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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tab. S1-1. ANCOMBC results from the comparison among three sampling methods (order).** | | | | | | | | | |
| Taxon | lfc\_MethodHammer | lfc\_MethodSwab | lfc\_MethodSwab\_MethodHammer | se\_MethodHammer | se\_MethodSwab | se\_MethodSwab\_MethodHammer | W\_MethodHammer | W\_MethodSwab | W\_MethodSwab\_MethodHammer |
| Bacteroidota\_Bacteroidia\_Flavobacteriales | -1.39 | -0.59 | 0.79 | 0.54 | 0.31 | 0.54 | -2.57 | -1.93 | 1.48 |
| Bacteroidota\_Bacteroidia\_Cytophagales | 0.17 | -0.03 | -0.2 | 0.31 | 0.42 | 0.52 | 0.54 | -0.07 | -0.37 |
| Verrucomicrobiota\_Verrucomicrobiae\_Verrucomicrobiales | -1.4 | -0.05 | 1.35 | 0.69 | 0.55 | 0.62 | -2.03 | -0.09 | 2.17 |
| Proteobacteria\_Alphaproteobacteria\_Rhodobacterales | -0.08 | 0.23 | 0.31 | 0.28 | 0.33 | 0.41 | -0.28 | 0.7 | 0.75 |
| Proteobacteria\_Gammaproteobacteria\_Oceanospirillales | -1.78 | 0.11 | 1.89 | 0.31 | 0.62 | 0.67 | -5.68 | 0.19 | 2.83 |
| Proteobacteria\_Alphaproteobacteria\_Kiloniellales | 0.49 | -1.06 | -1.55 | 0.9 | 1.01 | 0.57 | 0.54 | -1.06 | -2.72 |
| Proteobacteria\_Alphaproteobacteria\_Defluviicoccales | 0.39 | -1.11 | -1.5 | 0.76 | 0.55 | 0.62 | 0.51 | -2.04 | -2.44 |
| Proteobacteria\_Alphaproteobacteria\_Rhizobiales | 0.21 | 0.47 | 0.26 | 0.21 | 0.22 | 0.3 | 1.01 | 2.15 | 0.87 |
| Proteobacteria\_Gammaproteobacteria\_Burkholderiales | -2.56 | -2.76 | -0.21 | 1.04 | 0.53 | 1.04 | -2.47 | -5.19 | -0.2 |
| Bdellovibrionota\_Bdellovibrionia\_Bacteriovoracales | -0.35 | 1.9 | 2.25 | 0.96 | 0.99 | 0.39 | -0.36 | 1.92 | 5.71 |
| Proteobacteria\_Alphaproteobacteria\_Thalassobaculales | 0.69 | -1.08 | -1.76 | 0.83 | 0.8 | 0.63 | 0.83 | -1.34 | -2.8 |
| Bacteroidota\_Bacteroidia\_Chitinophagales | -1.46 | 0 | 1.46 | 0.3 | 0.3 | 0.3 | -4.84 | 0.02 | 4.91 |
| Proteobacteria\_Gammaproteobacteria\_Vibrionales | -4.18 | -2.97 | 1.21 | 0.44 | 0.64 | 0.57 | -9.55 | -4.62 | 2.13 |
| NA\_NA\_NA | -0.07 | -0.08 | -0.01 | 0.89 | 0.93 | 0.98 | -0.08 | -0.08 | -0.01 |
| Acidobacteriota\_Thermoanaerobaculia\_Thermoanaerobaculales | -0.14 | -0.52 | -0.38 | 0.59 | 0.65 | 0.39 | -0.24 | -0.81 | -0.97 |
| Actinobacteriota\_Acidimicrobiia\_Microtrichales | 0.02 | 0.49 | 0.47 | 0.39 | 0.47 | 0.56 | 0.05 | 1.05 | 0.84 |
| Bdellovibrionota\_Bdellovibrionia\_Bdellovibrionales | -1.87 | 0.31 | 2.18 | 0.55 | 0.57 | 0.48 | -3.39 | 0.54 | 4.57 |
| Cyanobacteria\_Cyanobacteriia\_Cyanobacteriales | -0.85 | -1.52 | -0.67 | 0.62 | 0.57 | 0.42 | -1.36 | -2.66 | -1.6 |
| Firmicutes\_Bacilli\_Bacillales | -0.78 | -3.06 | -2.28 | 1.43 | 1.08 | 1.01 | -0.54 | -2.82 | -2.25 |
| Firmicutes\_Bacilli\_Lactobacillales | -1.53 | -1.78 | -0.25 | 0.29 | 0.31 | 0.28 | -5.2 | -5.72 | -0.89 |
| Proteobacteria\_Alphaproteobacteria\_NA | -0.15 | 1.01 | 1.16 | 0.56 | 0.39 | 0.62 | -0.26 | 2.58 | 1.86 |
| Proteobacteria\_Alphaproteobacteria\_Micavibrionales | -1.21 | -0.03 | 1.18 | 0.42 | 0.49 | 0.46 | -2.9 | -0.06 | 2.59 |
