<i>Eikenella</i>	0.000	0.001	0.997
	<i>Gemella</i>	0.016	0.294	0.896
	<i>Geobacillus</i>	0.002	0.058	0.966
	<i>Hydrogenophilus</i>	0.000	0.013	0.988
	<i>Ignatzschineria</i>	0.000	0.000	1.000
	<i>Microbacterium</i>	0.032	0.472	(0.849)
	<i>Moraxella</i>	0.038	0.495	0.837
	<i>Neisseria</i>	0.002	0.075	0.960
	<i>norank_f_I-10</i>	0.015	0.290	0.897
	<i>Porphyromonas</i>	0.002	0.069	0.962
	<i>Pseudolabrys</i>	0.001	0.053	0.968
	<i>Pseudonocardia</i>	0.000	0.000	1.000
	<i>Solirubrobacter</i>	0.030	0.453	0.854
	<i>Sorangium</i>	0.007	0.167	0.933
	<i>unclassified_f_Rikenellaceae</i>	0.014	0.266	0.904
	<i>unclassified_o_Rhizobiales</i>	0.029	0.448	0.856
	<i>Undibacterium</i>	0.003	0.080	0.959
	<i>Veillonella</i>	0.027	0.431	0.861
	<i>Vibrionimonas</i>	0.023	0.386	0.873
9,12-Octadecadien-1-ol	<i>[Eubacterium]_nodatum_group</i>	0.000	0.001	0.998
	<i>Anaerofilum</i>	0.009	0.203	0.922

	<i>Cellulosimicrobium</i>	0.013	0.251	(0.907)
	<i>Enhydrobacter</i>	0.048	0.558	(0.814)
	<i>Escherichia-Shigella</i>	0.046	0.539	(0.819)
	<i>norank_c_Cyanobacteria</i>	0.039	0.504	(0.835)
	<i>norank_f_PHOS-HE51</i>	0.009	0.203	0.922
	<i>norank_o_Mollicutes_RF9</i>	0.009	0.203	0.922
Octaethylene glycol	<i>[Eubacterium]_coprostanoligenes_group</i>	0.001	0.047	0.971
	<i>Acinetobacter</i>	0.018	0.318	0.890
	<i>Alistipes</i>	0.000	0.001	0.998
	<i>Alloprevotella</i>	0.000	0.017	0.986
	<i>Anaerobiospirillum</i>	0.000	0.004	0.994
	<i>Anaerostipes</i>	0.007	0.176	0.929
	<i>Aspergillus</i>	0.000	0.013	0.988
	<i>Bacillus</i>	0.005	0.128	0.944
	<i>Blautia</i>	0.015	0.288	0.898
	<i>Burkholderia-Paraburkholderia</i>	0.039	0.504	0.835
	<i>Candidatus_Saccharimonas</i>	0.000	0.004	0.994
	<i>Catenibacterium</i>	0.000	0.006	0.992
	<i>Christensenellaceae_R-7_group</i>	0.010	0.222	0.915
	<i>Chroococciopsis</i>	0.021	0.354	0.880
	<i>Clostridium_sensu_stricto_15</i>	0.000	0.015	0.987
	<i>Coprococcus_3</i>	0.002	0.065	0.964
	<i>Desulfovibrio</i>	0.000	0.001	0.997
	<i>Devosia</i>	0.000	0.004	0.995
	<i>Dialister</i>	0.002	0.072	0.961
	<i>Dokdonella</i>	0.034	0.474	0.846

