

Phylum	Class	Order	Family	Genus	Species	stat	p.value
Group	Axil	#sps.	5				
Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae			0.82	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylobacteriaceae			0.81	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.80	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.79	0.04
Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae			0.75	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae			0.74	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.73	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.73	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.72	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.72	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Kineosporiaceae			0.71	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae			0.69	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.69	0.03
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.68	0.03
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium		0.68	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.67	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae			0.66	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Kineosporiaceae	Kineococcus		0.65	0.04
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.65	0.02
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae			0.65	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae			0.64	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae			0.63	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.63	0.04
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.63	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae			0.62	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.62	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae			0.62	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylobacteriaceae	Methylobacterium	hispanicum	0.60	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Cellulomonadaceae	Cellulomonas		0.59	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Beijerinckiaceae			0.59	0.03
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae			0.59	0.03
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	Spirosoma		0.58	0.05
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae			0.58	0.04
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.57	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Novosphingobium		0.57	0.05

Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae		0.56	0.03
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	0.56	0.04
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae		0.56	
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae		0.56	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales			0.55	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylobacteriaceae	Methylobacterium	0.55	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae		0.53	0.02
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	Dyadobacter	0.52	0.04
Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylobacteriaceae		0.51	0.05
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae		0.49	0.03
Planctomycetes	Phycisphaerae	WD2101			0.49	0.05
Actinobacteria	Actinobacteria	Actinomycetales	Cellulomonadaceae	Cellulomonas	0.48	0.05
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae		0.48	0.05
Proteobacteria	Deltaproteobacteria	Myxococcales			0.46	0.03
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	0.42	0.05

Group	Flower	#sps.	25		stat	p.value
Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	0.71	0.02
Chloroflexi	Anaerolineae	SBR1031	Ab		0.58	0.03
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.58	0.02
Proteobacteria	Gammaproteobacteria	Oceanospirillales	Oceanospirillaceae	Marinomonas	0.58	0.02
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.58	0.02
Proteobacteria	Gammaproteobacteria	Pseudomonadales	Moraxellaceae	Acinetobacter	0.57	0.03
Bacteroidetes	Cytophagia	Cytophagales			0.57	0.02
Proteobacteria	Gammaproteobacteria	Pseudomonadales	Moraxellaceae	Acinetobacter	0.57	0.03
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae		0.56	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	0.55	0.02
Gemmatimonadetes	Gemm-1				0.55	0.02
Cyanobacteria	Chloroplast	Stramenopiles			0.55	0.02
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.55	0.01
Proteobacteria	Gammaproteobacteria	Vibrionales	Pseudoalteromonadaceae		0.55	0.03
Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae		0.55	0.03
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae		0.54	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium	0.54	0.03
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.53	0.01
Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	0.51	0.04
Firmicutes	Bacilli	Gemellales	Gemellaceae		0.50	0.03

Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	viridiflava	0.50	0.04
Gemmatimonadetes	Gemm-5					0.49	0.03
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	Gluconobacter		0.49	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus		0.48	0.05
Acidobacteria	[Chloracidobacteria]	RB41	Ellin			0.48	0.04
Group	Fruit	#sps.		4			
						stat	p.value
Proteobacteria	Gammaproteobacteria	Salinisphaerales	Salinisphaeraceae	Salinisphaera		0.84	0.01
Proteobacteria	Gammaproteobacteria	Pseudomonadales	Moraxellaceae	Acinetobacter		0.80	0.01
Proteobacteria	Gammaproteobacteria	Pseudomonadales	Moraxellaceae	Acinetobacter		0.66	0.02
Proteobacteria	Gammaproteobacteria	Pseudomonadales	Moraxellaceae	Acinetobacter		0.60	0.02
Group	Leaf	#sps.		1			
						stat	p.value
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.67	0.02
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae			0.60	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.59	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.57	0.04
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae			0.56	0.03
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae			0.54	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae			0.54	0.04
Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	Marinobacter		0.51	0.03
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter		0.49	0.03
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.48	0.05
Group	Soil	#sps.		6			
						stat	p.value
Firmicutes	Bacilli	Bacillales	Planococcaceae	Lysinibacillus		0.92	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.87	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.87	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.80	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.80	0.01
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus		0.79	0.01
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus		0.79	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.78	0.02
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.77	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.76	0.02

Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus		0.76	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.74	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae	Solibacillus		0.73	0.01
Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus		0.73	0.02
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.73	0.01
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	muralis	0.73	0.01
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus		0.70	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae	Solibacillus		0.70	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.70	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.70	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.70	0.01
Firmicutes	Bacilli	Bacillales	Planococcaceae	Solibacillus		0.70	0.01
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	muralis	0.69	0.01
Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus		0.69	0.02
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.67	0.02
Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus		0.66	0.04
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus		0.64	0.03
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.64	0.02
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.64	0.02
Firmicutes	Bacilli	Bacillales	Bacillaceae			0.62	0.03
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.61	0.02
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.60	0.02
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.59	0.02
Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus		0.59	0.01
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus		0.58	0.02
Planctomycetes	Planctomycetia	Planctomycetales	Planctomycetaceae	Planctomyces		0.58	0.02
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.58	0.02
Chloroflexi	Anaerolineae	SBR1031	Ab			0.58	0.02
Firmicutes	Bacilli	Bacillales	Planococcaceae	Lysinibacillus0		0.58	0.02
Planctomycetes	Planctomycetia	Planctomycetales	Planctomycetaceae	Planctomyces		0.57	0.02
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.57	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Kaistobacter		0.56	0.04
Planctomycetes	Planctomycetia	B97				0.56	0.03
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae			0.55	0.05
Firmicutes	Bacilli	Bacillales	Planococcaceae			0.54	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Kaistobacter		0.54	0.03
Firmicutes	Bacilli	Bacillales	Bacillaceae			0.53	0.02
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.52	0.02

Firmicutes	Bacilli	Bacillales	Planococcaceae	Lysinibacillus	0.52	0.02
Actinobacteria	Acidimicrobiia	Acidimicrobiales			0.52	0.05
Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus	0.51	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.51	0.04
Planctomycetes	Planctomycetia	Gemmatales	Gemmataceae	Gemmata	0.51	0.03
Firmicutes	Bacilli	Bacillales	Bacillaceae	Oceanobacillus	0.51	0.03
Actinobacteria	Thermoleophilia	Gaiellales	Gaiellaceae		0.48	0.05
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	0.47	0.05
Chloroflexi	Thermomicrobia	AKYG1722			0.46	0.04
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Kaistobacter	0.45	0.05
Gemmatimonadetes	Gemm-3				0.45	0.04
Gemmatimonadetes	Gemm-5				0.42	0.05

Group	Stem	#sps.	16			stat	p.value
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Actinomycetospora		0.85	0.04
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	aminovorans	0.71	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Beijerinckiaceae			0.67	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae			0.67	0.05
Actinobacteria	Actinobacteria	Actinomycetales				0.66	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Kineosporiaceae			0.66	0.04
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.63	0.05
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae			0.63	0.04
Proteobacteria	Alphaproteobacteria	Rhizobiales	Beijerinckiaceae			0.62	0.05
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae			0.61	0.03
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae			0.60	0.03
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.58	0.05
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.57	0.04
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.55	0.03
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas0		0.53	0.03
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus		0.52	0.05

Group	Rhizosphere	#sps.	602			stat	p.value
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.51	0.02
Actinobacteria	Rubrobacteria	Rubrobacterales	Rubrobacteraceae	Rubrobacter		0.48	0.04
Chloroflexi	Anaerolineae	Caldilineales	Caldilineaceae			0.48	0.03
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Asticcacaulis		0.48	0.03
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae			0.44	0.05
Proteobacteria	Alphaproteobacteria	Rhodospirillales				0.48	0.04
Verrucomicrobia	[Spartobacteria]	[Chthoniobacterales]	[Chthoniobacteraceae]	Chthoniobacter		0.44	0.05
Gemmatimonadetes	Gemmatimonadetes					0.53	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae			0.48	0.05
Acidobacteria	Acidobacteria-6	iii1-15				0.49	0.05
Acidobacteria	Acidobacteria-6	iii1-15	RB			0.46	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia		0.53	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae			0.48	0.05
Proteobacteria	Alphaproteobacteria	Rhizobiales				0.58	0.01
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae			0.48	0.05
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.60	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium		0.47	0.02
Gemmatimonadetes	Gemmatimonadetes					0.48	0.03
Planctomycetes	Phycisphaerae	Phycisphaerales				0.55	0.01
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae			0.68	0.01
Planctomycetes	Planctomycetia	Planctomycetales	Planctomycetaceae	Planctomyces		0.48	0.02
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Mycoplana		0.52	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia		0.55	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobiaceae	Afifella		0.62	0.01
Proteobacteria	Deltaproteobacteria	Myxococcales	Haliangiaceae			0.51	0.02
Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae			0.51	0.04
Acidobacteria	Acidobacteria-6	iii1-15				0.50	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae			0.68	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae			0.48	0.05
Planctomycetes	Phycisphaerae	WD2101				0.48	0.03
Planctomycetes	Planctomycetia	Gemmatales	Gemmataceae	Gemmata		0.52	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.54	0.01
Verrucomicrobia	[Spartobacteria]	[Chthoniobacterales]	DZ			0.48	0.05
Acidobacteria	Acidobacteria-6	iii1-15				0.66	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae			0.48	0.05
Actinobacteria	Thermoleophilia	Solirubrobacterales				0.54	0.01

Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae		0.46	0.05
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae		0.53	0.01
Proteobacteria	Gammaproteobacteria	Alteromonadales	ds		0.55	0.01
Proteobacteria	Alphaproteobacteria	Kiloniellales			0.53	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Agrobacterium	0.48	0.04
Proteobacteria	Gammaproteobacteria	Thiotrichales	Piscirickettsiaceae		0.53	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales	AKIW		0.68	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae		0.58	0.01
Nitrospirae	Nitrospira	Nitrospirales	-A		0.44	0.04
Acidobacteria	Acidobacteria-6	iii1-15			0.57	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	0.52	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae		0.61	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia	0.53	0.03
Actinobacteria	Thermoleophilia	Solirubrobacterales			0.51	0.05
Actinobacteria	Thermoleophilia	Solirubrobacterales	Conexibacteraceae		0.49	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae		0.48	0.03
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae		0.62	0.01
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae		0.50	0.02
Proteobacteria	Deltaproteobacteria	Myxococcales			0.50	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.55	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.59	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardoidaceae	Pimelobacter	0.62	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.55	0.03
Actinobacteria	Thermoleophilia	Gaiellales	Gaiellaceae		0.50	0.05
Planctomycetes	Planctomycetia	Planctomycetales	Planctomycetaceae	Planctomyces	0.53	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylocystaceae		0.48	0.05
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.48	0.03
Proteobacteria	Deltaproteobacteria	Myxococcales	-G		0.46	0.03
Acidobacteria	Acidobacteria-6	iii1-15			0.62	0.02
Acidobacteria	PAUC37f				0.48	0.04
Proteobacteria	Gammaproteobacteria	Thiotrichales	Piscirickettsiaceae		0.63	0.02
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Dokdonella	0.48	0.04
Acidobacteria	Acidobacteria-6	iii1-15			0.54	0.01
Acidobacteria	Acidobacteria-6	iii1-15	mb		0.55	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Phenylobacterium	0.51	0.04
Proteobacteria	Alphaproteobacteria	Rhizobiales642		0		
Proteobacteria	Alphaproteobacteria	Rhizobiales	Brucellaceae	Ochrobactrum	0.48	0.04
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae		0.55	0.02

Acidobacteria	Acidobacteria-6	iii1-15	RB			0.54	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces		0.59	0.01
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae			0.48	0.04
Planctomycetes	Phycisphaerae	Phycisphaerales				0.51	0.05
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia		0.65	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.55	0.01
Proteobacteria	Deltaproteobacteria	Myxococcales	Myxococcaceae	Myxococcus		0.48	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Micromonosporaceae			0.50	0.05
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium		0.65	0.01
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae			0.57	0.01
Planctomycetes	Planctomycetia	Planctomycetales	Planctomycetaceae	Planctomyces		0.55	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia		0.55	0.01
Proteobacteria	Deltaproteobacteria	Myxococcales				0.48	0.03
Proteobacteria	Deltaproteobacteria	NB1-j	NB-i			0.55	0.01
Acidobacteria	Acidobacteria-6	iii1-15				0.53	0.01
Acidobacteria	Acidobacteria-6	iii1-15				0.48	0.02
Acidobacteria	Acidobacteria-6	iii1-15				0.52	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.59	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae			0.61	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.60	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae			0.55	0.02
Planctomycetes	Planctomycetia	Gemmatales	Gemmataceae	Gemmata		0.55	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta	0.54	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes		0.58	0.02
Proteobacteria	Betaproteobacteria	SC-I-84				0.52	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae			0.68	0.01
Verrucomicrobia	[Spartobacteria]	[Chthoniobacterales]	[Chthoniobacteraceae]	Ellin0		0.46	0.05
Acidobacteria	Acidobacteria-6	iii1-15				0.54	0.01
Acidobacteria	Acidobacteria-6	iii1-15	RB			0.55	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.70	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.52	0.02
Proteobacteria	Deltaproteobacteria	Myxococcales				0.48	0.05
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium		0.53	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.64	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Kaistobacter		0.69	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.67	0.02
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.55	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	wittichii	0.52	0.04

