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D_0_Archaea;D_1_Nanohaloarchaeota;Other;Other
D_0_Archaea;D_1_Thaumarchaeota;D_2_Soil Crenarchaeotic Group(SCG);D_3_uncultured archaeon
    D_0_Bacteria;D_1_Acidobacteria;D_2_Acidobacteria;D_3_Acidobacteriales
D_0_Bacteria;D_1_Acidobacteria;D_2_Acidobacteria;D_3_Subgroup 3
D_0_Bacteria;D_1_Acidobacteria;D_2_Acidobacteria;D_3_Subgroup 4
D_0_Bacteria;D_1_Actinobacteria;D_2_Acidimicrobiia;D_3_Acidimicrobiales
D_0_Bacteria;D_1_Actinobacteria;D_2_Actinobacteria;D_3_Actinomycetales
D_0_Bacteria;D_1_Actinobacteria;D_2_Actinobacteria;D_3_Corynebacteriales
  D_0_Bacteria;D_1_Actinobacteria;D_2_Actinobacteria;D_3_Frankiales
   D_0_Bacteria;D_1_Actinobacteria;D_2_Actinobacteria;D_3_Kineosporiales
D_0_Bacteria;D_1_Actinobacteria;D_2_Actinobacteria;D_3_Micrococcales
    D_0_Bacteria;D_1_Actinobacteria;D_2_Actinobacteria;D_3_Propionibacteriales
D_0_Bacteria;D_1_Actinobacteria;D_2_Actinobacteria;D_3_Pseudonocardiales
D_0_Bacteria;D_1_Actinobacteria;D_2_Nitriliruptoria;D_3_Euzebyales
     \label{eq:decomposition} D\_0\_Bacteria; D\_1\_Actinobacteria; D\_2\_Rubrobacteria; D\_3\_Rubrobacterales
D_0_Bacteria;D_1_Actinobacteria;D_2_Thermoleophilia;D_3_Solirubrobacterales
D_0_Bacteria;D_1_Armatimonadetes;D_2_Armatimonadia;D_3_Armatimonadales
D_0_Bacteria;D_1_Armatimonadetes;D_2_uncultured bacterium;D_3_uncultured bacterium
D_0_Bacteria;D_1_Bacteroidetes;D_2_Bacteroidia;D_3_Bacteroidales
D_0_Bacteria;D_1_Bacteroidetes;D_2_Cytophagia;D_3_Cytophagales
D_0_Bacteria;D_1_Bacteroidetes;D_2_Cytophagia;D_3_Order II
D_0_Bacteria;D_1_Bacteroidetes;D_2_Flavobacteriia;D_3_Flavobacteriales
D_0_Bacteria;D_1_Bacteroidetes;D_2_Sphingobacteriia;D_3_Sphingobacteriales
  ■ D_0_Bacteria;D_1_Chloroflexi;D_2_Ardenticatenia;D_3_Ardenticatenales
D 0 Bacteria;D 1 Chloroflexi;D 2 Ktedonobacteria;D 3 C0119
D_0_Bacteria;D_1_Chloroflexi;D_2_Thermomicrobia;D_3_JG30-KF-CM45
    D 0 Bacteria; D 1 Cyanobacteria; D 2 Chloroplast; D 3 uncultured Chlorophyta
D_0_Bacteria;D_1_Cyanobacteria;D_2_Chloroplast;D_3_uncultured bacterium
    D_0_Bacteria;D_1_Cyanobacteria;D_2_Chloroplast;D_3_uncultured eukaryote
D_0_Bacteria;D_1_Cyanobacteria;D_2_Chloroplast;D_3_uncultured organism
    D_0_Bacteria;D_1_Cyanobacteria;D_2_Chloroplast;Other
     \label{eq:decomposition} D\_0\_Bacteria; D\_1\_Cyanobacteria; D\_2\_Cyanobacteria; D\_3\_Subsection I
    \label{eq:decomposition} D\_0\_Bacteria; D\_1\_Cyanobacteria; D\_2\_Cyanobacteria; D\_3\_Subsection II
D_0_Bacteria;D_1_Cyanobacteria;D_2_Cyanobacteria;D_3_SubsectionIII
D_0_Bacteria;D_1_Cyanobacteria;D_2_Cyanobacteria;D_3_SubsectionIV