<i>Dyella</i>	0.020	0.344	0.883
<i>Enorma</i>	0.000	0.004	0.994
<i>Enterococcus</i>	0.000	0.007	0.992
<i>Erysipelotrichaceae_UCG-002</i>	0.024	0.392	0.871
<i>Faecalibacterium</i>	0.000	0.009	0.990
<i>Faecalibaculum</i>	0.041	0.518	0.830
<i>Family_XIII_AD3011_group</i>	0.002	0.072	0.961
<i>Haliangium</i>	0.000	0.004	0.994
<i>Helicobacter</i>	0.001	0.040	0.973
<i>Holdemanella</i>	0.001	0.044	0.972
<i>Inquilinus</i>	0.000	0.004	0.994
<i>Kroppenstedtia</i>	0.012	0.249	0.908
<i>Lachnospiraceae_UCG-010</i>	0.000	0.004	0.994
<i>Lawsonella</i>	0.003	0.102	0.952
<i>Limnohabitans</i>	0.000	0.004	0.994
<i>Marinobacter</i>	0.000	0.004	0.994
<i>Marvinbryantia</i>	0.022	0.373	0.876
<i>Megasphaera</i>	0.019	0.337	0.885
<i>Microtholus</i>	0.016	0.293	0.896
<i>Mycobacterium</i>	0.020	0.344	0.882
<i>Nakamurella</i>	0.002	0.070	0.962
<i>Nitrolancea</i>	0.001	0.039	0.974
<i>Nitrospira</i>	0.017	0.308	0.892
<i>norank_c_Acidobacteria</i>	0.004	0.119	0.947
<i>norank_c_Bacteroidetes_BD2-2</i>	0.000	0.004	0.994
<i>norank_c_Bacteroidetes_VC2.1_Bac22</i>	0.000	0.004	0.994

<i>norank_c_BD7-11</i>	0.001	0.044	0.972
<i>norank_f_Acidimicrobiaceae</i>	0.000	0.004	0.994
<i>norank_f_Acidobacteriaceae_Subgroup_1</i>	0.000	0.004	0.994
<i>norank_f_Actinopolysporaceae</i>	0.034	0.474	0.844
<i>norank_f_B79</i>	0.005	0.140	0.940
<i>norank_f_Bacteroidales_BS11_gut_group</i>	0.009	0.207	0.921
<i>norank_f_Bacteroidales_S24-7_group</i>	0.002	0.056	0.967
<i>norank_f_Bacteroidales_UCG-001</i>	0.030	0.452	0.855
<i>norank_f_Chitinophagaceae</i>	0.000	0.012	0.989
<i>norank_f_Clostridiales_vadinBB60_group</i>	0.000	0.004	0.994
<i>norank_f_Gemmatimonadaceae</i>	0.000	0.004	0.994
<i>norank_f_JTB255_marine_benthic_group</i>	0.000	0.004	0.994
<i>norank_f_Lachnospiraceae</i>	0.021	0.356	0.880
<i>norank_f_MNG7</i>	0.027	0.431	0.862
<i>norank_f_Nitrosomonadaceae</i>	0.000	0.025	0.982
<i>norank_f_Rhodospirillaceae</i>	0.002	0.058	0.966
<i>norank_f_Xanthomonadaceae</i>	0.000	0.007	0.991
<i>norank_f_XIII</i>	0.000	0.004	0.994
<i>norank_o_AKYG1722</i>	0.000	0.004	0.994
<i>norank_o_Gaiellales</i>	0.035	0.474	0.842
<i>norank_o_Limnochordales</i>	0.000	0.004	0.994
<i>norank_o_Obscuribacterales</i>	0.001	0.025	0.980
<i>norank_o_Subgroup_7</i>	0.000	0.004	0.994
<i>norank_o_TRA3-20</i>	0.015	0.282	0.899
<i>norank_o_Xanthomonadales</i>	0.000	0.025	0.982
<i>norank_p_Parcubacteria</i>	0.019	0.332	0.886

<i>norank_p_TM6_Dependentiae_</i>	0.000	0.004	0.994
<i>Oceanobacillus</i>	0.012	0.246	0.909
<i>Odoribacter</i>	0.006	0.164	0.934
<i>Oribacterium</i>	0.001	0.040	0.973
<i>Oscillibacter</i>	0.005	0.128	0.944
<i>Paenibacillus</i>	0.040	0.512	0.832
<i>Papillibacter</i>	0.000	0.004	0.994
<i>Parabacteroides</i>	0.000	0.011	0.989
<i>Pelomonas</i>	0.034	0.474	0.845
<i>Perlucidibaca</i>	0.000	0.004	0.994
<i>Phascolarctobacterium</i>	0.022	0.372	0.876
<i>Prevotella_1</i>	0.000	0.015	0.987
<i>Prevotella_9</i>	0.004	0.113	0.949
<i>Prevotellaceae_NK3B31_group</i>	0.000	0.025	0.982
<i>Prevotellaceae_UCG-001</i>	0.001	0.034	0.976
<i>Prevotellaceae_UCG-003</i>	0.000	0.000	1.000
<i>Pseudoclavibacter</i>	0.008	0.178	0.928
<i>Pyramidobacter</i>	0.000	0.004	0.994
<i>Ralstonia</i>	0.007	0.169	0.932
<i>Rikenellaceae_RC9_gut_group</i>	0.002	0.059	0.966
<i>Rubellimicrobium</i>	0.032	0.472	0.849
<i>Ruminiclostridium</i>	0.046	0.538	0.819
<i>Ruminococcaceae_UCG-002</i>	0.005	0.131	0.942
<i>Ruminococcaceae_UCG-007</i>	0.000	0.004	0.994
<i>Ruminococcaceae_UCG-010</i>	0.000	0.004	0.994
<i>Ruminococcaceae_UCG-011</i>	0.011	0.226	0.914

