Table 4.4:  $^{13}$ C-cellulose responders in the pulse root exudate treatment

OTU ID	Fold change <sup>a</sup>	Day b	Top BLAST hits <sup>c</sup>	BLAST %ID	Phylum;Class;Order <sup>d</sup>
OTU.1341	4.77	14	No hits of at least 97% identity	86.02	Acidobacteria 11-24 uncultured-bacterium
OTU.2288	3.64	45	No hits of at least 97% identity	82.7	Acidobacteria 11-24 uncultured-bacterium
OTU.1197	2.41	45	No hits of at least 97% identity	83.02	Acidobacteria 11-24 uncultured-bacterium
OTU.1507	3.24	45	No hits of at least 97% identity	82.24	Acidobacteria Candidatus-Chloracidobacterium uncultured-Acidobacteria-bacterium
OTU.3817	2.44	28	No hits of at least 97% identity	86.36	Acidobacteria DA023 uncultured-bacterium
OTU.12188	6.09	45	No hits of at least 97% identity	86.44	Acidobacteria Holophagae CA002
OTU.1016	4.18	14	No hits of at least 97% identity	85.18	Acidobacteria RB25 uncultured-bacterium
OTU.370	4.37	28	Gordonia sputi	100.0	Actinobacteria Corynebacteriales Nocardiaceae
OTU.1181	4.79	14	No hits of at least 97% identity	92.27	Armatimonadetes $Armatimonadia$ $Armatimonadales$
OTU.1303	4.57	45	No hits of at least 97% identity	82.34	Armatimonadetes uncultured-bacterium
OTU.1664	7.31	14	Sporocytophaga myxococcoides	99.19	Bacteroidetes Cytophagia Cytophagales
OTU.1026	4.75	14	No hits of at least 97% identity	94.32	Bacteroidetes Cytophagia Cytophagales
OTU.2905	4.2	45	No hits of at least 97% identity	91.85	Bacteroidetes Cytophagia Cytophagales
OTU.7868	3.58	14	No hits of at least 97% identity	96.94	Bacteroidetes Cytophagia Cytophagales
OTU.331	3.32	14	Ohtaekwangia kribbensis	97.04	Bacteroidetes Cytophagia Cytophagales
OTU.10192	3.07	14	Adhaeribacter terreus	97.57	Bacteroidetes Cytophagia Cytophagales
OTU.6036	3.02	14	Ohtaekwangia kribbensis	100.0	Bacteroidetes Cytophagia Cytophagales
OTU.598	2.94	14	Sphingobacteria bacterium RYG	97.31	Bacteroidetes Cytophagia Cytophagales
OTU.152	2.53	14	Adhaeribacter terreus	98.11	Bacteroidetes Cytophagia Cytophagales
OTU.155	2.09	14	No hits of at least 97% identity	92.7	Bacteroidetes Cytophagia Cytophagales
OTU.44	2.04	14	No hits of at least 97% identity	95.14	Bacteroidetes Cytophagia Cytophagales
OTU.2099	4.99	45	Chryseobacterium sp. THG 15, Chryseobacterium formosense	100.0	Bacteroidetes Flavobacteria Flavobacteriales
OTU.1330	4.7	14	Flavobacterium fluvii	99.73	Bacteroidetes Flavobacteria Flavobacteriales

Table 4.4 – continued from previous page

OTU ID	Fold change	Day	Top BLAST hits	BLAST %ID	Phylum;Class;Order
OTU.7315	2.72	14	$Flavo bacterium\ columnare$	98.84	Bacteroidetes Flavobacteria Flavobacteriales
OTU.2082	6.2	28	No hits of at least 97% identity	86.7	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.1414	4.85	14	No hits of at least $97\%$ identity	89.49	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.1929	4.8	14	No hits of at least $97\%$ identity	96.49	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.4996	4.2	14	No hits of at least $97\%$ identity	96.22	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.283	4.11	14	No hits of at least $97\%$ identity	94.32	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.873	3.95	14	Segetibacter aerophilus	97.03	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.140	3.89	14	No hits of at least $97\%$ identity	95.14	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.1969	3.67	14	No hits of at least 97% identity	96.76	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.325	3.59	14	$Flavi solibacter\ ginsengi soli$	98.38	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.490	3.5	14	No hits of at least $97\%$ identity	95.41	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.425	3.38	14	No hits of at least $97\%$ identity	88.44	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.3332	3.38	14	No hits of at least $97\%$ identity	96.76	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.343	3.33	14	No hits of at least $97\%$ identity	92.45	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.3380	3.28	14	No hits of at least 97% identity	96.22	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.717	3.24	14	No hits of at least 97% identity	89.62	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.7661	3.17	14	No hits of at least 97% identity	95.69	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.7953	3.07	14	No hits of at least 97% identity	94.59	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.178	3.07	14	No hits of at least 97% identity	94.86	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.145	3.02	14	No hits of at least 97% identity	90.84	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.718	3.02	14	No hits of at least 97% identity	88.56	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.7103	3.0	14	No hits of at least $97\%$ identity	87.87	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$
OTU.215	2.93	14	No hits of at least $97\%$ identity	96.49	$Bacteroidetes \ Sphingobacteriia$ $Sphingobacteriales$
OTU.7560	2.91	14	Pedobacter africanus, Pedobacter steynii, Pedobacter caeni	98.65	$Bacteroidetes\ Sphingobacteriia$ $Sphingobacteriales$

