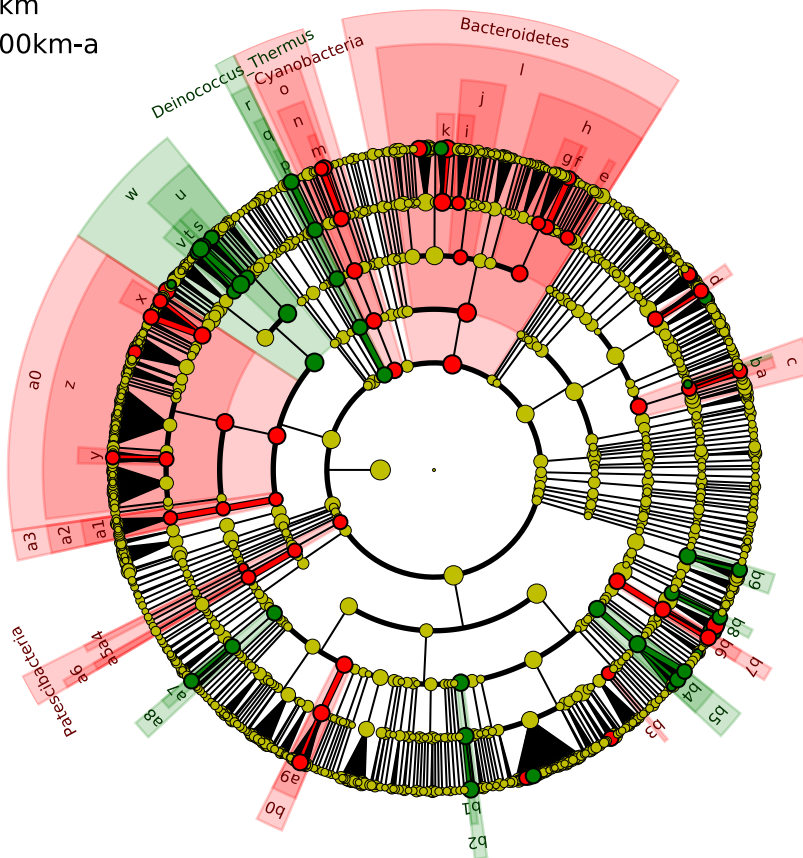


# Cladogram

■ T0km  
■ T200km-a

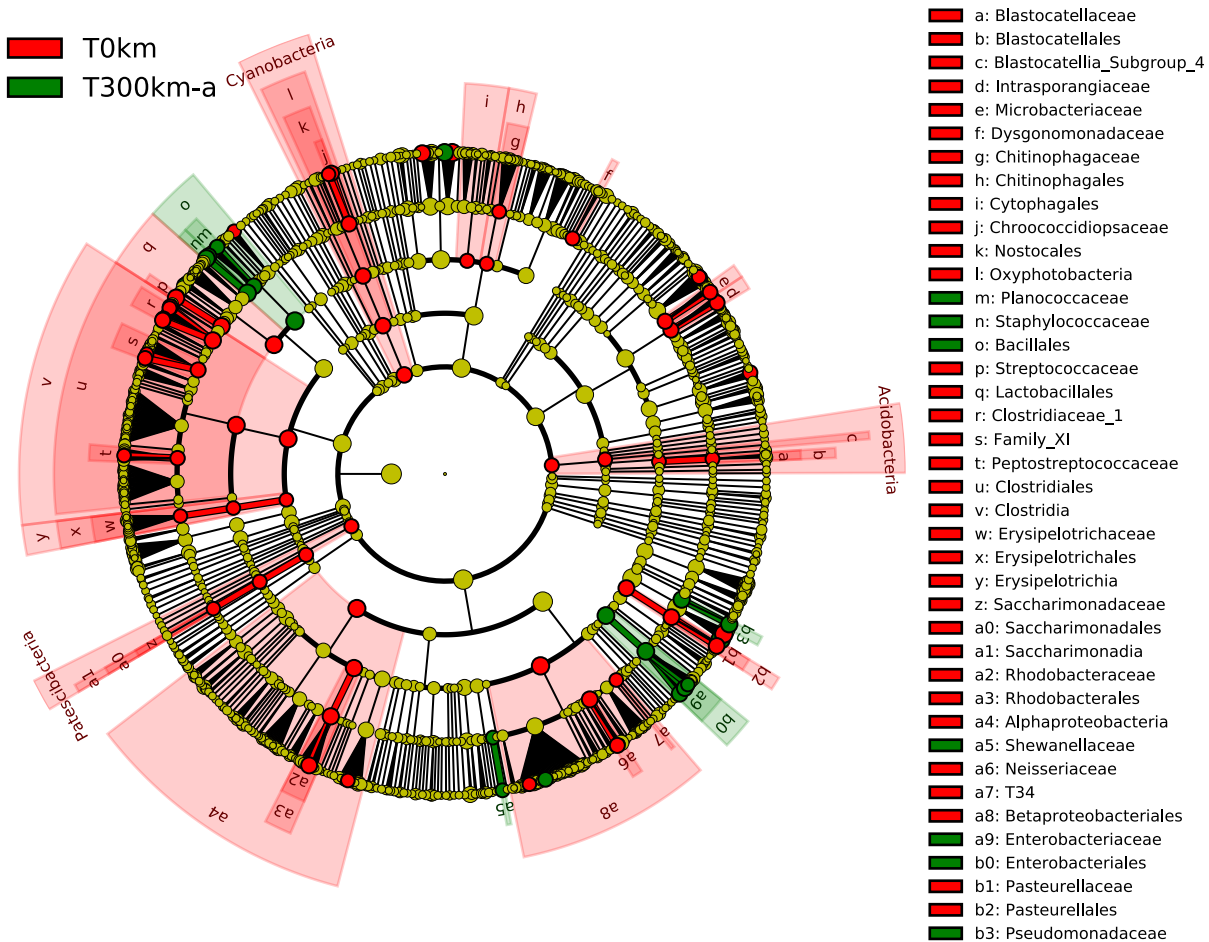


- a: Nocardiaceae
- b: Segniliparaceae
- c: Corynebacteriales
- d: Microbacteriaceae
- e: Dysgonomonadaceae
- f: Porphyromonadaceae
- g: Prevotellaceae
- h: Bacteroidales
- i: Spirosomaceae
- j: Cytophagales
- k: Flavobacteriaceae
- l: Bacteroidia
- m: Chroococciopsaceae
- n: Nostocales
- o: Oxyphotobacteria
- p: Deinococcaceae
- q: Deinococcales
- r: Deinococci
- s: Planococcaceae
- t: Staphylococcaceae
- u: Bacillales
- v: Aerococcaceae
- w: Bacilli
- x: Clostridiaceae\_1
- y: Peptostreptococcaceae
- z: Clostridiales
- a0: Clostridia
- a1: Erysipelotrichaceae
- a2: Erysipelotrichales
- a3: Erysipelotrichia
- a4: Absconditabacteriales\_SR1\_
- a5: Saccharimonadales
- a6: Saccharimonadia
- a7: Caulobacteraceae
- a8: Caulobacterales
- a9: Rhodobacteraceae
- b0: Rhodobacterales
- b1: Aeromonadaceae
- b2: Aeromonadales
- b3: T34
- b4: Enterobacteriaceae
- b5: Enterobacteriales
- b6: Pasteurellaceae
- b7: Pasteurellales
- b8: Pseudomonadaceae
- b9: Xanthomonadaceae

