

<b>Supplemental Table 1</b>			
<b>Explanation of analysis:</b> We performed pairwise t-tests to assess differential abundance between groups, excluding genera present in less than 10% of the samples			
<b>Explanation of tables in tabs:</b> Tabs represent pairwise comparisons of mouse FMT recipient groups. See Fig 1A for detailed experimental design and explanation of nomenclature. Statistics are calculated for differential abundance comparisons between mouse FMT recipient groups.			
<b>Nomenclature Explanation</b>			
<b>Donor Input FMT</b>	<b>GF Mouse Recipient</b>	<b>Recipient Group Label</b>	<b>Recipient Microbiome Name</b>
HM1	WT	HM1->WT	NIMM-g1
NIMM-g1	WT	NIMM-g1->WT	NIMM-g2
NIMM-g2	WT	NIMM-g2->WT	NIMM-g3
HM1	KO	HM1->KO	IMM-g1
IMM-g1	KO	IMM-g1->KO	IMM-g2
IMM-g2	KO	IMM-g2->KO	IMM-g3
HM2	KO	HM2->KO	~
<b>Tabs in Workbook</b>			
HM1->KO vs HM1->WT			
HM1->KO vs HM2->KO			
HM1->KO vs IMM-g1->KO			
IMM-g1->KO vs IMM-g2->KO			
IMM-g1->KO vs NIMM-g1->KO			
IMM-g1->KO vs NIMM-g1->WT			
HM1->WT vs NIMM-g1->WT			
NIMM-g1->WT vs NIMM-g2->WT			
NIMM-g1->KO vs NIMM-g1->WT			

Operational Taxonomic Unit (Genus) for HM1->KO vs HM1->WT Comparison	T-value	P-value	FDR	Enriched
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae	-8.488550283	6.33E-08	3.12E-06	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_fissicatena_group	-9.134589714	1.24E-07	3.12E-06	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_NK4A136_group	-9.135735196	1.25E-07	3.12E-06	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Epulosiscium	7.138571583	1.07E-06	1.69E-05	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Adlercreutzia	-7.254382295	1.12E-06	1.69E-05	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia	-6.773520585	2.10E-06	2.62E-05	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Ruminococcus_gnavus_group	7.951232103	3.16E-06	3.39E-05	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Gordonibacter	-6.145960666	1.24E-05	0.000112071	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium	-5.788720245	1.34E-05	0.000112071	HM1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Eggerthella	-5.661915153	3.94E-05	0.000295402	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UCG-005	-4.598911261	0.000179748	0.001225555	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Clostridiaceae;g_Clostridium_sensu_stricto_13	4.524472145	0.000236423	0.001477646	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Paludicola	-4.332486538	0.000432429	0.002494784	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus	4.278339537	0.000764954	0.004097967	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes	-4.139976324	0.000900938	0.004504692	HM1->WT
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Vibrionales;f_Vibrionaceae;g_Vibrio	-3.745828966	0.001400114	0.006563034	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Phocea	3.449202222	0.003910844	0.017253722	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_	-3.208690271	0.005289446	0.020941013	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptococcales;f_Peptococcaceae;g_uncultured	3.295931565	0.005305057	0.020941013	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Monoglobales;f_Monoglobaceae;g_Monoglobus	-2.922851884	0.008434306	0.031628648	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Terrisporobacter	2.950212748	0.010541452	0.034754231	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Ruminococcus_torques_group	-3.01158123	0.010549957	0.034754231	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_Family_XIII_AD3011_group	-2.816774219	0.010657964	0.034754231	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lactonifactor	2.81786847	0.013690093	0.04278154	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Clostridiaceae;g_Clostridium_sensu_stricto_1	3.069360849	0.020296601	0.060889804	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus	2.596328893	0.021127732	0.06094538	HM1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	-2.517879932	0.024064763	0.066846565	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Oscilloibacter	2.419595914	0.032886627	0.080808918	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Turicibacter	2.22759033	0.042823474	0.110750364	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Coriobacteriaceae;g_Collinsella	-2.124507252	0.047745904	0.119364759	HM1->WT
d_Bacteria;p_Verrucomicrobia;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia	-2.001235886	0.062939453	0.152272869	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066755	-1.917141007	0.069698258	0.157373258	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus	1.921115965	0.070260433	0.157373258	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Eubacterium_coprostanoligenes_group;g_Eubacterium_coprostanoligenes_group	1.904714488	0.071342544	0.157373258	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_uncultured	1.891683194	0.077301629	0.164910925	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_UCG-008	-1.991940783	0.080261553	0.164910925	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Incertae_Sedis	-1.846780654	0.083487288	0.164910925	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Subdoligranulum	1.863142456	0.083554869	0.164910925	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	1.841035519	0.086903937	0.167122956	HM1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Sutterellaceae;g_Parasutterella	1.777696261	0.093397828	0.175120928	HM1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	-1.959500036	0.097762888	0.178834551	HM1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Erysipelatoclostridium	-1.723035528	0.105053803	0.187596077	HM1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Clostridium_innocuum_group	-1.689270557	0.108200975	0.18872263	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Clostridioides	1.693141168	0.124264566	0.211814601	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella	1.617884358	0.134850552	0.22475092	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas	-1.516020725	0.145196507	0.234861695	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus	-1.506298725	0.147695236	0.234861695	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_UBA1819	-1.546946505	0.150311485	0.234861695	HM1->WT