Table 4.4 – continued from previous page

OTU ID	Fold change	Day	Top BLAST hits	BLAST %ID	Phylum;Class;Order
OTU.12538	2.83	14	No hits of at least 97% identity	93.5	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.523	2.83	14	No hits of at least 97% identity	88.65	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.103	2.83	14	No hits of at least 97% identity	95.95	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.9220	2.8	14	No hits of at least 97% identity	94.86	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.3730	2.74	14	No hits of at least 97% identity	95.41	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.498	2.72	14	No hits of at least 97% identity	88.38	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.570	2.66	14	No hits of at least 97% identity	92.18	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.5218	2.6	14	No hits of at least 97% identity	95.14	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.431	2.6	14	No hits of at least 97% identity	93.55	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.916	2.6	28	Chitinophaga niabensis	97.57	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.75	2.54	14	Flavisolibacter ginsengisoli	97.84	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.45	2.51	14	Flavitalea populi	98.92	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.228	2.5	14	No hits of at least 97% identity	94.59	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.3841	2.43	14	No hits of at least 97% identity	93.24	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.133	2.36	14	No hits of at least 97% identity	95.41	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.725	2.34	14	No hits of at least 97% identity	95.95	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.225	2.33	14	No hits of at least 97% identity	96.49	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.8100	2.13	14	No hits of at least 97% identity	95.52	Bacteroidetes Sphingobacteriia Sphingobacteriales
OTU.2351	5.22	14	No hits of at least 97% identity	88.59	Bacteroidetes VC2.1-Bac22 uncultured-bacterium
OTU.3465	4.28	45	No hits of at least 97% identity	75.53	Candidate-division-OP11 uncultured-bacterium
OTU.1980	3.97	14	No hits of at least 97% identity	85.91	Candidate-division-WS3 uncultured-bacterium
OTU.3682	2.63	14	No hits of at least 97% identity	83.96	Candidate-division-WS3 uncultured-bacterium
OTU.509	2.24	14	No hits of at least 97% identity	85.98	Candidate-division-WS3 uncultured-bacterium
OTU.958	4.72	14	No hits of at least 97% identity	82.61	Chlorobi Chlorobia Chlorobiales

Table 4.4 – continued from previous page

OTU ID	Fold change	Day	Top BLAST hits	BLAST %ID	Phylum;Class;Order
OTU.1217	3.2	45	No hits of at least $97\%$ identity	80.48	$Chloroflexi \ Anaerolineae$ $Anaerolineales$
OTU.907	2.83	14	No hits of at least 97% identity	83.68	$Chloroflexi\ Anaerolineae$ $Anaerolineales$
OTU.3983	6.24	45	No hits of at least 97% identity	80.31	Chloroflexi Chloroflexales Chloroflexaceae
OTU.3585	5.14	45	No hits of at least 97% identity	96.22	Cyanobacteria SM1D11
OTU.640	3.86	28	Streptococcus tigurinus, Streptococcus mitis, Streptococcus infantis, Streptococcus pseudopneumoniae, Streptococcus oralis	99.73	Firmicutes Bacilli Lactobacillales
OTU.1115	3.0	28	No hits of at least 97% identity	80.59	Planctomycetes Phycisphaerae WD2101-soil-group
OTU.5726	5.13	14	No hits of at least 97% identity	90.4	Planctomycetes Planctomycetacia Planctomycetales
OTU.6106	4.63	45	No hits of at least 97% identity	92.27	Planctomycetes Planctomycetacia Planctomycetales
OTU.3395	3.53	45	No hits of at least 97% identity	85.25	Planctomycetes Planctomycetacia Planctomycetales
OTU.7980	3.39	45	No hits of at least 97% identity	94.13	Planctomycetes Planctomycetacia Planctomycetales
OTU.1073	2.93	45	No hits of at least 97% identity	89.63	Planctomycetes Planctomycetacia Planctomycetales
OTU.6068	2.83	14	No hits of at least 97% identity	85.79	Planctomycetes Planctomycetacia Planctomycetales
OTU.345	2.04	14	No hits of at least 97% identity	89.52	Planctomycetes Planctomycetacia Planctomycetales
OTU.3431	3.78	28	No hits of at least 97% identity	87.17	Proteobacteria Alphaproteobacteria DB1-14
OTU.7792	5.13	14	No hits of at least 97% identity	90.35	Proteobacteria Alphaproteobacteria OCS116-clade
OTU.6486	3.97	45	Kaistia sp. B1-1	98.92	Proteobacteria Alphaproteobacteria Rhizobiales
OTU.991	3.21	14	Kaistia sp. 5YN7-3, Kaistia sp. B6-12	100.0	Proteobacteria Alphaproteobacteria Rhizobiales
OTU.517	2.66	14	No hits of at least 97% identity	94.1	Proteobacteria Alphaproteobacteria Rhizobiales
OTU.1627	5.95	45	No hits of at least 97% identity	91.76	Proteobacteria Alphaproteobacteria Rhodospirillales

