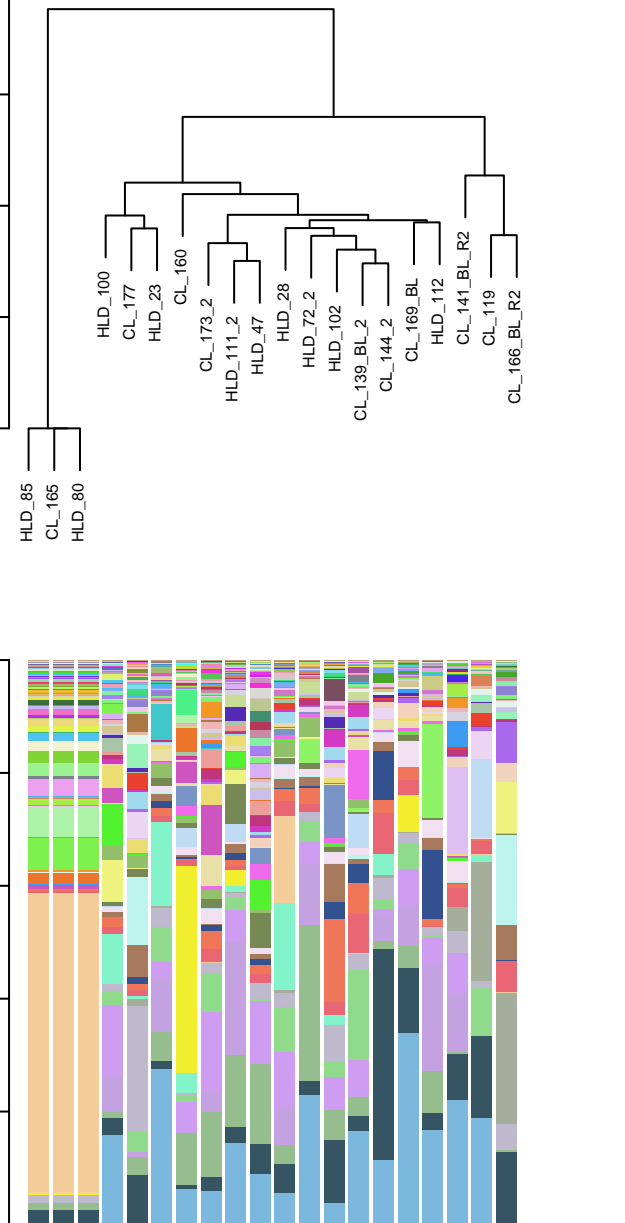
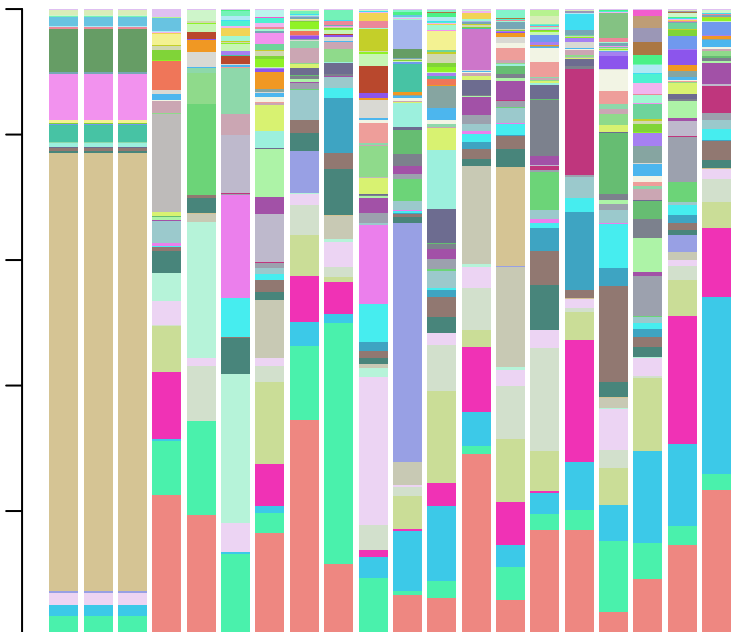
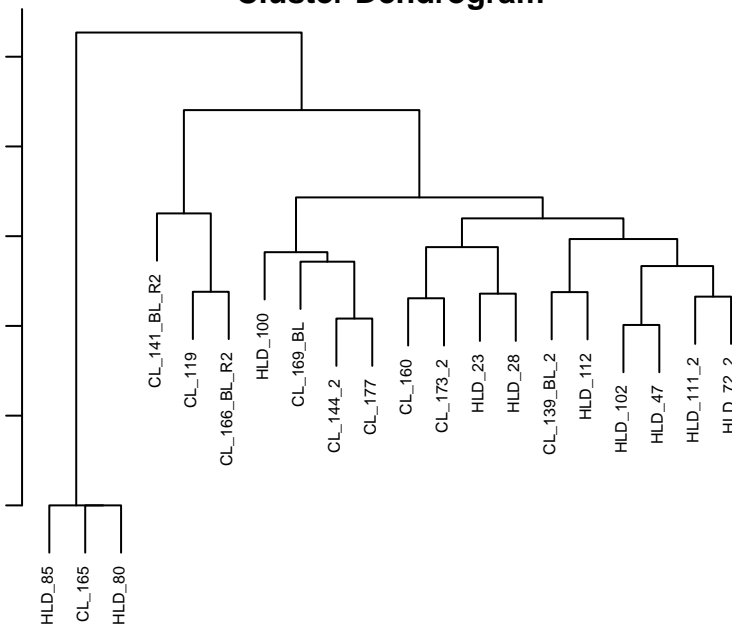


# Cluster Dendrogram



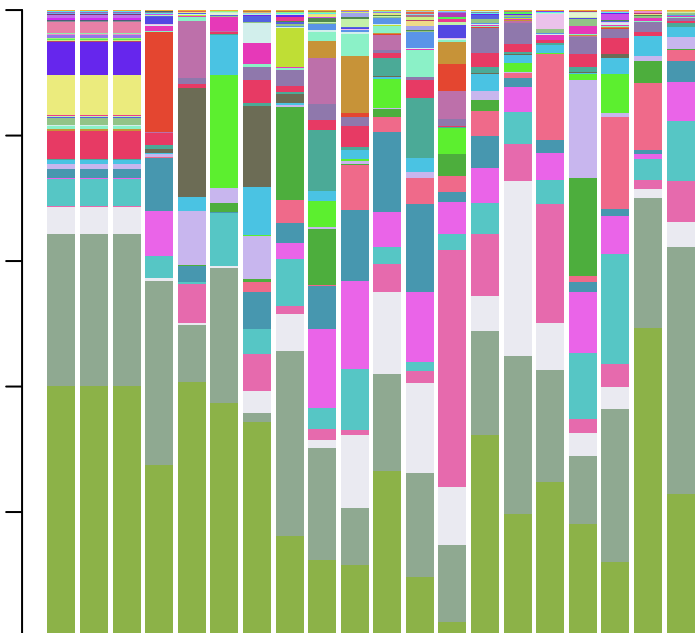
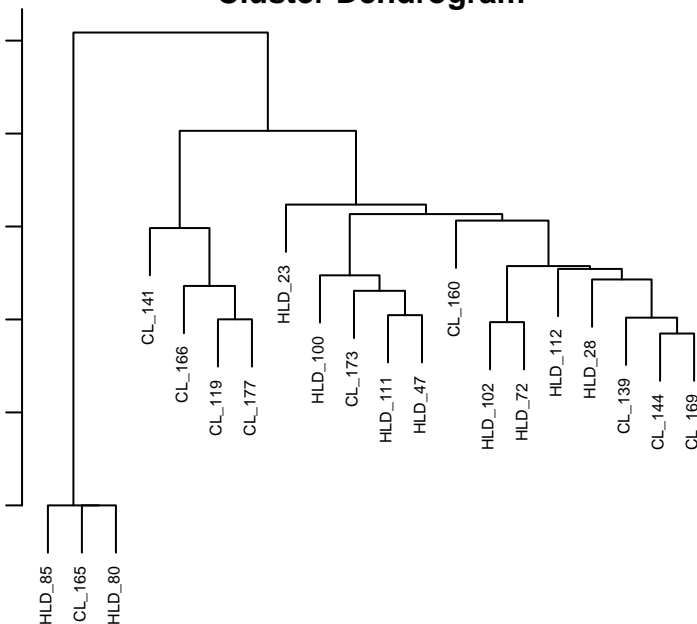
Eubacterium rectale	Peptostreptococcaceae_nomame_unclassified	Rothia dentocariosa
Ruminococcus sp_5_1_39BFAA	Corynebacterium unclassified	Corynebacterium brachy
Subdoligranulum unclassified	Lactococcus lactis	Oribacterium sinus
Ruminococcus bromii	Klebsiella pneumoniae	Leuconostoc citreum
Faecalibacterium prausnitzii	Streptococcus gordonii	Streptococcus gordonii
Dorea longicatena	Streptococcus piperi	Actinomyces viscosus
Ruminococcus longus	Eggerthella sp_1_3_56FAA	Ostionibacter unclassified
Ruminococcus gnavus	Clostridium ramosum	Lactobacillus gasseri
Akkermansia muciniphila	Lactobacillus salivarius	Leuconostoc carnosum
Coprococcus sp_AK755_1	Methanobrevibacter unclassified	Corynebacterium durum
Clostridium sp_L2_50	Bacteroides bacterium_pH8	Granulicatella adansoni
Eubacterium hallii	Erysiopelothricaceae bacterium_8_1_45	Corynebacterium nesenteroides
Ruminococcus obeum	Lactobacillus sp_1	Abgobium parvulum
Roseburia intestinalis	Lachnospiraceae bacterium_8_1_63FAA	Solobacterium moorei
Coprococcus comes	Methanophila parafurax	Granulicatella feviverrus
Escherichia coli	Flavivibrio plautii	Pantoea unclassified
Dorea formicigenerans	Clostridium citroniae	Granulicatella feviverrus
Bifidobacterium adolescentis	Alkaliphilium flegelii	Leuconostoc unclassified
Bacteroides uniformis	Parasutellula excrementihominis	Subdoligranulum variable
Coprococcus eutectus	Streptococcus vestibularis	Clostridium unclassified
Dialister invisus	Lachnospiraceae bacterium_2_1_58FAA	Geobacillus kaustophilus
Cultisella aerofaciens	Clostridium neile	Butyrvibrio unclassified
Alkaliphilium putredinis	Lachnospiraceae bacterium_3_1_57FAA_CT1	Anaerofusus stercoformis
