Table 1: OTUs enriched in PyOM amended soil relative to control
BLAST against Living Tree Project

OTU ID	**Day of Response** [a]	**Top BLAST hits**	**BLAST %ID**
OTU.3	82	*Arthrobacter spp.*	100.0
OTU.33	82	*Roseomonas aquatica*	98.13
OTU.39	82	*Thermomonas dokdonensis*	99.47
OTU.78	12, 82	*Oxalicibacterium flavum*	98.92
OTU.97	12	*Beijerinckia derxii subsp. venezuelae*, *Beijerinckia derxii subsp. derxii*, *Beijerinckia indica subsp. indica ATCC 9039*, *Beijerinckia indica subsp. lacticogenes*	98.12
OTU.118	82	*Flavobacterium beibuense*, *Flavobacterium sp. FCS-5*	98.11
OTU.141	82	*Achromobacter spanius*, *Achromobacter insolitus*	100.0
OTU.154	82	*Comamonas thiooxydans*, *Comamonas testosteroni*	99.73
OTU.166	82	*Niastella sp. JCN-23*	96.49
OTU.170	82	*Niastella sp. JCN-23*	99.73
OTU.184	82	*Adhaeribacter terreus*	98.11
OTU.271	82	*Bosea sp. R-46060*	100.0
OTU.287	12, 82	*Flavisolibacter ginsengisoli*	95.14
OTU.316	82	*Caulobacter henricii*	99.46
OTU.339	82	*Brevundimonas halotolerans*	99.73
OTU.357	82	*Ochrobactrum pseudogrignonense*	100.0
OTU.391	12, 82	*Flavisolibacter ginsengisoli*	95.68
OTU.402	82	*Brevundimonas vesicularis*, *Brevundimonas nasdae*	100.0
OTU.417	82	No hits of at least 90% identity	80.16
OTU.442	12, 82	*Rhodococcus wratislaviensis*	100.0
OTU.444	82	No hits of at least 90% identity	84.95
OTU.448	82	*Brevundimonas alba*	99.19
OTU.454	82	*Nocardioides hwasunensis*	100.0
OTU.455	82	*Methylobacterium rhodesianum*, *Methylobacterium populi*, *Methylobacterium zatmanii*	100.0
OTU.456	82	*Prosthecobacter fluviatilis*	90.64
OTU.527	82	No hits of at least 90% identity	80.8
OTU.534	82	*Methylobacterium aquaticum*	100.0

Table 1 – continued from previous page

OTU ID	Day of Response [b]	Top BLAST hits	BLAST %ID
OTU.535	12, 82	*Cupriavidus necator*, *Wautersia numazuensis*, *Cupriavidus basilensis*	100.0
OTU.542	82	*Gemmatimonas aurantiaca*	96.26
OTU.635	12, 82	*Sphingomonadaceae bacterium KMM 6042*	99.2
OTU.640	12, 82	*Rhodococcus jostii*	99.73
OTU.678	82	*Shinella granuli*, *Shinella zoogloeoides*	100.0
OTU.720	82	*Luteolibacter sp. CCTCC AB 2010415*	99.2
OTU.767	82	No hits of at least 90% identity	89.57
OTU.800	12	*Sediminibacterium salmoneum*	95.96
OTU.820	82	*Pedobacter sp. N7d-4*	100.0
OTU.873	12, 82	*Hymenobacter algoricola*	100.0
OTU.878	82	*Dongia mobilis*	93.33
OTU.888	82	No hits of at least 90% identity	87.67
OTU.893	12	*Flavisolibacter ginsengisoli*, *Sediminibacterium salmoneum*, *Niastella yeongjuensis*	93.53
OTU.909	82	No hits of at least 90% identity	89.25
OTU.924	82	No hits of at least 90% identity	88.56
OTU.932	82	*Georgfuchsia toluolica*	98.13
OTU.939	82	*Dyadobacter beijingensis*	97.57
OTU.1003	82	*Pedobacter glucosidilyticus DSM 23534*	98.65
OTU.1018	82	No hits of at least 90% identity	88.53
OTU.1045	82	*Rhodanobacter sp. DCY45*, *Rhodanobacter fulvus*	100.0
OTU.1062	12	*Ohtaekwangia koreensis*	93.51
OTU.1077	82	*Azospirillum rugosum*, *Skermanella xinjiangensis*	91.67
OTU.1090	82	*Ohtaekwangia koreensis*	94.61
OTU.1107	82	*Lysobacter sp. DCY21T*	99.2
OTU.1119	82	*Devosia crocina*, *Devosia riboflavina*	98.66
OTU.1133	82	*Pedobacter insulae*	98.11
OTU.1187	82	*Chitinophaga niabensis*	90.54
OTU.1191	82	No hits of at least 90% identity	89.63
OTU.1192	82	*Rhodococcus triatomae*	97.87
OTU.1195	82	*Segetibacter koreensis*	97.3
OTU.1208	82	*Bacteriovorax stolpii*	98.93
OTU.1226	12, 82	*Nocardiopsis alba*	100.0

