

Effects of *Lactobacillus salivarius* isolated from feces of fast-growing pigs on intestinal microbiota and morphology of suckling piglets Joseph Moturi, Kwang Yeol Kim, Abdolreza Hosseindoust, Min Ju Kim, Jun Hyung Lee, Biao Xuan, Jong Bin Park, Eun Bae Kim, and Byung Jo Chae

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Group		G0001	G0001
Individual		s001	s002
L2	k__Archaea;p__Euryarchaeota	0.01	0.01
L2	k__Bacteria;p__Acidobacteria	0	0
L2	k__Bacteria;p__Actinobacteria	0.72	0.2
L2	k__Bacteria;p__Bacteroidetes	53.8	53.9
L2	k__Bacteria;p__Chlamydiae	0	0
L2	k__Bacteria;p__Chloroflexi	0	0
L2	k__Bacteria;p__Cyanobacteria	0	0
L2	k__Bacteria;p__Deferribacteres	0.01	0
L2	k__Bacteria;p__Elusimicrobia	0	0
L2	k__Bacteria;p__Fibrobacteres	0	0
L2	k__Bacteria;p__Firmicutes	23.4	24
L2	k__Bacteria;p__Fusobacteria	13.1	18.9
L2	k__Bacteria;p__LD1	0	0
L2	k__Bacteria;p__Lentisphaerae	0	0.01
L2	k__Bacteria;p__Planctomycetes	0	0.01
L2	k__Bacteria;p__Proteobacteria	8.88	2.81
L2	k__Bacteria;p__SR1	0	0
L2	k__Bacteria;p__Spirochaetes	0.04	0.03
L2	k__Bacteria;p__Synergistetes	0	0.01
L2	k__Bacteria;p__TM6	0	0
L2	k__Bacteria;p__TM7	0	0
L2	k__Bacteria;p__Tenericutes	0.02	0.08
L2	k__Bacteria;p__Verrucomicrobia	0	0
L2	k__Bacteria;p__WPS-2	0	0
L2	k__Bacteria;p__[Thermi]	0	0
L6	k__Archaea;p__Euryarchaeota;c__Methanobacteria;o__Methanobacteriales;f__M	0	0
L6	k__Archaea;p__Euryarchaeota;c__Methanobacteria;o__Methanobacteriales;f__M	0.01	0.01
L6	k__Archaea;p__Euryarchaeota;c__Methanobacteria;o__Methanobacteriales;f__M	0	0
L6	k__Archaea;p__Euryarchaeota;c__Thermoplasmata;o__E2;f__[Methanomassiliicoc	0	0
L6	k__Bacteria;p__Acidobacteria;c__Acidobacteriia;o__Acidobacteriales;f__Acidobact	0	0
L6	k__Bacteria;p__Acidobacteria;c__Holophagae;o__Holophagales;f__Holophagaceae	0	0
L6	k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__g__	0	0
L6	k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinom	0	0
L6	k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinom	0	0
L6	k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinom	0	0
L6	k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinom	0	0
L6	k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinom	0	0
L6	k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Beutenb	0	0
L6	k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Brevibac	0	0
L6	k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Coryneb	0.14	0.04