| Proteobacteria\_Gammaproteobacteria\_NA | -1.57 | 0.73 | 2.3 | 0.39 | 0.42 | 0.35 | -4.04 | 1.75 | 6.63 |
| Proteobacteria\_Gammaproteobacteria\_Alteromonadales | -1.55 | -0.33 | 1.22 | 0.65 | 0.69 | 0.87 | -2.37 | -0.47 | 1.41 |
| Proteobacteria\_Gammaproteobacteria\_Arenicellales | -1.45 | 0.11 | 1.56 | 0.2 | 0.24 | 0.31 | -7.35 | 0.44 | 5.08 |
| Proteobacteria\_Gammaproteobacteria\_Cellvibrionales | -0.76 | 0.27 | 1.03 | 0.45 | 0.48 | 0.41 | -1.69 | 0.56 | 2.51 |
| Proteobacteria\_Gammaproteobacteria\_Enterobacterales | -1.36 | -1.71 | -0.35 | 0.49 | 0.68 | 0.65 | -2.78 | -2.51 | -0.54 |
| Proteobacteria\_Gammaproteobacteria\_Gammaproteobacteria\_Incertae\_Sedis | -0.74 | 0.01 | 0.75 | 0.35 | 0.41 | 0.35 | -2.09 | 0.02 | 2.13 |
| Proteobacteria\_Gammaproteobacteria\_Legionellales | 1.48 | 1.34 | -0.13 | 0.4 | 0.48 | 0.47 | 3.69 | 2.82 | -0.29 |
| Proteobacteria\_Gammaproteobacteria\_Pseudomonadales | -2.31 | -1.8 | 0.51 | 0.57 | 0.93 | 1.04 | -4.03 | -1.95 | 0.49 |
| Proteobacteria\_Gammaproteobacteria\_Steroidobacterales | -0.64 | -1.98 | -1.33 | 0.6 | 0.63 | 0.48 | -1.07 | -3.12 | -2.79 |
| Verrucomicrobiota\_Verrucomicrobiae\_Opitutales | 0.65 | -0.22 | -0.87 | 0.55 | 0.55 | 0.47 | 1.17 | -0.41 | -1.84 |
| Proteobacteria\_Alphaproteobacteria\_Rickettsiales | -0.86 | 0.12 | 0.98 | 0.33 | 0.27 | 0.42 | -2.66 | 0.44 | 2.35 |
| Proteobacteria\_Gammaproteobacteria\_Granulosicoccales | -0.06 | 1.25 | 1.31 | 0.39 | 0.44 | 0.39 | -0.16 | 2.84 | 3.4 |
| Proteobacteria\_Alphaproteobacteria\_uncultured | 1.44 | -0.26 | -1.7 | 0.52 | 0.33 | 0.57 | 2.75 | -0.81 | -2.98 |
| Cyanobacteria\_Cyanobacteriia\_Phormidesmiales | 0.06 | 0.26 | 0.2 | 0.51 | 0.53 | 0.45 | 0.11 | 0.49 | 0.45 |
| Actinobacteriota\_Coriobacteriia\_Coriobacteriales | -2.11 | -3.95 | -1.84 | 1.56 | 0.86 | 1.45 | -1.35 | -4.61 | -1.27 |
| Proteobacteria\_Alphaproteobacteria\_Caulobacterales | -1.35 | 0.2 | 1.56 | 0.23 | 0.28 | 0.33 | -5.81 | 0.72 | 4.75 |
| Proteobacteria\_Alphaproteobacteria\_Sphingomonadales | -0.39 | -0.25 | 0.15 | 0.47 | 0.46 | 0.48 | -0.84 | -0.54 | 0.3 |
| Firmicutes\_Clostridia\_Peptostreptococcales-Tissierellales | -2.19 | -3.64 | -1.45 | 1.13 | 0.56 | 1.15 | -1.94 | -6.54 | -1.25 |
| Actinobacteriota\_Actinobacteria\_Micrococcales | -1.11 | -1.44 | -0.32 | 0.87 | 0.66 | 0.68 | -1.28 | -2.18 | -0.47 |
| Fusobacteriota\_Fusobacteriia\_Fusobacteriales | -1.69 | -2.12 | -0.44 | 0.98 | 0.62 | 0.86 | -1.72 | -3.43 | -0.51 |
| Cyanobacteria\_Cyanobacteriia\_Synechococcales | -0.48 | 0.19 | 0.68 | 0.45 | 0.48 | 0.32 | -1.08 | 0.4 | 2.11 |
| Cyanobacteria\_Cyanobacteriia\_Eurycoccales | 0.39 | 0.21 | -0.18 | 0.52 | 0.54 | 0.34 | 0.75 | 0.38 | -0.53 |

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| **Tab. S1-1 Continued.** |
| Taxon | p\_MethodHammer | p\_MethodSwab | p\_MethodSwab\_MethodHammer | q\_MethodHammer | q\_MethodSwab | q\_MethodSwab\_MethodHammer | diff\_MethodHammer | diff\_MethodSwab | diff\_MethodSwab\_MethodHammer | passed\_ss\_MethodHammer | passed\_ss\_MethodSwab | passed\_ss\_MethodSwab\_MethodHammer |
