






















Supplemental Figure S1.

GO_acc	Term	Bd21		Bd21-3		Gaz8	
		FDR		FDR		FDR	
GO:0055114	oxidation-reduction process	5.6E-38	Total 1% Query 26%	2.9E-06	Total 1% Query 22%	1.2E-13	Total 1% Query 22%
GO:0008152	metabolic process	1.4E-04	Total 35% Query 54%			1.8E-21	Total 35% Query 70%
GO:0006468	protein phosphorylation	9.1E-03	Total 1% Query 6%			4.1E-02	Total 1% Query 4%
GO:0006979	response to oxidative stress	5.4E-09	Total 1% Query 10%			3.7E-04	Total 1% Query 5%
GO:0006950	response to stress	2.0E-02	Total 5% Query 12%				
GO:0044710	single-organism metabolic process	7.4E-10	Total 11% Query 31%				
GO:0006518	peptide metabolic process					5.7E-61	Total 3% Query 39%
GO:0043043	peptide biosynthetic process					4.9E-66	Total 2% Query 39%
GO:0044267	cellular protein metabolic process					8.0E-39	Total 8% Query 44%
GO:0006807	nitrogen compound metabolic process					1.0E-17	Total 19% Query 47%
GO:0009058	biosynthetic process					6.1E-18	Total 17% Query 45%
GO:0043603	cellular amide metabolic process					4.7E-60	Total 3% Query 39%
GO:0044238	primary metabolic process					2.1E-12	Total 29% Query 54%
GO:1901566	organonitrogen compound biosynthetic process					2.2E-49	Total 4% Query 40%
GO:0044237	cellular metabolic process					1.2E-10	Total 30% Query 53%
GO:1901576	organic substance biosynthetic process					2.1E-19	Total 16% Query 45%
GO:0044249	cellular biosynthetic process					1.5E-20	Total 16% Query 45%
GO:0071704	organic substance metabolic process					4.2E-10	Total 32% Query 55%
GO:0044271	cellular nitrogen compound biosynthetic process					1.3E-28	Total 12% Query 44%
GO:0034645	cellular macromolecule biosynthetic process					1.3E-28	Total 12% Query 44%
GO:0044260	cellular macromolecule metabolic process					2.7E-20	Total 21% Query 52%
GO:0034641	cellular nitrogen compound metabolic process					8.4E-19	Total 18% Query 46%
GO:0010467	gene expression					2.8E-27	Total 13% Query 45%
GO:0043170	macromolecule metabolic process					6.5E-20	Total 23% Query 54%
GO:0043604	amide biosynthetic process					1.2E-65	Total 3% Query 39%
GO:0019538	protein metabolic process					7.3E-39	Total 9% Query 46%
GO:0009059	macromolecule biosynthetic process					4.8E-28	Total 12% Query 44%
GO:0006412	translation					4.9E-66	Total 2% Query 39%
GO:0009987	cellular process					4.3E-06	Total 38% Query 56%
GO:1901564	organonitrogen compound metabolic process					3.6E-41	Total 6% Query 41%

Supplemental Figure S2.

GO_acc	Term	Bd21			Bd21-3			Gaz8		
		FDR			FDR			FDR		
GO:0008152	metabolic process	2.3E-02	Total 	35%	3.4E-05	Total 	35%	5.7E-03	Total 	35%
			Query 	56%		Query 	59%		Query 	56%
GO:0055114	oxidation-reduction process	8.8E-03	Total 	1%	6.7E-12	Total 	1%	8.7E-11	Total 	1%
			Query 	9%		Query 	17%		Query 	17%
GO:0016310	phosphorylation	1.5E-05	Total	2%						
			Query 	17%						
GO:0006468	protein phosphorylation	1.5E-02	Total	1%						
			Query 	17%						
GO:0006793	phosphorus metabolic process	2.9E-03	Total	4%						
			Query 	17%						
GO:0006464	cellular protein modification process	1.5E-02	Total	5%						
			Query 	17%						
GO:0043412	macromolecule modification	2.8E-02	Total	6%						
			Query 	17%						
GO:0036211	protein modification process	1.5E-02	Total	5%						
			Query 	17%						
GO:0006796	phosphate-containing compound metabolic process	2.9E-03	Total	4%						
			Query 	17%						
GO:0044710	single-organism metabolic process							7.8E-04	Total 	11%
									Query 	28%

Supplemental Figure S3.