d_Bacteria;p_Firmicutes;c_uncultured;o_uncultured;f_uncultured;g_uncultured	1.467462799	0.164354338	0.249863757	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Marvinbryantia	1.459220545	0.166575838	0.249863757	HM1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia-Shigella	1.354936281	0.197656354	0.290671108	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Dielma	-1.250680558	0.231613284	0.334057621	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066575	-1.236556149	0.241293998	0.341453771	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_uncultured	-1.12878595	0.274527839	0.374356144	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricocccaceae;g_Butyricoccus	1.020982739	0.323503001	0.426149105	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia	1	0.334281943	0.426149105	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_	1	0.334281943	0.426149105	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Staphylococcales;f_Staphylococcaceae;g_Staphylococcus	0.98906855	0.335237296	0.426149105	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_DTU089	-1	0.355917684	0.444897105	HM1->WT
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	0.922140617	0.373105981	0.458736862	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_uncultured	-0.845682315	0.410382339	0.496430248	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella	0.81083642	0.427050135	0.508393018	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter	-0.801601825	0.440987563	0.512652274	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Colidextribacter	-0.782595773	0.444298637	0.512652274	HM1->WT
Unassigned; ; ; ; ;	-0.751948976	0.466089744	0.529647436	HM1->WT
d_Bacteria;p_Actinobacteriota;c_Actinobacteria;o_Bifidobacteriales;f_Bifidobacteriaceae;g_Bifidobacterium	-0.718439805	0.487012031	0.545162722	HM1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Enterococcaceae;g_Enterococcus	-0.558138604	0.583017737	0.643034269	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Clostridium_methylpentosum_group;g_Clostridium_methylpentosum_group	0.534227501	0.60256167	0.654958337	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Candidatus_Soleaferrea	0.38705943	0.706997445	0.757497262	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridia_vadinBB60_group;f_Clostridia_vadinBB60_group;g_Clostridia_vadinBB60_group	-0.240589576	0.813879015	0.859731354	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_Eubacterium_nodatum_group	0.188868185	0.853371495	0.888928641	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor	0.167986622	0.869748875	0.893577612	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania	-0.045494883	0.964414277	0.97446902	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_	-0.023778803	0.981520909	0.981520909	HM1->WT

Operational Taxonomic Unit (Genus) for HM1->KO vs HM2->KO Comparison	T-value	P-value	FDR	Enriched
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Clostridioides	14.26313282	2.12E-11	1.22E-09	HM1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	-17.87030689	3.16E-11	1.22E-09	HM2->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Odoribacter	-24.80141475	2.60E-10	6.66E-09	HM2->KO
d_Bacteria;p_Fusobacteriota;c_Fusobacteriia;o_Fusobacteriales;f_Fusobacteriaceae;g_Fusobacterium	-19.0423166	3.47E-09	6.67E-08	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_1	9.98485579	7.17E-08	1.10E-06	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Candidatus_Soleaferrea	6.972448656	5.35E-07	6.86E-06	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Epulopiscium	7.741674625	9.37E-07	1.03E-05	HM2->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;	-9.818312334	1.88E-06	1.81E-05	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella	5.781160253	1.32E-05	0.000112899	HM1->KO
Unassigned; ; ; ; ;	4.912539491	0.000141111	0.001086554	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania	-4.206661286	0.000652422	0.004566953	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;	-4.07876278	0.00095628	0.005808614	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_[Eubacterium]_nodatum_group	3.753911257	0.000980675	0.005808614	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_13	3.523369649	0.001745827	0.009602049	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Eggerthella	3.580994299	0.002021722	0.010378173	HM1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	-3.993899197	0.002543243	0.012239356	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_UBA1819	3.401552663	0.002999929	0.013587914	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Oscillibacter	-3.18731025	0.004157136	0.017783306	HM2->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Erysipelatoclostridium	3.611739416	0.004507559	0.018267476	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_gnavus_group	2.944066808	0.011738644	0.045193781	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lactonifactor	2.81786847	0.013690093	0.050197007	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;	-2.50677523	0.020257547	0.070731972	HM2->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus	2.596328893	0.021127732	0.070731972	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_torques_group	-2.211960625	0.039284883	0.126039001	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_uncultured	-2.87333172	0.046183188	0.139338884	HM1->KO
d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia	2.162106428	0.047049493	0.139338884	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Coriobacteriaceae;g_Collinsella	-2.053617019	0.051198604	0.146010833	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Eubacterium]_coprostanoligenes_group;g_[Eubacterium]_coprostanoligenes_group	2.024729773	0.055034767	0.147884295	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella	2.043281969	0.055696682	0.147884295	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Gordonibacter	-1.839002148	0.08015382	0.205728139	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter	-1.819699174	0.087098347	0.216341054	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Colixdextrabacter	-1.729349121	0.098488302	0.236987477	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Paludicola	-1.659269314	0.110080716	0.256855005	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_uncultured	1.574261347	0.128746442	0.291572824	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae	1.502614561	0.1473003	0.32406066	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas	-1.477179344	0.159100682	0.340298681	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Eubacterium]_fissicatena_group	1.466955106	0.164490455	0.342317975	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UCG-005	1.396045647	0.17548393	0.355585857	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia	-1.369527934	0.185884527	0.367002783	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Monoglobales;f_Monoglobaceae;g_Monoglobus	-1.350744801	0.193417568	0.372328818	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_UCG-008	-1.325382297	0.20384263	0.382826402	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Clostridium]_methylpentosum_group;g_[Clostridium]_methylpentosum_group	1.219282986	0.234662247	0.430214119	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus	1.069382956	0.296420825	0.522611967	HM1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Vibrionales;f_Vibrionaceae;g_Vibrio	1.064675611	0.29863541	0.522611967	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia	1	0.334281943	0.551863394	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridia_vadinBB60_group;f_Clostridia_vadinBB60_group;g_Clostridia_vadinBB60_group	1	0.334281943	0.551863394	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Marvinbryantia	-0.984753599	0.339523669	0.551863394	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_NK4A136_group	0.963508718	0.34541735	0.551863394	HM1->KO