| Bacteroidota\_Bacteroidia\_Flavobacteriales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | FALSE | TRUE | TRUE |
| Bacteroidota\_Bacteroidia\_Cytophagales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Verrucomicrobiota\_Verrucomicrobiae\_Verrucomicrobiales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Alphaproteobacteria\_Rhodobacterales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Oceanospirillales | 0 | 0.86 | 0.03 | 0.01 | 1 | 0.23 | TRUE | FALSE | FALSE | TRUE | TRUE | FALSE |
| Proteobacteria\_Alphaproteobacteria\_Kiloniellales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Alphaproteobacteria\_Defluviicoccales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Alphaproteobacteria\_Rhizobiales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | FALSE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Burkholderiales | 0.05 | 0 | 0.85 | 0.38 | 0.02 | 1 | FALSE | TRUE | FALSE | TRUE | TRUE | TRUE |
| Bdellovibrionota\_Bdellovibrionia\_Bacteriovoracales | 0.73 | 0.11 | 0 | 1 | 0.89 | 0.02 | FALSE | FALSE | TRUE | TRUE | TRUE | FALSE |
| Proteobacteria\_Alphaproteobacteria\_Thalassobaculales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Bacteroidota\_Bacteroidia\_Chitinophagales | 0 | 0.99 | 0 | 0.02 | 1 | 0.02 | TRUE | FALSE | TRUE | TRUE | TRUE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Vibrionales | 0 | 0 | 0.08 | 0 | 0.03 | 0.53 | TRUE | TRUE | FALSE | TRUE | TRUE | TRUE |
| NA\_NA\_NA | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Acidobacteriota\_Thermoanaerobaculia\_Thermoanaerobaculales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Actinobacteriota\_Acidimicrobiia\_Microtrichales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Bdellovibrionota\_Bdellovibrionia\_Bdellovibrionales | 0.02 | 0.61 | 0.01 | 0.15 | 1 | 0.05 | FALSE | FALSE | FALSE | FALSE | TRUE | FALSE |
| Cyanobacteria\_Cyanobacteriia\_Cyanobacteriales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | FALSE | TRUE |
| Firmicutes\_Bacilli\_Bacillales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Firmicutes\_Bacilli\_Lactobacillales | 0 | 0 | 0.41 | 0.02 | 0.01 | 1 | TRUE | TRUE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Alphaproteobacteria\_NA | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Alphaproteobacteria\_Micavibrionales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | FALSE | TRUE | FALSE |
