

	Proteobacteria-Oxalobacteraceae
	Bacteroidetes-SB-1
	Proteobacteria-NB-1d
	Firmicutes-Mycoplasmataceae
	Proteobacteria-Nordella
	Verrucomicrobia-Punicococcaceae
	Firmicutes-Paenibacillaceae
	Bacteroidetes-Chitinophagaceae
	Proteobacteria-Alcaligenaceae
	Firmicutes-Lachnospiraceae
	Proteobacteria-Methylobacteriaceae
	Bacteroidetes-Rhodothermaceae
	Aquificae-Aquificaceae
	Proteobacteria-Granulococcaceae
	Proteobacteria-Anaplasmataceae
	Firmicutes-Planococcaceae
	Bacteroidetes-Prolixibacter
	Chrysiogenetes-Chrysiogenaceae
	Proteobacteria-TJ1
	Proteobacteria-Hyphomonadaceae
	Proteobacteria-Bradyrhizobiaceae
	Proteobacteria-MN_122_2a
	Firmicutes-Leuconostocaceae
	Proteobacteria-Fanglia
	Firmicutes-Streptococcaceae
	Thermodesulfobacteria-Thermodesulfobacteriaceae
	Bacteroidetes-PeH15
	Proteobacteria-Hydrogenophilaceae
	Proteobacteria-CHAB-XI-27
	Proteobacteria-Ectothiorhodospiraceae
	Chloroflexi-Anaerolineaceae
	Deinococcus-Thermus-Truepera
	Fusobacteria-Leptotrichiaceae
	NPL-UPA2-unclassified
	Acidobacteria-unclassified
	Cyanobacteria-unclassified
	Spirochaetes-Leptospiaceae
	Proteobacteria-Holospiraceae
	Proteobacteria-Aurantimonadaceae
	Firmicutes-PeH36
	Proteobacteria-Sorangilineae
	Firmicutes-Family_XII_Incertae_Sedis
	Proteobacteria-LWSR-14
	Proteobacteria-Desulfotolalbiaceae
	Proteobacteria-unclassified
	Fusobacteria-Fusobacteriaceae
	Firmicutes-Thermoanaerobacteraceae
	Proteobacteria-Brucellaceae
	Proteobacteria-FukuN57
	Proteobacteria-Enterobacteriaceae
	Proteobacteria-Desulfuromonadaceae
	Firmicutes-Peptostreptococcaceae
	Proteobacteria-alphei cluster
	Proteobacteria-Pseudomonadaceae
	Actinobacteria-Acidimicrobiales
	Proteobacteria-Desulfomicrobiaceae
	Bacteroidetes-Rikenellaceae
	Bacteroidetes-Flavobacteriaceae
	Proteobacteria-Methylocystaceae
	Proteobacteria-Hyphomicrobiaceae
	OPS8-unclassified
	Spirochaetes-Brachyspiraceae
	Nitrospirae-0319-6A21
	Verrucomicrobia-unclassified
	Firmicutes-JTB215
	Chlamydiae-Parachlamydiaceae
	Proteobacteria-0319-6G20
	Lentisphaerae-Victivallaceae
	Firmicutes-Family_XII_Incertae_Sedis
	Bacteroidetes-p-2534-18B5
	Firmicutes-Proteiniborus
	Proteobacteria-M20-Pilesti
	Cyanobacteria-Syntrophomonadaceae
	Firmicutes-Family_XIV_Incertae_Sedis
	Firmicutes-OPB54
	Bacteroidetes-M2PB4-65
	Firmicutes-Lactobacillaceae
	Chlamydiae-Sinkaniaceae
	Proteobacteria-Syntrophobacteraceae
	Proteobacteria-JG37-AG-15
	Proteobacteria-Halomonadaceae
	Firmicutes-Eubacteriaceae
	Deinococcus-Thermus-Denococcus
	Actinobacteria-Coriobacteriales
	Candidate_division_TG-1-unclassified
	Proteobacteria-Nautiliaceae
	Bacteroidetes-BS11
	Bacteroidetes-S24-7
	Proteobacteria-KA1
	Bacteroidetes-Porphryomonadaceae
	Bacteroidetes-KD1-131
	Proteobacteria-Halothebaciaceae
	Proteobacteria-Shinella_genera_Incertae_sedis
	Candidate_division_TM6-unclassified
	Bacteroidetes-Cyclobacteriaceae
	Deferribacteres-unclassified
	GOUTA4-unclassified
	Cyanobacteria-Calothrix
	Bacteroidetes-SB-5
	Proteobacteria-Rhodobiaceae
	Acidobacteria-Acidobacteriaceae
	Firmicutes-Gracilbacteraceae
	Bacteroidetes-Saprospiraceae
	Proteobacteria-Geobacteraceae
	Proteobacteria-Acetobacteraceae
	Firmicutes-Peptococcaceae
	Chloroflexi-unclassified
	Bacteroidetes-Blattabacteriaceae
	Actinobacteria-Solirubrobacteriales
	Proteobacteria-Campylobacteraceae
	Verrucomicrobia-Opitaceae
	Proteobacteria-MNH4
	Proteobacteria-Pseudoalteromonadaceae
	Proteobacteria-Candidatus_Ruthia
	Proteobacteria-Rhizobiaceae
	Proteobacteria-Nannocystineae
	Candidate_division_SR1-unclassified
