Supplementary Material
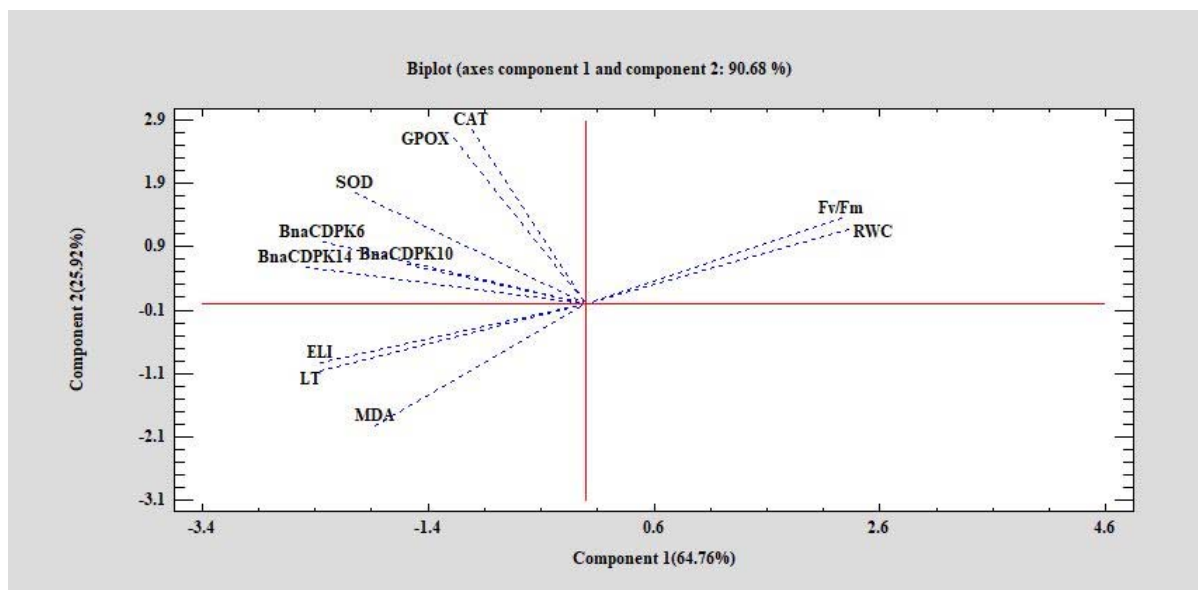

Figure S1. Principal component analysis (PCA) of physiological and biochemical parameters and *BnaCDPK* genes expression in canola genotypes.

Table S1. Analysis of variance of leaf relative water content (RWC), electrolyte leakage index (ELI), malondialdehyde (MDA), leaf temperature (LT), maximum quantum yield of PSII (F_v/F_m), antioxidant enzymes SOD, GPOX and CAT, and *Brassica napus* calcium-dependent protein kinases *BnaCDPK6, BnaCDPK10 and BnaCDPK14* relative gene expression in canola cultivars under drought stress. $P<.05$ (*); $P<.01$ (**); not significant (ns).

S.O.V.	d_f	Mean of square										
		RWC	ELI	MDA	LCT	F_v/F_m	SOD	GPOX	CAT	*CDPK6*	*CDPK10*	*CDPK14*
Cultivar	3	144.27**	67.60**	0.20**	35.41**	0.0005**	2.29**	7.46**	1.40**	0.15**	0.017^{ns}	0.06**
Drought	2	3292.86**	5000.28**	2.47**	1203.6**	0.008**	8.89**	4.00**	0.40**	1.29**	1.02**	2.73**
Cultivar × Drought	6	29.43**	21.82**	0.16**	11.53**	0.0002**	1.08**	4.41**	0.51**	0.047**	0.01^{ns}	0.029^{ns}
Error	24	4.29	1.28	0.002	2.21	0.00001	0.07	0.03	0.01	0.017	0.014	0.016
CV (%)		12.91	10.25	10.3	10.80	0.4	7.75	11.44	12.41	9.73	9.16	8.44

Table S2. Gene Ontology of *BnaCDPK* genes.

Gene (GenBank accession number)	Arabidopsis homolog (AGI accession number)	GO - Molecular Function	GO - Biological Process	GO - Cellular Component
BnaCDPK6 (JX122912)	*AtCPK6* (AT2G17290)	Calcium ion binding, ATP binding,protein kinase activity, kinase activity, transferase activity, nucleotide binding, metal ion binding, calmodulin binding, calmodulin-dependent protein kinase activity	Protein phosphorylation, phosphorylation, peptidyl-serine phosphorylation, protein autophosphorylation, intracellular signal transduction	Nucleus, cytoplasm
BnaCDPK10 (JX122900)	*AtCPK10* (AT1G18890)	Kinase activity, ATP binding, transferase activity nucleotide binding, metal ion binding, calcium ion binding, protein kinase activity	Phosphorylation, protein phosphorylation	-
BnaCDPK14* (XM_013896624.2)	*AtCPK14** (AT2G41860)	Calmodulin binding, calmodulin-dependent protein kinase activity, calcium ion binding, ATP binding, protein kinase activity, kinase activity, transferase activity, protein serine/threonine kinase activity, nucleotide binding, metal ion binding, protein serine kinase activity	Peptidyl-serine phosphorylation, protein autophosphorylation, intracellular signal transduction, protein phosphorylation	Nucleus, plasma membrane, membrane, cytoplasm

*The Arabidopsis homolog, *AtCDPK14*, was used here as there was not sufficient information was available for *BnaCDPK14*.

Table S3. Simple correlation coefficients.

Trait	Fv/Fm	RWC	ELI	LT	MDA	SOD	GPX	CAT	BnaCDPK6	BnaCDPK10	BnaCDPK14
Fv/Fm	1										
RWC	.981**	1									
ELI	-.967**	-.956**	1								
LT	-.968**	-.992**	.934**	1							
MDA	-.926**	-.882**	.916**	.855**	1						
SOD	-.469	-.544	.589*	.561	.237	1					
GPX	-.073	-.115	.231	.125	-.142	.870**	1				
CAT	.016	-.010	.132	.049	-.186	.772**	.891**	1			
BnaCDPK6	-.684*	-.709**	.756**	.736**	.517	.881**	.657*	.686*	1		
BnaCDPK10	-.418	-.535	.358	.616*	.169	.601*	.276	.336	.611*	1	
BnaCDPK14	-.799**	-.830**	.859**	.848**	.612*	.889**	.605*	.559	.955**	.637*	1

**Correlation is significant at the 0.01 level (2-tailed).
* Correlation is significant at the 0.05 level (2-tailed).