| Proteobacteria\_Gammaproteobacteria\_NA | 0.01 | 0.14 | 0 | 0.08 | 0.96 | 0.01 | FALSE | FALSE | TRUE | FALSE | TRUE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Alteromonadales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Arenicellales | 0 | 0.68 | 0 | 0 | 1 | 0.02 | TRUE | FALSE | TRUE | TRUE | TRUE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Cellvibrionales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Enterobacterales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | FALSE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Gammaproteobacteria\_Incertae\_Sedis | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Legionellales | 0.01 | 0.03 | 0.78 | 0.09 | 0.24 | 1 | FALSE | FALSE | FALSE | FALSE | FALSE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Pseudomonadales | 0.01 | 0.1 | 0.64 | 0.06 | 0.78 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Gammaproteobacteria\_Steroidobacterales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | FALSE | TRUE |
| Verrucomicrobiota\_Verrucomicrobiae\_Opitutales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Alphaproteobacteria\_Rickettsiales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | FALSE | TRUE | FALSE |
| Proteobacteria\_Gammaproteobacteria\_Granulosicoccales | 0.88 | 0.03 | 0.01 | 1 | 0.23 | 0.13 | FALSE | FALSE | FALSE | TRUE | FALSE | FALSE |
| Proteobacteria\_Alphaproteobacteria\_uncultured | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | FALSE | TRUE | FALSE |
| Cyanobacteria\_Cyanobacteriia\_Phormidesmiales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Actinobacteriota\_Coriobacteriia\_Coriobacteriales | 0.25 | 0.01 | 0.27 | 1 | 0.09 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Alphaproteobacteria\_Caulobacterales | 0 | 0.5 | 0 | 0.01 | 1 | 0.02 | TRUE | FALSE | TRUE | TRUE | TRUE | TRUE |
| Proteobacteria\_Alphaproteobacteria\_Sphingomonadales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Firmicutes\_Clostridia\_Peptostreptococcales-Tissierellales | 0.1 | 0 | 0.26 | 0.79 | 0.01 | 1 | FALSE | TRUE | FALSE | TRUE | TRUE | TRUE |
| Actinobacteriota\_Actinobacteria\_Micrococcales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Fusobacteriota\_Fusobacteriia\_Fusobacteriales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Cyanobacteria\_Cyanobacteriia\_Synechococcales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Cyanobacteria\_Cyanobacteriia\_Eurycoccales | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |

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| **Tab. S1-2 ANCOMBC results from the comparison among three sampling methods (class).** | | | | | | | | | |
| taxon | lfc\_MethodHammer | lfc\_MethodSwab | lfc\_MethodSwab\_MethodHammer | se\_MethodHammer | se\_MethodSwab | se\_MethodSwab\_MethodHammer | W\_MethodHammer | W\_MethodSwab | W\_MethodSwab\_MethodHammer |
| Bacteroidota\_Bacteroidia | -1.24 | -0.99 | 0.24 | 0.79 | 0.28 | 0.8 | -1.56 | -3.5 | 0.3 |
| Myxococcota\_Polyangia | -2.29 | -2.71 | -0.42 | 0.73 | 0.49 | 0.68 | -3.12 | -5.5 | -0.62 |
| Verrucomicrobiota\_Verrucomicrobiae | -1.37 | -0.04 | 1.32 | 0.72 | 0.55 | 0.65 | -1.91 | -0.08 | 2.03 |
| Proteobacteria\_Alphaproteobacteria | -0.18 | 0.2 | 0.39 | 0.27 | 0.28 | 0.38 | -0.67 | 0.73 | 1.02 |
| Actinobacteriota\_Actinobacteria | -1.74 | -2.19 | -0.45 | 1.15 | 0.7 | 0.98 | -1.52 | -3.13 | -0.46 |