GO_acc	Term	Bd21		Bd21-3		Gaz8	
		FDR		FDR		FDR	
GO:0016310	phosphorylation	3.8E-03	Total Query 2% 5%	5.0E-07	Total Query 2% 20%	8.4E-25	Total Query 2% 8%
GO:0006796	phosphate-containing compound metabolic process	4.8E-03	Total Query 4% 8%	2.4E-05	Total Query 4% 22%	6.7E-18	Total Query 4% 11%
GO:0008152	metabolic process	3.8E-25	Total Query 35% 63%	2.4E-06	Total Query 35% 73%	3.9E-44	Total Query 35% 59%
GO:0055114	oxidation-reduction process	2.2E-40	Total Query 1% 15%	4.7E-04	Total Query 1% 12%	5.9E-54	Total Query 1% 11%
GO:0006793	phosphorus metabolic process	1.5E-03	Total Query 4% 8%	2.4E-05	Total Query 4% 22%	8.8E-18	Total Query 4% 11%
GO:0044710	single-organism metabolic process	1.2E-12	Total Query 11% 25%	4.6E-03	Total Query 11% 29%	1.5E-11	Total Query 11% 19%
GO:0009116	nucleoside metabolic process	2.3E-02	Total Query 1% 3%			1.7E-02	Total Query 1% 2%
GO:0042278	purine nucleoside metabolic process	7.1E-03	Total Query 1% 3%			2.3E-02	Total Query 1% 2%
GO:0009167	purine ribonucleoside monophosphate metabolic process	6.8E-03	Total Query 1% 3%			3.6E-03	Total Query 1% 2%
GO:0006091	generation of precursor metabolites and energy	1.7E-17	Total Query 1% 9%			1.1E-10	Total Query 1% 4%
GO:0006753	nucleoside phosphate metabolic process	1.6E-02	Total Query 1% 3%			2.1E-02	Total Query 1% 2%
GO:0019693	ribose phosphate metabolic process	8.6E-03	Total Query 1% 3%			3.2E-02	Total Query 1% 2%
GO:0009765	photosynthesis, light harvesting	1.0E-17	Total Query 0% 4%			1.1E-12	Total Query 0% 2%
GO:0009144	purine nucleoside triphosphate metabolic process	4.8E-03	Total Query 1% 3%			1.6E-03	Total Query 1% 2%
GO:0015979	photosynthesis	2.6E-42	Total Query 1% 14%			1.3E-34	Total Query 1% 7%
GO:0046034	ATP metabolic process	3.8E-03	Total Query 1% 3%			8.7E-04	Total Query 1% 2%
GO:0009205	purine ribonucleoside triphosphate metabolic process	4.8E-03	Total Query 1% 3%			1.5E-03	Total Query 1% 2%
GO:0019684	photosynthesis, light reaction	5.5E-18	Total Query 0% 6%			2.7E-12	Total Query 0% 3%
GO:0009141	nucleoside triphosphate metabolic process	8.6E-03	Total Query 1% 3%			6.3E-03	Total Query 1% 2%
GO:0009199	ribonucleoside triphosphate metabolic process	7.5E-03	Total Query 1% 3%			4.6E-03	Total Query 1% 2%
GO:0006163	purine nucleotide metabolic process	8.2E-03	Total Query 1% 3%			2.9E-02	Total Query 1% 2%
GO:0046128	purine ribonucleoside metabolic process	6.8E-03	Total Query 1% 3%			2.0E-02	Total Query 1% 2%
GO:0055085	transmembrane transport	1.6E-02	Total Query 3% 6%			1.4E-04	Total Query 3% 6%
