

Supplementary Table S9. Enriched GO terms in overlapped genes between Cd and Cu ions

Gene group	Enriched GO-BP term	Expected	Fold Enrichment	FDR
Common in severe and mildstress	response to drug	0.92	8.68	0.00221
	plant organ senescence	0.15	26.64	0.00669
	hydrogen peroxide catabolic process	0.16	24.56	0.0085
	response to oomycetes	0.08	38.02	0.0209
	response to bacterium	0.75	7.96	0.0269
	defense response, incompatible interaction	0.28	14.42	0.0395
	toxin catabolic process	0.1	28.75	0.0415
	response to reactive oxygen species	0.29	13.67	0.0446
Only under severe stress	response to wounding	0.52	17.32	0.00000154
	response to salicylic acid	0.46	17.21	0.00000949
	response to abscisic acid	1.19	9.22	0.000011
	response to jasmonic acid	0.52	15.4	0.0000161
	toxin catabolic process	0.14	35.68	0.0000864
	response to oxidative stress	1.01	8.9	0.000163
	oxidation-reduction process	3.33	4.51	0.000182
	glutathione metabolic process	0.19	26.6	0.000275
	response to inorganic substance	1.94	5.15	0.00303
	defense response by callose deposition	0.05	58.51	0.00317
	cellular response to hypoxia	0.08	39.9	0.0081
	negative regulation of nucleic acid-templated transcription	0.44	11.25	0.00907
	induced systemic resistance	0.09	35.11	0.00974
	response to fungus	1.49	5.36	0.0116
	defense response to virus	0.1	31.35	0.0126
	response to salt stress	1.16	6.04	0.0141
	defense response to bacterium, incompatible interaction	0.11	27.43	0.0171
	indole glucosinolate biosynthetic process	0.02	> 100	0.0174
	response to chitin	0.32	12.45	0.0233
	regulation of transcription, DNA-templated	5.62	2.67	0.0283
	aging	0.35	11.59	0.0284
	transcription, DNA-templated	4.49	2.89	0.0296
	regulation of hormone levels	1	5.99	0.0297
	regulation of response to stress	0.65	7.74	0.03
	regulation of response to biotic stimulus	0.17	17.91	0.0361
	response to ethylene	0.72	6.97	0.0401
	regulation of response to external stimulus	0.18	16.56	0.0419
Only under mild stress	defense response to bacterium	1.21	7.44	0.00621
	response to nitrogen compound	1.11	7.18	0.0135
	response to oxygen-containing compound	5.29	3.59	0.003
	response to acid chemical	4.11	3.41	0.0276
	oxidation-reduction process	5.17	3.1	0.0273

Analyzed by PANTHER classification system (<http://www.pantherdb.org/>).

Only bottom level of significantly enriched GO terms were shown.