```
k_Archaea;p_Euryarchaeota;c_Methanomicrobia;o_Methanomicrobiales;f_Methanoregulaceae
k_Bacteria;p_Acidobacteria;c_Acidobacteriia;o_Acidobacteriales;f_Acidobacteriaceae
k_Bacteria;p_Acidobacteria;c_Acidobacteriia;o_Acidobacteriales;f_Koribacteraceae
      k\_Bacteria; p\_Acidobacteria; c\_Holophagae; o\_Holophagales; f\_Holophagaceae
      k\_Bacteria; p\_Actinobacteria; c\_Actinobacteria; o\_Actinomycetales; f\_Gordoniaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Microbacteriaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Mycobacteriaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Nocardioidaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Streptomycetaceae
k_Bacteria;p_Actinobacteria;c_Thermoleophilia;o_Solirubrobacterales;f_
k_Bacteria;p_Actinobacteria;c_Thermoleophilia;o_Solirubrobacterales;f_Conexibacteraceae
k_Bacteria;p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;f_
     k\_Bacteria; p\_Bacteroidetes; c\_Bacteroidia; o\_Bacteroidales; f\_Porphyromonadaceae
k_Bacteria;p_Bacteroidetes;c_Cytophagia;o_Cytophagales;f_Cytophagaceae
k_Bacteria;p_Bacteroidetes;c_Flavobacteriia;o_Flavobacteriales;f_[Weeksellaceae]
      {\tt k\_Bacteria;p\_Bacteroidetes;c\_Sphingobacteriia;o\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;f\_Sphingobacteriales;
k_Bacteria;p_Bacteroidetes;c_Sphingobacteriia;o_Sphingobacteriales;f_Sphingobacteriaceae
k_Bacteria;p_Bacteroidetes;c_[Saprospirae];o_[Saprospirales];f_
k_Bacteria;p_Bacteroidetes;c_[Saprospirae];o_[Saprospirales];f_Chitinophagaceae
k_Bacteria;p_Chlamydiae;c_Chlamydiia;o_Chlamydiales;f_
k_Bacteria;p_Cyanobacteria;c_4C0d-2;o_YS2;f_
k_Bacteria;p_Cyanobacteria;c_Chloroplast;o_Cryptophyta;f_
k_Bacteria;p_Cyanobacteria;c_Chloroplast;o_Streptophyta;f_
k_Bacteria;p_Cyanobacteria;c_Oscillatoriophycideae;o_Chroococcales;f_Microcystaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Bacillaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Paenibacillaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae
k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae
k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Peptostreptococcaceae
     k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Ruminococcaceae
k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Veillonellaceae
k_Bacteria;p_Planctomycetes;c_Phycisphaerae;o_WD2101;f_
      k\_Bacteria; p\_Planctomycetes; c\_Planctomycetia; o\_Gemmatales; f\_Gemmataceae
      k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Caulobacterales;f_Caulobacteraceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Ellin329;f_
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Beijerinckiaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Bradyrhizobiaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Brucellaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Hyphomicrobiaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Methylocystaceae
     \label{lem:k_Bacteria} \verb|k_Bacteria|; p_Proteobacteria|; c_Alphaproteobacteria|; o_Rhizobiales; f_Phyllobacteria| ceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Rhizobiaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhodobacterales;f_Rhodobacteraceae
      k\_Bacteria; p\_Proteobacteria; c\_Alphaproteobacteria; o\_Rhodospirillales; f\_Acetobacteraceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhodospirillales;f_Rhodospirillaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rickettsiales;f_
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Sphingomonadales;Other
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Sphingomonadales;f_Sphingomonadaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_Burkholderiaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_Comamonadaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_Oxalobacteraceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Ellin6067;f_
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Neisseriales;f_Neisseriaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Procabacteriales;f_Procabacteriaceae
   k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Rhodocyclales;f_Rhodocyclaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Thiobacterales;f_Thiobacteraceae
   ■ k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Myxococcales;f_Myxococcaceae
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Legionellales;f_Legionellaceae
      k\_Bacteria; p\_Proteobacteria; c\_Gamma proteobacteria; o\_Pseudomonadales; f\_Moraxellaceae
      {\tt k\_Bacteria;p\_Proteobacteria;c\_Gamma proteobacteria;o\_Pseudomonadales;f\_Pseudomonadaceae}
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Xanthomonadales;f_Sinobacteraceae
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Xanthomonadales;f_Xanthomonadaceae
k_Bacteria;p_Spirochaetes;c_Spirochaetes;o_Spirochaetales;f_Spirochaetaceae
k_Bacteria;p_Verrucomicrobia;c_Opitutae;o_Opitutales;f_Opitutaceae
k_Bacteria;p_Verrucomicrobia;c_Verruco-5;o_LD1-PB3;f_
k_Bacteria;p_Verrucomicrobia;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Verrucomicrobiaceae
k_Bacteria;p_Verrucomicrobia;c_[Methylacidiphilae];o_Methylacidiphilales;f_
     k_Bacteria;p_Verrucomicrobia;c_[Pedosphaerae];o_[Pedosphaerales];f_
k_Bacteria;p_Verrucomicrobia;c_[Pedosphaerae];o_[Pedosphaerales];f_Ellin515
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k_Bacteria;p_Verrucomicrobia;c_[Pedosphaerae];o_[Pedosphaerales];f_auto67_4W

k_Bacteria;p_Verrucomicrobia;c_[Spartobacteria];o_[Chthoniobacterales];f_[Chthoniobacteraceae]

k_Archaea;p_Euryarchaeota;c_Methanobacteria;o_Methanobacteriales;f_Methanobacteriaceae

Unassigned;Other;Other;Other;Other