L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae	15.3	34.7
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonac	0.02	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonac	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonac	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonac	0.63	0.67
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonac	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;;	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;;	28.6	1.57
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__RF16;g__	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g	0.04	0.12
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__S24-7;g__	3.04	8.36
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Barnesiellaceae	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Odoribacterace	5.33	6.64
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Odoribacterace	0.01	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotella	0.01	0.11
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotella	0.19	0.03
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotella	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotella	0.01	0.01
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotella	0.11	0.77
L6	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__p-2534-18B5;g_	0.3	0.49
L6	k__Bacteria;p__Bacteroidetes;c__Cytophagia;o__Cytophagales;f__Cytophagaceae;	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Cytophagia;o__Cytophagales;f__[Amoebophilace	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__Flavobacte	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__Flavobacte	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__[Weeksell	0.01	0
L6	k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__[Weeksell	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__[Weeksell	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__[Weeksell	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__[Weeksell	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Sphingobacteriia;o__Sphingobacteriales;f__Sphir	0	0
L6	k__Bacteria;p__Bacteroidetes;c__Sphingobacteriia;o__Sphingobacteriales;f__Sphir	0	0
L6	k__Bacteria;p__Bacteroidetes;c__[Saprospirae];o__[Saprospirales];f__Chitinophag	0	0
L6	k__Bacteria;p__Bacteroidetes;c__[Saprospirae];o__[Saprospirales];f__Chitinophag	0	0.01
L6	k__Bacteria;p__Bacteroidetes;c__[Saprospirae];o__[Saprospirales];f__Chitinophag	0	0
L6	k__Bacteria;p__Chlamydiae;c__Chlamydiia;o__Chlamydiales;f__Chlamydiaceae;g__	0	0
L6	k__Bacteria;p__Chloroflexi;c__Anaerolineae;o__Anaerolineales;f__Anaerolinaceae	0	0
L6	k__Bacteria;p__Chloroflexi;c__Anaerolineae;o__Anaerolineales;f__Anaerolinaceae	0	0
L6	k__Bacteria;p__Chloroflexi;c__Thermomicrobia;o__JG30-KF-CM45;f__g__	0	0
L6	k__Bacteria;p__Cyanobacteria;c__4C0d-2;o__YS2;f__g__	0	0
L6	k__Bacteria;p__Cyanobacteria;c__Chloroplast;o__Streptophyta;f__g__	0	0
L6	k__Bacteria;p__Deferribacteres;c__Deferribacteres;o__Deferribacterales;f__Defer	0.01	0
L6	k__Bacteria;p__Elusimicrobia;c__Elusimicrobia;o__Elusimicrobiales;f__Elusimicrob	0	0
L6	k__Bacteria;p__Elusimicrobia;c__Elusimicrobia;o__Elusimicrobiales;f__Elusimicrob	0	0
L6	k__Bacteria;p__Elusimicrobia;c__Endomicrobia;o__f__g__	0	0
L6	k__Bacteria;p__Fibrobacteres;c__Fibrobacteria;o__Fibrobacterales;f__Fibrobacter	0	0
L6	k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__g__	0	0

L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Bacillaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Bacillaceae;g__Anaerobacillu	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Bacillaceae;g__Anoxybacillus	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Bacillaceae;g__Bacillus	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Bacillaceae;g__Salimicrobiun	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Planococcaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Planococcaceae;g__Lysinibac	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Planococcaceae;g__Planomic	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Planococcaceae;g__Rummeli	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Planococcaceae;g__Solibacill	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Planococcaceae;g__Sporosar	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Staphylococcaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Staphylococcaceae;g__Jeotg	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Staphylococcaceae;g__Macro	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Staphylococcaceae;g__Salini	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Staphylococcaceae;g__Staph	0.02	0.01
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f__[Exiguobacteraceae];g__Exigi	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Gemellales;f__;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Gemellales;f__Gemellaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Gemellales;f__Gemellaceae;g__Gemella	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Aerococcaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Aerococcaceae;g__Aerc	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Aerococcaceae;g__Alka	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Aerococcaceae;g__Alloi	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Aerococcaceae;g__Fack	0	0.01
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Carnobacteriaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Carnobacteriaceae;g__(	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Carnobacteriaceae;g__l	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Carnobacteriaceae;g__(	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Carnobacteriaceae;g__l	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Enterococcaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Enterococcaceae;g__En	0.02	0.03
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Enterococcaceae;g__Va	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Lactobacillaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Lactobacillaceae;g__Lac	2.2	2.07
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Lactobacillaceae;g__Pec	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Leuconostocaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Leuconostocaceae;g__L	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Leuconostocaceae;g__V	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Streptococcaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Streptococcaceae;g__La	0	0
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f__Streptococcaceae;g__St	1.71	1.1
L6	k_Bacteria;p_Firmicutes;c_Bacilli;o_Turicibacterales;f__Turicibacteraceae;g__	0.02	0.02
L6	k_Bacteria;p_Firmicutes;c_Clostridia;o__;f__;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f__;g__	1.96	5.83
L6	k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f__Christensenellaceae;g__	0.11	0.16
L6	k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f__Christensenellaceae;g__	0	0
L6	k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f__Clostridiaceae;g__	0.53	0.28
L6	k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f__Clostridiaceae;g__02d	0	0