# Cladogram

T0km

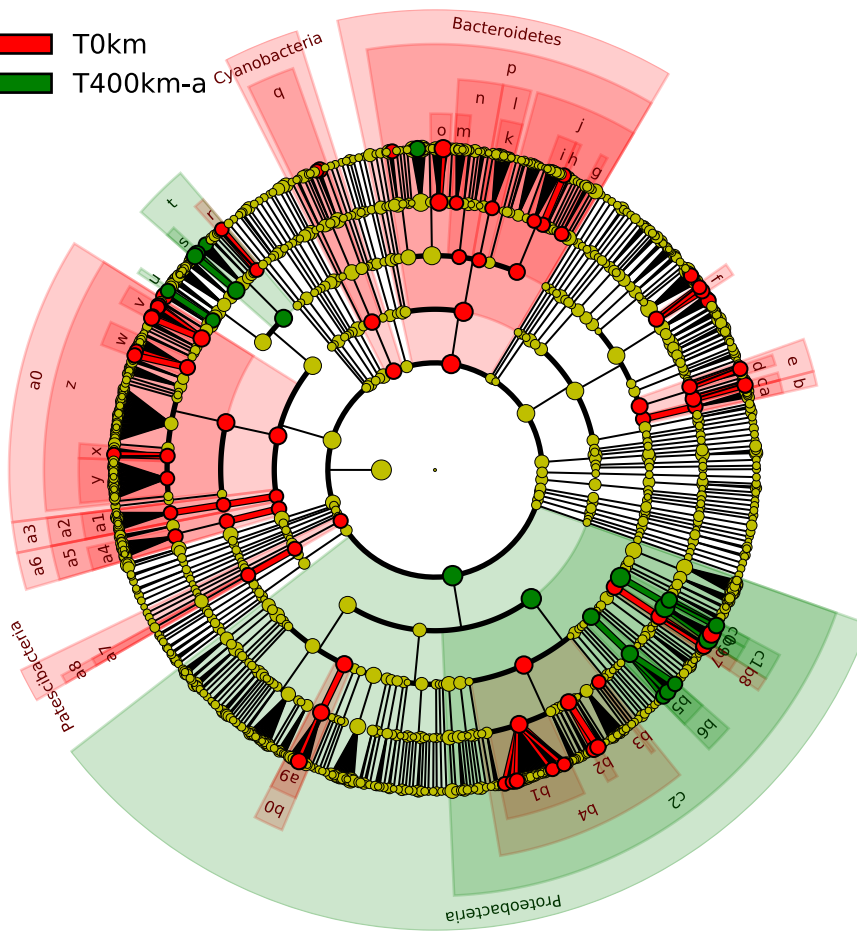
T300km-a



# Cladogram

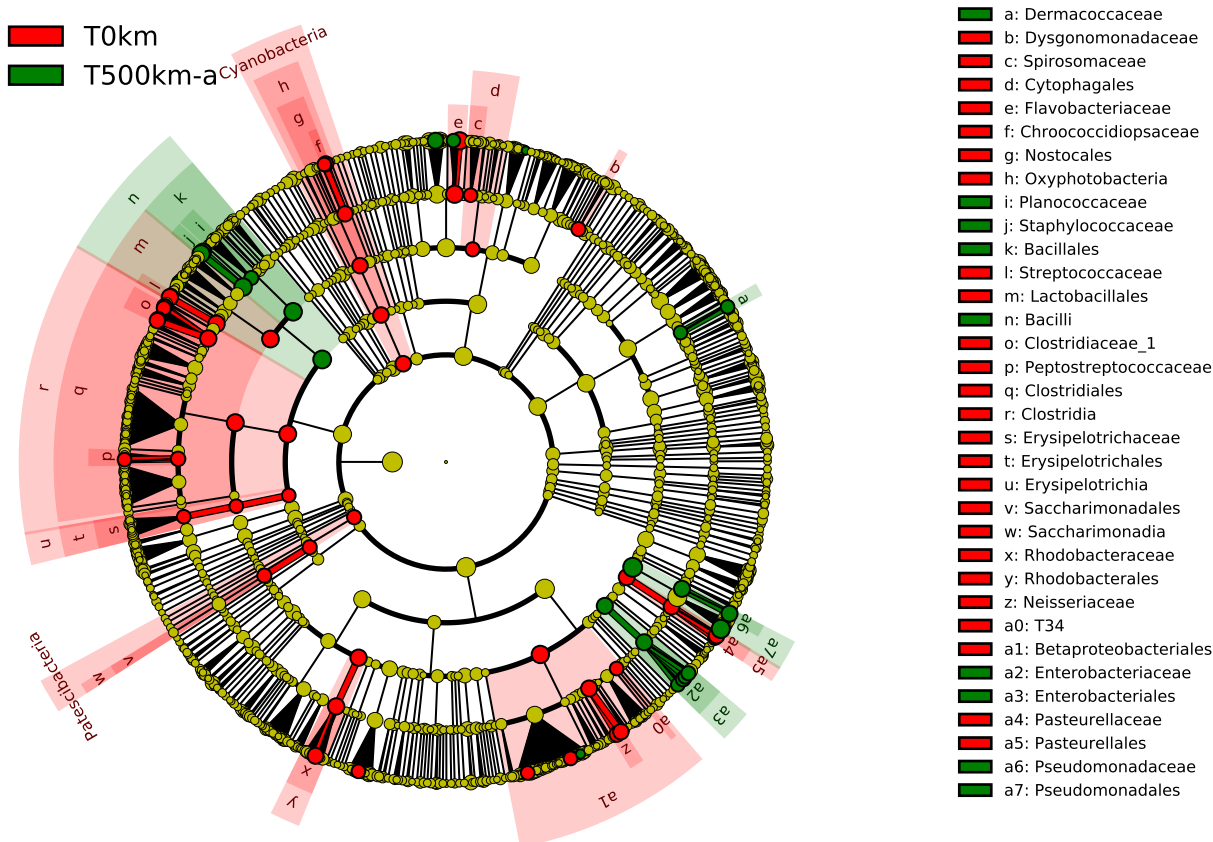
T0km

T400km-a



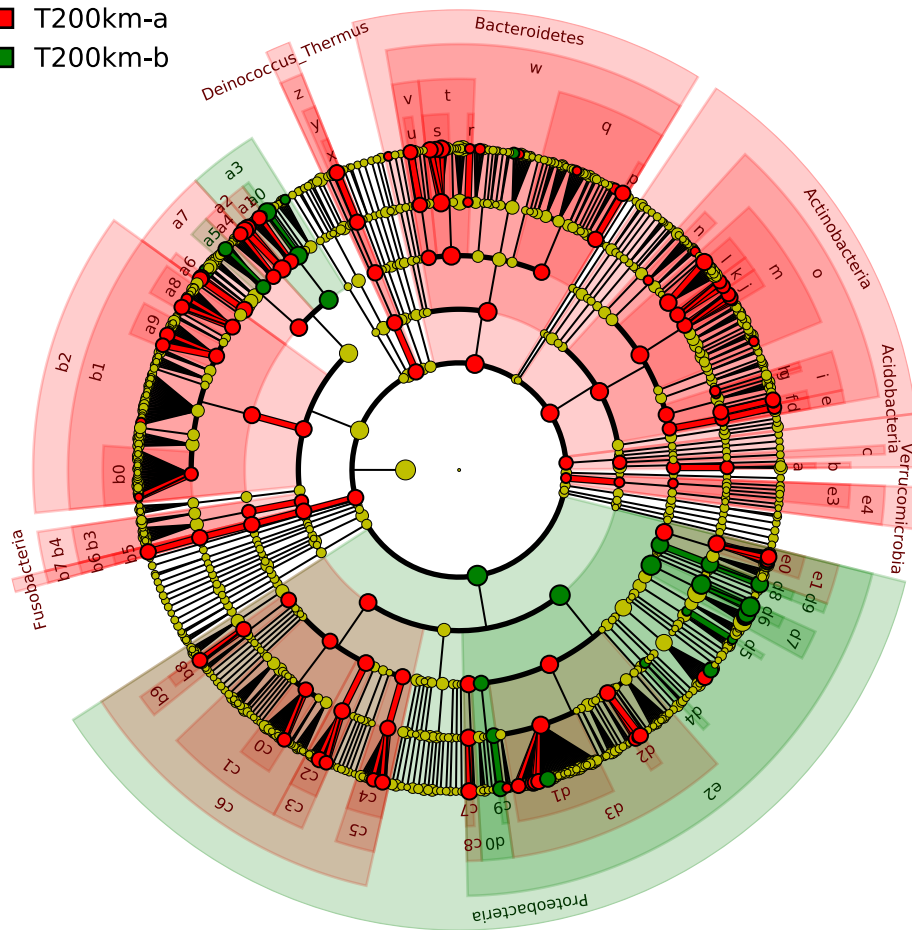
- a: Actinomycetaceae
- b: Actinomycetales
- c: Corynebacteriaceae
- d: Nocardiaceae
- e: Corynebacteriales
- f: Microbacteriaceae
- g: Dysgonomonadaceae
- h: Porphyromonadaceae
- i: Prevotellaceae
- j: Bacteroidales
- k: Chitinophagaceae
- l: Chitinophagales
- m: Spirosomaceae
- n: Cytophagales
- o: Flavobacteriaceae
- p: Bacteroidia
- q: Oxyphotobacteria
- r: Bacillaceae
- s: Staphylococcaceae
- t: Bacillales
- u: Leuconostocaceae
- v: Clostridiaceae\_1
- w: Family\_XI
- x: Peptostreptococcaceae
- y: Ruminococcaceae
- z: Clostridiales
- a0: Clostridia
- a1: Erysipelotrichaceae
- a2: Erysipelotrichales
- a3: Erysipelotrichia
- a4: Veillonellaceae
- a5: Selenomonadales
- a6: Negativicutes
- a7: Saccharimonadales
- a8: Saccharimonadia
- a9: Rhodobacteraceae
- b0: Rhodobacterales
- b1: Burkholderiaceae
- b2: Neisseriaceae
- b3: T34
- b4: Betaproteobacteriales
- b5: Enterobacteriaceae
- b6: Enterobacteriales
- b7: Pasteurellaceae
- b8: Pasteurellales
- b9: Moraxellaceae
- c0: Pseudomonadaceae
- c1: Pseudomonadales
- c2: Gammaproteobacteria

