Table 1: $^{13}\mathrm{C}\text{-}\mathrm{cellulose}$ (only) responders BLAST against Living Tree Project

| OTU ID | Fold change | Top BLAST hits | BLAST 9 | %ID | Phylum;Class;Order |
|----------|-------------|---|---------|-------|---|
| OTU.569 | 2.15 | No hits of at least 90% identity | 8 | 84.16 | $A cidobacteria\ Candidatus - Solibacter \\ uncultured - bacterium$ |
| OTU.382 | 2.98 | No hits of at least 90% identity | 3 | 89.19 | Bacteroidetes Cytophagia Cytophagales |
| OTU.525 | 1.9 | Cytophaga hutchinsonii ATCC 334 | 06 9 | 98.63 | Bacteroidetes Cytophagia Cytophagales |
| OTU.64 | 2.78 | No hits of at least 90% identity | | 89.5 | Chloroflexi Herpetosiphonales Herpetosiphonaceae |
| OTU.98 | 2.56 | No hits of at least 90% identity | 8 | 88.18 | Chloroflexi Herpetosiphonales Herpetosiphonaceae |
| OTU.4322 | 2.26 | No hits of at least 90% identity | | 89.14 | $Chloroflexi\ Herpetosiphonales$ $Herpetosiphonaceae$ |
| OTU.285 | 2.52 | Blastopirellula marina | | 90.87 | Planctomycetes Planctomycetacia Planctomycetales |
| OTU.766 | 2.36 | Devosia insulae | (| 99.54 | Proteobacteria Alphaproteobacteria Rhizobiales |
| OTU.206 | 2.31 | Anderseniella baltica | | 95.89 | Proteobacteria Alphaproteobacteria Rhizobiales |
| OTU.73 | 1.95 | Mesorhizobium temperatum, Mesorhizobium caraganae, Mesorhizobium robiniae, Mesorhizobium gobiense, Mesorhizobium sp. Ala-3, Mesorhizobium tarimense, Mesorhizobium tianshanense, Mesorhizobium metallidurans, Mesorhizobium mediterraneum | | 100.0 | Proteobacteria Alphaproteobacteria Rhizobiales |
| OTU.19 | 1.86 | Rhizobium alamii, Rhizobium mesosinicum, Rhizobium mongolense, Arthrobacter viscosus, Rhizobium sullae, Rhizobium yanglingense, Rhizobium loessense | (| 99.54 | Proteobacteria Alphaproteobacteria Rhizobiales |
| OTU.263 | 1.77 | $Anderseniella\ baltica$ |) | 94.06 | Proteobacteria Alphaproteobacteria Rhizobiales |
| OTU.89 | 2.62 | Sphingomonas trueperi, Sphingomonas sp., Sphingomonas pituitosa, Caulobacter leidyia | | 100.0 | $Proteobacteria\ Alphaproteobacteria\ Sphingomonadales$ |
| OTU.1414 | 1.87 | Sphingomonas kaistensis | , | 97.72 | Proteobacteria Alphaproteobacteria Sphingomonadales |
| OTU.38 | 1.82 | Kaistobacter terrae | - | 100.0 | $Proteobacteria\ Alphaproteobacteria\ Sphingomonadales$ |
| OTU.17 | 1.79 | Sphingomonas sp. 382 | | 97.72 | Proteobacteria Alphaproteobacteria Sphingomonadales |
| OTU.20 | 1.66 | Sphingomonas jaspsi | | 98.17 | Proteobacteria Alphaproteobacteria Sphingomonadales |
| OTU.2294 | 1.65 | Kaistobacter sp. Gsoil 634 | (| 97.26 | Proteobacteria Alphaproteobacteria Sphingomonadales |
| OTU.114 | 3.01 | Herbaspirillum sp. SUEMI03, Herbaspirillum sp. SUEMI10, Oxalicibacterium solurbis, Herminiimonas fonticola, Oxalicibacterium horti | - | 100.0 | Proteobacteria Betaproteobacteria Burkholderiales |
| OTU.5680 | 2.83 | Chondromyces robustus | (| 90.05 | $Proteobacteria\ Delta proteobacteria\ Myxococcales$ |
| OTU.169 | 2.39 | Kofleria flava | (| 92.27 | Proteobacteria Deltaproteobacteria Myxococcales |
| OTU.442 | 1.85 | Chondromyces robustus | | 92.24 | Proteobacteria Deltaproteobacteria Myxococcales |
| OTU.6 | 2.78 | Cellvibrio fulvus | | 100.0 | Proteobacteria Gammaproteobacteria Pseudomonadales |
| OTU.945 | 1.71 | Turneriella parva | | 99.54 | Spirochaetes Spirochaetales Leptospiraceae |
| OTU.400 | 2.76 | No hits of at least 90% identity | 8 | 83.64 | Verrucomicrobia Candidatus-Methylacidiphilum uncultured-bacterium |
| OTU.185 | 3.26 | No hits of at least 90% identity | 8 | 85.14 | Verrucomicrobia Spartobacteria Chthoniobacterales |
| OTU.266 | 3.14 | No hits of at least 90% identity | 8 | 83.64 | Verrucomicrobia Spartobacteria Chthoniobacterales |
| OTU.2192 | 3.12 | No hits of at least 90% identity | 8 | 83.56 | Verrucomicrobia Spartobacteria Chthoniobacterales |
| OTU.541 | 2.85 | No hits of at least 90% identity | | | Verrucomicrobia Spartobacteria |