Table 1 – continued from previous page

OTU ID	Day of Response [b]	Top BLAST hits	BLAST %ID
OTU.1253	82	No hits of at least 90% identity	84.8
OTU.1295	82	*Leifsonia poae*	99.2
OTU.1301	82	*Burkholderia sp. ATSB16*	94.39
OTU.1324	82	*Sphingomonas japonica*	98.37
OTU.1344	82	*Hymenobacter ocellatus*	97.3
OTU.1373	82	*Dyella marensis*, *Dyella terrae*, *Fulvimonas soli*, *Dokdonella sp. LM 2-5*	95.45
OTU.1374	82	No hits of at least 90% identity	89.01
OTU.1384	12	*Sphingomonas trueperi*, *Sphingomonas pituitosa*	96.78
OTU.1385	82	*Sphingopyxis panaciterrae*, *Sphingopyxis chilensis*	100.0
OTU.1389	82	*Arthrobacter crystallopoietes*	98.13
OTU.1425	82	No hits of at least 90% identity	89.54
OTU.1441	82	*Chitinophaga niabensis*	92.43
OTU.1442	82	*Gemmatimonas aurantiaca*	91.98
OTU.1448	82	No hits of at least 90% identity	87.97
OTU.1450	12	*Rhodococcus yunnanensis*, *Rhodococcus fascians*, *Rhodococcus kyotonensis*, *Rhodococcus cercidiphylli*, *Rhodococcus sp. C5(2010)*	100.0
OTU.1477	82	*Dyella koreensis*, *Dyella soli*	96.52
OTU.1485	82	No hits of at least 90% identity	89.01
OTU.1505	82	*Lacibacter cauensis*	98.92
OTU.1543	82	*Bryobacter aggregatus*	90.05
OTU.1544	82	*Armatimonas rosea*	92.0
OTU.1550	12, 82	*Roseomonas ludipueritiae*	98.39
OTU.1566	82	*Panacagrimonas perspica*	98.12
OTU.1576	82	*Delftia tsuruhatensis*, *Delftia lacustris*	98.66
OTU.1587	82	No hits of at least 90% identity	85.68
OTU.1616	82	No hits of at least 90% identity	84.8
OTU.1655	82	No hits of at least 90% identity	89.22
OTU.1667	82	No hits of at least 90% identity	84.17
OTU.1680	82	*Pseudomonas alcaligenes*	98.1
OTU.1698	82	*Hymenobacter gelipurpurascens*	100.0
OTU.1721	82	*Gemmatimonas aurantiaca*	93.3
OTU.1722	82	No hits of at least 90% identity	84.83

