d:Archaea,p:Euryarchaeota,c:Methanobacteria,o:Methanobacteriales;Other d:Archaea,p:Euryarchaeota,c:Methanobacteria,o:Methanobacteriales,f:Methanobacteriaceae;Other d:Archaea,p:Euryarchaeota,c:Methanobacteria,o:Methanobacteriales,f:Methanobacteriaceae,g:Methanobrevibacter;Other d:Archaea,p:Euryarchaeota,c:Methanobacteria,o:Methanobacteriales,f:Methanobacteriaceae,g:Methanosphaera;Other  $d: Archaea, p: Euryarchaeota, c: Thermoplas mata, o: Thermoplas matales, f: Thermoplas matales\_Incertae\_Sed is\_250; Othermoplas matales\_Incertae\_Sed is\_250; O$ d:Archaea,p:Euryarchaeota,c:Thermoplasmata,o:Thermoplasmatales,f:Thermoplasmatales\_Incertae\_Sedis\_250,g:Unknown\_Genus\_1000082;Other d:Bacteria;Other  $\qquad \qquad \text{d:Bacteria,p:Acidobacteria,c:Acidobacteria,o:Acidobacteriales,f:Acidobacteriaceae\_Subgroup\_1\_;Other \\$ d:Bacteria,p:Acidobacteria,c:Acidobacteria,o:Acidobacteriales,f:Acidobacteriaceae\_\_Subgroup\_1\_,g:uncultured\_335;Other d:Bacteria,p:Acidobacteria,c:Acidobacteria,o:Subgroup\_2,f:Unknown\_Family\_1002137,g:Unknown\_Genus\_1000148;Other d:Bacteria,p:Actinobacteria;Other d:Bacteria,p:Actinobacteria,c:Acidimicrobiia,o:Acidimicrobiales;Other d:Bacteria,p:Actinobacteria,c:Acidimicrobiia,o:Acidimicrobiales,f:Acidimicrobiaceae,g:Illumatobacter;Other d:Bacteria,p:Actinobacteria,c:Acidimicrobiia,o:Acidimicrobiales,f:Acidimicrobiaceae,g:uncultured\_409;Other d:Bacteria,p:Actinobacteria,c:Acidimicrobiia,o:Acidimicrobiales,f:Acidimicrobiales\_Incertae\_Sedis\_410,g:Candidatus\_Microthrix;Other d:Bacteria,p:Actinobacteria,c:Acidimicrobiia,o:Acidimicrobiales,f:lamiaceae,g:lamia;Other  $\textbf{d}: Bacteria, p: Actino bacteria, c: Acidimicrobiia, o: Acidimicrobiales, f: Unknown\_Family\_1002159, g: Unknown\_Genus\_1000186; Other actions and the property of the prope$ d:Bacteria,p:Actinobacteria,c:Actinobacteria;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Actinomycetales;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Bifidobacteriales;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Bifidobacteriales,f:Bifidobacteriaceae;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Corynebacteriales,f:Dietziaceae,g:Dietzia;Other  ${\tt d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Corynebacteriales,f:Mycobacteriaceae,g:Mycobacterium;Other}$ d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Corynebacteriales,f:Nocardiaceae,g:Nocardia;Other  $\qquad \text{d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Corynebacteriales,f:Nocardiaceae,g:Rhodococcus;Other actions of the control of the cont$ d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Corynebacteriales,f:Nocardiaceae,g:Williamsia;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Frankiales;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Frankiales,f:Cryptosporangiaceae,g:Fodinicola;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Frankiales,f:Geodermatophilaceae,g:Blastococcus;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Glycomycetales,f:Glycomycetaceae,g:Glycomyces;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales;Other  $\qquad \text{d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Bogoriellaceae;Other } \\$ d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Brevibacteriaceae,g:Brevibacterium;Other  $\qquad \text{d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Cellulomonadaceae,g:Cellulomonas;Other } \\$ d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Dermabacteraceae;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Microbacteriaceae;Other  ${\tt d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Microbacteriaceae,g:Agromyces;Other}$ d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Microbacteriaceae,g:Microbacterium;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Microbacteriaceae,g:Mycetocola;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Micrococcaceae,g:Arthrobacter;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Promicromonosporaceae,g:Cellulosimicrobium;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micrococcales,f:Promicromonosporaceae,g:Promicromonospora;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micromonosporales;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micromonosporales,f:Micromonosporaceae,g:Pilimelia;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Micromonosporales,f:Micromonosporaceae,g:Stackebrandtia;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Propionibacteriales,f:Nocardioidaceae;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Propionibacteriales,f:Nocardioidaceae,q:Aeromicrobium;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Propionibacteriales,f:Nocardioidaceae,g:Mumia;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Propionibacteriales,f:Nocardioidaceae,g:Nocardioides;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Propionibacteriales,f:Propionibacteriaceae;Other d: Bacteria, p: Actino bacteria, c: Actino bacteria, o: Propioni bacteria les, f: Propioni bacteria ceae, g: Microlunatus; Other actions of the propioni bacteria p: Actino