L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Can	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clos	4.43	2.31
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Prot	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__SME	0.14	0.07
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Sarc	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Dehalobacteriaceae;g__	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Dehalobacteriaceae;g__	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__EtOH8;g__	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Eubacteriaceae;g__An	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Eubacteriaceae;g__Pse	0.01	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__	1.15	1.16
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__A	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__B	0.05	0.04
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__B	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__C	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__C	0.07	0.04
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__D	0.26	0.76
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__E	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__L	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__L	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__P	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__R	0.01	0.07
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__S	0.02	0.01
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[F	0.3	0.81
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__D	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__Pe	0.01	0.01
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__rc	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptostreptococcacea	0.05	0.01
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptostreptococcacea	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptostreptococcacea	0.13	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptostreptococcacea	2.06	0.22
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0.62	2.71
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0	0.02
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0.48	0.49
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0.02	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0.02	0.02
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0.78	2.21
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0.08	1.32
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__	0.02	0.03
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Aci	0.02	0.01
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__An	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Dia	1.17	0.01
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Me	0.37	0.09
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Mit	0.02	0.02
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Ph	1.13	1.51
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Sel	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Sp	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Suc	0	0

L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Suc	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Vei	2.25	0.05
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Acidaminobacteracea	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Mogibacteriaceae];g__	0.1	0.03
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Mogibacteriaceae];g__	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Mogibacteriaceae];g__	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__1-	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Ar	0.34	0.01
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Fi	0.02	0.01
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__G\	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Ga	0	0.02
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__He	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Pa	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Pe	0.11	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Ti	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__W	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__pf	0	0
L6	k__Bacteria;p__Firmicutes;c__Clostridia;o__SHA-98;f__;g__	0	0
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0.01	0.01
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0.29	0.02
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0	0
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0	0
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0	0
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0	0
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0	0
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0	0
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0.02	0.02
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0.15	0.11
L6	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotric	0.07	0.25
L6	k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Fusobacteria	0.04	0.12
L6	k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Fusobacteria	0	0
L6	k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Fusobacteria	13	18.8
L6	k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Leptotrichia	0	0
L6	k__Bacteria;p__LD1;c__;o__;f__;g__	0	0
L6	k__Bacteria;p__Lentisphaerae;c__[Lentisphaeria];o__Victivallales;f__Victivallaceae	0	0
L6	k__Bacteria;p__Lentisphaerae;c__[Lentisphaeria];o__Victivallales;f__Victivallaceae	0	0
L6	k__Bacteria;p__Lentisphaerae;c__[Lentisphaeria];o__Z20;f__R4-45B;g__	0	0
L6	k__Bacteria;p__Planctomycetes;c__Planctomycetia;o__Gemmatales;f__Isosphaera	0	0
L6	k__Bacteria;p__Planctomycetes;c__Planctomycetia;o__Pirellulales;f__Pirellulaceae	0	0.01
L6	k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__;f__;g__	0	0
L6	k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__BD7-3;f__;g__	0	0
L6	k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacterales;f__Ca	0	0
L6	k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacterales;f__Ca	0	0
L6	k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacterales;f__Ca	0	0
L6	k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacterales;f__Ca	0	0
L6	k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__RF32;f__;g__	0	0
L6	k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__;g__	0	0