Table 1 – continued from previous page

OTU ID	Day of Response [b]	Top BLAST hits	BLAST %ID
OTU.1737	82	*Ferrimicrobium acidiphilum*	91.76
OTU.1753	82	*Wenxinia marina*	96.77
OTU.1773	82	No hits of at least 90% identity	87.84
OTU.1786	82	No hits of at least 90% identity	84.57
OTU.1789	82	No hits of at least 90% identity	82.43
OTU.1796	82	*Bdellovibrio bacteriovorus*	93.32
OTU.1809	82	*Anaeromyxobacter dehalogenans*	90.11
OTU.1824	82	*Solibius ginsengiterrae*	91.85
OTU.1835	82	No hits of at least 90% identity	88.38
OTU.1840	82	No hits of at least 90% identity	88.68
OTU.1869	82	No hits of at least 90% identity	79.6
OTU.1873	82	No hits of at least 90% identity	80.06
OTU.1892	82	*Halioglobus pacificus*	91.2
OTU.1897	82	*Fluviicola taffensis*	93.82
OTU.1909	82	*Conexibacter arvalis*	91.71
OTU.1919	82	No hits of at least 90% identity	89.13
OTU.1926	82	No hits of at least 90% identity	80.7
OTU.1928	82	No hits of at least 90% identity	88.77
OTU.1951	82	*Prosthecobacter dejongeii*, *Prosthecobacter debontii*	96.52
OTU.1960	82	*Bryobacter aggregatus*	91.13
OTU.1981	12, 82	*Undibacterium pigrum*, *Rugamonas rubra*	97.31
OTU.1985	82	*Magnetospira thiophila*	92.18
OTU.1999	82	*Aurantimonas sp. L9-753*	99.2
OTU.2003	82	*Aquicella siphonis*	95.16
OTU.2073	82	No hits of at least 90% identity	86.52
OTU.2091	82	*Fimbriimonas ginsengisoli Gsoil 348*	90.98
OTU.2094	82	No hits of at least 90% identity	88.86
OTU.2106	82	*Ferruginibacter alkalilentus*	94.86
OTU.2131	82	No hits of at least 90% identity	86.68
OTU.2148	82	*Solibius ginsengiterrae*	91.6
OTU.2153	82	No hits of at least 90% identity	77.21
OTU.2156	82	No hits of at least 90% identity	82.62
OTU.2159	82	No hits of at least 90% identity	86.58
OTU.2167	82	No hits of at least 90% identity	80.8
OTU.2182	82	*Flavobacterium beibuense*	97.03

Table 1 – continued from previous page

OTU ID	Day of Response [b]	Top BLAST hits	BLAST %ID
OTU.2236	82	*Amaricoccus macauensis*	91.2
OTU.2275	82	No hits of at least 90% identity	87.17
OTU.2278	82	*Catellibacterium nectariphilum*	98.39
OTU.2279	82	No hits of at least 90% identity	79.2
OTU.2293	82	*Adhaeribacter aquaticus*	95.16
OTU.2301	82	*Pseudoxanthomonas mexicana*	100.0
OTU.2310	82	*Niastella yeongjuensis*	93.19
OTU.2334	82	No hits of at least 90% identity	85.64
OTU.2352	82	*Byssovorax cruenta*	90.3
OTU.2391	82	*Luteolibacter sp. E100*	97.59
OTU.2410	82	*Solibius ginsengiterrae*	95.14
OTU.2442	82	*Thioprofundum hispidum*	95.21
OTU.2446	82	No hits of at least 90% identity	85.95
OTU.2463	82	*Roseomonas sp. enrichment culture clone 03SU16-F1*, *Roseomonas stagni*	96.51
OTU.2478	82	*Prosthecobacter fluviatilis*	99.47
OTU.2481	82	No hits of at least 90% identity	86.97
OTU.2489	82	No hits of at least 90% identity	85.07
OTU.2522	82	No hits of at least 90% identity	87.2
OTU.2554	82	*Solitalea canadensis*	91.87
OTU.2576	82	No hits of at least 90% identity	88.27
OTU.2601	82	No hits of at least 90% identity	86.1
OTU.2617	82	No hits of at least 90% identity	81.96
OTU.2621	12, 82	*Hoeflea phototrophica DFL-43*, *Hoeflea alexandrii*	96.77
OTU.2622	82	No hits of at least 90% identity	79.51
OTU.2634	82	*Gemmatimonas aurantiaca*	92.8
OTU.2640	82	No hits of at least 90% identity	86.38
OTU.2656	82	No hits of at least 90% identity	89.04
OTU.2660	82	No hits of at least 90% identity	89.59
OTU.2661	82	No hits of at least 90% identity	88.17
OTU.2667	82	No hits of at least 90% identity	88.47
OTU.2676	82	No hits of at least 90% identity	83.07
OTU.2706	82	*Chitinophaga ginsengisegetis*, *Niastella koreensis*	92.92
OTU.2708	12	No hits of at least 90% identity	87.8
OTU.2734	82	*Prosthecobacter fluviatilis*	95.99