	<i>Ruminococcus_1</i>	0.000	0.005	0.993
	<i>Ruminococcus_2</i>	0.003	0.086	0.957
	<i>Saccharomyces</i>	0.014	0.273	(0.902)
	<i>Saccharopolyspora</i>	0.004	0.118	0.947
	<i>Sedimentibacter</i>	0.000	0.004	0.994
	<i>Selenomonas</i>	0.000	0.003	0.996
	<i>Stenotrophomonas</i>	0.018	0.318	0.890
	<i>Streptococcus</i>	0.027	0.424	0.863
	<i>Streptomyces</i>	0.043	0.520	0.826
	<i>Subdoligranulum</i>	0.000	0.005	0.993
	<i>Succinivibrio</i>	0.000	0.006	0.993
	<i>Thalassobacillus</i>	0.000	0.004	0.994
	<i>Thermomonas</i>	0.046	0.540	0.818
	<i>Treponema_2</i>	0.017	0.310	0.892
	<i>Tyzzarella_3</i>	0.000	0.004	0.994
	<i>unclassified_f_Comamonadaceae</i>	0.027	0.423	0.864
	<i>unclassified_f_Coriobacteriaceae</i>	0.000	0.004	0.994
	<i>unclassified_f_Microbacteriaceae</i>	0.000	0.004	0.994
	<i>unclassified_f_Nocardoidaceae</i>	0.000	0.004	0.994
	<i>unclassified_f_Prevotellaceae</i>	0.000	0.001	0.998
	<i>unclassified_f_Xanthobacteraceae</i>	0.037	0.490	0.838
	<i>unclassified_f_Xanthomonadaceae</i>	0.000	0.004	0.994
	<i>unclassified_o_Chlamydiales</i>	0.000	0.004	0.994
	<i>unclassified_o_Solirubrobacterales</i>	0.000	0.004	0.994
Phenylethyl Alcohol	<i>Bifidobacterium</i>	0.039	0.510	0.833
	<i>Bradyrhizobium</i>	0.014	0.271	0.902

<i>Denitratisoma</i>	0.012	0.249	0.908
<i>Enhydrobacter</i>	0.017	0.314	0.891
<i>Lysinibacillus</i>	0.028	0.434	0.860
<i>norank_c_Cyanobacteria</i>	0.027	0.423	0.864
<i>norank_f_0319-6G20</i>	0.047	0.543	0.818
<i>norank_f_mle1-27</i>	0.028	0.431	0.861
<i>norank_p_SBR1093</i>	0.021	0.359	(0.879)
<i>Spirochaeta_2</i>	0.047	0.547	0.817
<i>Thauera</i>	0.034	0.474	0.846
<i>Thermoascus</i>	0.012	0.243	0.910

Table S5. Significant microbiota for HA-producing.