Acidobacteria	Acidobacteria-6	iii1-15			0.48	0.04
Planctomycetes	Phycisphaerae	Phycisphaerales			0.55	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.47	0.05
Actinobacteria	Acidimicrobiia	Acidimicrobiales			0.59	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.51	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Sinorhizobium	0.61	0.02
Proteobacteria	Alphaproteobacteria	Rhodospirillales			0.65	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales	AKIW		0.62	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae		0.66	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	0.55	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.61	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Agromyces	0.50	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia	0.48	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.55	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.70	0.01
Planctomycetes	Phycisphaerae	WD2101			0.45	0.05
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.58	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylocystaceae		0.78	0.01
Proteobacteria	Deltaproteobacteria	Myxococcales	Haliangiaceae		0.54	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae		0.59	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales			0.51	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae		0.48	0.03
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	Adhaeribacter	0.55	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	0.58	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae		0.53	0.04
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae		0.78	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales			0.52	0.03
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.55	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae		0.55	0.01
Acidobacteria	[Chloracidobacteria]	RB41			0.53	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae	Nocardioides	0.48	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.53	0.05
Proteobacteria	Gammaproteobacteria	Alteromonadales	ds		0.55	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae		0.55	0.03
Proteobacteria	Alphaproteobacteria				0.60	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales			0.42	0.05
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae		0.46	0.04
Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae	Luteolibacter	0.54	0.02

Actinobacteria	Acidimicrobiia	Acidimicrobiales	lamiaceae	lamia		0.53	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces		0.62	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae			0.80	0.01
Proteobacteria	Deltaproteobacteria	Myxococcales				0.59	0.01
Acidobacteria	Acidobacteria-6	iii1-15	RB			0.55	0.04
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.53	0.02
Actinobacteria	Acidimicrobiia	Acidimicrobiales	C			0.48	0.05
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae			0.51	0.02
Proteobacteria	Alphaproteobacteria	Rhodospirillales				0.61	0.01
Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae			0.62	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas		0.47	0.04
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae			0.50	0.02
Acidobacteria	Acidobacteria-6	iii1-15				0.59	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces0		0.47	0.04
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.62	0.02
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.78	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Frankiaceae	Frankia		0.55	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.50	0.04
Planctomycetes	OM190	agg27				0.67	0.02
Proteobacteria	Alphaproteobacteria	Ellin329				0.54	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes		0.44	0.05
Acidobacteria	Acidobacteria-6	iii1-15				0.66	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Asticcacaulis	biprosthecium	0.47	0.05
Actinobacteria	Acidimicrobiia	Acidimicrobiales	lamiaceae	lamia		0.60	0.01
Actinobacteria	Actinobacteria	Actinomycetales				0.62	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae			0.47	0.05
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.48	0.05
Proteobacteria	Gammaproteobacteria	Alteromonadales	OM			0.64	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae			0.50	0.05
Proteobacteria	Alphaproteobacteria	Rhizobiales				0.47	0.04
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae			0.57	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobiaceae	Afifella		0.52	0.03
Proteobacteria	Deltaproteobacteria	Myxococcales	Haliangiaceae			0.51	0.04
Proteobacteria	Deltaproteobacteria	Myxococcales	Haliangiaceae			0.52	0.02
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Phaeospirillum	fulvum	0.61	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.64	0.01
Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas		0.62	0.01
Acidobacteria	Acidobacteria-6	iii1-15	mb			0.53	0.02

Acidobacteria	Acidobacteria-6	iii1-15	RB		0.61	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Intrasporangiaceae		0.72	0.01
Bacteroidetes	Sphingobacteriia	Sphingobacteriales			0.47	0.05
Chloroflexi	TK17				0.66	0.01
Nitrospirae	Nitrospira	Nitrospirales	-A		0.60	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium	0.63	0.01
Proteobacteria	Deltaproteobacteria	Myxococcales			0.55	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales			0.54	0.04
Chloroflexi	Anaerolineae	SBR1031	Ab		0.59	0.01
Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae		0.71	0.01
Proteobacteria	Betaproteobacteria	Ellin6067			0.61	0.01
Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae		0.54	0.02
Actinobacteria	Acidimicrobiia	Acidimicrobiales1204			0.49	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Micromonosporaceae		0.62	0.01
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae		0.48	0.03
Chloroflexi	S085				0.71	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium	0.46	0.05
Gemmatimonadetes	Gemm-1				0.70	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium	0.67	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.57	0.01
Acidobacteria	Acidobacteria-6	iii1-15	mb		0.52	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Micromonosporaceae		0.55	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Micromonosporaceae		0.48	0.04
Actinobacteria	Thermoleophilia	Solirubrobacterales			0.49	0.05
Proteobacteria	Alphaproteobacteria	Ellin329			0.46	0.05
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae		0.54	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.53	0.03
Acidobacteria	Solibacteres	Solibacterales	PAUCf		0.47	0.03
Bacteroidetes	Sphingobacteriia	Sphingobacteriales	Sphingobacteriaceae	Pedobacter	0.48	0.05
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.55	0.05
Proteobacteria	Deltaproteobacteria	Myxococcales			0.63	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.51	0.02
Acidobacteria	Solibacteres	Solibacterales			0.46	0.05
Actinobacteria	Actinobacteria	Actinomycetales	Promicromonosporaceae	Xylanimicrobium	0.65	0.01
Chloroflexi	TK10	AKYG885	Dolo_		0.55	0.01
Gemmatimonadetes	Gemmatimonadetes				0.57	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae		0.68	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales			0.48	0.04

Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.57	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Brucellaceae	Ochrobactrum		0.55	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes		0.62	0.01
Acidobacteria	Acidobacteria-6	iii1-15				0.60	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes		0.50	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Beutenbergiaceae			0.59	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Jiangella		0.48	0.03
Actinobacteria	Thermoleophilia	Gaiellales				0.65	0.01
Nitrospirae	Nitrospira	Nitrospirales	Nitrospiraceae	Nitrospira		0.56	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium		0.53	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae			0.60	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.60	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Micromonosporaceae	Virgisporangium	ochraceum	0.53	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae			0.54	0.04
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes		0.73	0.01
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae			0.62	0.01
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Rubrivivax		0.70	0.01
Verrucomicrobia	[Spartobacteria]	[Chthoniobacterales]	[Chthoniobacteraceae]	Chthoniobacter		0.63	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Micromonosporaceae			0.53	0.03
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.73	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia		0.48	0.04
Acidobacteria	Solibacteres	Solibacterales				0.65	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium		0.54	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae			0.49	0.04
Verrucomicrobia	[Spartobacteria]	[Chthoniobacterales]	[Chthoniobacteraceae]	Chthoniobacter		0.61	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae			0.68	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia		0.55	0.03
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae			0.61	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylocystaceae	Pleomorphomonas		0.62	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae			0.61	0.02
Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae	Luteolibacter		0.62	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Cryocola		0.53	0.05
Planctomycetes	Phycisphaerae	WD2101				0.61	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae			0.55	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium		0.66	0.01
Acidobacteria	Acidobacteria-6	iii1-15				0.62	0.01
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae			0.57	0.03
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae			0.61	0.02

Verrucomicrobia	[Spartobacteria]	[Chthoniobacterales]	[Chthoniobacteraceae]	Candidatus	Xiphinematobacter	0.65	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Pedomicrobium		0.67	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.50	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium		0.53	0.03
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	Steroidobacter		0.67	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales	Solirubrobacteraceae			0.53	0.04
Bacteroidetes	Cytophagia	Cytophagales	Cyclobacteriaceae			0.54	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Agrobacterium		0.67	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.48	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae	Nocardioides		0.55	0.04
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	Dyadobacter		0.78	0.01
Verrucomicrobia	Opitutae	Opitutales	Opitutaceae			0.51	0.01
Acidobacteria	Acidobacteria-6	iii1-15				0.56	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.53	0.03
Actinobacteria	Thermoleophilia	Solirubrobacterales				0.52	0.05
Proteobacteria	Alphaproteobacteria	Rhizobiales				0.47	0.05
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.62	0.01
Acidobacteria	[Chloracidobacteria]	RB41				0.53	0.03
Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiaceae			0.69	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.73	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces		0.59	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	Flavisolibacter		0.61	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia		0.68	0.01
Planctomycetes	Planctomycetia	Gemmatales	Gemmataceae	Gemmata		0.70	0.01
Chloroflexi	Gitt-GS-136					0.64	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium		0.48	0.04
Proteobacteria	Betaproteobacteria	Ellin6067				0.55	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales				0.58	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales	Solirubrobacteraceae			0.71	0.01
Planctomycetes	Planctomycetia	Planctomycetales	Planctomycetaceae	Planctomyces		0.56	0.02
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus		0.54	0.04
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae			0.61	0.01
Acidobacteria	Acidobacteria-6	iii1-15	mb			0.65	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Beutenbergiaceae			0.59	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae	Nocardioides		0.71	0.01
Bacteroidetes	Sphingobacteriia	Sphingobacteriales				0.55	0.01
Chloroflexi	Ellin6529					0.59	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae			0.55	0.01