| Proteobacteria\_Gammaproteobacteria | -1.51 | -0.7 | 0.81 | 0.35 | 0.35 | 0.46 | -4.33 | -2.03 | 1.77 |
| Firmicutes\_Clostridia | -3.33 | -4.07 | -0.74 | 1.77 | 0.63 | 1.8 | -1.88 | -6.43 | -0.41 |
| Cyanobacteria\_Cyanobacteriia | -0.62 | -0.66 | -0.04 | 0.47 | 0.46 | 0.38 | -1.31 | -1.44 | -0.1 |
| Bdellovibrionota\_Bdellovibrionia | -1.31 | 0.93 | 2.23 | 0.65 | 0.66 | 0.41 | -2 | 1.41 | 5.48 |
| NA\_NA | -0.07 | -0.08 | -0.01 | 0.9 | 0.93 | 0.99 | -0.08 | -0.08 | -0.01 |
| Acidobacteriota\_Thermoanaerobaculia | -0.14 | -0.52 | -0.38 | 0.62 | 0.65 | 0.42 | -0.23 | -0.81 | -0.89 |
| Actinobacteriota\_Acidimicrobiia | -0.2 | 0.26 | 0.46 | 0.46 | 0.5 | 0.62 | -0.44 | 0.51 | 0.75 |
| Firmicutes\_Bacilli | -1.52 | -2.28 | -0.76 | 0.56 | 0.28 | 0.57 | -2.71 | -8.16 | -1.32 |
| Actinobacteriota\_Coriobacteriia | -2.11 | -3.95 | -1.84 | 1.57 | 0.86 | 1.46 | -1.34 | -4.6 | -1.26 |
| Fusobacteriota\_Fusobacteriia | -1.69 | -2.12 | -0.44 | 0.99 | 0.62 | 0.88 | -1.7 | -3.42 | -0.5 |

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| **Tab. S1-2. Continued.** | | | | | | | | | | | | |
| taxon | p\_MethodHammer | p\_MethodSwab | p\_MethodSwab\_MethodHammer | q\_MethodHammer | q\_MethodSwab | q\_MethodSwab\_MethodHammer | diff\_MethodHammer | diff\_MethodSwab | diff\_MethodSwab\_MethodHammer | passed\_ss\_MethodHammer | passed\_ss\_MethodSwab | passed\_ss\_MethodSwab\_MethodHammer |
| Bacteroidota\_Bacteroidia | 0.17 | 0.01 | 0.77 | 0.68 | 0.06 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Myxococcota\_Polyangia | 0.05 | 0.01 | 0.58 | 0.21 | 0.06 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Verrucomicrobiota\_Verrucomicrobiae | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Alphaproteobacteria | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Actinobacteriota\_Actinobacteria | 0.18 | 0.02 | 0.66 | 0.72 | 0.1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Proteobacteria\_Gammaproteobacteria | 0 | 0.09 | 0.13 | 0.02 | 0.36 | 0.38 | TRUE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Firmicutes\_Clostridia | 0.11 | 0 | 0.69 | 0.44 | 0 | 1 | FALSE | TRUE | FALSE | TRUE | FALSE | TRUE |
| Cyanobacteria\_Cyanobacteriia | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Bdellovibrionota\_Bdellovibrionia | 0.1 | 0.22 | 0 | 0.41 | 0.65 | 0.01 | FALSE | FALSE | TRUE | TRUE | TRUE | FALSE |
| NA\_NA | 0.94 | 0.94 | 0.99 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Acidobacteriota\_Thermoanaerobaculia | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Actinobacteriota\_Acidimicrobiia | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Firmicutes\_Bacilli | 0.04 | 0 | 0.24 | 0.14 | 0 | 0.71 | FALSE | TRUE | FALSE | FALSE | TRUE | TRUE |
| Actinobacteriota\_Coriobacteriia | 0.25 | 0.01 | 0.28 | 1 | 0.05 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |
| Fusobacteriota\_Fusobacteriia | 1 | 1 | 1 | 1 | 1 | 1 | FALSE | FALSE | FALSE | TRUE | TRUE | TRUE |