# Cladogram



# Cladogram

■ T200km-a  
■ T200km-b

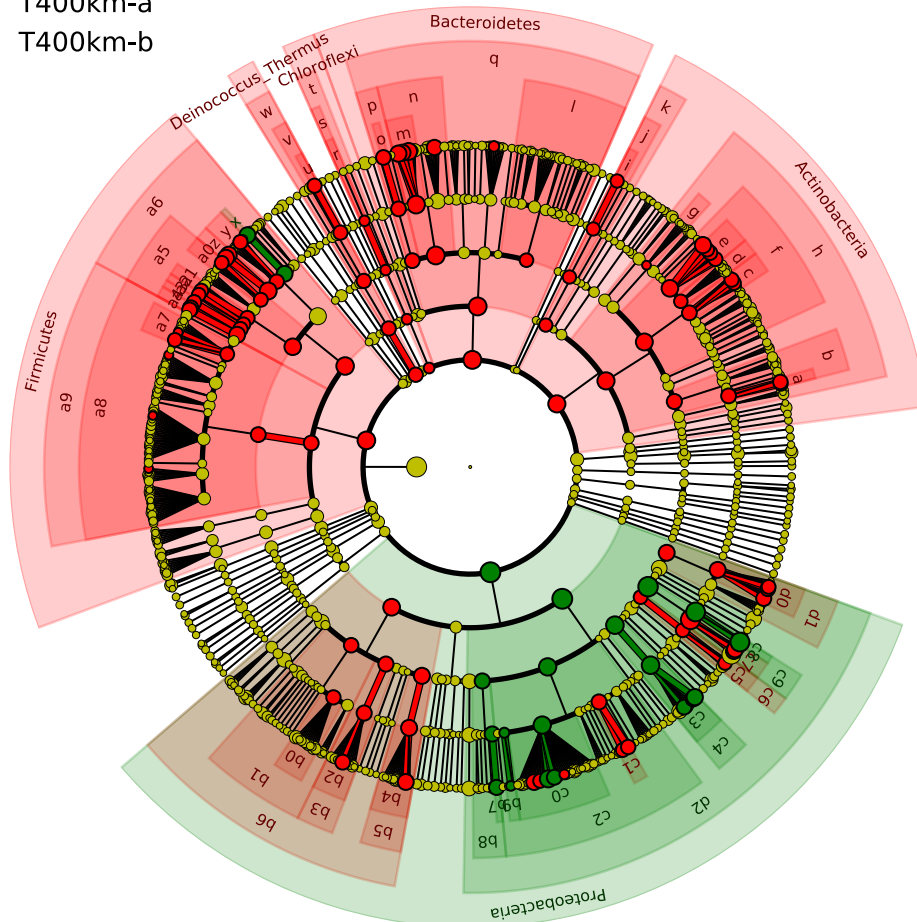


- a: Blastocatellaceae
- b: Blastocatellales
- c: Blastocatellia\_Subgroup\_4\_
- d: Actinomycetaceae
- e: Actinomycetales
- f: Corynebacteriaceae
- g: Segniliparaceae
- h: Tsukamurellaceae
- i: Corynebacteriales
- j: Intrasporangiaceae
- k: Microbacteriaceae
- l: Micrococcaceae
- m: Micrococcales
- n: Propionibacteriaceae
- o: Actinobacteria
- p: Bacteroidaceae
- q: Bacteroidales
- r: Crocinitomicaceae
- s: Weeksellaceae
- t: Flavobacteriales
- u: Sphingobacteriaceae
- v: Sphingobacteriales
- w: Bacteroidia
- x: Deinococcaceae
- y: Deinococcales
- z: Deinococci
- a0: Listeriaceae
- a1: Planococcaceae
- a2: Staphylococcaceae
- a3: Bacillales
- a4: Aerococcaceae
- a5: Carnobacteriaceae
- a6: Streptococcaceae
- a7: Lactobacillales
- a8: Clostridiaceae\_1
- a9: Family\_XI
- b0: Ruminococcaceae
- b1: Clostridiales
- b2: Clostridia
- b3: Selenomonadales
- b4: Negativicutes
- b5: Fusobacteriaceae
- b6: Fusobacteriales
- b7: Fusobacteriia
- b8: Caulobacteraceae
- b9: Caulobacterales
- c0: Rhizobiaceae
- c1: Rhizobiales
- c2: Rhodobacteraceae
- c3: Rhodobacterales
- c4: Sphingomonadaceae
- c5: Sphingomonadales
- c6: Alphaproteobacteria
- c7: Aeromonadaceae
- c8: Aeromonadales
- c9: Shewanellaceae
- d0: Alteromonadales
- d1: Burkholderiaceae
- d2: Neisseriaceae
- d3: Betaproteobacteriales
- d4: Wohlfahrtiimonadaceae
- d5: Nitrincolaceae
- d6: Pseudomonadaceae
- d7: Pseudomonadales
- d8: Vibrionaceae
- d9: Vibrionales
- e0: Xanthomonadaceae
- e1: Xanthomonadales
- e2: Gammaproteobacteria
- e3: Verrucomicrobiales
- e4: Verrucomicrobiae