d_Bacteria; ; ; ; ;	-0.966990889	0.351185796	0.551863394	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus	0.906254736	0.374275676	0.576384541	HM1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	-0.864746183	0.400222641	0.604257713	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptococcales;f_Peptococcaceae;g_uncultured	-0.841442192	0.409222706	0.605964392	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Incertae_Sedis	0.804593342	0.431754047	0.627263313	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_uncultured;g_uncultured	-0.780443252	0.449866516	0.641476328	HM2->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_[Clostridium]_innocuum_group	-0.742246601	0.46854053	0.644829222	HM2->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;	-0.740719761	0.468966707	0.644829222	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Subdoligranulum	0.700012291	0.490907692	0.663156005	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066755	0.666059371	0.511993147	0.67971504	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Turicibacter	-0.633106475	0.535119186	0.698375887	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes	0.608866911	0.552139132	0.703269348	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Dielma	0.59034896	0.562644997	0.703269348	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066575	0.582673928	0.566268826	0.703269348	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium	-0.567306575	0.57583686	0.703800606	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_Family_XIII_AD3011_group	0.553722574	0.586721754	0.705896111	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Staphylococcales;f_Staphylococcaceae;g_Staphylococcus	-0.489944864	0.630196466	0.746540429	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	-0.46916379	0.644137535	0.74889516	HM2->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia-Shigella	0.457353246	0.651636049	0.74889516	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Adlercreutzia	-0.401153298	0.692283737	0.783909525	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricoccaceae;g_Butyricoccus	0.367034373	0.717066592	0.79399903	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Actinobacteriia;o_Bifidobacteriales;f_Bifidobacteriaceae;g_Bifidobacterium	-0.34049406	0.736486169	0.79399903	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus	-0.338612796	0.73786616	0.79399903	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor	0.332612266	0.742440651	0.79399903	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Enterococcaceae;g_Enterococcus	0.282297963	0.781292642	0.824103198	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Terrisporobacter	-0.245466845	0.80845691	0.832217349	HM2->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_uncultured	0.242519985	0.810601314	0.832217349	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Phocaea	-0.205150521	0.839295404	0.850338765	HM2->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Sutterellaceae;g_Parasutterella	-0.140368696	0.889590594	0.889590594	HM2->KO

Operational Taxonomic Unit (Genus) for HM1->KO vs IMM-g1->KO Comparison	T-value	P-value	FDR	Enriched
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Clostridioides	-3.856040953	0.00089122	0.03917372	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lactonifactor	-3.686744698	0.001044633	0.03917372	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Epulopiscium	3.349822035	0.00213719	0.053429747	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_gnavus_group	2.8058424	0.009057392	0.169826099	HM1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	-2.71838275	0.015717848	0.235767713	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UCG-005	2.41279103	0.024888774	0.247332915	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus	2.495832846	0.02543905	0.247332915	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus	2.415175635	0.029506351	0.247332915	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptococcales;f_Peptococcaceae;g_uncultured	2.295103433	0.032188589	0.247332915	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Clostridium]_methylpentosum_group;g_[Clostridium]_methylpentosum_group	-2.234909296	0.032977722	0.247332915	IMM-g1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Vibrionales;f_Vibrionaceae;g_Vibrio	2.12133112	0.043517013	0.257871953	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_uncultured	2.18733172	0.046183188	0.257871953	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_	2.096382452	0.047768137	0.257871953	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_13	-2.078827973	0.048136098	0.257871953	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_uncultured	2.0392844	0.051884758	0.25942392	HM1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia-Shigella	-2.004925076	0.057984473	0.271802217	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Turicibacter	1.912877331	0.074052439	0.326701937	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Subdoligranulum	1.863142456	0.083554869	0.343067686	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_	1.840993078	0.086910481	0.343067686	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	1.668124266	0.116502524	0.436884464	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Romboutsia	-1.565815034	0.135815799	0.485056424	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Staphylococcales;f_Staphylococcaceae;g_Staphylococcus	1.459459783	0.15919922	0.499727514	HM1->KO
d_Bacteria;p_	-1.433571826	0.163828866	0.499727514	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_uncultured;o_uncultured;f_uncultured;g_uncultured	1.467462799	0.164354338	0.499727514	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Marvinbryantia	1.459220545	0.166575838	0.499727514	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania	-1.346325213	0.189712286	0.530431814	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Paludicola	1.3398498	0.190955453	0.530431814	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Colixtribacter	1.297912214	0.20802158	0.55720066	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_1	-1.238615385	0.225586803	0.561116334	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Oscillibacter	1.234320501	0.226359055	0.561116334	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Enterococcaceae;g_Enterococcus	-1.204916202	0.239896047	0.561116334	IMM-g1->KO
