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

OTU ID	Fold change ^a Day ^b	All days	Top BLAST hits BLAST	T %ID	Phylum;Class;Order
OTU.100	2.66 14	14	Pseudoxanthomonas sacheonensis, Pseudoxanthomonas dokdonensis	100.0	$Proteobacteria \ Gamma proteobacteria \ Xanthomonadales$
OTU.1023	4.61 30	30	No hits of at least 90% identity	80.54	Verrucomicrobia Spartobacteria Chthoniobacterales
OTU.1065	5.31 14	14, 30	No hits of at least 90% identity	84.55	Planctomycetes Planctomycetacia Planctomycetales
OTU.1087	4.32 14	14, 30	Devosia soli, Devosia crocina, Devosia riboflavina	99.09	Proteobacteria Alphaproteobacteria Rhizobiales
OTU.1094	3.69 30	30	$Sporocytophaga\ myxococcoides$	99.55	Bacteroidetes Cytophagia Cytophagales
OTU.114	2.78 14	14	Herbaspirillum sp. SUEMI03, Herbaspirillum sp. SUEMI10, Oxalicibacterium solurbis, Herminiimonas fonticola, Oxalicibacterium horti	100.0	Proteobacteria Betaproteobacteria Burkholderiales
OTU.119	3.31 14	14, 30	$Brevundimonas\ alba$	100.0	Proteobacteria Alphaproteobacteria Caulobacterales
OTU.120	4.76 14	14, 30	Vampirovibrio chlorellavorus	94.52	Cyanobacteria SM1D11 uncultured-bacterium
OTU.1204	4.32 30	30	Planctomyces limnophilus	91.78	Planctomycetes Planctomycetacia Planctomycetales
OTU.1312	4.07 30	30	Paucimonas lemoignei	99.54	Proteobacteria Betaproteobacteria Burkholderiales
OTU.132	2.81 14	14	Streptomyces spp.	100.0	Actinobacteria Streptomycetales Streptomycetaceae
OTU.1533	3.43 30	30	No hits of at least 90% identity	82.27	Verrucomicrobia Spartobacteria Chthoniobacterales
OTU.154	3.24 14	14	Pseudoxanthomonas mexicana, Pseudoxanthomonas japonensis	100.0	$Proteobacteria \ Gamma proteobacteria \ Xanthomonadales$
OTU.1754	4.48 14	14	Asticcacaulis biprosthecium, Asticcacaulis benevestitus	96.8	Proteobacteria Alphaproteobacteria Caulobacterales
OTU.185	4.37 14	14, 30	No hits of at least 90% identity	85.14	Verrucomicrobia Spartobacteria Chthoniobacterales
OTU.2192	3.49 30	14, 30	No hits of at least 90% identity	83.56	Verrucomicrobia Spartobacteria Chthoniobacterales
OTU.228	2.54 30	30	Sorangium cellulosum	98.17	Proteobacteria Deltaproteobacteria Myxococcales

Table 1 – continued from previous page

OTU ID	Fold change	Day	All days	Top BLAST hits	BLAST %ID	Phylum;Class;Order
OTU.257	2.94	14	14	Lentzea waywayandensis, Lentzea flaviverrucosa	100.0	Actinobacteria Pseudonocardiales Pseudonocardiaceae
OTU.266	4.54	30	14, 30	No hits of at least 90% identity	83.64	$Verrucomic robia\ Spartobacteria \ Chthoniobacterales$
OTU.28	2.59	14	14	Rhizobium giardinii, Rhizobium tubonense, Rhizobium tibeticum, Rhizobium mesoamericanur Rhizobium herbae, Rhizobium endophyticum	99.54 n CCGE 501,	Proteobacteria Alphaproteobacteria Rhizobiale
OTU.285	3.55	30	14, 30	Blastopirellula marina	90.87	Planctomycetes Planctomycetacia Planctomycetales
OTU.327	2.99	14	14	Asticcacaulis biprosthecium Asticcacaulis benevestitus	, 98.63	$Proteobacteria \ Alphaproteobacteria \ Caulobacterales$
OTU.351	3.54	14	14, 30	Pirellula staleyi DSM 6068	91.86	Planctomycetes Planctomycetacia Planctomycetales
OTU.3594	3.83	30	30	Chondromyces robustus	90.41	Proteobacteria Deltaproteobacteria Myxococcales
OTU.3775	3.88	14	14	Devosia glacialis, Devosia chinhatensis, Devosia geojensis, Devosia yakushimensis	98.63	Proteobacteria Alphaproteobacteria Rhizobiale.
OTU.429	3.7	30	14, 30	Devosia limi, Devosia psychrophila	97.72	Proteobacteria Alphaproteobacteria Rhizobiale.
OTU.4322	4.19	14	7, 14, 30	No hits of at least 90% identity	89.14	Chloroflexi Herpetosiphonales Herpetosiphonaceae
OTU.442	3.05	30	30	Chondromyces robustus	92.24	Proteobacteria Deltaproteobacteria Myxococcales
OTU.465	3.79	30	30	Ohtaekwangia kribbensis	92.73	Bacteroidetes Cytophagia Cytophagales
OTU.473	3.58	14	14	Pirellula staleyi DSM 6068	90.91	Planctomycetes Planctomycetacia Planctomycetales
OTU.484	4.92	14	14, 30	No hits of at least 90% identity	89.09	Planctomycetes Planctomycetacia Planctomycetales
OTU.518	4.8	14	14	$Hydrogenophaga\ intermedia$	100.0	Proteobacteria Betaproteobacteria Burkholderiales
OTU.5190	3.6	30	14, 30	No hits of at least 90% identity	88.13	Chloroflexi Herpetosiphonales Herpetosiphonaceae
OTU.541	4.49	30	30	No hits of at least 90% identity	84.23	Verrucomicrobia Spartobacteria Chthoniobacterales