L6	k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__	0	0.02
L6	k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__	0	0
L6	k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__	0	0
L6	k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__	0	0
L6	k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__	0	0
L6	k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__	0	0
L6	k__Bacteria;p__SR1;c__o__f__g__	0	0
L6	k__Bacteria;p__Spirochaetes;c__MVP-15;o__PL-11B10;f__g__	0	0
L6	k__Bacteria;p__Spirochaetes;c__Spirochaetes;o__Sphaerochaetales;f__Sphaeroch	0.01	0
L6	k__Bacteria;p__Spirochaetes;c__Spirochaetes;o__Spirochaetales;f__Spirochaetace	0	0
L6	k__Bacteria;p__Spirochaetes;c__Spirochaetes;o__Spirochaetales;f__Spirochaetace	0.03	0.03
L6	k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Dethiosulfovibrio	0	0
L6	k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Dethiosulfovibrio	0	0
L6	k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Synergistaceae;g__	0	0.01
L6	k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Synergistaceae;g__	0	0
L6	k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Synergistaceae;g__	0	0
L6	k__Bacteria;p__TM6;c__SJA-4;o__f__g__	0	0
L6	k__Bacteria;p__TM7;c__TM7-3;o__f__g__	0	0
L6	k__Bacteria;p__TM7;c__TM7-3;o__CW040;f__g__	0	0
L6	k__Bacteria;p__TM7;c__TM7-3;o__CW040;f__F16;g__	0	0
L6	k__Bacteria;p__TM7;c__TM7-3;o__EW055;f__g__	0	0
L6	k__Bacteria;p__Tenericutes;c__Mollicutes;o__Acholeplasmatales;f__g__	0	0
L6	k__Bacteria;p__Tenericutes;c__Mollicutes;o__Anaeroplasmatales;f__Anaeroplasm	0	0
L6	k__Bacteria;p__Tenericutes;c__Mollicutes;o__Anaeroplasmatales;f__Anaeroplasm	0	0
L6	k__Bacteria;p__Tenericutes;c__Mollicutes;o__RF39;f__g__	0.02	0.08
L6	k__Bacteria;p__Tenericutes;c__RF3;o__ML615J-28;f__g__	0	0
L6	k__Bacteria;p__Verrucomicrobia;c__Opitutae;o__Opitutales;f__Opitutaceae;g__	0	0
L6	k__Bacteria;p__Verrucomicrobia;c__Opitutae;o__[Cerasicoccales];f__[Cerasicocca	0	0
L6	k__Bacteria;p__Verrucomicrobia;c__Verruco-5;o__WCHB1-41;f__RFP12;g__	0	0
L6	k__Bacteria;p__Verrucomicrobia;c__Verruco-5;o__WCHB1-41;f__WCHB1-25;g__	0	0
L6	k__Bacteria;p__Verrucomicrobia;c__Verrucomicrobiae;o__Verrucomicrobiales;f__	0	0
L6	k__Bacteria;p__Verrucomicrobia;c__Verrucomicrobiae;o__Verrucomicrobiales;f__	0	0
L6	k__Bacteria;p__WPS-2;c__o__f__g__	0	0
L6	k__Bacteria;p__[Thermi];c__Deinococci;o__Deinococcales;f__Deinococcaceae;g__	0	0

G0001	G0001	G0001	G0001	G0001	G0001	G0001	G0001	G0002	G0002	G0002	G0002	G0002	G0002	G0002
s003	s004	s005	s006	s007	s008	s009	s011	s012	s013	s014	s015	s016	s017	s018
0	0.17	0.17	0.04	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.88	1.51	2.03	4.88	0.19	0.46	0.58	0.53	0.19	1.1	0.26	0.54	0.51	0.42	0.65
44.1	43.1	43.1	31.3	52.6	53.3	38.5	38.7	54.3	51.6	57.1	38.7	46	43.8	49.4
0	0	0	0	0.04	0	0	0	0	0	0	0	0	0	0
0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.02	0.01	0.37	0	0.01	0	0	0	0.01	0	0	0.01	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.02	0.01	0	0	0	0	0	0	0	0	0	0	0	0
25.6	39.3	37	31.2	33.5	26.1	35.7	26.1	22.5	38.3	23.8	27.9	15.3	16.4	33.3
18.6	0.58	2.92	13.6	7.25	16.2	21.6	15.4	16.6	2.69	14.8	20.4	28.1	29	12.7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.22	0.15	0	0	0	0	0	0	0	0.01	0	0	0	0
0.01	0.56	0.48	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0	0	0	0
10.8	13.3	13.2	18.5	6.36	3.87	3.53	19.2	6.28	6.18	3.98	12.3	10.1	10.3	3.94
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.29	0.25	0.02	0.02	0.03	0.02	0.04	0.04	0.02	0.02	0.03	0.01	0.01	0.01
0	0.13	0.14	0	0	0	0	0	0	0	0	0	0.01	0.01	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.01	0.08	0.05	0.01	0	0	0	0	0	0	0	0	0.01	0.01	0
0.01	0.61	0.41	0.08	0.04	0.03	0.03	0.04	0.03	0.09	0.03	0.05	0.01	0.02	0.01
0	0.09	0.06	0.01	0	0	0.01	0	0	0	0	0	0.01	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.11	0.14	0.04	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.04	0.03	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.04	0.03	0.14	0.66	0	0.03	0.01	0	0.01	0.03	0	0.01	0	0	0
0	0	0	0.01	0.01	0	0	0.01	0	0	0	0	0	0.01	0
0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0
0	0.01	0.01	0.02	0	0.01	0	0	0	0.01	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.02	0	0.03	0	0	0	0	0	0	0	0	0	0	0
0.09	0.39	0.15	2.29	0.06	0.05	0.03	0.02	0.02	0.03	0.01	0.06	0.07	0.05	0.04













