

Supplemental File 3.B				
Term_ID	Description	Frequency	Log10 p-value	Representative
GO:0000003	reproduction	0.21%	-1.5086	3
GO:0002376	immune system process	0.63%	-0.6576	2376
GO:0008152	metabolic process	82.18%	-8.2757	8152
GO:0009719	response to endogenous stimulus	0.11%	-10.4949	9719
GO:0009987	cellular process	65.99%	-3.6021	9987
GO:0010876	lipid localization	0.10%	-9.9208	10876
GO:0006869	lipid transport	0.09%	-3.6778	10876
GO:0019748	secondary metabolic process	0.18%	-5.1249	19748
GO:0022414	reproductive process	0.12%	-1.585	22414
GO:0032501	multicellular organismal process	0.79%	-4.2676	32501
GO:0032502	developmental process	1.39%	-4.284	32502
GO:0040007	growth	0.08%	-0.7959	40007
GO:0050896	response to stimulus	8.82%	-15.4685	50896
GO:0051179	localization	17.86%	-1.4202	51179
GO:0051704	multi-organism process	2.77%	-2.3768	51704
GO:0065007	biological regulation	14.92%	-1.699	65007
GO:0065008	regulation of biological quality	2.71%	-3.1024	65008
GO:0050794	regulation of cellular process	13.66%	-0.7696	65008
GO:0050789	regulation of biological process	14.47%	-0.5528	65008
GO:0042398	cellular modified amino acid biosynthetic process	0.71%	-3.7696	42398
GO:0044238	primary metabolic process	51.93%	-3.8861	44238
GO:0042545	cell wall modification	0.02%	-1.1192	42545
GO:0009058	biosynthetic process	30.33%	-2.3665	9058
GO:0006807	nitrogen compound metabolic process	38.65%	-2.1308	6807
GO:0007275	multicellular organismal development	0.46%	-3.699	7275
GO:0007389	pattern specification process	0.04%	-3.2218	7275
GO:0003002	regionalization	0.03%	-3.9208	7275
GO:0048513	organ development	0.23%	-1.4202	7275
GO:0003006	developmental process			
GO:0003006	involved in reproduction	0.08%	-1.4318	7275
GO:0016049	cell growth	0.04%	-1.3098	7275
GO:0048589	developmental growth	0.03%	-1.0362	7275
GO:0022622	root system development	0.01%	-0.9208	7275
GO:0048827	phyllome development	0.02%	-0.9208	7275
GO:0048367	shoot system development	0.03%	-1.0862	7275
GO:0048580	regulation of post-embryonic development	0.01%	-0.4559	7275

GO:0048366	leaf development	0.01%	-1.0969	7275
GO:0009826	unidimensional cell growth	0.01%	-1.5229	7275
GO:0048364	root development	0.01%	-0.9208	7275
	anatomical structure			
GO:0048856	development	1.24%	-3.1427	7275
GO:0009791	post-embryonic development	0.05%	-4	7275
	reproductive structure			
GO:0048608	development	0.06%	-1.4318	7275
GO:0048869	cellular developmental process	1.06%	-1.6198	7275
GO:0009908	flower development	0.02%	-1.7447	7275
	developmental growth			
GO:0060560	involved in morphogenesis	0.02%	-1.5229	7275
	xylem and phloem pattern			
GO:0010051	formation	0.00%	-3.4202	7275
GO:0009887	organ morphogenesis	0.08%	-0.6198	7275
GO:0009965	leaf morphogenesis	0.00%	-0.8861	7275
GO:0000902	cell morphogenesis	0.84%	-0.9208	7275
	anatomical structure			
GO:0009653	morphogenesis	1.01%	-1.0555	7275
GO:0048731	system development	0.35%	-1.4202	7275
GO:0010016	shoot system morphogenesis	0.01%	-1.4089	7275
	cellular component			
GO:0032989	morphogenesis	0.85%	-0.7212	7275
GO:0008219	cell death	0.28%	-0.7447	8219
GO:0012501	programmed cell death	0.27%	-0.6021	8219
GO:0016265	death	0.28%	-0.7447	16265
GO:0015979	photosynthesis	0.34%	-0.7447	15979
	cellular carbohydrate			
GO:0044262	metabolic process	1.84%	-3.2676	44262
	carbohydrate biosynthetic			
GO:0016051	process	1.54%	-1.2147	44262
GO:0044042	glucan metabolic process	0.24%	-1.585	44262
	cellular carbohydrate			
GO:0034637	biosynthetic process	0.74%	-0.6198	44262
	polysaccharide metabolic			
GO:0005976	process	1.08%	-1.3565	44262
	sulfur compound metabolic			
GO:0006790	process	1.67%	-2.2076	6790
GO:0016137	glycoside metabolic process	0.03%	-1.3665	16137
	carbohydrate metabolic			
GO:0005975	process	5.98%	-4.5376	5975
	cellular aromatic compound			
GO:0006725	metabolic process	33.05%	-6.3188	6725
GO:0006629	lipid metabolic process	3.09%	-4.7447	6629
GO:0042440	pigment metabolic process	0.49%	-1.0044	42440