Table 1 – continued from previous page

OTU ID	Fold change	Day	All days	Top BLAST hits	BLAST %ID	Phylum;Class;Order
OTU.5539	4.01	14	14	Devosia subaequoris	98.17	Proteobacteria Alphaproteobacteria Rhizobiales
OTU.573	3.03	30	30	$Adhaeribacter\ aerophilus$	92.76	Bacteroidetes Cytophagia Cytophagales
OTU.600	3.48	30	30	No hits of at least 90% identity	80.37	Planctomycetes Planctomycetacia Planctomycetales
OTU.6062	4.83	30	30	Dokdonella sp. DC-3, Luteibacter rhizovicinus	97.26	$Proteobacteria \ Gamma proteobacteria \ Xanthomonadales$
OTU.627	4.43	14	14	Verrucomicrobiaceae bacter	ium DC2a- 100 .0	Verrucomicrobia Verrucomicrobiae Verrucomicrobiales
OTU.633	3.84	30	30	No hits of at least 90% identity	89.5	Proteobacteria Deltaproteobacteria Myxococcales
OTU.638	4.0	30	30	Luteolibacter sp. CCTCC A Luteolibacter algae	4 <i>B 2010415</i> 93.61	Verrucomicrobia Verrucomicrobiae Verrucomicrobiales
OTU.64	4.31	14	7, 14, 30	No hits of at least 90% identity	89.5	Chloroflexi Herpetosiphonales Herpetosiphonaceae
OTU.663	3.63	30	30	Pirellula staleyi DSM 6068	90.87	Planctomycetes Planctomycetacia Planctomycetales
OTU.669	3.34	30	30	Ohtaekwangia koreensis	92.69	Bacteroidetes Cytophagia Cytophagales
OTU.670	2.87	30	30	$A dhaeribacter\ aerophilus$	91.78	Bacteroidetes Cytophagia Cytophagales
OTU.766	3.21	14	14, 30	Devosia insulae	99.54	Proteobacteria Alphaproteobacteria Rhizobiales
OTU.83	5.61	14	7, 14, 30	Luteolibacter sp. CCTCC A	AB 201041597.72	Verrucomicrobia Verrucomicrobiae Verrucomicrobiales
OTU.862	5.87	14	14	Allokutzneria albata	100.0	Actinobacteria Pseudonocardiales Pseudonocardiaceae
OTU.899	2.28	30	30	Enhygromyxa salina	97.72	Proteobacteria Deltaproteobacteria Myxococcales
OTU.90	2.94	14	14, 30	Sphingopyxis panaciterrae, Sphingopyxis chilensis, Sphingopyxis sp. BZ30, Sphingomonas sp.	100.0	$Proteobacteria \ Alphaproteobacteria \ Sphingomonadales$
OTU.900	4.87	14	14	Brevundimonas vesicularis, Brevundimonas nasdae	100.0	Proteobacteria Alphaproteobacteria Caulobacterales
OTU.971	3.68	30	30	No hits of at least 90% identity	78.57	Chloroflexi Anaerolineae Anaerolineales

Table 1 – continued from previous page

OTU ID	Fold change	Day	All days	Top BLAST hits	BLAST %ID	Phylum;Class;Order
OTU.98	3.68	14	7, 14, 30	No hits of at least 90% identity	88.18	${\it Chloroflexi Herpetosiphonales} \ {\it Herpetosiphonaceae}$
OTU.982	4.47	14	14	Devosia neptuniae	100.0	Proteobacteria Alphaproteobacteria Rhizobiales

^a Maximum observed log_2 of fold change. ^b Day of maximum fold change. ^c All response days.