GO:0009161	ribonucleoside monophosphate metabolic process	1.2E-02	Total Query 1% 3%			1.2E-02	Total Query 1% 2%
GO:0009126	purine nucleoside monophosphate metabolic process	6.8E-03	Total Query 1% 3%			3.6E-03	Total Query 1% 2%
GO:0009150	purine ribonucleotide metabolic process	6.8E-03	Total Query 1% 3%			2.1E-02	Total Query 1% 2%
GO:0009123	nucleoside monophosphate metabolic process	1.3E-02	Total Query 1% 3%			1.4E-02	Total Query 1% 2%
GO:0044267	cellular protein metabolic process			1.9E-02	Total Query 8% 22%	1.7E-11	Total Query 8% 16%
GO:0071704	organic substance metabolic process			7.6E-03	Total Query 32% 55%	2.4E-05	Total Query 32% 40%
GO:0006468	protein phosphorylation			4.5E-08	Total Query 1% 20%	8.7E-25	Total Query 1% 7%
GO:0019538	protein metabolic process			3.8E-03	Total Query 9% 27%	5.6E-20	Total Query 9% 20%
GO:0006464	cellular protein modification process			1.4E-03	Total Query 5% 20%	9.7E-04	Total Query 5% 8%
GO:0043412	macromolecule modification			3.6E-03	Total Query 6% 20%	9.7E-04	Total Query 6% 9%
GO:0036211	protein modification process			1.4E-03	Total Query 5% 20%	9.7E-04	Total Query 5% 8%
GO:0009259	ribonucleotide metabolic process	1.3E-02	Total Query 1% 3%				
GO:0009117	nucleotide metabolic process	1.6E-02	Total Query 1% 3%				
GO:0009119	ribonucleoside metabolic process	1.6E-02	Total Query 1% 3%				
GO:0072521	purine-containing compound metabolic process	2.2E-02	Total Query 1% 3%				
GO:0022900	electron transport chain	8.6E-03	Total Query 0% 2%				
GO:0006518	peptide metabolic process					5.0E-10	Total Query 3% 8%
GO:1901566	organonitrogen compound biosynthetic process					2.2E-11	Total Query 4% 10%
GO:0044237	cellular metabolic process					1.5E-07	Total Query 30% 39%
GO:0006265	DNA topological change					4.3E-03	Total Query 0% 1%
GO:0015977	carbon fixation					3.1E-03	Total Query 0% 1%
GO:0043170	macromolecule metabolic process					2.3E-02	Total Query 23% 27%
GO:0055086	nucleobase-containing small molecule metabolic process					1.2E-02	Total Query 1% 3%
GO:0006412	translation					3.7E-13	Total Query 2% 8%
GO:0009987	cellular process					4.5E-04	Total Query 38% 45%
GO:0009132	nucleoside diphosphate metabolic process					1.1E-02	Total Query 0% 1%
GO:0043043	peptide biosynthetic process					4.0E-13	Total Query 2% 8%
GO:0043603	cellular amide metabolic process					1.9E-09	Total Query 3% 8%
GO:0044238	primary metabolic process					5.2E-07	Total Query 29% 38%
GO:0006811	ion transport					2.9E-02	Total Query 2% 3%
GO:0043604	amide biosynthetic process					8.3E-13	Total Query 3% 8%
GO:1901564	organonitrogen compound metabolic process					1.7E-11	Total Query 6% 13%

