Table S1. Bacterial diversity by taxonomic order for the vegetated and unvegetated sites. Composed by 23 Phyla, 52 Classes, 98 Orders, and 218 Families. The number of families of each order is shown for each site.

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| --- | --- | --- | --- |
|  |  |  | Families |
|  Phylum |  Class |  Order | Vegetated | Unvegetated |
|  Acidobacteria |  Acidobacteriia |  Acidobacteriales | 1 | 2 |
|  Acidobacteria |  Holophagae |  Acanthopleuribacterales | - | 1 |
|  Acidobacteria |  Holophagae |  Holophagales | - | 1 |
|  Acidobacteria |  Solibacteres |  Solibacterales | - | 1 |
|  Actinobacteria |  Acidimicrobiia |  Acidimicrobiales | 3 | 3 |
|  Actinobacteria |  Actinobacteria |  Actinomycetales | 23 | 28 |
|  Actinobacteria |  Actinobacteria |  Bifidobacteriales | - | 1 |
|  Actinobacteria |  Actinobacteria |  Euzebyales | 1 | 1 |
|  Actinobacteria |  Actinobacteria |  Gaiellales | 1 | 1 |
|  Actinobacteria |  Actinobacteria |  Nitriliruptorales | 1 | 1 |
|  Actinobacteria |  Actinobacteria |  Rubrobacterales | 1 | 1 |
|  Actinobacteria |  Actinobacteria |  Solirubrobacterales | 3 | 3 |
|  Actinobacteria |  Coriobacteriia |  Coriobacteriales | 1 | 1 |
|  Actinobacteria |  Thermoleophilia |  Thermoleophilales | 1 | 1 |
|  Aquificae |  Aquificae |  Desulfurobacteriales | 1 | - |
|  Armatimonadetes |  Armatimonadia |  Armatimonadales | - | 1 |
|  Armatimonadetes |  Chthonomonadetes |  Chthonomonadales | - | 1 |
|  Bacteroidetes |  [Saprospirae] |  [Saprospirales] | - | 1 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales | 4 | 6 |
|  Bacteroidetes |  Cytophagia |  Cytophagales | 2 | 2 |
|  Bacteroidetes |  Flavobacteriia |  Flavobacteriales | 1 | 2 |
|  Bacteroidetes |  Sphingobacteriia |  Sphingobacteriales | 3 | 3 |
|  Chlamydiae |  Chlamydiia |  Chlamydiales | 5 | 4 |
|  Chlorobi |  Chlorobia |  Chlorobiales | - | 1 |
|  Chloroflexi |  Anaerolineae |  Anaerolineales | 1 | 1 |
|  Chloroflexi |  Anaerolineae |  Ardenscatenales | 1 | 1 |
|  Chloroflexi |  Ardenticatenia |  Ardenticatenales | 1 | - |
|  Chloroflexi |  Caldilineae |  Caldilineales | 1 | 1 |
|  Chloroflexi |  Chloroflexia |  Chloroflexales | 1 | - |
|  Chloroflexi |  Dehalococcoidia |  Dehalococcoidales | 1 | 1 |
|  Chloroflexi |  Ktedonobacteria |  Ktedonobacterales | 2 | 1 |
|  Chloroflexi |  Thermomicrobia |  Sphaerobacterales | 1 | 1 |
|  Cyanobacteria |  Gloeobacterophycideae |  Gloeobacterales | 1 | 1 |
|  Cyanobacteria |  Nostocophycideae |  Nostocales | 1 | 1 |
|  Cyanobacteria |  Oscillatoriophycideae |  Chroococcales | 1 | 1 |
|  Cyanobacteria |  Oscillatoriophycideae |  Oscillatoriales | 1 | 1 |
|  Deinococcus-Thermus |  Deinococci |  Deinococcales | 1 | - |
|  Deinococcus-Thermus |  Deinococci |  Thermales | 1 | - |
|  Firmicutes |  Bacilli |  Bacillales | 6 | 5 |
|  Firmicutes |  Bacilli |  Lactobacillales | 5 | 5 |
|  Firmicutes |  Clostridia |  Clostridiales | 11 | 12 |
|  Firmicutes |  Clostridia |  Thermoanaerobacterales | 1 | 1 |
|  Firmicutes |  Erysipelotrichi |  Erysipelotrichales | - | 1 |
|  Firmicutes |  Negativicutes |  Selenomonadales | 1 | 1 |
|  Firmicutes |  Thermolithobacteria |  Thermolithobacterales | - | 1 |
|  Fusobacteria |  Fusobacteriia |  Fusobacteriales | - | 1 |
|  Gemmatimonadetes |  Gemmatimonadetes |  Gemmatimonadales | 1 | 1 |
|  Ignavibacteriae |  Ignavibacteria |  Ignavibacteriales | 1 | 2 |
