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

OTU ID	Fold change	Top BLAST hits	BLAST %ID	Phylum; Class; Order
OTU.4446	3.49	Catenuloplanes niger, Catenuloplanes castaneus, Catenuloplanes atrovinosus, Catenuloplanes crispus, Catenuloplanes nepalensis, Catenuloplanes japonicus	97.72	Actinobacteria Frankiales Nakamurellaceae
OTU.62	2.57	Nakamurella flavida	100.0	Actinobacteria Frankiales Nakamurellaceae
OTU.24	2.81	Cellulomonas aerilata, Cellulomonas humilata, Cellulomonas terrae, Cellulomonas soli, Cellulomonas xylanilytica	100.0	Actinobacteria Micrococcales Cellulomonadaceae
OTU.4	2.84	Agromyces ramosus	100.0	Actinobacteria Micrococcales Microbacteriaceae
OTU.37	2.68	Phycicola gilvus, Microterricola viridarii, Frigoribacterium faeni, Frondihabitans sp. RS-15, Frondihabitans australicus	100.0	Actinobacteria Micrococcales Microbacteriaceae
OTU.5284	3.56	Isoptericola nanjingensis, Isoptericola hypogeus, Isoptericola variabilis	98.63	Actinobacteria Micrococcales Promicromonosporaceae
OTU.252	3.34	Promicromonospora thailandica	100.0	Actinobacteria Micrococcales Promicromonosporaceae
OTU.244	3.08	Cellulosimicrobium funkei, Cellulosimicrobium terreum	100.0	Actinobacteria Micrococcales Promicromonosporaceae
OTU.760	2.89	Dyadobacter hamtensis	98.63	Bacteroidetes Cytophagia Cytophagales
OTU.14	3.92	Flavobacterium oncorhynchi, Flavobacterium glycines, Flavobacterium succinicans	99.09	$Bacteroide tes\ Flavo bacteria\ Flavo bacteriales$
OTU.6203	3.32	Flavobacterium granuli, Flavobacterium glaciei	100.0	$Bacteroide tes\ Flavobacteria\ Flavobacteriales$
OTU.159	3.16	Flavobacterium hibernum	98.17	$Bacteroide tes\ Flavobacteria\ Flavobacteriales$
OTU.2379	3.1	Flavobacterium pectinovorum, Flavobacterium sp. CS100	97.72	$Bacteroide tes\ Flavo bacteria\ Flavo bacteriales$
OTU.131	3.07	Flavobacterium fluvii, Flavobacteria bacterium HMD103. Flavobacterium sp. HMD1001	100.0	$Bacteroide tes\ Flavo bacteria\ Flavo bacteriales$
OTU.3540	2.52	Flavobacterium terrigena	99.54	$Bacteroide tes\ Flavobacteria\ Flavobacteriales$
OTU.107	2.25	Flavobacterium sp. 15C3, Flavobacterium banpakuense	99.54	$Bacteroide tes\ Flavo bacteria\ Flavo bacteriales$
OTU.277	3.52	Solibius ginsengiterrae	95.43	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.183	3.31	No hits of at least 90% identity	89.5	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.5906	3.16	Terrimonas sp. M-8	96.8	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.360	2.98	$Flavisolibacter\ ginsengisoli$	95.0	Bacteroidetes Sphingobacteriia Sphingobacteriales

Table 1 – continued from previous page

OTU ID	Fold change	Top BLAST hits	BLAST %ID	Phylum;Class;Order
OTU.369	5.05	Paenibacillus sp. D75, Paenibacillus glycanilyticus	100.0	Firmicutes Bacilli Bacillales
OTU.267	4.97	Paenibacillus pabuli, Paenibacillus tundrae, Paenibacillus taichungensis, Paenibacillus xylanexedens, Paenibacillus xylanilyticus	100.0	Firmicutes Bacilli Bacillales
OTU.1040	4.78	$Paenibacillus\ daejeonensis$	100.0	Firmicutes Bacilli Bacillales
OTU.57	4.39	$Paenibacillus\ castaneae$	98.62	Firmicutes Bacilli Bacillales
OTU.394	4.06	$Paenibacillus\ pocheonensis$	100.0	Firmicutes Bacilli Bacillales
OTU.319	3.98	Paenibacillus xinjiangensis	97.25	Firmicutes Bacilli Bacillales
OTU.5603	3.96	Paenibacillus uliginis	100.0	Firmicutes Bacilli Bacillales
OTU.1069	3.85	Paenibacillus terrigena	100.0	Firmicutes Bacilli Bacillales
OTU.843	3.62	Paenibacillus agarexedens	100.0	Firmicutes Bacilli Bacillales
OTU.2040	2.91	Paenibacillus pectinilyticus	100.0	Firmicutes Bacilli Bacillales
OTU.3	2.61	[Brevibacterium] frigoritolerans, Bacillus sp. LMG 20238, Bacillus coahuilensis m4-4, Bacillus simplex	100.0	Firmicutes Bacilli Bacillales
OTU.335	2.53	$Paenibacillus\ thail and ensis$	98.17	Firmicutes Bacilli Bacillales
OTU.3507	2.36	Bacillus spp.	98.63	Firmicutes Bacilli Bacillales
OTU.8	2.26	Bacillus niacini	100.0	Firmicutes Bacilli Bacillales
OTU.4743	2.24	Lysinibacillus fusiformis, Lysinibacillus sphaericus	99.09	Firmicutes Bacilli Bacillales
OTU.9	2.04	Bacillus megaterium, Bacillus flexus	100.0	Firmicutes Bacilli Bacillales
OTU.22	2.8	Paracoccus sp. NB88	99.09	$Proteobacteria \ Alphaproteobacteria \ Rhodobacterales$
OTU.346	3.44	$Pseudoduganella\ violaceinigra$	99.54	$Proteobacteria\ Betaproteobacteria\ Burkholderiales$
OTU.68	3.74	Shigella flexneri, Escherichia fergusonii, Escherichia coli, Shigella sonnei	100.0	$Proteobacteria\ Gamma proteobacteria \\ Enterobacteriales$
OTU.290	3.59	Pantoea spp., Kluyvera spp., Klebsiella spp., Erwinia spp., Enterobacter spp., Buttiauxella spp.	100.0	$Proteobacteria\ Gamma proteobacteria \\ Enterobacteriales$
OTU.48	2.99	Aeromonas spp.	100.0	Proteobacteria Gammaproteobacteria aaa34a10