Microbiota	quantiles	quantiles	significance	significance
<i>Lactobacillus</i>	0.1298	-0.0145	upper quantiles	No significance
<i>Weissella</i>	0.1105	0.0269	upper quantiles	No significance
<i>norank_p__SBR1093</i>	0.1113	0.0416	upper quantiles	No significance
<i>Thermoascus</i>	-0.1293	-0.0175	lower quantiles	No significance
<i>Podosphaera</i>	-0.1318	0.0214	lower quantiles	No significance
<i>Paludibaculum</i>	-0.1179	-0.0189	lower quantiles	No significance
<i>norank_o__Acidimicrobiales</i>	-0.1248	0.0192	lower quantiles	No significance
<i>Bifidobacterium</i>	-0.1306	-0.0019	lower quantiles	No significance
<i>Scardovia</i>	-0.1234	0.0161	lower quantiles	No significance
<i>Acidothermus</i>	-0.1234	0.0161	lower quantiles	No significance
<i>Brevibacterium</i>	-0.1217	0.0222	lower quantiles	No significance
<i>Rothia</i>	-0.1212	-0.0018	lower quantiles	No significance
<i>Propioniciclava</i>	-0.1234	0.0161	lower quantiles	No significance
<i>norank_f__NS9_marine_group</i>	-0.1234	0.0161	lower quantiles	No significance
<i>Sphingobacterium</i>	-0.1234	0.0161	lower quantiles	No significance
<i>norank_f__Anaerolineaceae</i>	-0.1326	0.0182	lower quantiles	No significance
<i>norank_c__SJA-15</i>	-0.1315	0.0208	lower quantiles	No significance
<i>Staphylococcus</i>	-0.1175	0.0454	lower quantiles	No significance
<i>Anaerococcus</i>	-0.1197	0.014	lower quantiles	No significance
<i>Finegoldia</i>	-0.1133	0.0479	lower quantiles	No significance
<i>Lachnoanaerobaculum</i>	-0.1093	0.0412	lower quantiles	No significance
<i>Filifactor</i>	-0.1348	-0.0091	lower quantiles	No significance
<i>Schwartzia</i>	-0.1234	0.0161	lower quantiles	No significance
<i>Candidatus_Kuenenia</i>	-0.1272	0.0178	lower quantiles	No significance

<i>Woodsholea</i>	-0.1234	0.0161	lower quantiles	No significance
<i>norank_f__Holosporaceae</i>	-0.1287	0.031	lower quantiles	No significance
<i>Sandaracinobacter</i>	-0.1271	0.0177	lower quantiles	No significance
<i>Denitratisoma</i>	-0.1089	-0.0161	lower quantiles	No significance
<i>Sulfuritalea</i>	-0.1297	-0.0076	lower quantiles	No significance
<i>Thauera</i>	-0.1334	0.0328	lower quantiles	No significance
<i>norank_o__SC-I-84</i>	-0.1234	0.0161	lower quantiles	No significance
<i>Bdellovibrio</i>	-0.1234	0.0161	lower quantiles	No significance
<i>OM27_clade</i>	-0.124	0.0123	lower quantiles	No significance
<i>norank_f__BIrii41</i>	-0.1264	0.0174	lower quantiles	No significance
<i>Sulfuricurvum</i>	-0.1202	0.0118	lower quantiles	No significance
<i>Simiduia</i>	-0.1234	0.0161	lower quantiles	No significance
<i>Enhydrobacter</i>	-0.1061	0.065	lower quantiles	No significance
<i>norank_o__Run-SP154</i>	-0.1234	0.0161	lower quantiles	No significance
<i>norank_p__Saccharibacteria</i>	-0.1174	-0.0211	lower quantiles	No significance
<i>Pseudonocardia</i>	0.0531	0.1107	No significance	upper quantiles
<i>Solirubrobacter</i>	0.0459	0.1135	No significance	upper quantiles
<i>Porphyromonas</i>	0.0639	0.1087	No significance	upper quantiles
<i>Capnocytophaga</i>	0.0519	0.1131	No significance	upper quantiles
<i>norank_f__Simkaniaceae</i>	-0.0678	0.1058	No significance	upper quantiles
<i>Gemella</i>	0.0138	0.1181	No significance	upper quantiles
<i>[Eubacterium]_hallii_group</i>	0.0531	0.1107	No significance	upper quantiles
<i>Veillonella</i>	-0.0116	0.109	No significance	upper quantiles
<i>Ochrobactrum</i>	0.0382	0.1078	No significance	upper quantiles
<i>Methylobacterium</i>	-0.0454	0.12	No significance	upper quantiles
<i>unclassified_o__Rhizobiales</i>	0.045	0.1115	No significance	upper quantiles

<i>Achromobacter</i>	-0.0444	0.1082	No significance	upper quantiles
<i>Aquabacterium</i>	-0.0168	0.1068	No significance	upper quantiles
<i>Undibacterium</i>	0.048	0.1169	No significance	upper quantiles
<i>Eikenella</i>	0.0572	0.1094	No significance	upper quantiles
<i>Neisseria</i>	0.0276	0.1092	No significance	upper quantiles
<i>Aggregatibacter</i>	0.0347	0.1144	No significance	upper quantiles
<i>Haemophilus</i>	-0.0604	0.1125	No significance	upper quantiles
<i>Moraxella</i>	0.0129	0.1244	No significance	upper quantiles
<i>Ignatzschineria</i>	0.0531	0.1107	No significance	upper quantiles

Table S6. Correlation between HA and significant microbiota on genus level.

