

Table S7. List of significantly enriched KEGG pathways for the DAPs among the treatment groups in *B. napus* seedlings in response to CA-mediated Cu stress using DAVID Bioinformatics.

Pathway ID	Pathway Name	Number of proteins	Frequency	p-value	Fold Enrichment
CK vs CA					
ath01100	Metabolic pathways	31	17.71	0.00280982 5	1.53738092 2
ath01200	Carbon metabolism	10	5.71	0.00167737 4	3.46961244 9
ath01130	Biosynthesis of antibiotics	10	5.71	0.04273955 5	2.07070264 6
ath00195	Photosynthesis	8	4.57	1.50E-05	9.44455544 5
ath00710	Carbon fixation in photosynthetic organisms	5	2.86	0.00620289 5	6.58723522 9
ath00630	Glyoxylate and dicarboxylate metabolism	5	2.86	0.00793641 4	6.14215176 7
ath00270	Cysteine and methionine metabolism	5	2.86	0.02132960 1	4.59110334 1
ath00190	Oxidative phosphorylation	5	2.86	0.09598168 5	2.80567426 4
ath00196	Photosynthesis - antenna proteins	3	1.71	0.02297359 3	12.3959790 2
CK vs Cu25					
ath01100	Metabolic pathways	28	24.35	6.88E-04	1.67923977 7
ath01130	Biosynthesis of antibiotics	8	6.96	0.08939693 8	2.00328442
ath00195	Photosynthesis	7	6.09	5.05E-05	9.99365750 5
ath01200	Carbon metabolism	7	6.09	0.02673302 5	2.93706728 2
ath00190	Oxidative phosphorylation	6	5.22	0.01356800 2	4.07149009 5
ath00710	Carbon fixation in photosynthetic organisms	5	4.35	0.00306524	7.96595888 1
ath00630	Glyoxylate and dicarboxylate metabolism	4	3.48	0.02732902 3	5.94217473 3
ath00270	Cysteine and methionine metabolism	4	3.48	0.0568231	4.44162555 8
CK vs CA+Cu25					
ath01200	Carbon metabolism	13	12.38	1.74E-07	6.51516115 4
ath00630	Glyoxylate and dicarboxylate metabolism	8	7.62	8.19E-07	14.1951952

ath01100	Metabolic pathways	25	23.81	3.28E-04	1.79085591 3
ath00710	Carbon fixation in photosynthetic organisms	5	4.76	0.00154815 5	9.51489533
ath01130	Biosynthesis of antibiotics	10	9.52	0.00372554 6	2.99101493 3
ath00260	Glycine, serine and threonine metabolism	4	3.81	0.01564773 5	7.29475308 6
ath00195	Photosynthesis	4	3.81	0.01871631 4	6.82106782 1
ath04145	Phagosome	4	3.81	0.02427748 5	6.17908496 7
ath01230	Biosynthesis of amino acids	6	5.71	0.03730939 8	3.10170603 7
ath00020	Citrate cycle (TCA cycle)	3	2.86	0.07855724 2	6.25264550 3
CK vs Cu50					
ath01100	Metabolic pathways	8	10.53	0.08486623 5	1.71922167 7
CK vs CA+Cu50					
ath01200	Carbon metabolism	8	7.77	1.23E-04	6.27547295 1
ath00710	Carbon fixation in photosynthetic organisms	5	4.85	2.50E-04	14.8928796 5
ath01100	Metabolic pathways	15	14.56	0.01577568 2	1.68184729 2
ath04145	Phagosome	3	2.91	0.05851030 3	7.25370844
ath00010	Glycolysis/Gluconeogenesis	3	2.91	0.09598043 6	5.45632935 7