Unassigned; ; ; ; ;	1.197899689	0.240301084	0.561116334	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacterii;o_Coriobacteriales;f_Coriobacteriaceae;g_Collinsella	1.170917151	0.252524226	0.561116334	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia	1.132584264	0.266269756	0.561116334	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacterii;o_Coriobacteriales;f_Eggerthellaceae;g_Adlercreutzia	1.121524959	0.272226554	0.561116334	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_UBA1819	1.107937942	0.276457817	0.561116334	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Monoglobales;f_Monoglobaceae;g_Monoglobus	1.10972619	0.276817392	0.561116334	HM1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	-1	0.331332762	0.583081486	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter	1	0.334281943	0.583081486	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia	1	0.334281943	0.583081486	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacterii;o_Coriobacteriales;f_Eggerthellaceae;g_	1	0.334281943	0.583081486	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridia_vadinBB60_group;f_Clostridia_vadinBB60_group;g_Clostridia_vadinBB60_group	1	0.334281943	0.583081486	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_[Eubacterium]_nodatum_group	-0.981186609	0.334300052	0.583081486	IMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacterii;o_Coriobacteriales;f_Eggerthellaceae;g_Gordonibacter	0.960157989	0.344414235	0.587069719	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Incertae_Sedis	0.89039153	0.384120226	0.63895558	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066575	0.868640425	0.391892891	0.63895558	HM1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_[Clostridium]_innocuum_group	0.824635642	0.417910413	0.666878318	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifactor	-0.801893401	0.428813778	0.670021528	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes	0.772055967	0.446438745	0.678917518	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae	-0.756452971	0.455091636	0.678917518	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066755	-0.715234254	0.48028339	0.678917518	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas	-0.710072501	0.486101793	0.678917518	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus	-0.696298354	0.491705112	0.678917518	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Eubacterium]_fissicatena_group	0.691887651	0.495501591	0.678917518	HM1->KO
d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia	-0.685908423	0.497872847	0.678917518	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_uncultured	0.656303268	0.516658962	0.691953968	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Terrisporobacter	-0.581534204	0.565091832	0.743541884	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Eubacterium]_coprostanoligenes_group;g_[Eubacterium]_coprostanoligenes_group	-0.551821834	0.585311965	0.750118692	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_torques_group	0.531959872	0.598667293	0.750118692	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella	0.512590536	0.611999985	0.750118692	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella	-0.51164699	0.613615223	0.750118692	IMM-g1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Sutterellaceae;g_Parasutterella	-0.497956441	0.622113434	0.750118692	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_UCG-008	0.486821294	0.630099701	0.750118692	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus	0.471068794	0.641004997	0.751177731	HM1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacterii;o_Coriobacteriales;f_Eggerthellaceae;g_Eggerthella	0.410292429	0.684708299	0.790048031	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Candidatus_Soleiferrea	-0.379858862	0.706709436	0.803078905	IMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Actinobacteria;o_Bifidobacteriales;f_Bifidobacteriaceae;g_Bifidobacterium	-0.324069667	0.748403481	0.83776509	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_NK4A136_group	0.275979662	0.784557567	0.865320846	HM1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	-0.183268014	0.855826342	0.930246024	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Erysipelotrichaceae	0.104038163	0.917857235	0.969016661	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Phocea	-0.102947512	0.918775047	0.969016661	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Dielma	0.085214168	0.932742771	0.969016661	HM1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricoccaceae;g_Butyricoccus	-0.071948258	0.943176217	0.969016661	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_Family_XIII_AD3011_group	-0.032997316	0.973906877	0.984360086	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium	0.019761961	0.984360086	0.984360086	HM1->KO



Operational Taxonomic Unit (Genus) for IMM-g1->KO vs NIMM-g1->KO Comparison	T-value	P-value	FDR	Enriched
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;_	-9.259623812	3.64E-09	2.51E-07	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lactonifactor	10.34935696	9.34E-09	3.22E-07	IMM-g1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia-Shigella	8.962358466	1.09E-06	2.52E-05	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_13	7.95976078	1.50E-06	2.59E-05	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_[Clostridium]_innocuum_group	-5.584566259	1.56E-05	0.00021484	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066575	-5.480629775	2.82E-05	0.000324568	NIMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Gordonibacter	-4.886326205	6.97E-05	0.000686563	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium	-4.419148454	0.000207034	0.001785671	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_torques_group	-4.798140769	0.000266507	0.002043224	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Eubacterium]_coprostanoligenes_group;g_[Eubacterium]_coprostanoligenes_group	4.436407564	0.000361803	0.002496442	IMM-g1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	-5.769982356	0.00056108	0.003251283	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Monoglobales;f_Monoglobaceae;g_Monoglobus	-4.105826006	0.000588822	0.003251283	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_UBA1819	-4.007035018	0.000612561	0.003251283	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes	-4.154617217	0.000714635	0.003522128	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus	3.982815193	0.000962385	0.004426971	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Eubacterium]_fissicatena_group	-4.853582686	