Roseburia hominis	Clostridium halfwayi	Actinomyces oris
Eubacterium siraeum	Bacteroides fragilis	Thermus unclassified
Roseburia inulinivorans	Parabacteroides phorsonii	Eubacterium saproenum
Prevotella copri	Clostridium hiranonis	Pseudomonas fragi
Bacteroides vulgatus	Heldmannia sp_AP2	Ruminococcus albus
Lactobacillus mucosae	Streptococcus australis	Megamonas funiformis
Lachnospiraceae bacterium_1_1_57FAA	Lactobacillus casei_parcasei	Lachnospiraceae bacterium_4_1_37FAA
Eubacterium ramulus	Megamonas unclassified	Peptostreptococcus anaerobius
Clostridium botulinum	Parabacteroides goldsteinii	Olsenella unclassified
Streptococcus thermophilus	Eggerthella sp_HGA1	Clostridium methylophilum
Coprococcus catus	Clostridium asparagiforme	Mitsukella unclassified
Streptococcus salivarius	Turicibacter unclassified	Lactobacillus rosei
Eggerthella unclassified	Pseudomonas unclassified	Gemella unclassified
Parabacteroides merdae	Ruminococcus flavicinctus	Peptostreptococcus stomatis
Bifidobacterium longum	Eubacterium dolichum	Streptococcus intermedius
Bacteroides stercoris	Lachnospiraceae bacterium_3_1_43BFAA	Streptococcus constellatus
Clostridium clostridioforme	Streptococcus anginosus	Streptococcus faecalis
Rouletella omithiolytica	Ruminococcaceae bacterium_D16	Olsenella uti
Bacteroides coprocola	Bifidobacterium animalis	Bifidobacterium unclassified
Lactobacillus ruminis	Clostridium scindens	Actinomyces naeslundii
Lachnospiraceae bacterium_3_1_46FAA	Anaerotruncus coliformis	Actinomyces massiliensis
Ruminococcus cellulosi	Citrobacter bacterium_1_7_47FAA	Enterobacteriaceae cecumensis
Lachnospiraceae bacterium_1_4_56FAA	Roseburia unclassified	Peptostreptococcus haredi
Lachnospiraceae bacterium_5_1_63FAA	Bacteroides unclassified	Clostridium unclassified
Bacteroides caecae	Bacteroides intestinalis	Oxalobacter formigenes
Streptococcus parasanguinis	Anaerotruncus unclassified	Frigeodilla magna