GO:0044248	cellular catabolic process	7.95%	-0.6383	44248
GO:0044237	cellular metabolic process	53.87%	-2.2007	44237
GO:0046394	carboxylic acid biosynthetic process	4.62%	-3.7696	46394
GO:0032787	monocarboxylic acid metabolic process	2.31%	-1.5528	46394
GO:0006520	cellular amino acid metabolic process	6.44%	-2.699	46394
GO:0016053	organic acid biosynthetic process	4.67%	-3.7696	46394
GO:0043436	oxoacid metabolic process	9.21%	-3.7696	46394
GO:0008202	steroid metabolic process	0.04%	-1.6576	46394
GO:0019752	carboxylic acid metabolic process	9.04%	-3.7696	46394
GO:0044255	cellular lipid metabolic process	2.58%	-0.5376	46394
GO:0006631	fatty acid metabolic process	0.87%	-0.7212	46394
GO:0006633	fatty acid biosynthetic process	0.63%	-0.9208	46394
GO:0044272	sulfur compound biosynthetic process	1.34%	-1.2218	46394
GO:0009066	aspartate family amino acid metabolic process	0.86%	-1.5686	46394
GO:0000096	sulfur amino acid metabolic process	0.60%	-1.6576	46394
GO:0008652	cellular amino acid biosynthetic process	3.70%	-2.4202	46394
GO:0008610	lipid biosynthetic process	2.21%	-2.1675	46394
GO:0006720	isoprenoid metabolic process	0.47%	-0.699	46394
GO:0006721	terpenoid metabolic process	0.28%	-1.0915	46394
GO:0042430	indole-containing compound metabolic process	0.25%	-2.3768	42430
GO:0044106	cellular amine metabolic process	0.48%	-2.6383	44106
GO:0009309	amine biosynthetic process	0.29%	-2.1308	44106
GO:0009308	amine metabolic process	0.52%	-2.8861	9308
GO:0034641	cellular nitrogen compound metabolic process	33.43%	-5.4559	34641
GO:0046483	heterocycle metabolic process	33.33%	-2.4318	46483
GO:0033036	macromolecule localization	1.97%	-2.8861	33036
GO:0009699	phenylpropanoid biosynthetic process	0.00%	-2.7212	9699
GO:0009698	phenylpropanoid metabolic process	0.01%	-2.1938	9699