Chloroflexi	S085				0.53	0.05
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.71	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.59	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae		0.54	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	0.53	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Agrobacterium	0.59	0.02
Proteobacteria	Deltaproteobacteria	Myxococcales			0.55	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Agromyces	0.61	0.01
Proteobacteria	Gammaproteobacteria	34P16			0.62	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.49	0.04
Planctomycetes	Planctomycetia	Gemmatales	Gemmataceae	Gemmata	0.54	0.03
Actinobacteria	Acidimicrobiia	Acidimicrobiales			0.59	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales			0.55	0.04
Acidobacteria	Acidobacteria-6	iii1-15			0.54	0.01
Nitrospirae	Nitrospira	Nitrospirales	-A		0.58	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.72	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales	C		0.62	0.01
Verrucomicrobia	Opitutae				0.72	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae		0.54	0.02
Proteobacteria	Alphaproteobacteria				0.60	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.55	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.60	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium	0.68	0.01
Planctomycetes	Planctomycetia	Gemmatales	Gemmataceae	Gemmata	0.53	0.02
Actinobacteria	Actinobacteria	Actinomycetales1570			0.71	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae		0.80	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.53	0.04
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae		0.48	0.04
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae		0.57	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales			0.67	0.01
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae		0.54	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.67	0.01
Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae		0.55	0.05
Verrucomicrobia	Opitutae	Opitutales	Opitutaceae		0.67	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	0.67	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.72	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae		0.63	0.01
Proteobacteria	Betaproteobacteria	Ellin6067			0.60	0.02

Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae			0.62	0.01
Verrucomicrobia	[Spartobacteria]	[Chthoniobacterales]	[Chthoniobacteraceae]	Candidatus	Xiphinematoba	0.64	0.02
Acidobacteria	Acidobacteria-6	iii1-15	mb			0.55	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium		0.57	0.01
Verrucomicrobia	[Spartobacteria]	[Chthoniobacterales]	[Chthoniobacteraceae]	Chthoniobacter		0.77	0.01
Acidobacteria	Acidobacteria-6	iii1-15				0.72	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae			0.69	0.01
Acidobacteria	[Chloracidobacteria]	RB41				0.52	0.04
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Arenimonas		0.57	0.02
Planctomycetes	Planctomycetia	Planctomycetales	Planctomycetaceae	Planctomyces		0.52	0.04
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae			0.55	0.04
Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae			0.75	0.01
Proteobacteria	Deltaproteobacteria	Myxococcales				0.60	0.02
Proteobacteria	Alphaproteobacteria	Rhodospirillales				0.67	0.01
Actinobacteria	Actinobacteria	Actinomycetales				0.49	0.03
Actinobacteria	Thermoleophilia	Solirubrobacterales	Solirubrobacteraceae			0.77	0.01
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae			0.60	0.02
Acidobacteria	[Chloracidobacteria]	RB41				0.53	0.02
Planctomycetes	Planctomycetia	Gemmatales	Gemmataceae	Gemmata		0.65	0.02
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae			0.70	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales				0.63	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales	Solirubrobacteraceae			0.52	0.05
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingopyxis	alaskensis	0.66	0.01
Acidobacteria	Solibacteres	Solibacterales				0.66	0.01
Nitrospirae	Nitrospira	Nitrospirales	-A			0.49	0.05
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingopyxis		0.57	0.02
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae			0.69	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Salinibacterium		0.50	0.05
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia		0.59	0.03
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.65	0.03
Acidobacteria	Acidobacteria-6	iii1-15				0.62	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces		0.67	0.02
Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae			0.70	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae			0.57	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae			0.62	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Promicromonosporaceae	Promicromonospora		0.69	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae			0.70	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae			0.60	0.01

Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.60	0.02
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae		0.55	0.03
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.65	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	0.54	0.03
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae		0.71	0.01
Acidobacteria	Solibacteres	Solibacterales			0.65	0.01
Nitrospirae	Nitrospira	Nitrospirales	-A		0.62	0.01
Gemmatimonadetes	Gemm-1				0.57	0.03
Proteobacteria	Deltaproteobacteria	Syntrophobacteriales	Syntrophobacteraceae		0.69	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae		0.66	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.68	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.63	0.01
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.71	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae		0.62	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales	C		0.77	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae		0.71	0.01
Acidobacteria	[Chloracidobacteria]	RB41			0.56	0.05
Acidobacteria	Sva0725	Sva0725			0.54	0.03
Actinobacteria	Thermoleophilia	Solirubrobacterales			0.65	0.02
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae		0.53	0.04
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	0.76	0.01
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae		0.63	0.02
Planctomycetes	Planctomycetia	Planctomycetales	Planctomycetaceae	Planctomyces	0.69	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia	0.66	0.02
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae		0.54	0.03
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae		0.62	0.02
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae		0.67	0.01
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Ramlibacter	0.81	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae		0.54	0.04
Acidobacteria	Solibacteres	Solibacterales			0.65	0.01
Actinobacteria	Rubrobacteria	Rubrobacterales	Rubrobacteraceae	Rubrobacter	0.54	0.04
Actinobacteria	Thermoleophilia	Solirubrobacterales			0.70	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	0.57	0.01
Proteobacteria	Deltaproteobacteria	Myxococcales			0.61	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales			0.59	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae		0.68	0.01
Acidobacteria	Acidobacteria-6	CCU21			0.55	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae		0.67	0.02