Table 4.4 – continued from previous page

OTU ID	Fold change	Day	Top BLAST hits	BLAST %ID	Phylum; Class; Order
OTU.187	4.08	28	Roseomonas gilardii subsp. gilardii Roseomonas mucosa, Roseomonas gilardii subsp. rosea	, 100.0	$Proteobacteria \ Alphaproteobacteria \ Rhodospirillales$
OTU.482	2.22	14	No hits of at least 97% identity	90.45	Proteobacteria Alphaproteobacteria Rhodospirillales
OTU.7443	2.07	28	No hits of at least 97% identity	95.38	Proteobacteria Alphaproteobacteria Rhodospirillales
OTU.2141	5.38	14	No hits of at least 97% identity	84.49	Proteobacteria Alphaproteobacteria Rickettsiales
OTU.486	5.31	14	No hits of at least 97% identity	90.03	Proteobacteria Alphaproteobacteria Rickettsiales
OTU.1930	4.67	14	No hits of at least 97% identity	87.77	Proteobacteria Alphaproteobacteria Rickettsiales
OTU.1165	3.99	14	No hits of at least 97% identity	88.47	Proteobacteria Alphaproteobacteria Rickettsiales
OTU.2814	5.28	14	No hits of at least 97% identity	96.26	Proteobacteria Alphaproteobacteria Sphingomonadales
OTU.289	2.61	14	No hits of at least 97% identity	96.78	Proteobacteria Alphaproteobacteria Sphingomonadales
OTU.141	4.69	14	No hits of at least 97% identity	94.65	Proteobacteria Betaproteobacteria Burkholderiales
OTU.5640	3.4	45	Paucimonas lemoignei	98.12	Proteobacteria Betaproteobacteria Burkholderiales
OTU.2239	4.22	45	No hits of at least 97% identity	94.12	Proteobacteria Betaproteobacteria Hydrogenophilales
OTU.3811	4.57	14	No hits of at least 97% identity	89.49	Proteobacteria Deltaproteobacteria Desulfobacterales
OTU.2036	4.69	45	No hits of at least 97% identity	87.09	Proteobacteria Deltaproteobacteria Myxococcales
OTU.696	2.34	45	No hits of at least 97% identity	93.85	Proteobacteria Deltaproteobacteria Myxococcales
OTU.6577	5.83	45	No hits of at least 97% identity	95.72	Proteobacteria Gammaproteobacteria Legionellales
OTU.1190	4.28	45	No hits of at least 97% identity	96.27	Proteobacteria Gammaproteobacteria Legionellales

Table 4.4 – continued from previous page

OTU ID	Fold change	Day	Top BLAST hits	BLAST %ID	Phylum; Class; Order
OTU.475	2.28	45	$A quicella\ siphon is$	97.31	Proteobacteria Gammaproteobacteria Legionellales
OTU.433	5.63	45	No hits of at least 97% identity	87.47	Proteobacteria Gammaproteobacteria NKB5
OTU.2651	4.31	45	No hits of at least 97% identity	87.4	Proteobacteria Gammaproteobacteria NKB5
OTU.10253	4.48	14	No hits of at least 97% identity	93.26	Proteobacteria Gammaproteobacteria Pseudomonadales
OTU.1332	4.12	14	Panacagrimonas perspica	97.86	Proteobacteria Gammaproteobacteria Xanthomonadales
OTU.273	2.16	14	No hits of at least 97% identity	94.88	Proteobacteria Gammaproteobacteria Xanthomonadales
OTU.465	2.15	14	No hits of at least 97% identity	94.34	Proteobacteria Gammaproteobacteria Xanthomonadales
OTU.5114	6.24	14	No hits of at least 97% identity	92.78	Verrucomicrobia Opitutae Opitutales
OTU.4224	5.35	45	No hits of at least 97% identity	88.1	Verrucomicrobia Spartobacteria Chthoniobacterales
OTU.1993	3.77	45	No hits of at least 97% identity	88.1	Verrucomicrobia Spartobacteria Chthoniobacterales
OTU.10213	4.65	28	Prosthecobacter fusiformis	98.4	Verrucomicrobia Verrucomicrobiae Verrucomicrobiales
OTU.3003	4.31	45	Prosthecobacter fluviatilis	97.33	Verrucomicrobia Verrucomicrobiae Verrucomicrobiales
OTU.1705	3.06	45	No hits of at least 97% identity	84.76	

 $<sup>^{\</sup>rm a}$  Maximum observed  $log_2$  of fold change.  $^{\rm b}$  Day of maximum fold change.  $^{\rm c}$  Against Living Tree Project database.  $^{\rm d}$  Annotation from Silva database assigned during OTU binning (see methods).