D_0_Bacteria;D_1_Cyanobacteria;D_2_Cyanobacteria;D_3_uncultured
D_0_Bacteria;D_1_Cyanobacteria;D_2_Cyanobacteria;Other
  D_0_Bacteria;D_1_Deinococcus-Thermus;D_2_Deinococci;D_3_Deinococcales
  D_0_Bacteria;D_1_Firmicutes;D_2_Bacilli;D_3_Bacillales
D_0_Bacteria;D_1_Firmicutes;D_2_Bacilli;D_3_Lactobacillales
    D_0_Bacteria;D_1_Firmicutes;D_2_Clostridia;D_3_Clostridiales
D_0_Bacteria;D_1_Fusobacteria;D_2_Fusobacteriia;D_3_Fusobacteriales
D_0_Bacteria;D_1_Gemmatimonadetes;D_2_Gemmatimonadetes;D_3_AT425-EubC11 terrestrial group
     \label{eq:decomposition} D\_0\_Bacteria; D\_1\_Planctomycetes; D\_2\_Phycisphaerae; D\_3\_Phycisphaerales
   D_0_Bacteria;D_1_Planctomycetes;D_2_Planctomycetacia;D_3_Planctomycetales
  D_0_Bacteria;D_1_Proteobacteria;D_2_Alphaproteobacteria;D_3_Caulobacterales
D_0_Bacteria;D_1_Proteobacteria;D_2_Alphaproteobacteria;D_3_Rhizobiales
D_0_Bacteria;D_1_Proteobacteria;D_2_Alphaproteobacteria;D_3_Rhodobacterales
D_0_Bacteria;D_1_Proteobacteria;D_2_Alphaproteobacteria;D_3_Rhodospirillales
  D_0_Bacteria;D_1_Proteobacteria;D_2_Alphaproteobacteria;D_3_Sphingomonadales
D_0_Bacteria;D_1_Proteobacteria;D_2_Betaproteobacteria;D_3_Burkholderiales
  ■ D_0_Bacteria;D_1_Proteobacteria;D_2_Betaproteobacteria;D_3_Neisseriales
  ■ D_0_Bacteria;D_1_Proteobacteria;D_2_Deltaproteobacteria;D_3_Desulfuromonadales
D 0 Bacteria;D 1 Proteobacteria;D 2 Deltaproteobacteria;D 3 Myxococcales
D_0_Bacteria;D_1_Proteobacteria;D_2_Gammaproteobacteria;D_3_Alteromonadales
    D_0_Bacteria;D_1_Proteobacteria;D_2_Gammaproteobacteria;D_3_Chromatiales
D 0 Bacteria;D 1 Proteobacteria;D 2 Gammaproteobacteria;D 3 Enterobacteriales
    D 0 Bacteria;D 1 Proteobacteria;D 2 Gammaproteobacteria;D 3 Oceanospirillales
    D_0_Bacteria;D_1_Proteobacteria;D_2_Gammaproteobacteria;D_3_Pasteurellales
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D_0_Bacteria;D_1_Proteobacteria;D_2_Gammaproteobacteria;D_3_Pseudomonadales
 D_0_Bacteria;D_1_TM6;D_2_uncultured bacterium;D_3_uncultured bacterium
 D_0_Bacteria;D_1_Verrucomicrobia;D_2_Spartobacteria;D_3_Chthoniobacterales

Unassigned:Other:Other:Other

■ D 0 Archaea;D 1 Euryarchaeota;D 2 Halobacteria;D 3 Halobacteriales

 $\label{eq:decomposition} D_0_Archaea; D_1_Nanohaloarchaeota; D_2_uncultured archaeon; D_3_uncultured archaeon\\ D_0_Archaea; D_1_Nanohaloarchaeota; D_2_uncultured haloarchaeon; D_3_uncultured haloarchaeon\\ D_0_Archaea; D_1_Nanohaloarchaeota; D_2_uncultured haloarchaeon; D_3_uncultured haloarchaeon\\ D_0_Archaea; D_1_Nanohaloarchaeota; D_1_uncultured haloarchaeon; D_1_uncultured haloarchaeon\\ D_1_uncultured haloarchaeota; D_2_uncultured haloarchaeon; D_3_uncultured haloar$