Oscillibacter unclassified	Anaerotruncus sp_3_2_56FAA	Lactobacillus rhamnosus
Barneissella intestinhominis	Veillonella parvula	Corynebacterium fastidiosum
Bacteroides plebeius	Methanobrevibacter smithii	Eubacterium infirmum
Alkaliphilium sp_HGB5	Klebsiella oxytoca	Anaerostipes caecae
Adlercreutzia equoliformis	Anaerostipes unclassified	Eubacterium limosum
Megamonas unclassified	Clostridium perfringens	Asporium timei
Dialister spinosiphilus	Biophila wadsworthii	Bullesia extracta
Bacteroides thetaiotaomicron	Weissella halotolerans	Rothia unclassified
Clostridium lactum	Blautia producta	Enterococcus faecium
Cultisella tanabae	Erysiopelothricaceae bacterium_2_2_44A	Actinobaculum unclassified
Escherichia unclassified	Bacteroides citnus	Enterococcus casseliflavus
Parabacteroides distans	Bifidobacterium dentium	Scardovia unclassified
Bacteroides dorei	Streptococcus sanguinis	Lactobacillus delbrueckii
Anaerostipes hadrus	Rothia mucilaginosa	Peptostreptococcus unclassified
Bacteroides ovatus	Pseudomonas sp_LK4	Streptococcus tyginus
Eubacterium lifformis	Lactobacillus fermentum	Parabacteroides xylophilus
Cultisella intestinalis	Lactobacillus plantarum	Actinomyces phorsonii
Eubacterium eligens	Saccharomyces cerevisiae	Paracardiovibrio dentatus
Bifidobacterium bifidum	Lachnospiraceae bacterium_5_1_57FAA	Weissella confusa
Eubacterium ventriosum	Erysiopelothricaceae bacterium_3_1_53	Porphyromonas berronis
Subdoligranulum sp_4_3_542FAA	Heldmannia unclassified	Gemella morbilium
Alkaliphilium onderdonkii	Lactobacillus sake	Methylobacillus formosensis
Alkaliphilium sp_4_3_47FAA	Butyrvibrio pullicacorum	Ethynobacter aerococcus
Lachnospiraceae bacterium_8_1_57FAA	Clostridium bartlettii	Lactobacillus helveticus
Bacteroides fecis	Streptococcus unclassified	Neisseria lactamica
Megamonas elsdeni	Streptococcus mitis_oralis_pneumoniae	Enterococcus faecalis
Coprococcus sp_29_1	Veillonella atypica	Propionibacterium propionicum