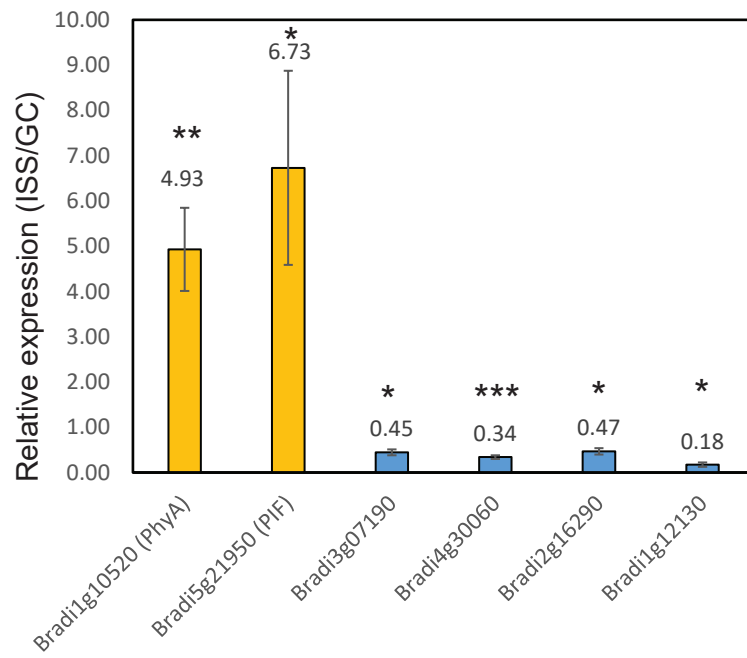
Supplemental Figure S4

GO_acc	Term	Bd21		Bd21-3		Gaz8	
		FDR		FDR		FDR	
GO:0016310	phosphorylation	4.7E-13	Total 2% Query 13%	5.9E-07	Total 2% Query 12%	4.7E-13	Total 2% Query 13%
GO:0055114	oxidation-reduction process	2.6E-14	Total 1% Query 12%	8.2E-13	Total 1% Query 15%	2.6E-14	Total 1% Query 12%
GO:0006796	phosphate-containing compound metabolic process	1.4E-07	Total 4% Query 14%	2.5E-03	Total 4% Query 12%	1.4E-07	Total 4% Query 14%
GO:0008152	metabolic process	9.3E-07	Total 35% Query 55%	8.1E-09	Total 35% Query 64%	9.3E-07	Total 35% Query 55%
GO:0006468	protein phosphorylation	7.7E-16	Total 1% Query 13%	1.0E-08	Total 1% Query 12%	7.7E-16	Total 1% Query 13%
GO:0006793	phosphorus metabolic process	1.4E-07	Total 4% Query 14%	2.5E-03	Total 4% Query 12%	1.4E-07	Total 4% Query 14%
GO:0006464	cellular protein modification process	1.0E-06	Total 5% Query 15%	2.5E-03	Total 5% Query 14%	1.0E-06	Total 5% Query 15%
GO:0036211	protein modification process	1.0E-06	Total 5% Query 15%	2.5E-03	Total 5% Query 14%	1.0E-06	Total 5% Query 15%
GO:0043412	macromolecule modification	4.8E-06	Total 6% Query 16%	9.0E-03	Total 6% Query 14%	4.8E-06	Total 6% Query 16%
GO:0006355	regulation of transcription, DNA-templated	2.9E-02	Total 5% Query 11%			2.9E-02	Total 5% Query 11%
GO:0031326	regulation of cellular biosynthetic process	4.6E-02	Total 6% Query 11%			4.6E-02	Total 6% Query 11%
GO:0019219	regulation of nucleobase-containing compound metabolic process	3.9E-02	Total 6% Query 11%			3.9E-02	Total 6% Query 11%
GO:0044267	cellular protein metabolic process	1.7E-02	Total 8% Query 16%			1.7E-02	Total 8% Query 16%
GO:0010556	regulation of macromolecule biosynthetic process	4.6E-02	Total 6% Query 11%			4.6E-02	Total 6% Query 11%
GO:0051252	regulation of RNA metabolic process	3.1E-02	Total 6% Query 11%			3.1E-02	Total 6% Query 11%
GO:1903506	regulation of nucleic acid-templated transcription	2.9E-02	Total 6% Query 11%			2.9E-02	Total 6% Query 11%
GO:2001141	regulation of RNA biosynthetic process	2.9E-02	Total 6% Query 11%			2.9E-02	Total 6% Query 11%
GO:0009889	regulation of biosynthetic process	4.6E-02	Total 6% Query 11%			4.6E-02	Total 6% Query 11%
GO:0019538	protein metabolic process	3.9E-03	Total 9% Query 18%			3.9E-03	Total 9% Query 18%
GO:2000112	regulation of cellular macromolecule biosynthetic process	4.3E-02	Total 6% Query 11%			4.3E-02	Total 6% Query 11%
GO:0071704	organic substance metabolic process			4.9E-02	Total 32% Query 45%		
GO:0044710	single-organism metabolic process			3.1E-06	Total 11% Query 28%		

Supplemental Figure S5



Supplemental figure S6.



Supplemental figure S7