0.00113223	0.004882742	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UCG-005	-4.549822677	0.002019342	0.008196153	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Terrisporobacter	3.583072925	0.002291561	0.008784315	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Colidextribacter	-3.302578334	0.003286828	0.014717175	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Paludicola	-3.668368015	0.003325152	0.014717175	NIMM-g1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Sutterellaceae;g_Parasutterella	3.279859474	0.004418018	0.01413377	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blaugia	-3.143208659	0.004664629	0.01413377	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Clostridium]_methylpentosum_group;g_[Clostridium]_methylpentosum_group	3.340531384	0.004711257	0.01413377	IMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Actinobacteria;o_Bifidobacteriales;f_Bifidobacteriaceae;g_Bifidobacterium	3.009219717	0.006295862	0.018100604	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Epulisium	2.973947901	0.008514394	0.023499727	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae	-2.875306401	0.013403759	0.03376681	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Dielma	-2.712784197	0.013487139	0.03376681	NIMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Eggerthella	-2.673055957	0.013702474	0.03376681	NIMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Adlercreutzia	-2.678754809	0.027129443	0.064549365	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_uncultured	-2.279698609	0.033237763	0.075452355	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor	-2.256124314	0.033898884	0.075452355	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus	-2.28868696	0.035517805	0.076444737	NIMM-g1->KO
d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia	-2.23860747	0.036560526	0.076444737	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Enterococcaceae;g_Enterococcus	2.405076659	0.03768028	0.076468803	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_uncultured	2.435762134	0.039254703	0.077387844	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_uncultured	2.157570254	0.045561675	0.087326544	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_1	2.258441239	0.059863022	0.111636446	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella	-1.924129325	0.067126149	0.121886955	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_gnavus_group	-1.882062701	0.075443177	0.13347639	NIMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Coriobacteriaceae;g_Collinsella	-1.738527978	0.095835182	0.165315689	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Romboutsia	1.565815034	0.135815799	0.221848209	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_NK4A136_group	-1.625334703	0.137285691	0.221848209	NIMM-g1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Vibrionales;f_Vibrionaceae;g_Vibrio	1.552994099	0.138253232	0.221848209	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania	-1.561865468	0.148269884	0.232514136	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_UCG-008	-1.526158281	0.163969609	0.24929489	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptococcales;f_Peptococcaceae;g_uncultured	1.443422083	0.167076745	0.24929489	IMM-g1->KO
Unassigned;_	-1.415163697	0.170418489	0.24929489	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Erysipelotrichaceae	-1.474632177	0.174640448	0.24929489	NIMM-g1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	1.418952189	0.177035502	0.24929489	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Clostridioides	1.277417102	0.243537011	0.336081075	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	1	0.331332762	0.416242715	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Turicibacter	1	0.331332762	0.416242715	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus	1	0.331332762	0.416242715	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus	1	0.331332762	0.416242715	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella	-1.010987234	0.336855455	0.416242715	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066755	-0.962798357	0.35385772	0.416242715	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter	-1	0.355917684	0.416242715	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_DTU089	-1	0.355917684	0.416242715	NIMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;_	-1	0.355917684	0.416242715	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Oscillibacter	-0.916456157	0.377129376	0.433698782	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricicoccaceae;g_Butyricoccus	-0.773590318	0.448291594	0.507083934	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_[Eubacterium]_nodatum_group	-0.776837693	0.456165858	0.507668455	NIMM-g1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	0.566996645	0.577298706	0.632279535	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Incertae_Sedis	0.522997364	0.6178284	0.666096244	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_Family_XIII_AD3011_group	-0.489729471	0.631971287	0.670861828	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Staphylococcales;f_Staphylococcaceae;g_Staphylococcus	-0.415177608	0.687157852	0.7183923	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Phocea	0.346109708	0.736972828	0.758972017	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas	-0.331236364	0.748401633	0.759407539	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Candidatus_Soleiferrea	0.019708413	0.984649104	0.984649104	IMM-g1->KO

Operational Taxonomic Unit (Genus) for IMM-g1->KO vs NIMM-g1->WT Comparison	T-value	P-value	FDR	Enriched
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_UCG-008	-10.622979	3.30E-12	1.20E-10	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Eubacterium]_fissicatena_group	-10.496807	3.43E-12	1.20E-10	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_13	9.80382396	3.05E-11	7.11E-10	IMM-g1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia-Shigella	8.84514842	3.52E-10	6.16E-09	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_1	9.16653359	1.39E-09	1.95E-08	IMM-g1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	-8.8426351	3.28E-09	3.82E-08	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_gnavus_group	7.68212631	6.29E-09	6.29E-08	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lactonifactor	10.349357	9.34E-09	8.17E-08	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_	-7.2656175	2.74E-08	2.13E-07	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_torques_group	-7.1152672	3.21E-08	2.24E-07	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_NK4A136_group	-7.0472329	3.91E-08	2.49E-07	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UCG-005	-7.4736582	6.33E-08	3.69E-07	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae	-5.7018746	2.11E-06	1.14E-05	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Clostridium]_methylpentosum_group;g_[Clostridium]_methylpentosum_group	6.52211668	5.22E-06	2.61E-05	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Monoglobales;f_Monoglobaceae;g_Monoglobus	-5.6144412	7.09E-06	3.31E-05	NIMM-g1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Gordonibacter	-5.2161289	1.19E-05	5.19E-05	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia	-4.970322	2.61E-05	0.0001076	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes	-5.2687516	3.20E-05	0.00012436	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium	-4.6894869	4.49E-05	0.00016532	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Incertae_Sedis	-4.4849006	8.34E-05	0.00029203	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_UBA1819	-4.3782033	0.00011279	0.00037065	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Dielma	-4.3782033	0.00011649	0.00037065	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066575	-4.2099113	0.00017773	0.00054093	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_uncultured	-4.1846877	0.0002568	0.00074901	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Paludicola	-3.7970765	0.00057855	0.00161993	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Colidextribacter	-3.7150317	0.00076959	0.00207197	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus	3.98281519	0.00096239	0.00249507	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_uncultured	-3.6131424	0.00134621	0.00336553	NIMM-g1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Adlercreutzia	-3.5159124	0.00154775	0.00373596	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Enterococcaceae;g_Enterococcus	3.36074582	0.00200746	0.00468408	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Terrisporobacter	3.58307293	0.00229156	0.00506356	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_	-3.5784293	0.00231477	0.00506356	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066755	-2.9600009	0.00563095	0.01194445	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_[Clostridium]_innocuum_group	-2.9372395	0.00720693	0.01443456	NIMM-g1->WT
Unassigned; ; ; ; ; ;	-2.8984143	0.00721728	0.01443456	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Staphylococcales;f_Staphylococcaceae;g_Staphylococcus	-2.8349148	0.00972336	0.01890654	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor	-2.7233817	0.01104222	0.02089068	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas	-2.6506861	0.01240324	0.02284807	NIMM-g1->WT
d_Bacteria;p_Actinobacteriota;c_Actinobacteriia;o_Bifidobacteriales;f_Bifidobacteriaceae;g_Bifidobacterium	2.560816	0.01515593	0.02720296	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridia_vadinBB60_group;f_Clostridia_vadinBB60_group;g_Clostridia_vadinBB60_group	-2.5134119	0.02232601	0.03907051	NIMM-g1->WT
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Sutterellaceae;g_Sutterella	2.33179872	0.0218178	0.04983282	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Epulosium	2.16163136	0.04184777	0.06974629	IMM-g1->KO
d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia	-2.0211687	0.05276367	0.08589434	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_[Eubacterium]_nodatum_group	-1.9807615	0.05931652	0.09256662	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Clostridioides	1.94641402	0.05995068	0.09325662	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella	1.93168726	0.06177156	0.0940002	IMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Eggerthella	-1.8933582	0.06687929	0.09960745	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Phocea	1.76456316	0.08663238	0.12633889	IMM-g1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Muribaculaceae;g_Muribaculaceae	-1.7949105	0.09046804	0.12924006	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Candidatus_Soleaferrea	-1.6888999	0.10091471	0.14128059	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	-1.6356599	0.1155753	0.15863276	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Romboutsia	1.56581503	0.1358158	0.18282896	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptococcales;f_Peptococcaceae;g_uncultured	1.44342208	0.16707675	0.2206674	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_Family_XIII_AD3011_group	-1.2835328	0.20881018	0.27067987	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella	-1.0839114	0.28662371	0.36479382	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania	-1.042551	0.30451493	0.37592945	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus	-1.0421147	0.30611398	0.37592945	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus		1	0.39310667	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_DTU089		-1	0.39310667	NIMM-g1->WT
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Vibrionales;f_Vibrionaceae;g_Vibrio	-0.968239	0.33995625	0.39661562	NIMM-g1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Coriobacteriaceae;g_Collinsella	-0.750356	0.46168351	0.52980075	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricocccaceae;g_Butyricoccus	-0.6452283	0.52478864	0.59250331	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Oscillibacter	-0.4558583	0.65171703	0.72413003	NIMM-g1->WT
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	0.43916399	0.66359204	0.72580379	IMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Eubacterium]_coprostanoligenes_group;g_[Eubacterium]_coprostanoligenes_group	0.37428924	0.71052413	0.76517983	IMM-g1->KO
d_Bacteria; ; ; ; ; ;				
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus	-0.3094416	0.75894443	0.80494106	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Turicibacter	-0.2430675	0.80942435	0.83323095	NIMM-g1->WT
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	-0.2064573	0.83767204	0.84981221	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Erysipelotrichaceae	0.03618591	0.9713523	0.9713523	IMM-g1->KO

Operational Taxonomic Unit (Genus) for HM1->WT vs NIMM-g1->WT Comparison	T-value	P-value	FDR	Enriched
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Vibrionales;f_Vibrionaceae;g_Vibrio	5.39001366	4.40E-05	0.002903623	HM1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Coriobacteriaceae;g_Collinsella	4.61690007	0.000128257	0.004232496	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia	4.286841959	0.00029081	0.005215912	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_gnavus_group	4.32005584	0.000316116	0.005215912	HM1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Adlercreutzia	3.262255261	0.003907314	0.051576548	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor	-3.08615967	0.013720324	0.126423555	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_UCG-008	-3.089147584	0.014565678	0.126423555	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaeae;g_Clostridioides	-3.19237101	0.015324067	0.126423555	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Phocae	-2.540800575	0.021105423	0.14119397	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Enterococcaceae;g_Enterococcus	2.472945475	0.022995662	0.14119397	HM1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Eggerthella	2.427214297	0.023532328	0.14119397	HM1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Staphylococcales;f_Staphylococcaceae;g_Staphylococcus	-2.355208076	0.02743539	0.150894646	NIMM-g1->WT