0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.29	0.03	0.02	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.03	0.01	0.03	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0.01	0.04	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0
0	0.02	0.01	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0
0.01	0.13	0.09	0.08	0	0.01	0	0	0	0	0	0	0.01	0.01	0
0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.28	0.27	1.01	0.05	0.1	0.2	0.43	0.61	1.19	0.1	0.08	0.09	0.34	0.33	1.14
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.64	7.5	5.93	4.2	0.07	0.29	0.27	0.07	0.08	0.03	0.05	0.14	3.64	3.56	0.33
0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.03	0	0	0	0	0	0	0	0	0	0	0	0.02	0.02	0
0.01	0	0	0	0	0	0	0	0	0	0	0	0.01	0.02	0
0.19	0.01	0.02	0	0	0.01	0.01	0	0.01	0	0	0	0.31	0.3	0.02
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.01	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0
0.01	0	0	0	0	0	0	0	0	0	0	0	0.02	0.01	0
0.81	0.04	0.09	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	1.32	1.61	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.01	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.03	0.02	0.01	0	0	0	0	0	0	0	0	0	0	0
0	0.14	0.11	0.09	0	0	0.01	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.03	0	0.01	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.01	0.01	0	0.05	0	0	0	0	0	0	0	0	0	0
0.02	0.29	0.2	0.05	0	0	0.03	0.01	0.01	0.06	0.02	0.05	0.01	0	0.03
0.64	0.06	0.13	0.06	0.8	0.55	0.3	0.04	0.07	0.01	0.03	0.02	0.2	0.18	0.14
2.34	1.57	1.55	0.62	1.04	0.54	1.14	0.19	0.68	2.06	1.29	0.15	1.34	1.18	1.11
0	0.31	0.19	0.3	0	0	0	0.02	0	0.04	0	0.01	0	0	0
0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.03	0.27	2.43	1.84	0.63	0.94	0.1	16.1	0.31	0.81	0.15	10.9	0.08	0.1	0.3
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.05	0.02	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0





G0002	G0002	G0003	G0003	G0003	G0003	G0003	G0003	G0003	G0003	G0003_T2
s019	s020	s021	s022	s023	s024	s025	s026	s027	s028	s029
0	2.5	0.01	0.01	0.01	0.04	0.01	0.01	0.02	0.01	0.01
0	0	0	0	0	0	0	0	0	0	0
0.1	0.57	0.27	0.12	0.23	0.19	0.5	1.01	0.51	0.34	0.53
45	21.4	32	47.2	41.6	49.6	43	50.2	59.4	29.8	64.3
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0.01	0	0	0	0	0
0	0.07	0	0	0	0.03	0.01	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0.01	0	0	0	0	0.03	0	0.02	0.01	0
0	0.01	0	0	0.01	0.12	0	0	0	0	0
15.7	62.6	15.8	16.7	15.7	20.9	19.5	28.5	21.9	23.8	24.9
25.6	0.84	41.1	22.4	35.2	23.9	21.8	16.5	11.1	41.7	7.67
0	0	0	0	0	0	0	0	0	0	0
0	0.04	0	0	0	0.02	0	0.02	0	0.02	0
0.01	0.07	0	0	0	0	0	0	0.01	0	0
13.5	5.91	10.8	13.6	6.96	4.94	15	3.55	6.92	4.28	2.48
0	0	0	0	0	0.03	0	0	0	0	0
0.02	3.32	0.03	0.01	0.15	0.09	0.02	0.02	0.03	0.01	0.02
0	0.03	0	0	0	0	0	0.22	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0.02	0.02	0	0	0.01	0	0	0	0	0
0.02	2.36	0.04	0.07	0.08	0.06	0.07	0.01	0.02	0.04	0.03
0.02	0.23	0	0	0.02	0.03	0.01	0	0	0	0
0	0	0	0	0	0.01	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	2.46	0	0	0.01	0.02	0.01	0.01	0.02	0.01	0.01
0	0	0	0	0	0	0	0	0	0	0
0	0.04	0	0	0	0.02	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0.01	0	0	0	0	0.01	0	0	0	0
0	0	0	0	0	0.01	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0.02	0.01	0.06	0.05	0.15	0.01	0.26	0.03	0.08	0.02	0.02