Table 1 – continued from previous page

OTU ID	Day of Response [b]	Top BLAST hits	BLAST %ID
OTU.2769	82	No hits of at least 90% identity	84.88
OTU.2778	82	No hits of at least 90% identity	88.8
OTU.2847	82	No hits of at least 90% identity	87.73
OTU.2885	82	*Chitinophaga sancti*	94.28
OTU.2895	82	*Verrucomicrobiaceae bacterium DC2a-G7*	99.46
OTU.2932	82	*Sediminibacterium salmoneum*	91.6
OTU.2943	82	*Afipia massiliensis*	97.58
OTU.2948	82	*Variovorax paradoxus*, *Xenophilus aerolatus*	98.92
OTU.2955	82	*Gemmatimonas aurantiaca*	92.53
OTU.2969	82	No hits of at least 90% identity	79.89
OTU.2971	82	No hits of at least 90% identity	89.04
OTU.2985	82	No hits of at least 90% identity	86.36
OTU.2995	82	No hits of at least 90% identity	81.84
OTU.2996	82	*Luteolibacter sp. CCTCC AB 2010415*	97.06
OTU.3007	82	No hits of at least 90% identity	87.33
OTU.3061	82	*Pigmentiphaga litoralis*	100.0
OTU.3088	82	*Belnapia moabensis*	96.51
OTU.3097	82	*Nocardioides plantarum*	99.73
OTU.3116	82	*Chelatococcus daeguensis*, *Rhizobium sp. HT4*	94.35
OTU.3160	82	No hits of at least 90% identity	89.87
OTU.3201	82	No hits of at least 90% identity	89.95
OTU.3240	82	No hits of at least 90% identity	82.89
OTU.3274	82	No hits of at least 90% identity	81.12
OTU.3300	82	*Pirellula staleyi DSM 6068*	92.03
OTU.3373	82	*Skermanella aerolata*	99.2
OTU.3481	82	*Frankia sp. S9-650*	95.2
OTU.3523	82	No hits of at least 90% identity	78.44
OTU.3543	82	No hits of at least 90% identity	78.76
OTU.3564	82	*Roseomonas sp. enrichment culture clone 03SU16-27*, *Roseomonas stagni*	96.27
OTU.3565	82	*Rubellimicrobium mesophilum DSM 19309*	99.2
OTU.3666	82	*Legionella cincinnatiensis*, *Legionella longbeachae*	96.52
OTU.3771	82	No hits of at least 90% identity	81.5
OTU.3779	82	*Cystobacter badius*, *Cystobacter velatus*, *Cystobacter miniatus*	90.37

Table 1 – continued from previous page

OTU ID	Day of Response [b]	Top BLAST hits	BLAST %ID
OTU.3783	82	No hits of at least 90% identity	87.57
OTU.3823	82	*Hymenobacter ocellatus*	97.03
OTU.3865	82	No hits of at least 90% identity	85.09
OTU.3917	82	No hits of at least 90% identity	84.8
OTU.3920	82	No hits of at least 90% identity	85.52
OTU.3954	82	*Paucimonas lemoignei*	97.58
OTU.4092	82	No hits of at least 90% identity	82.66
OTU.4127	82	*Devosia subaequoris*	97.31
OTU.4225	82	*Flavisolibacter ginsengisoli*	95.42
OTU.4247	82	No hits of at least 90% identity	88.74
OTU.4271	82	*Afipia felis (cat scratch disease bacillus)*, *Oligotropha carboxidovorans*	97.33
OTU.4279	82	No hits of at least 90% identity	88.2
OTU.4312	82	No hits of at least 90% identity	85.68
OTU.4339	82	*Bdellovibrio bacteriovorus*	94.39
OTU.4418	82	No hits of at least 90% identity	83.91
OTU.4435	82	*Sphingomonas jaspsi*, *Kaistobacter terrae*	96.0
OTU.4597	82	No hits of at least 90% identity	85.94
OTU.4769	82	No hits of at least 90% identity	89.04
OTU.4808	12	*Amycolatopsis pigmentata*	99.73
OTU.4905	82	*Ohtaekwangia kribbensis*	94.07
OTU.5548	82	No hits of at least 90% identity	84.8
OTU.5667	82	*Skermanella xinjiangensis*	92.74
OTU.5678	82	*Segetibacter koreensis*	96.22
OTU.5685	82	No hits of at least 90% identity	88.68
OTU.5798	82	*Sphingomonas sp. YC6722*	99.73
OTU.6008	82	*Delftia tsuruhatensis*, *Delftia lacustris*	98.12
OTU.6190	12, 82	*Oxalicibacterium horti*	99.18
OTU.6205	82	No hits of at least 90% identity	82.21
OTU.6256	82	*Gemmatimonas aurantiaca*	93.55
OTU.6285	82	*Gemmatimonas aurantiaca*	92.25
OTU.6290	82	*Desulfomonile tiedjei*	90.03
OTU.6391	82	No hits of at least 90% identity	88.95
OTU.6407	82	No hits of at least 90% identity	86.29
OTU.6446	82	*Diaphorobacter nitroreducens*, *Comamonas terrigena*, *Acidovorax caeni*	97.58