Microbiota	HA	P value	P adjust	correlation
<i>Pseudonocardia</i>	6-Methyl-1-octanol	0	0	1
<i>[Eubacterium]_hallii_group</i>	6-Methyl-1-octanol	0	0	1
<i>Ignatzschineria</i>	6-Methyl-1-octanol	0	0	1
<i>norank_f__NS9_marine_group</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>Woodsholea</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>Scardovia</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>Schwartzia</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>norank_o__SC-I-84</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>Bdellovibrio</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>Simiduia</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>Acidothermus</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>Propioniciclava</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>Sphingobacterium</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>norank_o__Run-SP154</i>	2-methyl-1-Propanol	2.26E-07	2.19E-05	0.999612
<i>Brevibacterium</i>	2-methyl-1-Propanol	2.70E-06	0.000244	0.998658
<i>Eikenella</i>	6-Methyl-1-octanol	1.27E-05	0.001081	0.997083
<i>norank_f__BIrii41</i>	2-methyl-1-Propanol	2.17E-05	0.001734	0.996192
<i>norank_o__Acidimicrobiales</i>	2-methyl-1-Propanol	2.59E-05	0.001954	0.995841
<i>Sulfuricurvum</i>	2-methyl-1-Propanol	4.37E-05	0.003122	0.994596
<i>Sandaracinobacter</i>	2-methyl-1-Propanol	4.76E-05	0.003229	0.994362
<i>Candidatus_Kuenenia</i>	2-methyl-1-Propanol	5.57E-05	0.003596	0.993903
<i>Capnocytophaga</i>	6-Methyl-1-octanol	7.74E-05	0.004776	0.992807
<i>OM27_clade</i>	2-methyl-1-Propanol	0.000361	0.020736	0.984437
<i>Anaerococcus</i>	2-methyl-1-Propanol	0.000367	0.020736	0.984323

<i>Rothia</i>	2-methyl-1-Propanol	0.000611	0.033159	0.979751
<i>Lachnoanaerobaculum</i>	2-methyl-1-Propanol	0.001597	0.083338	0.967193
<i>Aggregatibacter</i>	6-Methyl-1-octanol	0.001692	0.085053	0.966221
<i>Neisseria</i>	1-Hexacosanol	0.00207	0.098606	0.962621
<i>Porphyromonas</i>	6-Methyl-1-octanol	0.002107	0.098606	0.962281
<i>Neisseria</i>	6-Methyl-1-octanol	0.002371	0.107258	0.959973
<i>Undibacterium</i>	6-Methyl-1-octanol	0.002531	0.110784	0.958638
<i>norank_c__SJA-15</i>	2-methyl-1-Propanol	0.003044	0.129075	0.954609
<i>Ignatzschineria</i>	1-Hexacosanol	0.003918	0.151908	0.948447
<i>[Eubacterium]_hallii_group</i>	1-Hexacosanol	0.003918	0.151908	0.948447
<i>Pseudonocardia</i>	1-Hexacosanol	0.003918	0.151908	0.948447
<i>Finegoldia</i>	2-methyl-1-Propanol	0.004563	0.164346	0.944326
<i>Sulfuritalea</i>	2-methyl-1-Propanol	0.004809	0.164346	0.942831
<i>Ignatzschineria</i>	1-Triacontanol	0.004889	0.164346	0.942351
<i>Pseudonocardia</i>	1-Triacontanol	0.004889	0.164346	0.942351
<i>[Eubacterium]_hallii_group</i>	1-Triacontanol	0.004889	0.164346	0.942351
<i>Neisseria</i>	1-Triacontanol	0.004966	0.164346	0.941899
<i>Podospaera</i>	2-methyl-1-Propanol	0.00542	0.175127	0.939269
<i>Veillonella</i>	1-Hexacosanol	0.005798	0.182975	0.937166
<i>Eikenella</i>	1-Hexacosanol	0.006064	0.18703	0.935724
<i>norank_f__Anaerolineaceae</i>	2-methyl-1-Propanol	0.006285	0.189521	0.934553
<i>Eikenella</i>	1-Triacontanol	0.00699	0.206191	0.930939
<i>Capnocytophaga</i>	1-Hexacosanol	0.008917	0.257452	0.921875
<i>Enhydrobacter</i>	2-ethyl-1-Hexanol	0.009314	0.260578	-0.92013
<i>norank_p__Saccharibacteria</i>	2-(2-butoxyethoxy)-Ethanol	0.009409	0.260578	0.919717
<i>Veillonella</i>	1-Triacontanol	0.009986	0.271025	0.917258

