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

OTU ID	Fold change	Top BLAST hits	BLAST %ID	Phylum;Class;Order
OTU.569	2.15	No hits of at least 90% identity	84.16	*Acidobacteria Candidatus-Solibacter uncultured-bacterium*
OTU.382	2.98	No hits of at least 90% identity	89.19	*Bacteroidetes Cytophagia Cytophagales*
OTU.525	1.9	*Cytophaga hutchinsonii ATCC 33406*	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	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*

Table 1 – continued from previous page

OTU ID	Fold change	Top BLAST hits	BLAST %ID	Phylum;Class;Order
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 Deltaproteobacteria 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	83.64	*Verrucomicrobia Candidatus-Methylacidiphilum uncultured-bacterium*
OTU.185	3.26	No hits of at least 90% identity	85.14	*Verrucomicrobia Spartobacteria Chthoniobacterales*
OTU.266	3.14	No hits of at least 90% identity	83.64	*Verrucomicrobia Spartobacteria Chthoniobacterales*
OTU.2192	3.12	No hits of at least 90% identity	83.56	*Verrucomicrobia Spartobacteria Chthoniobacterales*
OTU.541	2.85	No hits of at least 90% identity	84.23	*Verrucomicrobia Spartobacteria Chthoniobacterales*