|  Lentisphaerae |  Lentisphaeria |  Victivallales | 1 | - |
|  Nitrospinae |  Nitrospinia |  Nitrospinales | 1 | 1 |
|  Nitrospirae |  Nitrospira |  Nitrospirales | 2 | 2 |
|  Planctomycetes |  Phycisphaerae |  Phycisphaerales | 1 | 1 |
|  Planctomycetes |  Planctomycetia |  Candidatus Brocadiales | - | 1 |
|  Planctomycetes |  Planctomycetia |  Planctomycetales | 1 | 1 |
|  Proteobacteria |  Alphaproteobacteria |  Caulobacterales | 1 | 1 |
|  Proteobacteria |  Alphaproteobacteria |  Rhizobiales | 12 | 10 |
|  Proteobacteria |  Alphaproteobacteria |  Rhodobacterales | 2 | 2 |
|  Proteobacteria |  Alphaproteobacteria |  Rhodospirillales | 2 | 2 |
|  Proteobacteria |  Alphaproteobacteria |  Rickettsiales | 1 | 1 |
|  Proteobacteria |  Alphaproteobacteria |  Sneathiellales | 1 | - |
|  Proteobacteria |  Alphaproteobacteria |  Sphingomonadales | 2 | 2 |
|  Proteobacteria |  Betaproteobacteria |  Burkholderiales | 5 | 4 |
|  Proteobacteria |  Betaproteobacteria |  Ferritrophicales | 1 | 1 |
|  Proteobacteria |  Betaproteobacteria |  Gallionellales | 1 | 1 |
|  Proteobacteria |  Betaproteobacteria |  Hydrogenophilales | 1 | 1 |
|  Proteobacteria |  Betaproteobacteria |  Methylophilales | - | 1 |
|  Proteobacteria |  Betaproteobacteria |  Neisseriales | 2 | 2 |
|  Proteobacteria |  Betaproteobacteria |  Nitrosomonadales | 1 | - |
|  Proteobacteria |  Betaproteobacteria |  Rhodocyclales | 1 | 1 |
|  Proteobacteria |  Betaproteobacteria |  Sulfuricellales | 1 | 1 |
|  Proteobacteria |  Deltaproteobacteria |  Bdellovibrionales | 2 | 1 |
|  Proteobacteria |  Deltaproteobacteria |  Desulfobacterales | 1 | 2 |
|  Proteobacteria |  Deltaproteobacteria |  Desulfovibrionales | 2 | 2 |
|  Proteobacteria |  Deltaproteobacteria |  Desulfurellales | 1 | 1 |
|  Proteobacteria |  Deltaproteobacteria |  Desulfuromonadales | 2 | 3 |
|  Proteobacteria |  Deltaproteobacteria |  Myxococcales | 6 | 5 |
|  Proteobacteria |  Deltaproteobacteria |  Syntrophobacterales | 2 | 3 |
|  Proteobacteria |  Epsilonproteobacteria |  Campylobacterales | 2 | 2 |
|  Proteobacteria |  Epsilonproteobacteria |  Nautiliales | - | 1 |
|  Proteobacteria |  Gammaproteobacteria |  Acidithiobacillales | 1 | 1 |
|  Proteobacteria |  Gammaproteobacteria |  Aeromonadales | 1 | 1 |
|  Proteobacteria |  Gammaproteobacteria |  Alteromonadales | 2 | 2 |
|  Proteobacteria |  Gammaproteobacteria |  Arenicellales | 1 | - |
|  Proteobacteria |  Gammaproteobacteria |  Chromatiales | 2 | 3 |
|  Proteobacteria |  Gammaproteobacteria |  Enterobacteriales | 1 | 1 |
|  Proteobacteria |  Gammaproteobacteria |  Legionellales | 2 | 2 |
|  Proteobacteria |  Gammaproteobacteria |  Methylococcales | 1 | 1 |
|  Proteobacteria |  Gammaproteobacteria |  Oceanospirillales | 3 | 2 |
|  Proteobacteria |  Gammaproteobacteria |  Pasteurellales | 1 | - |
|  Proteobacteria |  Gammaproteobacteria |  Pseudomonadales | 2 | 2 |
|  Proteobacteria |  Gammaproteobacteria |  Thiotrichales | 2 | 1 |
|  Proteobacteria |  Gammaproteobacteria |  Xanthomonadales | 2 | 2 |
|  Spirochaetes |  Spirochaetia |  Spirochaetales | 3 | 3 |
|  Synergistetes |  Synergistia |  Synergistales | - | 1 |
|  Tenericutes |  Mollicutes |  Acholeplasmatales | 1 | 1 |
|  Tenericutes |  Mollicutes |  Mycoplasmatales | 1 | - |
|  Verrucomicrobia |  Opitutae |  Opitutales | 1 | 1 |
|  Verrucomicrobia |  Verrucomicrobiae |  Verrucomicrobiales | 1 | 1 |