0	0	0	0	0	0	0	0	0	0	0
3.78	2.59	2.12	5.04	3.89	2.52	9.68	1.06	4.63	0.65	2.15
0	0	0	0	0	0	0	0	0	0	0
0.09	3.39	0.12	0.13	0.09	0.03	0.27	0.03	0.11	0.03	0.03
0	0.01	0	0	0	0	0	0	0	0	0
0	0.03	0.01	0	0	0	0	0	0	0	0
0	0.04	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0.01	0	0	0	0	0	0	0	0	0
0	0.01	0	0	0	0	0	0	0.01	0	0
1.5	1.25	1.95	0.66	0.81	0.88	0.54	0.53	1.97	0.53	1.19
0	0	0	0	0	0	0	0	0	0	0
0.03	0.05	0.02	0.02	0.01	0.06	0.03	0.11	0.1	0.02	0.07
0	0.01	0	0	0	0.02	0	0	0	0	0
0	0.01	0	0	0	0	0	0	0	0	0
0.03	0.07	0.04	0.03	0.06	0.1	0.02	0.01	0.16	0.01	0.09
0.03	0.04	0.15	0.18	0.32	0.64	0.11	0.03	0.23	0.08	0.3
0	0.02	0	0	0.01	0.04	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0.02	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0.01	0	0.01	0	0.01	0.07	0	0.01	0	0.03
0.01	2.33	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0
0.14	0.08	0.31	0.33	0.31	1.56	0.47	0.22	2.05	0.21	0.85
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0.08	0	0.01	0	0	0.03	0	0.01	0.01	0.01
0	0	0	0	0	0	0	0	0	0	0
0.01	0.05	0.01	0.05	0.01	0.01	0.01	0	0.02	0.01	0
0	0	0	0	0	0	0	0	0	0	0
0.01	0	0.01	0.02	0.09	0.06	0.08	0	0.06	0.01	0.02
0.11	0.03	0.19	0.36	0.1	0.59	0.41	0.11	0.23	0.02	0.06
1.09	10.7	0.49	0.71	0.67	2.52	0.82	0.46	1.74	0.56	1.45
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0.02	0.02	0
0.11	0.03	0.2	0.44	0.29	1.06	0.25	0.29	0.27	0.32	0.53
0.01	0	0.01	0.01	0	0.01	0	0	0.02	0	0
0.02	0.02	0	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.9
0.54	0.33	1.18	0.6	0.42	1.91	0.25	0.71	1.47	0.57	0.94
1.13	0.53	0.05	2.28	0.1	0.45	0.13	0.09	0.63	0.07	0.52
0.02	2.76	0.02	0.01	0.06	0.01	0.04	0.05	0.03	0.02	0.02
0.01	1.26	0.03	0.14	0.01	0.01	0.04	0.81	0.04	0.56	0.01
0	0.02	0	0.02	0	0	0.04	0	0	0	0
0.01	0.13	0.02	0	0.03	0.01	0.01	0.18	0.02	0.02	0
0.04	0.6	1.66	0.13	0.07	0.05	0.1	8.96	0.11	9.55	0.06
0.01	0.21	0.02	0.02	0.02	0.01	0.04	2.65	0.02	0.02	0.29
0.33	0.78	0.33	0.7	0.31	0.03	0.46	0.12	2.04	0.23	0.51
0	0.01	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0.03	0	0	0	0	0