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	-2.55581732	0.031892789	0.158836814	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Eubacterium]_coprostanoligenes_group;g_[Eubacterium]_coprostanoligenes_group	-2.267871021	0.03692658	0.158836814	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	-2.200106398	0.041915882	0.178200937	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_[Eubacterium]_nodatum_group	-2.459525947	0.043200227	0.178200937	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae_NK4A136_group	2.071102057	0.051176146	0.190008287	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Paludicola	2.043850934	0.053198161	0.190008287	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella	-2.114279629	0.058545294	0.190008287	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricicoccaceae;g_Butyricoccus	-2.071718584	0.059472499	0.190008287	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Erysipelatoclostridium	2.089330198	0.060457182	0.190008287	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes	1.950706497	0.063380005	0.190140016	HM1->WT
d_Bacteria;p_Actinobacteriota;c_Actinobacteriia;o_Bifidobacteriales;f_Bifidobacteriaceae;g_Bifidobacterium	2.053364079	0.073394543	0.207469585	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_torques_group	-1.957613775	0.075443485	0.207469585	NIMM-g1->WT
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia-Shigella	1.921094562	0.086524281	0.222844518	HM1->WT
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Muribaculaceae;g_Muribaculaceae	-1.794910476	0.090468043	0.222844518	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066755	-1.773878376	0.093269946	0.222844518	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Oscillibacter	-1.857945506	0.094540099	0.222844518	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania	-1.728775775	0.1162651	0.26460333	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_[Clostridium]_innocuum_group	1.677405449	0.12687192	0.265907822	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Candidatus_Soleaferrea	-1.697506755	0.127904314	0.27231241	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_1	1.589127531	0.145287224	0.2996549	HM1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Turcibacter	-1.449402349	0.165422371	0.330844743	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Clostridium]_methylpentosum_group;g_[Clostridium]_methylpentosum_group	1.530185112	0.176845092	0.343287532	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter	1.508617827	0.182128537	0.343442385	HM1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Dielma	-1.383357557	0.201061003	0.394940103	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_	-1.323175747	0.208608909	0.372113189	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066575	-1.264310475	0.2312595	0.394940103	NIMM-g1->WT
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	-1.249381891	0.233373697	0.394940103	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_UBA1819	-1.196364252	0.252690272	0.413570479	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_uncultured	-1.16963908	0.256914994	0.413570479	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_uncultured	-1.102286837	0.300198735	0.471740869	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridia_vadinBB60_group;f_Clostridia_vadinBB60_group;g_Clostridia_vadinBB60_group	-0.96328753	0.349482906	0.533876526	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_uncultured	1	0.355917684	0.533876526	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_	-0.812290313	0.425262743	0.623718689	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus	0.795716089	0.454527612	0.652148313	HM1->WT
Unassigned; ; ; ; ;	-0.745262697	0.472925771	0.655657466	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_Family_XIII_AD3011_group	0.723217783	0.476841793	0.655657466	HM1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Gordonibacter	0.671621236	0.509112844	0.685764843	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Incertae_Sedis	0.605389713	0.551035729	0.727367162	HM1->WT
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	-0.588393214	0.563288887	0.728962089	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Eubacterium]_fissicatena_group	0.549987283	0.588260654	0.746638522	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas	-0.540232664	0.602026882	0.749693854	NIMM-g1->WT
d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia	-0.479388331	0.641158869	0.776990326	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Epulisicium	-0.465478698	0.647491938	0.776990326	NIMM-g1->WT
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Sutterellaceae;g_Parasutterella	-0.39162871	0.699670189	0.824611294	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Colidextribacter	-0.347661696	0.731901721	0.847465151	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium	0.261478293	0.796259814	0.891299957	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UCG-005	-0.260538174	0.796768144	0.891299957	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus	-0.176877776	0.862200909	0.935929554	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella	0.172374826	0.865025799	0.935929554	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_13	-0.151918333	0.881982787	0.938884903	NIMM-g1->WT
d_Bacteria; ; ; ; ;	0.119605242	0.906883262	0.95006818	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae	-0.064075758	0.94947373	0.968182957	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Monoglobales;f_Monoglobaceae;g_Monoglobus	0.048715273	0.961997552	0.968182957	HM1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_DTU089	0.040487162	0.968182957	0.968182957	HM1->WT





Operational Taxonomic Unit (Genus) for NIMM-g1->KO vs NIMM-g1->WT Comparison	T-value	P-value	FDR	Enriched