Gemmatimonadetes	Gemmatimonadetes				0.62	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales			0.60	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	0.77	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	0.56	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.54	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	0.79	0.01
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae		0.48	0.05
Chloroflexi	S085				0.55	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Phenylobacterium	0.87	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	0.74	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.59	0.02
Actinobacteria	Thermoleophilia	Gaiellales	Gaiellaceae		0.53	0.03
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Rubrivivax	0.74	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales	Solirubrobacteraceae		0.66	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Luteimonas	0.75	0.02
Actinobacteria	Actinobacteria	Actinomycetales1795			0.85	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae		0.60	0.02
Bacteroidetes	Cytophagia	Cytophagales	Cyclobacteriaceae		0.55	0.03
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae		0.68	0.01
Chloroflexi	Ellin6529				0.48	0.05
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodiaceae		0.82	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.66	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Sporichthyaceae	Sporichthya	0.75	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Kaistobacter	0.52	0.04
Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae		0.72	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.56	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia	0.54	0.05
Actinobacteria	MB-A2-108	0319-7L14			0.63	0.02
Acidobacteria	Acidobacteria-6	iii1-15			0.64	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	0.71	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.48	0.03
Actinobacteria	Rubrobacteria	Rubrobacterales	Rubrobacteraceae	Rubrobacter	0.62	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae		0.73	0.01
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae		0.83	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae		0.80	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.61	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.56	0.02
Verrucomicrobia	[Pedosphaerae]	[Pedosphaerales]	Ellin		0.62	0.02

Actinobacteria	Acidimicrobiia	Acidimicrobiales			0.67	0.01	
Acidobacteria	Acidobacteria-6	iii1-15			0.56	0.04	
Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae		0.62	0.01	
Nitrospirae	Nitrospira	Nitrospirales	-A		0.64	0.01	
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	0.73	0.01	
Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	Cellvibrio	0.71	0.01	
Actinobacteria	Acidimicrobiia	Acidimicrobiales	lamiaceae	lamia	0.54	0.05	
Actinobacteria	Acidimicrobiia	Acidimicrobiales	AKIW		0.66	0.01	
Actinobacteria	Acidimicrobiia	Acidimicrobiales	C		0.72	0.01	
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	0.60	0.05	
Acidobacteria	Acidobacteria-6	iii1-15			0.68	0.02	
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae		0.80	0.01	
Actinobacteria	Actinobacteria	Actinomycetales	Cryptosporangiaceae		0.53	0.05	
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Pedomicrobium	0.71	0.01	
Actinobacteria	Acidimicrobiia	Acidimicrobiales	C		0.78	0.01	
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia	0.57	0.05	
Actinobacteria	Acidimicrobiia	Acidimicrobiales	C		0.71	0.01	
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae		0.69	0.01	
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae		0.66	0.01	
Actinobacteria	Thermoleophilia	Gaiellales	Gaiellaceae		0.53	0.04	
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiaceae	Nocardia	0.68	0.01	
Actinobacteria	Acidimicrobiia	Acidimicrobiales	EB		0.57	0.02	
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae		0.48	0.04	
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae		0.65	0.02	
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae	Kribbella	0.78	0.01	
Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae		0.73	0.01	
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	0.65	0.02	
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae		0.72	0.01	
Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	Microbulbifer	0.67	0.01	
Actinobacteria	Acidimicrobiia	Acidimicrobiales	EB		0.55	0.05	
Planctomycetes	Phycisphaerae	WD2101			0.77	0.01	
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	aculeolatus	0.61	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces		0.77	0.01
Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	Microbulbifer		0.63	0.02
Actinobacteria	Rubrobacteria	Rubrobacterales	Rubrobacteraceae	Rubrobacter		0.56	0.05
Actinobacteria	Actinobacteria	Actinomycetales	Promicromonosporaceae			0.67	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.71	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium		0.85	0.01