Butyrvibrio crossotus	Bacteroides salyersiae	Bacteroides nordii
Bacteroides massiliensis	Actinomyces odontolyticus	Porphyromonas asaccharolytica
Paraprevotella unclassified	Klebsiella variicola	Gemella sanguinis
Sutereella wadsworthensis	Streptococcus infantis	Lactobacillus crispatus
Bacteroides xylosovens	Erysiopelothricaceae bacterium_21_3	Thermus thermophilus
Bifidobacterium bifidum_1_1_47	Actinomyces lucifera	Clostridium symbiosum_CT118
Eubacterium sp_3_1_31	Erysiopelothricaceae bacterium_5_2_54FAA	Lactobacillus phage_PL_1
Pedococcus pentosus	Citrobacter unclassified	Streptococcus oligofermentans
Bifidobacterium catenulatum	Megamonas hypermegalae	Actinomyces saccharifilum
Megamonas microauriformis	Streptococcus sobrinus	Acetobacter baumannii
Eggerthella lenta	Enterobacter cloacae	Candida dubliniensis_TMT_single_cell_isolate_TMTb
Citrobacter koseri	Granulicatella unclassified	Campylobacter gracilis
Phascolarctobacterium succinatutens	Adimicrobium intestini	Proteus mirabilis
Bifidobacterium pseudocatenulatum	Alkaliphilium senegalensis	Actinobaculum unclassified
Gordonia bacterium_pamelaeae	Pseudoflavivibrio capillatus	Porphyromonas uenonis
Parabacteroides unclassified	Alkaliphilium unclassified	Corynebacteriaceae bacterium_BV36c1
Oribacterium sphinctricus	Blautia hansenii	Streptococcus pseudopneumoniae
Eubacterium yooniae	Streptococcus mutans	Lactobacillus phage_LC_Nu
Clostridium sp_KLE_1755	Citrobacter freundii	Asporium vaginae
Alkaliphilium indistinctum	Prevotella timonensis	Anaerococcus vaginalis
Lachnospiraceae bacterium_7_1_58FAA	Geobacillus unclassified	Candida dubliniensis_TMT_single_cell_isolate_TMTb
Veillonella unclassified	Actinomyces greuteri	Weissella cibaria
Bacteroides xagarii	Scardovia wiggsiae	Bifidobacterium breve
Dorea unclassified	Geobacillus thermoleovorans	Anaerococcus tetradus
Klebsiella unclassified	Parvimonas unclassified	Streptococcus pseudopneumoniae