bacteria, p:d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Pseudonocardiales,f:Pseudonocardiaceae,g:Actinophytocola;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Pseudonocardiales,f:Pseudonocardiaceae,g:Pseudonocardia;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Pseudonocardiales,f:Pseudonocardiaceae,g:Saccharopolyspora;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:RL185\_aaj71c12,f:Unknown\_Family\_1002167,g:Unknown\_Genus\_1000218;Other  $\qquad \text{d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Streptomycetales,f:Streptomycetaceae,g:Kitasatospora;Other } \\$ d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Streptomycetales,f:Streptomycetaceae,g:Streptomyces;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Streptosporangiales,f:Nocardiopsaceae,g:Nocardiopsis;Other d: Bacteria, p: Actinobacteria, c: Actinobacteria, o: Streptos por angiales, f: Streptos por angiaceae, g: No no mura ea; Other actions and the property of the property ${\tt d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Streptosporangiales,f:Streptosporangiaceae,g:Streptosporangium;Other}$ d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Streptosporangiales,f:Thermomonosporaceae,g:Actinocorallia;Other d:Bacteria,p:Actinobacteria,c:Actinobacteria,o:Streptosporangiales,f:Thermomonosporaceae,g:Actinomadura;Other d:Bacteria,p:Actinobacteria,c:Coriobacteriia;Other d:Bacteria,p:Actinobacteria,c:Coriobacteriia,o:Coriobacteriales;Other d:Bacteria,p:Actinobacteria,c:Coriobacteriia,o:Coriobacteriales,f:Coriobacteriaceae;Other d:Bacteria,p:Actinobacteria,c:Coriobacteriia,o:Coriobacteriales,f:Coriobacteriaceae,g:Atopobium;Other  $\qquad \text{d:Bacteria,p:Actinobacteria,c:Coriobacteria,o:Coriobacteriales,f:Coriobacteriaceae,g:uncultured\_826;Other actions and the state of the state$ d:Bacteria,p:Actinobacteria,c:Thermoleophilia,o:Solirubrobacterales;Other d:Bacteria,p:Actinobacteria,c:Thermoleophilia,o:Solirubrobacterales,f:480\_2,g:Unknown\_Genus\_1000238;Other d:Bacteria,p:Actinobacteria,c:Thermoleophilia,o:Solirubrobacterales,f:Conexibacteraceae,g:Conexibacter;Other d:Bacteria,p:Actinobacteria,c:Thermoleophilia,o:Solirubrobacterales,f:Patulibacteraceae,g:Patulibacter;Other d:Bacteria,p:Armatimonadetes,c:Unknown\_Class\_1002196;Other d:Bacteria,p:Bacteroidetes;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Bacteroidales\_BS11\_gut\_group,g:Unknown\_Genus\_1000265;Other  $d: Bacteria, p: Bacteroidetes, c: Bacteroidia, o: Bacteroidales, f: Bacteroidales \_RF16\_group; Otheroidales \_RF16\_group;$ d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Bacteroidales\_RF16\_group,g:Unknown\_Genus\_1000266;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Bacteroidales\_S24\_7\_group;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Bacteroidales\_S24\_7\_group,g:Unknown\_Genus\_1000267;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:M2PB4\_65\_termite\_group;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae,g:Barnesiella;Other  $\qquad \text{d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae,g:Dysgonomonas;Otheroidetes,c:Bacteroidet$  $\qquad \text{d:} Bacteria, p: Bacteroidetes, c: Bacteroidia, o: Bacteroidales, f: Porphyromonadaceae, g: Odoribacter; Otheroidetes, description of the property of t$ d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae,g:Parabacteroides;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae,g:uncultured 959;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Alloprevotella;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella\_1;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae\_Ga6A1\_group;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae\_NK3B31\_group;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae\_UCG\_001;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae\_UCG\_003;Other  $\qquad \text{d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae\_UCG\_004;Otheroidetes,c:Bacteroidetes,c:Bacteroidetes,c:Bacteroidetes,f:Prevotellaceae,g:Prevote$  $d: Bacteria, p: Bacteroidetes, c: Bacteroidia, o: Bacteroidales, f: Prevotellaceae, g: Prevotellaceae \_YAB2003 \_group; Other \_SAB2003 \_$ d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:uncultured\_964;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Alistipes;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Rikenellaceae\_RC9\_gut\_group;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:U29\_B03;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:Unknown\_Family\_1002210;Other d:Bacteria,p:Bacteroidetes,c:Bacteroidia,o:Bacteroidales,f:p\_2534\_18B5\_gut\_group,g:Unknown\_Genus\_1000280;Other d:Bacteria,p:Bacteroidetes,c:Cytophagia,o:Cytophagales;Other d: Bacteria, p: Bacteroidetes, c: Cytophagia, o: Cytophagales, f: Cyclobacteria ceae; Other and the control of the control od:Bacteria,p:Bacteroidetes,c:Cytophagia,o:Cytophagales,f:Cyclobacteriaceae,g:Algoriphagus;Other d:Bacteria,p:Bacteroidetes,c:Cytophagia,o:Cytophagales,f:Cytophagaceae,g:Cytophaga;Other d:Bacteria,p:Bacteroidetes,c:Cytophagia,o:Cytophagales,f:Cytophagaceae,g:Dyadobacter;Other d:Bacteria,p:Bacteroidetes,c:Cytophagia,o:Cytophagales,f:Cytophagaceae,g:Pontibacter;Other d:Bacteria,p:Bacteroidetes,c:Cytophagia,o:Cytophagales,f:Cytophagaceae,g:Sporocytophaga;Other d:Bacteria,p:Bacteroidetes,c:Cytophagia,o:Cytophagales,f:Flammeovirgaceae,g:Candidatus\_Amoebophilus;Other  ${\tt