<i>Staphylococcus</i>	2-phenoxy-Ethanol	0.010218	0.271883	0.916288
<i>Capnocytophaga</i>	1-Triacontanol	0.010806	0.281993	0.913879
<i>Thermoascus</i>	Phenylethyl Alcohol	0.011879	0.304154	0.909637
<i>Denitratisoma</i>	Phenylethyl Alcohol	0.012361	0.306436	0.907794
<i>Aggregatibacter</i>	1-Hexacosanol	0.01242	0.306436	0.90757
<i>Enhydrobacter</i>	1-Heptadecanol	0.013067	0.316637	-0.90515
<i>Gemella</i>	6-Methyl-1-octanol	0.015769	0.375401	0.895639
<i>Denitratisoma</i>	2-phenoxy-Ethanol	0.016624	0.388947	0.892792
<i>Enhydrobacter</i>	Phenylethyl Alcohol	0.017204	0.395695	0.890903
<i>Lactobacillus</i>	2-methyl-1-Propanol	0.01755	0.39692	-0.88979
<i>Finegoldia</i>	2-(2-butoxyethoxy)-Ethanol	0.019228	0.427747	0.884536
<i>norank_p__SBR1093</i>	Phenylethyl Alcohol	0.021135	0.462582	-0.87883
<i>Filifactor</i>	2-methyl-1-Propanol	0.022541	0.480649	0.874773
<i>Aggregatibacter</i>	1-Triacontanol	0.022669	0.480649	0.87441
<i>Gemella</i>	1-Triacontanol	0.023329	0.487034	0.872554
<i>Gemella</i>	1-Hexacosanol	0.023927	0.491962	0.870892
<i>Undibacterium</i>	1-Triacontanol	0.024375	0.493686	0.869662
<i>Undibacterium</i>	1-Hexacosanol	0.025587	0.510608	0.866385
<i>Bifidobacterium</i>	2-phenoxy-Ethanol	0.026804	0.527139	0.863168
<i>Veillonella</i>	6-Methyl-1-octanol	0.027489	0.532901	0.861385
<i>norank_f__Holosporaceae</i>	2-methyl-1-Propanol	0.028542	0.54137	0.85869
<i>Anaerococcus</i>	2-(2-butoxyethoxy)-Ethanol	0.028929	0.54137	0.85771
<i>unclassified_o__Rhizobiales</i>	6-Methyl-1-octanol	0.029471	0.54137	0.856349
<i>Paludibaculum</i>	2-methyl-1-Propanol	0.029522	0.54137	0.856222
<i>Solirubrobacter</i>	6-Methyl-1-octanol	0.030375	0.543486	0.854106
<i>Porphyromonas</i>	1-Hexacosanol	0.030438	0.543486	0.85395

<i>Porphyromonas</i>	1-Triacontanol	0.033271	0.586354	0.847121
<i>Thauera</i>	Phenylethyl Alcohol	0.033844	0.588801	0.845774
<i>Filifactor</i>	2-(2-butoxyethoxy)-Ethanol	0.03523	0.60515	0.84256
<i>Enhydrobacter</i>	2-Isopropyl-5-methyl-1-heptanol	0.037256	0.631956	-0.83796
<i>Moraxella</i>	6-Methyl-1-octanol	0.037841	0.633953	0.83666
<i>Bifidobacterium</i>	Phenylethyl Alcohol	0.039383	0.651741	0.833265
<i>Achromobacter</i>	2-ethyl-1-Hexanol	0.042286	0.691356	-0.82704
<i>Thauera</i>	2-methyl-1-Propanol	0.046158	0.745667	0.819038
<i>norank_p__Saccharibacteria</i>	2-ethyl-2-methyl-Tridecanol	0.047204	0.753594	0.816931
<i>Enhydrobacter</i>	9,12-Octadecadien-1-ol	0.048431	0.764194	-0.81449