Bacteroides fragilis	Megamonas ruppelensis	Actinomyces viscosus
Alkaliphilium sp_AP11	Mobiluncus curtisi	Streptococcus faecalis
Oscillibacter sp_KLE_1745	Murine oroesorona_virus	Geobacillus thermoleovorans
Heldmannia filiformis	Gemivibrio nomame_unclassified	Parvimonas unclassified
		Porcine type_2_oncovirus

# Cluster Dendrogram

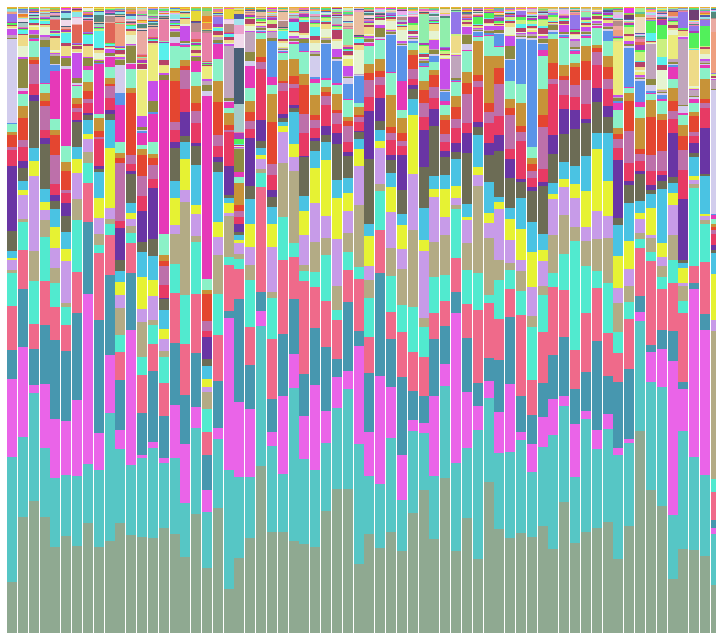
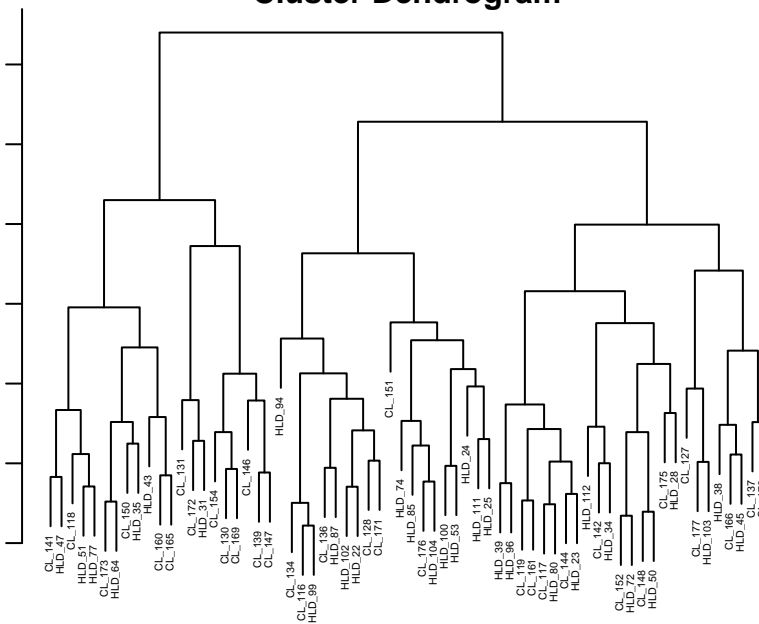


- Eubacterium rectale
- Ruminococcus sp\_5\_1\_39BFAA
- Subdoligranulum unclassified
- Ruminococcus bromii
- Faecalibacterium prausnitzii
- Dorea longicatena
- Ruminococcus torques
- Ruminococcus gnavus
- Akkermansia muciniphila
- Coprococcus sp\_ART55\_1
- Clostridium sp\_L2\_50
- Eubacterium hallii
- Ruminococcus obeum
- Roseburia intestinalis
- Coprococcus comes
- Escherichia coli
- Dorea formicigenerans
- Bifidobacterium adolescentis
- Bacteroides uniformis
- Coprococcus eutactus
- Dialister invisus
- Collinsella aerofaciens
- Alistipes putredinis
- Roseburia hominis
- Eubacterium siraeum
- Roseburia inulinivorans
- Prevotella copri
- Bacteroides vulgatus
- Lactobacillus mucosae
- Lachnospiraceae bacterium\_1\_1\_57FAA
- Eubacterium ramulus
- Clostridium bolteae
- Streptococcus thermophilus
- Coprococcus catus
- Streptococcus salivarius
- Eggerthella unclassified
- Parabacteroides merdae
- Bifidobacterium longum
- Bacteroides stercoris
- Clostridium clostridioforme
- Raoultella ornithinolytica
- Bacteroides coprocola
- Lactobacillus ruminis
- Lachnospiraceae bacterium\_3\_1\_46FAA
- Ruminococcus callidus
- Lachnospiraceae bacterium\_1\_4\_56FAA
- Lachnospiraceae bacterium\_5\_1\_63FAA
- Bacteroides caccae
- Streptococcus parasanguinis
- Oscillibacter unclassified
- Barnesiella intestinihominis
- Bacteroides plebeius
- Alistipes sp\_HGB5
- Adlercreutzia equolifaciens
- Megaspheara unclassified
- Dialister succinatiphilus
- Bacteroides thetaiotaomicron