d:Bacteria,p:Bacteroidetes,c:Cytophagia,o:Cytophagales,f:Flammeovirgaceae,g:Candidatus\_Cardinium;Other}$ d:Bacteria,p:Bacteroidetes,c:Flavobacteriia,o:Flavobacteriales;Other  ${\tt d:Bacteria,p:Bacteroidetes,c:Flavobacteriia,o:Flavobacteriales,f:Cryomorphaceae,g:Fluviicola;Othernoidete$ d:Bacteria,p:Bacteroidetes,c:Flavobacteriia,o:Flavobacteriales,f:Flavobacteriaceae;Other  $\qquad \text{d:Bacteria,p:Bacteroidetes,c:Flavobacteriia,o:Flavobacteriales,f:Flavobacteriaceae,g:Chryseobacterium;Other } \\$ d: Bacteria, p: Bacteroidetes, c: Flavobacteriia, o: Flavobacteriales, f: Flavobacteriaceae, g: Flavobacterium; Other all proposed for the proposed for thd:Bacteria,p:Bacteroidetes,c:Flavobacteriia,o:Flavobacteriales,f:Flavobacteriaceae,g:Moheibacter;Other d:Bacteria,p:Bacteroidetes,c:Flavobacteriia,o:Flavobacteriales,f:Flavobacteriaceae,g:Myroides;Other d:Bacteria,p:Bacteroidetes,c:Flavobacteriia,o:Flavobacteriales,f:Flavobacteriaceae,g:Unknown\_Genus\_1000314;Other d:Bacteria,p:Bacteroidetes,c:Sphingobacteriia;Other d:Bacteria,p:Bacteroidetes,c:Sphingobacteriia,o:Sphingobacteriales,f:Chitinophagaceae;Other d:Bacteria,p:Bacteroidetes,c:Sphingobacteriia,o:Sphingobacteriales,f:Chitinophagaceae,g:Flavisolibacter;Other d: Bacteria, p: Bacteroidetes, c: Sphingobacteriia, o: Sphingobacteriales, f: Chitinophagaceae, g: Flavitalea; Other and a contract of the cd:Bacteria,p:Bacteroidetes,c:Sphingobacteriia,o:Sphingobacteriales,f:Chitinophagaceae,g:Parafilimonas;Other d:Bacteria,p:Bacteroidetes,c:Sphingobacteriia,o:Sphingobacteriales,f:Chitinophagaceae,g:Segetibacter;Other d:Bacteria,p:Bacteroidetes,c:Sphingobacteriia,o:Sphingobacteriales,f:Chitinophagaceae,g:Taibaiella;Other d:Bacteria,p:Bacteroidetes,c:Sphingobacteriia,o:Sphingobacteriales,f:Chitinophagaceae,g:uncultured\_1252;Other  $\qquad \text{d:} Bacteria, p: Bacteroidetes, c: Sphingobacteriia, o: Sphingobacteriales, f: Sphingobacteriaceae; Other all properties of the pro$ d:Bacteria,p:Bacteroidetes,c:Sphingobacteriia,o:Sphingobacteriales,f:Sphingobacteriaceae,g:Sphingobacterium;Other d:Bacteria,p:Candidate\_division\_SR1,c:Unknown\_Class\_1002234,o:Unknown\_Order\_1002235,f:Unknown\_Family\_1002236,g:Unknown\_Genus\_1000355;Other d:Bacteria,p:Chlamydiae,c:Chlamydiae,o:Chlamydiales;Other  $\qquad \qquad \text{d:Bacteria,p:Chlamydiae,c:Chlamydiae,o:Chlamydiales,f:Parachlamydiaceae,g:Candidatus\_Protochlamydia;Other \\$  ${\tt d:Bacteria,p:Chlamydiae,c:Chlamydiae,o:Chlamydiales,f:Parachlamydiaceae,g:Neochlamydia;Other}$ d:Bacteria,p:Chloroflexi,c:Anaerolineae,o:Anaerolineales,f:Anaerolineaceae;Other d:Bacteria,p:Chloroflexi,c:Anaerolineae,o:Anaerolineales,f:Anaerolineaceae,g:uncultured\_1395;Other d:Bacteria,p:Chloroflexi,c:Thermomicrobia;Other d:Bacteria,p:Chloroflexi,c:Thermomicrobia,o:JG30\_KF\_CM45,f:Unknown\_Family\_1002292,g:Unknown\_Genus\_1000421;Other d:Bacteria,p:Cyanobacteria,c:Melainabacteria,o:Gastranaerophilales;Other d:Bacteria,p:Cyanobacteria,c:Melainabacteria,o:Gastranaerophilales,f:Unknown\_Family\_1002341;Other d:Bacteria,p:Cyanobacteria,c:Melainabacteria,o:Gastranaerophilales,f:Unknown\_Family\_1002341,g:Unknown\_Genus\_1000451;Other d:Bacteria,p:Deferribacteres,c:Deferribacteres,o:Deferribacterales;Other d:Bacteria,p:Elusimicrobia,c:Elusimicrobia,o:Elusimicrobiales,f:Elusimicrobiaceae,g:Elusimicrobium;Other d:Bacteria,p:Fibrobacteres,c:Fibrobacteria,o:Fibrobacterales,f:Fibrobacteraceae;Other d:Bacteria,p:Firmicutes;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Bacillaceae;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Bacillaceae,g:Bacillus;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Paenibacillaceae;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Paenibacillaceae,g:Cohnella;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Paenibacillaceae,g:Paenibacillus;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Planococcaceae;Other d: Bacteria, p: Firmicutes, c: Bacilli, o: Bacillales, f: Planococcaceae, g: Domibacillus; Other and a comparison of the property of the prod:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Staphylococcaceae,g:Staphylococcus;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Thermoactinomycetaceae,g:Shimazuella;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Carnobacteriaceae,g:Desemzia;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Enterococcaceae,g:Enterococcus;Other d:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus;Other d:Bacteria,p:Firmicutes,c:Clostridia;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Christensenellaceae;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Christensenellaceae,g:Christensenellaceae\_R\_7\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae\_1;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae\_1,g:Clostridium\_sensu\_stricto\_1;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae\_1,g:Clostridium\_sensu\_stricto\_13;Other  $d: Bacteria, p: Firmicutes, c: Clostridia, o: Clostridiales, f: Clostridiaceae\_1, g: Clostridium\_sensu\_stricto\_3; Other and the control of the control of$ d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiales\_vadinBB60\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiales\_vadinBB60\_group,g:Unknown\_Genus\_1000514;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Eubacteriaceae;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Eubacteriaceae,g:Anaerofustis;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XIII;Other  $\qquad \text{d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XIII,g:Anaerovorax;Other } \\$ d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XIII,g:Family\_XIII\_AD3011\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XIII,g:Family\_XIII\_UCG\_001;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XIII,g:Family\_XIII\_UCG\_002;Other  $\qquad \text{d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XIII,g:Mogibacterium;Other } \\$ d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XIII,g:\_Eubacterium\_brachy\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XIII,g:\_Eubacterium\_\_nodatum\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XI\_1936;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Family\_XI\_1936,g:Sedimentibacter;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Acetitomaculum;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Anaerosporobacter;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Blautia;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Butyrivibrio;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Butyrivibrio\_2;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Cellulosilyticum;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Coprococcus\_1;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Coprococcus\_2;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Coprococcus\_3;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Dorea;Other  $\qquad \text{d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Howardella;Other } \\$ d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Incertae\_Sedis\_2001;Other d: Bacteria, p: Firmicutes, c: Clostridia, o: Clostridiales, f: Lachnospiraceae, g: Lachnoclostridium; Other and the control of the controld:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Lachnospira;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Lachnospiraceae\_FCS020\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Lachnospiraceae\_NC2004\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Lachnospiraceae NK3A20 group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Lachnospiraceae\_NK4A136\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Lachnospiraceae\_UCG\_006;Other  $\qquad \qquad \text{d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Lachnospiraceae\_UCG\_008;Other \\$  ${\tt d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Lachnospiraceae\_XPB1014\_group;Other}$ d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Marvinbryantia;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Mobilitalea;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Oribacterium;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Pseudobutyrivibrio;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Roseburia;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Shuttleworthia;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Syntrophococcus;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:Tyzzerella 3;Other  $d: Bacteria, p: Firmicutes, c: Clostridia, o: Clostridiales, f: Lachnospiraceae, g: Tyzzerella\_4; Other and the control of t$ d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:\_Eubacterium\_\_ruminantium\_group;Other  $\qquad \qquad \text{d:Bacteria}, p: Firmicutes, c: Clostridia, o: Clostridiales, f: Lachnospiraceae, g: \_Eubacterium \_ventriosum\_group; Other and provided the control of the control$ d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:\_Ruminococcus\_\_gauvreauii\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Lachnospiraceae,g:uncultured\_2021;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Peptococcaceae,g:Desulfosporosinus;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Peptococcaceae,g:Peptococcus;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Peptococcaceae,g:uncultured\_2041;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Peptostreptococcaceae,g:Intestinibacter;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Peptostreptococcaceae,g:Terrisporobacter;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Anaerotruncus;Other  $d: Bacteria, p: Firmicutes, c: Clostridia, o: Clostridiales, f: Rumino coccaceae, g: Candidatus\_Solea ferrea; Other control of the control$ d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Oscillospira;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminiclostridium;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminiclostridium\_1;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminiclostridium\_5;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminiclostridium\_9;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminococcaceae\_NK4A214\_group;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminococcaceae\_UCG\_002;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminococcaceae\_UCG\_004;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminococcaceae\_UCG\_005;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminococcaceae\_UCG\_009;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminococcaceae\_UCG\_010;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminococcaceae\_UCG\_013;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminococcaceae\_UCG\_014;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaeae,g:Ruminococcus\_1;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Ruminococcus\_2;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:Saccharofermentans;Other  $d: Bacteria, p: Firmicutes, c: Clostridia, o: Clostridiales, f: Rumino coccaceae, g: Unknown\_Genus\_1000532; Other control of the control of$  $d: Bacteria, p: Firmicutes, c: Clostridia, o: Clostridiales, f: Ruminococcaceae, g: \underline{Fubacterium}\_coprostano ligenes \underline{group}; Other$ d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Ruminococcaceae,g:uncultured\_2071;Other d:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Syntrophomonadaceae;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Candidatus\_Stoquefichus;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Dielma;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Erysipelothrix;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Erysipelotrichaceae UCG\_004;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Erysipelotrichaceae\_UCG\_009;Other d: Bacteria, p: Firmicutes, c: Erysipelotrichia, o: Erysipelotrichales, f: Erysipelotrichaceae, g: Faecalitalea; Other and provided the provided for the provided formula of the provided formula ofd:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Solobacterium;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Turicibacter;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae,g:\_Anaerorhabdus\_\_furcosa\_group;Other d:Bacteria,p:Firmicutes,c:Erysipelotrichia,o:Erysipelotrichales,f:Erysipelotrichaceae,g:uncultured\_2163;Other d:Bacteria,p:Firmicutes,c:Negativicutes;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Acidaminococcaceae,g:Phascolarctobacterium;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Acidaminococcaceae,g:Succiniclasticum;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Veillonellaceae;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Veillonellaceae,g:Anaerospora;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Veillonellaceae,g:Anaerovibrio;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Veillonellaceae,g:Pelosinus;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Veillonellaceae,g:Quinella;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Veillonellaceae,g:Schwartzia;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Veillonellaceae,g:Selenomonas\_1;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Veillonellaceae,g:Unknown\_Genus\_1000551;Other d:Bacteria,p:Firmicutes,c:Negativicutes,o:Selenomonadales,f:Veillonellaceae,g:uncultured\_2200;Other d:Bacteria,p:Fusobacteria,c:Fusobacteriia,o:Fusobacteriales,f:Fusobacteriaceae,g:Fusobacterium;Other d:Bacteria,p:Gemmatimonadetes,c:Gemmatimonadetes;Other d:Bacteria,p:Gemmatimonadetes,c:Gemmatimonadetes,o:AT425\_EubC11\_terrestrial\_group;Other d:Bacteria,p:Lentisphaerae;Other d:Bacteria,p:Lentisphaerae,c:Lentisphaeria;Other d:Bacteria,p:Lentisphaerae,c:Lentisphaeria,o:Victivallales;Other d:Bacteria,p:Lentisphaerae,c:Lentisphaeria,o:Victivallales,f:Victivallaceae,g:Victivallis;Other d:Bacteria,p:Lentisphaerae,c:Oligosphaeria;Other d:Bacteria,p:Lentisphaerae,c:Oligosphaeria,o:Oligosphaerales;Other d:Bacteria,p:Planctomycetes;Other  $\textbf{d}: Bacteria, p: Planctomycetes, c: Phycisphaerae, o: WD2101\_soil\_group, f: Unknown\_Family\_1002513, g: Unknown\_Genus\_1000648; Other and the property of th$ d:Bacteria,p:Planctomycetes,c:Planctomycetacia;Other d:Bacteria,p:Planctomycetes,c:Planctomycetacia,o:Planctomycetales;Other d:Bacteria,p:Planctomycetes,c:Planctomycetacia,o:Planctomycetales,f:Planctomycetaceae;Other d:Bacteria,p:Planctomycetes,c:Planctomycetacia,o:Planctomycetales,f:Planctomycetaceae,g:Pir4\_lineage;Other d:Bacteria,p:Planctomycetes,c:Planctomycetacia,o:Planctomycetales,f:Planctomycetaceae,g:Rhodopirellula;Other  $\qquad \text{d:Bacteria,p:Planctomycetes,c:Planctomycetacia,o:Planctomycetales,f:Planctomycetaceae,g:p\_1088\_a5\_gut\_group;Other \\ \label{eq:d:bacteria}$ d:Bacteria,p:Proteobacteria;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Caulobacterales,f:Caulobacteraceae;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Caulobacterales,f:Caulobacteraceae,g:Brevundimonas;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Caulobacterales,f:Caulobacteraceae,g:Caulobacter;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Caulobacterales,f:Caulobacteraceae,g:Phenylobacterium;Other  $\qquad \qquad \text{d:} Bacteria, p: Proteobacteria, c: Alpha proteobacteria, o: Caulobacterales, f: Hyphomonadaceae, g: Hirschia; Other alpha proteobacteria, c: Alpha proteobacteria, o: Caulobacterales, f: Hyphomonadaceae, g: Hirschia; Other alpha proteobacteria, c: Alpha proteobacteria, o: Caulobacterales, f: Hyphomonadaceae, g: Hirschia; Other alpha proteobacteria, c: Alpha proteobacteria, o: Caulobacterales, f: Hyphomonadaceae, g: Hirschia; Other alpha proteobacteria, o: Caulobacterales, f: Hyphomonadaceae, g: Hirschia; Other alpha proteobacteria, o: Caulobacterales, f: Hyphomonadaceae, g: Hirschia; Other alpha proteobacteria, o: Caulobacterales, f: Hyphomonadaceae, g: Hirschia; Other alpha proteobacteria, o: Caulobacterales, f: Hyphomonadaceae, g: Hirschia; Other alpha proteobacteria, f: Hyphomonadaceae, g: Hyphomonadace$ d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Aurantimonadaceae,g:Aureimonas;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:BCf3\_20,g:Unknown\_Genus\_1000675;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Beijerinckiaceae,g:Chelatococcus;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Bradyrhizobiaceae;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Bradyrhizobiaceae,g:uncultured\_2455;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Brucellaceae,g:Brucella;Other  $\qquad \text{d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Hyphomicrobiaceae;Other } \\$ d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Hyphomicrobiaceae,g:Devosia;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Hyphomicrobiaceae,g:Hyphomicrobium;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Hyphomicrobiaceae,g:Pelagibacterium;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Methylobacteriaceae,g:Methylobacterium;Other  $\qquad \text{d:} Bacteria, p: Proteobacteria, c: Alphaproteobacteria, o: Rhizobiales, f: Methylobacteria ceae, g: Microvirga; Other contents of the proteobacteria of the proteobacter$ d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Methylocystaceae,g:Hansschlegelia;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Methylocystaceae,g:uncultured 2507;Other d: Bacteria, p: Proteobacteria, c: Alphaproteobacteria, o: Rhizobiales, f: Phyllobacteria ceae, g: Aliihoeflea; Other alpha ceae, g: Aliihoed:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Phyllobacteriaceae,g:Aminobacter;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Phyllobacteriaceae,g:Mesorhizobium;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiaceae,g:Kaistia;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiaceae,g:Rhizobium;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales\_f:Rhizobiales\_Incertae\_Sedis\_2530;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiales\_Incertae\_Sedis\_2530,g:Agaricicola;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhodobiaceae,g:Rhodoligotrophos;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Xanthobacteraceae,g:Pseudoxanthobacter;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Xanthobacteraceae,g:Variibacter;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:alphal\_cluster,g:Unknown\_Genus\_1000672;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:uncultured\_2556;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales;Other d: Bacteria, p: Proteobacteria, c: Alphaproteobacteria, o: Rhodobacterales, f: Rhodobacteraceae; Other and a superior of the control of thed:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:Amaricoccus;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:Defluviimonas;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:Ketogulonicigenium;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:Paracocccus;Other  $\qquad \text{d:} Bacteria, p: Proteobacteria, c: Alpha proteobacteria, o: Rhodos pirillales; Other \\$  ${\tt d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Acetobacteraceae;Other}$ d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Acetobacteraceae,g:Roseococcus;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Acetobacteraceae,g:Roseomonas;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Acetobacteraceae,g:Stella;Other d: Bacteria, p: Proteobacteria, c: Alphaproteobacteria, o: Rhodospirillales, f: Rhodospirillaceae; Other and alphaproteobacteria, p: Proteobacteria, p: Proteobacted:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Rhodospirillaceae,g:Azospirillum;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Rhodospirillaceae,g:Defluviicoccus;Other  $\qquad \qquad \text{d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Rhodospirillaceae,g:Ferrovibrio;Otherrown and the proteobacteria and the proteob$ d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Rhodospirillaceae,g:Skermanella;Other  $\qquad \text{d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Rhodospirillaceae,g:Thalassospira;Other and the proteobacteria and the proteobacte$ d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Rhodospirillaceae,g:uncultured\_2755;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Rhodospirillales\_Incertae\_Sedis\_2756,g:Geminicoccus;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:Rhodospirillales\_Incertae\_Sedis\_2756,g:Reyranella;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rickettsiales;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rickettsiales,f:Rickettsiaceae;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rickettsiales,f:Rickettsiales\_Incertae\_Sedis\_2786,g:Candidatus\_Captivus;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rickettsiales,f:Rickettsiales\_Incertae\_Sedis\_2786,g:Candidatus\_Odyssella;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rickettsiales,f:uncultured\_2806,g:Unknown\_Genus\_1000737;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:7B\_8,g:Unknown\_Genus\_1000749;Other  $\qquad \text{d:} Bacteria, p: Proteobacteria, c: Alphaproteobacteria, o: Sphingomonadales, f: DSSF69, g: Unknown\_Genus\_1000755; Other alphaproteobacteria, p: Proteobacteria, p: Proteobacteri$ d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Erythrobacteraceae,g:Altererythrobacter;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:JG34\_KF\_161;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:M05\_Pitesti,g:Unknown\_Genus\_1000759;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Novosphingobium;Other d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Sphingobium;Other  ${\tt d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Sphingomonas;Otherror and {\tt d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Sphingomonas;Otherror {\tt d:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Sphingomonae,g:Sphingomonadaceae,g:Sphingomonadaceae,g:Sphingomonaceae,g:S$ d: Bacteria, p: Proteobacteria, c: Alphaproteobacteria, o: Sphingomonadales, f: Sphingomonadaceae, g: Sphingopyx is; Other and all other proteobacteria, o: Sphingopyx is; Other proteobacteria, o: Sphingopd:Bacteria,p:Proteobacteria,c:Betaproteobacteria;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Alcaligenaceae;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Alcaligenaceae,g:Sutterella;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:Cupriavidus;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:Lautropia;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:Ralstonia;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Comamonadaceae;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Comamonadaceae,g:Comamonas;Other  $\begin{tabular}{ll} d: Bacteria, p: Proteobacteria, c: Betaproteobacteria, o: Burkholderiales, f: Comamonadaceae, g: Lampropedia; Other and the company of the company of$ d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Comamonadaceae,q:Polaromonas;Other d: Bacteria, p: Proteobacteria, c: Beta proteobacteria, o: Burkholderiales, f: Comamon adaceae, g: Pseudorhodo ferax; Other adaceae, g: Pseudorhodo ferax; Otd:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Comamonadaceae,g:uncultured\_2965;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Burkholderiales,f:Oxalobacteraceae;Other d:Bacteria,p:Proteobacteria,c:Betaproteobacteria,o:Neisseriales,f:Neisseriaceae;Other d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria;Other d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Bdellovibrionales,f:Bdellovibrionaceae,g:Bdellovibrio;Other d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Desulfovibrionales;Other d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Desulfovibrionales,f:Desulfovibrionaceae;Other  ${\tt d:Bacteria,p:Proteobacteria,c:Delta proteobacteria,o:Desulfovibrionales,f:Desulfovibrionaceae,g:Desulfovibrio;Other}$ d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Desulfuromonadales,f:GR\_WP33\_58,g:Unknown\_Genus\_1000817;Other d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Myxococcales;Other d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Myxococcales,f:Nannocystaceae,g:Nannocystis;Other  $\qquad \text{d:} Bacteria, p: Proteobacteria, c: Delta proteobacteria, o: Myxococcales, f: Polyangia ceae; Other and the proteobacteria and the$ d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Myxococcales,f:Polyangiaceae,g:Sorangium;Other d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Myxococcales,f:Sandaracinaceae,g:Sandaracinus;Other d:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Myxococcales,f:Sandaracinaceae,g:uncultured\_11491;Other d: Bacteria, p: Proteobacteria, c: Delta proteobacteria, o: Myxococcales, f: Vulgatibacteraceae, g: Vulgatibacter; Other and the proteobacteria and the proteod:Bacteria,p:Proteobacteria,c:Deltaproteobacteria,o:Syntrophobacterales,f:Syntrophobacteraceae,g:Syntrophobacter;Other d:Bacteria,p:Proteobacteria,c:Epsilonproteobacteria,o:Campylobacterales,f:Campylobacteraceae,g:Campylobacter;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Aeromonadales;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Aeromonadales,f:Succinivibrionaceae,g:Ruminobacter;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Aeromonadales,f:Succinivibrionaceae,g:Succinimonas;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Aeromonadales,f:Succinivibrionaceae,g:Succinivibrio;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Aeromonadales,f:Succinivibrionaceae,g:Succinivibrionaceae\_UCG\_002;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Cardiobacteriales;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Cellvibrionales,f:Cellvibrionaceae,g:Cellvibrio;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Chromatiales,f:Chromatiaceae,g:Rheinheimera;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacteriales;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacteriales,f:Enterobacteriaceae;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacteriales,f:Enterobacteriaceae,g:Enterobacter;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacteriales,f:Enterobacteriaceae,g:Escherichia\_Shigella;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacteriales,f:Enterobacteriaceae,g:Providencia;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Legionellales,f:Coxiellaceae;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Legionellales,f:Coxiellaceae,g:Rickettsiella;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Legionellales,f:Legionellaceae;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:NKB5;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Oceanospirillales;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Oceanospirillales,f:Halomonadaceae,g:Halomonas;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Oceanospirillales,f:Halomonadaceae,g:Salinicola;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Oceanospirillales,f:Oceanospirillaceae;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Acinetobacter;Other