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_gnavus_group	9.747517304	6.73E-09	4.44E-07	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_[Clostridium]_innocuum_group	4.583874401	0.000159032	0.005248049	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_UCG-008	-4.823476523	0.000868157	0.019099452	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Monoglobales;f_Monoglobaceae;g_Monoglobus	-3.556325945	0.001707663	0.025462462	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_[Eubacterium]_coprostanoligenes_group;g_[Eubacterium]_coprostanoligenes_group	-3.631690877	0.002062062	0.025462462	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_	-3.578429343	0.002314769	0.025462462	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia	-3.040965083	0.005933843	0.055947659	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae_NK4A136_group	-2.879285755	0.017875566	0.147473423	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridia_vadinBB60_group;f_Clostridia_vadinBB60_group;g_Clostridia_vadinBB60_group	-2.513411883	0.022326006	0.163724046	NIMM-g1->WT
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Vibrionales;f_Vibrionaceae;g_Vibrio	-2.381112305	0.027144826	0.179155854	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Staphylococcales;f_Staphylococcaceae;g_Staphylococcus	-2.200388204	0.038382149	0.20808993	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	-2.200106398	0.041915882	0.20808993	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_	-2.174487418	0.044078131	0.20808993	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella	2.294676006	0.027288776	0.20808993	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_1	2.304306082	0.047293166	0.20808993	NIMM-g1->KO
Unassigned; ; ; ; ;	-2.058412178	0.054260084	0.223822846	NIMM-g1->WT
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Sutterellaceae;g_Parasutterella	-1.957228038	0.066947315	0.246400112	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_UBA1819	-1.924446848	0.068185995	0.246400112	NIMM-g1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Coriobacteriaceae;g_Collinsella	1.994736632	0.070933365	0.246400112	NIMM-g1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Muribaculaceae;g_Muribaculaceae	-1.794910476	0.090468043	0.298544541	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Incertae_Sedis	-1.897592221	0.10286771	0.305909421	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Epulisicium	-1.71650829	0.104232808	0.305909421	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospiraceae	-1.744208467	0.106604798	0.305909421	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Dielma	-1.674504721	0.113254076	0.307069328	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus	1.713621156	0.116314139	0.307069328	NIMM-g1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	-1.561384996	0.138351126	0.351199013	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Ruminococcus]_torques_group	-1.48006807	0.161093403	0.3764785	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Erysipelotrichaceae	1.539198792	0.16216034	0.3764785	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Turicibacter	-1.449402349	0.165422371	0.3764785	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066755	-1.371678652	0.197749065	0.435047943	NIMM-g1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Gordonibacter	-1.253586731	0.222613633	0.473951606	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Candidatus_Soleaferrea	-1.163419826	0.275713582	0.548036428	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_[Eubacterium]_fissicatena_group	-1.152886227	0.28006691	0.548036428	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_uncultured	-1.132695171	0.282321796	0.548036428	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas	-1.087198688	0.310640267	0.582743739	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_GCA-900066755	-1	0.331332762	0.582743739	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella	0.970670853	0.344043706	0.582743739	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter	1	0.355917684	0.582743739	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_[Clostridium]_methylpentosum_group;g_[Clostridium]_methylpentosum_group	1	0.355917684	0.582743739	NIMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_	1	0.355917684	0.582743739	NIMM-g1->KO
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia-Shigella	-0.928490344	0.367854278	0.582743739	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UCG-005	-0.928463849	0.370836925	0.582743739	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania	0.826996194	0.427102126	0.6555521	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Phocea	0.770545325	0.460627699	0.676345039	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium	-0.750606434	0.461144345	0.676345039	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_uncultured	-0.741531932	0.471685184	0.676765698	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Oscillibacter	0.653705889	0.529535731	0.743603366	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_DTU089	0.628606617	0.548469123	0.745117315	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Paludicola	0.592159563	0.56442058	0.745117315	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor	-0.587725192	0.564482814	0.745117315	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Peptostreptococcaceae;g_Clostridioides	-0.580659446	0.579961533	0.750538454	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_Family_XIII_AD3011_group	-0.544174918	0.598025363	0.759032192	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Colidextribacter	-0.51542006	0.612471653	0.762700549	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes	0.489935148	0.638669325	0.774242231	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_GCA-900066575	-0.468006719	0.645201859	0.774242231	NIMM-g1->WT
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Eggerthella	0.375326449	0.710874832	0.832007868	NIMM-g1->KO
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	-0.369345811	0.718552249	0.832007868	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_	-0.33246333	0.742570256	0.84499374	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales-Tissierellales;f_Anaerovoracaceae;g_[Eubacterium]_nodatum_group	-0.25640813	0.805336608	0.900885019	NIMM-g1->WT
d_Bacteria;p_Actinobacteriota;c_Actinobacteriia;o_Bifidobacteriales;f_Bifidobacteriaceae;g_Bifidobacterium	-0.203624349	0.840545253	0.910427701	NIMM-g1->WT
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	-0.194816141	0.848360855	0.910427701	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricoccaceae;g_Butyricoccus	0.163676679	0.871421269	0.910427701	NIMM-g1->KO
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_sensu_stricto_13	-0.151100628	0.882573638	0.910427701	NIMM-g1->WT
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Enterococcaceae;g_Enterococcus	0.150563299	0.882838983	0.910427701	NIMM-g1->KO
d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Adlercreutzia	-0.053127443	0.958447614	0.973192962	NIMM-g1->WT
d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia	-0.030585223	0.975866273	0.975866273	NIMM-g1->WT