- Clostridium leptum
- Collinsella tanakaei
- Escherichia unclassified
- Parabacteroides distasonis
- Bacteroides dorei
- Anaerostipes hadrus
- Bacteroides ovatus
- Eubacterium bifforme
- Collinsella intestinalis
- Eubacterium eligens
- Bifidobacterium bifidum
- Alistipes onderdonkii
- Alistipes shahii
- Lachnospiraceae bacterium\_8\_1\_57FAA
- Ruminococcus lactaris
- Bacteroides faecis
- Bacteroides xylanisolvens
- Burkholderiales bacterium\_1\_1\_47
- Bifidobacterium catenulatum
- Megaspheara micronuciformis

# Cluster Dendrogram



# Cluster Dendrogram



- unclassified
- Incertae\_Sedis
- Bacteroides
- Faecalibacterium
- Blautia
- Pseudobutyrvibrio
- Bifidobacterium
- Subdoligranulum
- Collinsella
- Dorea
- Ruminococcus
- Dialister
- NA
- Coproccoccus
- Streptococcus
- Roseburia
- Anaerostipes
- Prevotella
- Akkermansia
- Lactobacillus
- Lachnospira
- Escherichia-Shigella
- Clostridium\_sensu\_stricto\_1
- Catenibacterium
- Alistipes
- Parabacteroides
- Marvinbryantia
- Phascolarctobacterium
- Adlercreutzia
- Eggerthella
- Intestinimonas
- Parasutterella
- Megasphaera
- Methanobrevibacter
- Megamonas
- Alloprevotella
- Olsenella
- Barnesiella
- Odoribacter
- Slackia
- Sutterella
- Acidaminococcus
- Desulfovibrio
- Oscillibacter
- Paraprevotella
- Flavonifractor
- Turicibacter
- Bilophila
- Anaerotruncus
- Veillonella
- Methanosphaera
- Coprobacillus
- Fusobacterium
- Haemophilus
- Oscillospira
- Peptococcus
- Actinomyces
- Sporobacter
- Lactococcus
- Gordonibacter
- Atopobium
- Allisonella
- Butyricicoccus
- Enterorhabdus
- Mitsuokella
- Anaerovorax
- Mogibacterium
- Succinilasticum
- Holdemania
- Papillibacter
- Coprobacter
- Weissella
- Howardella
- Enterococcus
- Solobacterium
- Shuttleworthia
- RC9\_gut\_group
- Thalassospira
- Pseudomonas
- Eubacterium
- Pedococcus
- Oribacterium
- Butyricimonas
- Anaerofilum
- Oxalobacter
- Victivallis
- Staphylococcus
- Anaeroglobus