	Proteobacteria-Methylococcaceae
	Proteobacteria-Idiomarinaceae
	Proteobacteria-Elin6055
	Proteobacteria-Candidatus_Liberibacter
	Bacteroidetes-Bacteriaceae
	Proteobacteria-Gallionellaceae
	Proteobacteria-Rhodocyclaceae
	Proteobacteria-Oceanospirillaceae
	Bacteroidetes-Rs-E47
	Proteobacteria-Kordimonadaceae
	Proteobacteria-Aeromonadaceae
	Firmicutes-unclassified
	Proteobacteria-Erythrobacteraceae
	Proteobacteria-Bacteriovoraceae
	Proteobacteria-Beijerinckiaceae
	Proteobacteria-Sphingomonadacea
	Proteobacteria-Caulobacteraceae
	Proteobacteria-Alteromonadaceae
	Proteobacteria-Xanthobacteraceae
	Candidate_division_OP10-unclassified
	Lentisphaerae-unclassified
	Proteobacteria-Helicobacteraceae
	Planctomycetes-Phycisphaeraceae
	Verrucomicrobia-DEV007
	Proteobacteria-Succinivibrionaceae
	Proteobacteria-Candidatus_Hepatintola
	Actinobacteria-Actinomycetales
	Firmicutes-uncultured
	Actinobacteria-Rubrobacteriales
	Proteobacteria-Ferrimonadaceae
	Planctomycetes-Planctomycetaceae
	Proteobacteria-Rhodobacteraceae
	Spirochaetes-unclassified
	Proteobacteria-Methylophilaceae
	Firmicutes-Alicyclobacillaceae
	Proteobacteria-Sewanellaceae
	Proteobacteria-Nitrosomonadaceae
	Firmicutes-Heliobacteriaceae
	Proteobacteria-Cystobacterineae
	Proteobacteria-Legionellaceae
	Bacteroidetes-Flammeovirgillaceae
	Proteobacteria-Saccharospirillaceae
	Bacteroidetes-env_OPS_17
	Acidobacteria-Holophagaceae
	Bacteroidetes-unclassified
	Bacteroidetes-Prevotellaceae
	Firmicutes-Bacillus
	Proteobacteria-Chromatiaceae
	Firmicutes-Listeriaceae
	Bacteroidetes-NS9
	Proteobacteria-Hahellaceae
	Firmicutes-PeH08
	Proteobacteria-Vibrionaceae
	Proteobacteria-SM2D12
	Proteobacteria-Bdellovibrionaceae
	Cyanobacteria-Chroococcidiopsis
	Firmicutes-Erysipelotrichaceae
	Proteobacteria-Xanthomonadaceae
	Proteobacteria-Desulfobacteraceae
	Proteobacteria-Thermus-Thermus
	Deinococcus-wr007
	Firmicutes-Aerococcaceae
	Firmicutes-Thermoaquiniaceae
	Proteobacteria-Phylobacteriaceae
	Candidate_division_BRC1-unclassified
	Bacteroidetes-VadinHA21
	Proteobacteria-Coxiellaceae
	Firmicutes-Enterococcaceae
	Proteobacteria-L54-241
	Bacteroidetes-Cyromorphaceae
	Firmicutes-Staphylococcaceae
	Proteobacteria-Oleiphilaceae
	Proteobacteria-Pasteurellaceae
	Firmicutes-Veillonellaceae
	Proteobacteria-Acetobacteriaceae
	Proteobacteria-Desulfotribionaceae
	Chlorobi-Chlorobiaceae
	Proteobacteria-Moraxellaceae
	Synergistetes-Synergistaceae
	Proteobacteria-Burkholderiaceae
	Proteobacteria-Cardiobacteriaceae
	Proteobacteria-Candidatus_Odyssella
	Bacteroidetes-Marinilabaceae
	Bacteroidetes-PHOS-HE51
	Nitrospirae-Nitrospiraceae
	Bacteroidetes-WCHB1-32
	Proteobacteria-Rhodospirillaceae
	Proteobacteria-Desulfotritonaceae
	Proteobacteria-Sphingomonadaceae
	Bacteroidetes-RF16
	Bacteroidetes-Sphingobacteriaceae
	Firmicutes-Family_XI_Incertae_Sedis
	Firmicutes-Halanaerobiacaceae
	Bacteroidetes-Cytophagaceae
	Bacteroidetes-BSV13
	Actinobacteria-AK1W543
	Actinobacteria-Bifidobacteriales
	Proteobacteria-GOBB3-C201
	Proteobacteria-VHS-B3-70
	Proteobacteria-Candidatus_Midchloria
	Planctomycetes-unclassified
	Candidate_division_TM7-unclassified
	Proteobacteria-Piscirickettsiaceae
	Proteobacteria-Comamonadaceae
	Firmicutes-Family_XVIII_Incertae_Sedis
	Firmicutes-Ruminococcaceae
	Firmicutes-Carnobacteriaceae
	Verrucomicrobia-Verrucomicrobiaceae
	Firmicutes-Anaeroplasmataceae
	Proteobacteria-Nitrospiraceae
	Firmicutes-Clostridiaceae
	Spirochaetes-Spirochaetaceae
	Firmicutes-Bacillaceae

ttc 1  
ttc 2