Table 1 – continued from previous page

OTU ID	Day of Response [b]	Top BLAST hits	BLAST %ID
OTU.6487	12	*Glaciimonas sp. A2-57*, *Glaciimonas immobilis*, *Oxalicibacterium faecigallinarum*, *Oxalicibacterium horti*	97.31
OTU.6495	82	*Rhizobiales bacterium WSM3557*	98.92
OTU.6601	82	*Terrimonas sp. M-8*	97.03
OTU.6640	82	*Adhaeribacter terreus*	98.05
OTU.6735	82	*Brevundimonas staleyi*	98.12
OTU.6822	12	*Sphingomonas changbaiensis*	99.16
OTU.6848	82	*Rhizobium skierniewicense*	98.12
OTU.6868	82	*Caulobacter vibrioides*, *Caulobacter segnis*	98.66
OTU.6898	82	*Arenimonas malthae*	96.77
OTU.7041	82	*Altererythrobacter sp. H32*, *Altererythrobacter sp. MSW-14*	94.09
OTU.7071	82	*Rhodoplanes piscinae*	97.04
OTU.7083	82	No hits of at least 90% identity	87.06
OTU.7092	12	*Novosphingobium hassiacum*	97.58
OTU.7168	82	No hits of at least 90% identity	89.92
OTU.7181	82	No hits of at least 90% identity	85.91
OTU.7216	82	*Yonghaparkia alkaliphila*	100.0
OTU.7313	12, 82	*Rhodococcus qingshengii*, *Rhodococcus erythropolis*, *Rhodococcus sp. djl-6-2*, *Nocardia coeliaca*	98.38
OTU.7431	82	*Luteimonas marina*, *Thermomonas dokdonensis*, *Luteimonas lutimaris*	97.33
OTU.7454	82	*Pedobacter boryungensis*	99.19
OTU.7476	82	No hits of at least 90% identity	84.04
OTU.7616	82	*Sphingomonas yunnanensis*	97.86
OTU.7646	82	*Novosphingobium hassiacum*	97.32
OTU.7762	12, 82	*Filimonas lacunae*	94.59
OTU.7779	12, 82	*Luteimonas sp. KMM 9005*	98.07
OTU.7786	82	*Stenotrophomonas rhizophila*	98.65
OTU.7826	12	*Bacillus patagoniensis*	99.73
OTU.7995	12, 82	*Roseomonas aquatica*, *Belnapia moabensis*	96.25
OTU.8221	12	No hits of at least 90% identity	85.6
OTU.8259	82	*Rhodoplanes roseus*	96.2

Table 1 – continued from previous page

OTU ID	**Day of Response** [b]	**Top BLAST hits**	**BLAST %ID**
OTU.8277	82	*Gordonia neofelifaecis NRRL B-59395*, *Gordonia cholesterolivorans*, *Gordonia malaquae*	100.0
OTU.8409	82	*Acidovorax temperans*	98.91
OTU.8620	82	No hits of at least 90% identity	88.68
OTU.8700	82	No hits of at least 90% identity	86.13
OTU.8710	82	*Pedobacter koreensis*	97.3
OTU.8712	82	*Limnobacter thiooxidans*	93.58

[a] log_2 fold change greater than 1, adjusted P-value less than 0.10.