GO:0006575	cellular modified amino acid metabolic process	0.98%	-3.2924	6575
GO:0010817	regulation of hormone levels cellular ketone metabolic process	0.03%	-2.2924	10817
GO:0042180	alcohol metabolic process	0.41%	-3.6778	42180
GO:0006066	response to hormone	0.58%	-0.4437	6066
GO:0009725	hormone-mediated signaling pathway	0.08%	-10.699	9725
GO:0009755	response to jasmonic acid	0.05%	-3.2441	9725
GO:0009753	response to salicylic acid	0.01%	-1.2441	9725
GO:0009751	response to abscisic acid	0.01%	-1.3872	9725
GO:0009737	response to gibberellin	0.01%	-1.3565	9725
GO:0009739	response to auxin	0.00%	-2.4089	9725
GO:0009733	response to ethylene	0.01%	-5.5528	9725
GO:0009723	cellular response to hormone stimulus	0.01%	-3.699	9725
GO:0032870	cellular response to chemical stimulus	0.06%	-3.2441	9725
GO:0070887	ethylene-activated signaling pathway	0.50%	-2.0862	9725
GO:0009873	response to water deprivation	0.00%	-1.8539	9725
GO:0009414	response to water	0.01%	-2.1308	9725
GO:0009415	response to organic substance	0.01%	-2.0044	9725
GO:0010033	response to inorganic substance	0.29%	-8.8239	9725
GO:0010035	response to light stimulus	0.27%	-1.2007	9725
GO:0009416	response to temperature stimulus	0.08%	-5.5229	9416
GO:0009266	response to radiation	0.15%	-3.1549	9416
GO:0009314	response to light intensity	0.09%	-5.3768	9416
GO:0009642	response to red or far red light	0.01%	-1.5686	9416
GO:0009639	response to salt stress	0.01%	-1.7696	9416
GO:0009651	response to osmotic stress	0.01%	-2.7959	9416
GO:0006970	response to cold	0.03%	-2.8861	9416
GO:0009409	response to bacterium	0.02%	-3.699	9416
GO:0009617	response to other organism	0.09%	-3.0315	9617
GO:0051707	innate immune response	0.44%	-2.7212	9617
GO:0045087	defense response, incompatible interaction	0.14%	-0.7696	9617
GO:0009814	defense response to fungus	0.01%	-0.9208	9617
GO:0050832	response to fungus	0.01%	-1.3188	9617
GO:0009620	immune response	0.01%	-0.7696	9617
GO:0006955	defense response to bacterium	0.38%	-0.6576	9617
GO:0042742		0.08%	-2.1675	9617

GO:0019438	aromatic compound biosynthetic process	15.56%	-4.284	19438
GO:0042221	response to chemical	1.60%	-10.4949	42221
GO:0051716	cellular response to stimulus	6.26%	-3.1427	42221
GO:0035556	intracellular signal transduction	2.72%	-1.9586	42221
GO:0000160	phosphorelay signal transduction system	2.13%	-1.5376	42221
GO:0009605	response to external stimulus	1.38%	-1.0555	42221
GO:0006950	response to stress	4.12%	-7.1249	42221
GO:0007165	signal transduction	3.80%	-1.6021	42221
GO:0042445	hormone metabolic process	0.02%	-1.9208	42445
GO:0006082	organic acid metabolic process	9.36%	-3.7696	6082
GO:0009628	response to abiotic stimulus	0.31%	-8.7447	9628
GO:0009607	response to biotic stimulus	0.47%	-2.8861	9607
GO:0046686	response to cadmium ion	0.00%	-1.0915	46686
GO:0010038	response to metal ion	0.07%	-0.6383	46686
GO:0006952	defense response	0.57%	-3.2218	6952
GO:0048583	regulation of response to stimulus	0.69%	-0.5376	48583
GO:0044271	cellular nitrogen compound biosynthetic process	15.79%	-3.0315	44271
GO:0018130	heterocycle biosynthetic process	16.15%	-1.1192	44271
GO:0044249	cellular biosynthetic process	28.21%	-1.2291	44271
GO:0006810	transport	17.38%	-0.7696	6810
GO:0051234	establishment of localization	17.47%	-0.7696	6810
GO:0048878	chemical homeostasis	0.26%	-2.1427	48878
GO:0090066	regulation of anatomical structure size	0.04%	-1.6383	48878
GO:0032535	regulation of cellular component size	0.03%	-1.6383	48878
GO:0042592	homeostatic process	0.97%	-1.699	48878
GO:0008361	regulation of cell size	0.01%	-1.6576	48878