Acidobacteria	Acidobacteria-6	iii1-15				0.53	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia		0.74	0.01
Acidobacteria	Acidobacteria-6	iii1-15	mb			0.69	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.69	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia		0.77	0.01
Gemmatimonadetes	Gemm-1					0.67	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia		0.64	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	wittichii	0.71	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae	Aeromicrobium		0.79	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter	brunescens	0.78	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes		0.82	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales				0.52	0.03
Actinobacteria	Actinobacteria	Actinomycetales	Promicromonosporaceae	Promicromonospora		0.55	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae			0.68	0.01
Acidobacteria	Acidobacteria-6	iii1-15				0.74	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales				0.72	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae			0.67	0.01
Acidobacteria	Acidobacteria-6	iii1-15				0.76	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia	halophobica	0.81	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	Mesorhizobium		0.67	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae			0.79	0.01
Planctomycetes	Planctomycetia	Planctomycetales	Planctomycetaceae	Planctomyces		0.63	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales				0.54	0.05
Actinobacteria	Thermoleophilia	Solirubrobacterales				0.59	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae			0.75	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae			0.78	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales				0.75	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae			0.97	0.01
Acidobacteria	[Chloracidobacteria]	RB41				0.64	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia		0.79	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylocystaceae	Methylopila		0.54	0.03
Proteobacteria	Deltaproteobacteria	Myxococcales				0.79	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae			0.76	0.01
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Hylemonella		0.64	0.02
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae			0.66	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae			0.76	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Mycoplana		0.55	0.04
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Kaistobacter		0.68	0.01

Proteobacteria	Alphaproteobacteria	Rhizobiales			0.82	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.75	0.01
Nitrospirae	Nitrospira	Nitrospirales	Nitrospiraceae	Nitrospira	0.64	0.02
Actinobacteria	Acidimicrobiia	Acidimicrobiales			0.79	0.01
Planctomycetes	Planctomycetia	Pirellulales	Pirellulaceae		0.81	0.01
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae		0.52	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium	0.52	0.04
Proteobacteria	Gammaproteobacteria	Legionellales	Coxiellaceae	Rickettsiella	0.61	0.03
Actinobacteria	Thermoleophilia	Solirubrobacterales	Solirubrobacteraceae		0.71	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	Mesorhizobium	0.89	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae		0.86	0.01
Acidobacteria	[Chloracidobacteria]	RB41	Ellin		0.76	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales	Solirubrobacteraceae		0.56	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.68	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.56	0.02
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae		0.77	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	Mesorhizobium	0.83	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae		0.78	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae	Kribbella	0.62	0.01
Acidobacteria	[Chloracidobacteria]	RB41	Ellin		0.57	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	Steroidobacter	0.82	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Streptomycetaceae	Streptomyces	0.76	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	0.54	0.03
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae		0.84	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium	0.89	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.65	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	Mesorhizobium	0.83	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae		0.86	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales	C		0.73	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Luteimonas	0.86	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae		0.82	0.01
Acidobacteria	[Chloracidobacteria]	RB41			0.59	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Intrasporangiaceae		0.66	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.77	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia	0.81	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae		0.79	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.67	0.01
Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Phenylobacterium	0.86	0.01

Proteobacteria	Alphaproteobacteria	Rhizobiales			0.67	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.81	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae	Aeromicrobium	0.91	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae		0.90	0.01
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae		0.78	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae		0.81	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.65	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Nocardiodaceae	Nocardioides	0.86	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae		0.89	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae		0.89	0.01
Actinobacteria	Thermoleophilia	Solirubrobacterales	Solirubrobacteraceae		0.89	0.01
Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae		0.75	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.86	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia	0.87	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	0.92	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Agromyces	0.80	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	0.53	0.03
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae		0.81	0.01
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae		0.78	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	0.83	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.63	0.02
Proteobacteria	Alphaproteobacteria	Rhizobiales			0.79	0.01
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Inquilinus	0.57	0.02
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium	0.77	0.01
Acidobacteria	Acidobacteria-6	iii1-15			0.81	0.01
Proteobacteria	Alphaproteobacteria	Rhizobiales			0.87	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Promicromonosporaceae	Xylanimicrobium	0.87	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Promicromonosporaceae	Xylanimicrobium	0.81	0.01
Actinobacteria	Acidimicrobiia	Acidimicrobiales	AKIW		0.88	0.01
Proteobacteria	Gammaproteobacteria	Thiotrichales	Piscirickettsiaceae		0.77	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium	0.99	0.01
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	Steroidobacter	0.80	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	Mycobacterium	0.85	0.01
Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia	0.81	0.01