d: Bacteria, p: Proteobacteria, c: Gamma proteobacteria, o: Pseudomonadales, f: Moraxellaceae, g: Psychrobacter; Other and the proteobacteria for the proteobad:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Pseudomonadaceae;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Pseudomonadaceae,g:Pseudomonas;Other  $\qquad \text{d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Thiotrichales,f:Piscirickettsiaceae,g:Methylophaga;Other and the provided for the proteobacteria, and the proteobac$ d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Xanthomonadales,f:Xanthomonadaceae;Other  ${\tt d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Xanthomonadales,f:Xanthomonadaceae,g:Ignatzschineria;Otherria, and a substitution of the control of$ d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Xanthomonadales,f:Xanthomonadaceae,g:Luteimonas;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Xanthomonadales,f:Xanthomonadaceae,g:Pseudofulvimonas;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Xanthomonadales,f:Xanthomonadaceae,g:Pseudoxanthomonas;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Xanthomonadales,f:Xanthomonadaceae,g:Stenotrophomonas;Other d:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Xanthomonadales,f:Xanthomonadales\_Incertae\_Sedis\_3825,g:Steroidobacter;Other d:Bacteria,p:Saccharibacteria,c:Unknown\_Class\_11570,o:Unknown\_Order\_11571,f:Unknown\_Family\_11572,g:Candidatus\_Saccharimonas;Other d:Bacteria,p:Spirochaetae;Other d:Bacteria,p:Spirochaetae,c:Spirochaetes;Other d:Bacteria,p:Spirochaetae,c:Spirochaetes,o:Spirochaetales;Other d:Bacteria,p:Spirochaetae,c:Spirochaetes,o:Spirochaetales,f:Spirochaetaceae;Other d:Bacteria,p:Spirochaetae,c:Spirochaetes,o:Spirochaetales,f:Spirochaetaceae,g:Treponema\_2;Other d:Bacteria,p:Synergistetes,c:Synergistia;Other d:Bacteria,p:Synergistetes,c:Synergistia,o:Synergistales;Other  $\qquad \text{d:} Bacteria, p: Synergistetes, c: Synergistia, o: Synergistales, f: Synergistaceae; Other \\$ d:Bacteria,p:Synergistetes,c:Synergistia,o:Synergistales,f:Synergistaceae,g:Fretibacterium;Other  $\qquad \text{d:Bacteria,p:Synergistetes,c:Synergistaia,o:Synergistales,f:Synergistaceae,g:Pyramidobacter;Other } \\$ d:Bacteria,p:Tenericutes,c:Mollicutes;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:Anaeroplasmatales;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:Anaeroplasmatales,f:Anaeroplasmataceae,g:Anaeroplasma;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:EMP\_G18;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:EMP\_G18,f:Unknown\_Family\_1002675,g:Unknown\_Genus\_1001014;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:Haloplasmatales,f:Haloplasmataceae,g:Haloplasma;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:Mollicutes\_RF9;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:Mollicutes\_RF9,f:Unknown\_Family\_1002677;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:Mollicutes\_RF9,f:Unknown\_Family\_1002677,g:Unknown\_Genus\_1001017;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:Mycoplasmatales,f:Mycoplasmataceae,g:Mycoplasma;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:NB1\_n;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:NB1\_n,f:Unknown\_Family\_1002678;Other d:Bacteria,p:Tenericutes,c:Mollicutes,o:NB1\_n,f:Unknown\_Family\_1002678,g:Unknown\_Genus\_1001019;Other d:Bacteria,p:Verrucomicrobia;Other d:Bacteria,p:Verrucomicrobia,c:Opitutae;Other d:Bacteria,p:Verrucomicrobia,c:Opitutae,o:Opitutae\_vadinHA64;Other d:Bacteria,p:Verrucomicrobia,c:Opitutae,o:Opitutae\_vadinHA64,f:Unknown\_Family\_1002695,g:Unknown\_Genus\_1001032;Other d:Bacteria,p:Verrucomicrobia,c:Opitutae,o:Opitutales,f:Opitutaceae,g:Opitutus;Other d:Bacteria,p:Verrucomicrobia,c:Spartobacteria,o:Chthoniobacterales;Other d:Bacteria,p:Verrucomicrobia,c:Spartobacteria,o:Chthoniobacterales,f:Chthoniobacteraceae,g:Chthoniobacter;Other d:Bacteria,p:Verrucomicrobia,c:Spartobacteria,o:Chthoniobacterales,f:DA101\_soil\_group,g:Unknown\_Genus\_1001039;Other d:Bacteria,p:Verrucomicrobia,c:Spartobacteria,o:Chthoniobacterales,f:LD29,g:Unknown\_Genus\_1001041;Other d:Bacteria,p:Verrucomicrobia,c:Verrucomicrobiae;Other d:Bacteria,p:Verrucomicrobia,c:Verrucomicrobiae,o:Verrucomicrobiales,f:Verrucomicrobiaceae,g:Haloferula;Other d:Bacteria,p:Verrucomicrobia,c:Verrucomicrobiae,o:Verrucomicrobiales,f:Verrucomicrobiaceae,g:Luteolibacter;Other d:Bacteria,p:Verrucomicrobia,c:Verrucomicrobiae,o:Verrucomicrobiales,f:Verrucomicrobiaceae,g:uncultured\_4046;Other d:Eukaryota;Other d:Eukaryota,p:Ascomycota;Other d:Eukaryota,p:Nematoda;Other d:Eukaryota,p:Parabasalia;Other