# Cladogram

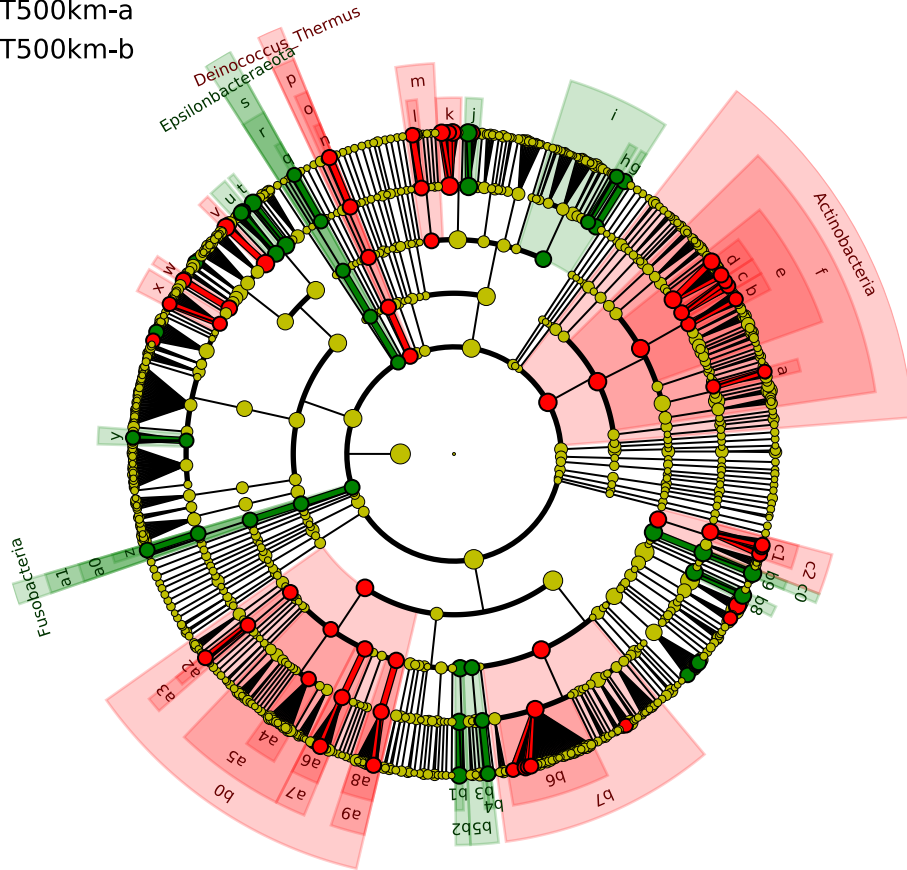
■ T400km-a  
■ T400km-b



- a: Corynebacteriaceae
- b: Corynebacteriales
- c: Intrasporangiaceae
- d: Microbacteriaceae
- e: Micrococcaceae
- f: Micrococcales
- g: Propionibacteriaceae
- h: Actinobacteria
- i: Solirubrobacteraceae
- j: Solirubrobacterales
- k: Thermolephilia
- l: Bacteroidales
- m: Weeksellaceae
- n: Flavobacteriales
- o: Sphingobacteriaceae
- p: Sphingobacteriales
- q: Bacteroidia
- r: JG30\_KF\_CM45
- s: Thermomicrobiales
- t: Chloroflexia
- u: Deinococcaceae
- v: Deinococcales
- w: Deinococci
- x: Listeriaceae
- y: Planococcaceae
- z: Staphylococcaceae
- a0: Aerococcaceae
- a1: Enterococcaceae
- a2: Lactobacillaceae
- a3: Leuconostocaceae
- a4: Streptococcaceae
- a5: Lactobacillales
- a6: Bacilli
- a7: Clostridiaceae\_1
- a8: Clostridiales
- a9: Clostridia
- b0: Rhizobiaceae
- b1: Rhizobiales
- b2: Rhodobacteraceae
- b3: Rhodobacterales
- b4: Sphingomonadaceae
- b5: Sphingomonadales
- b6: Alphaproteobacteria
- b7: Shewanellaceae
- b8: Alteromonadales
- b9: Aquaspirillaceae
- c0: Burkholderiaceae
- c1: Neisseriaceae
- c2: Betaproteobacteriales
- c3: Enterobacteriaceae
- c4: Enterobacteriales
- c5: Pasteurellaceae
- c6: Pasteurellales
- c7: Moraxellaceae
- c8: Pseudomonadaceae
- c9: Pseudomonadales
- d0: Xanthomonadaceae
- d1: Xanthomonadales
- d2: Gammaproteobacteria

# Cladogram

■ T500km-a  
■ T500km-b



- a: Nocardiaceae
- b: Intrasporangiaceae
- c: Microbacteriaceae
- d: Micrococceae
- e: Micrococcales
- f: Actinobacteria
- g: Bacteroidaceae
- h: Dysgonomonadaceae
- i: Bacteroidales
- j: Flavobacteriaceae
- k: Weeksellaceae
- l: Sphingobacteriaceae
- m: Sphingobacteriales
- n: Deinococcaceae
- o: Deinococcales
- p: Deinococci
- q: Arcobacteraceae
- r: Campylobacterales
- s: Campylobacteria
- t: Listeriaceae
- u: Planococcaceae
- v: Staphylococcaceae
- w: Streptococcaceae
- x: Clostridiaceae\_1
- y: Peptostreptococcaceae
- z: Fusobacteriaceae
- a0: Fusobacteriales
- a1: Fusobacteriia
- a2: Caulobacteraceae
- a3: Caulobacterales
- a4: Rhizobiaceae
- a5: Rhizobiales
- a6: Rhodobacteraceae
- a7: Rhodobacterales
- a8: Sphingomonadaceae
- a9: Sphingomonadales
- b0: Alphaproteobacteria
- b1: Aeromonadaceae
- b2: Aeromonadales
- b3: Psychromonadaceae
- b4: Shewanellaceae
- b5: Alteromonadales
- b6: Burkholderiaceae
- b7: Betaproteobacteriales
- b8: Pseudomonadaceae
- b9: Vibrionaceae
- c0: Vibrionales
- c1: Xanthomonadaceae
- c2: Xanthomonadales