

Table S1. Different phosphate and cadmium treatment.

P Cd	0.2 mM (P0)	1 mM (P1)	3 mM (P3)	10 mM (P10)
0 µM (Cd0)	P0Cd0	P1Cd0	P3Cd0	P10Cd0
8.896 µM (Cd1)	P0Cd1	P1Cd1	P3Cd1	P10Cd1
100 µM (Cd100)	P0Cd100	P1Cd100	P3Cd100	P10Cd100

Table S2. Primers for target genes and their homologs in *Arabidopsis thaliana*.

Gene name	Gene symbol	Primers (5' → 3')		homologous gene (<i>Arabidopsis thaliana</i>)
		F	R	
OsIAA17	LOC4338160	GAAGATGACCAAGGACCACTACAA	GCTTCTCCGCCTTATTCA CG	AtIAA27
OsACO1	LOC4347224	GAAGATGACCAAGGACCACTACAA	GCTTCTCCGCCTTATTCA CG	AtACO2, AtACO3, AtACO4
OsNR2	LOC4330867	ACTGGTGCTGGTGCTTCTGGTC	CGGCTGGGTGTTGAGGGACT	AtNIA1,AtNIA2
OsPAL1	LOC4330034	TCTCGCCATGCCAACATC	TGCCCTGAACCCGTAGTCC	AtPAL1,AtPAL2,AtPAL3,AtPAL4
OsNRAMP1	LOC4342862	CGCTCATGCTGCTCTACG	TGTGCTTCTCGGTGTCG	AtNRAMP1,AtNRAMP2,AtNRAMP3,AtNRAMP4,AtNRA MP5,AtNRAMP6
OsHMA2	LOC4341965	AGGACGCATCGGACAAT	GACGGCTGCCAGATAA	AtHMA1,AtHMA2,AtHMA3,AtHMA4,AtHMA5
OsHMA4	LOC4328616	TTCTCCAAGATAACCGCTACT	TGAGATCCATATTGTTCCCT	
OsIRT1	LOC4333669	GCCCTCCTTCTCGTC	GTGGGTGCCGTT	AtIRT1,AtIRT2,AtIRT3
OsABCC1	LOC4337027	GTCTACAATCCGTGCCTAC	CCACCCAATGTTCCA	AtABCC1-15
OsZIP2	LOC4333098	AAATGGCAACGCCCTGACCC	CGATGAGCAGCACGCTGTCG	AtZIP1-9
OsACTIN1 (reference gene)	LOC4338914	ATTCCCTCACACAAGCG	CCATCAGGCATCTCATAGC	

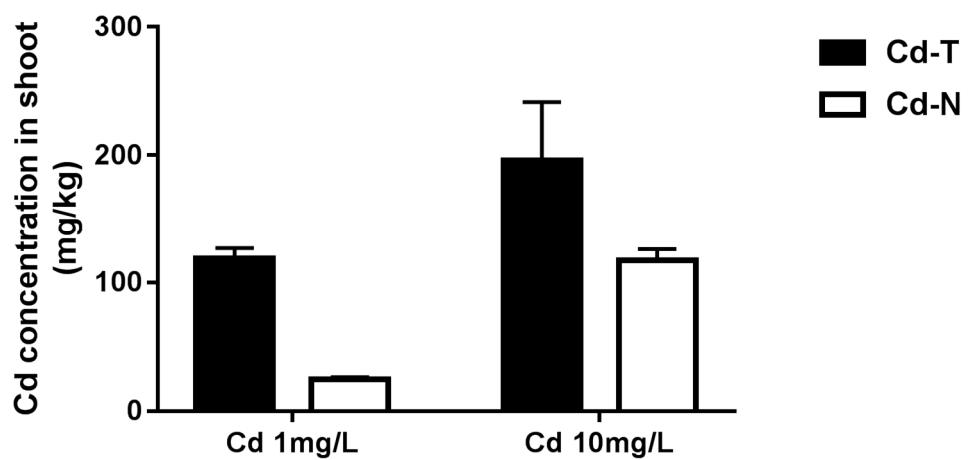


Figure S1. Cadmium content of the Cd-T and Cd-N rice grown in hydroponic system with 1mg/L and 10mg/L short-term Cd treatment. (Values are means with SD, n=3)

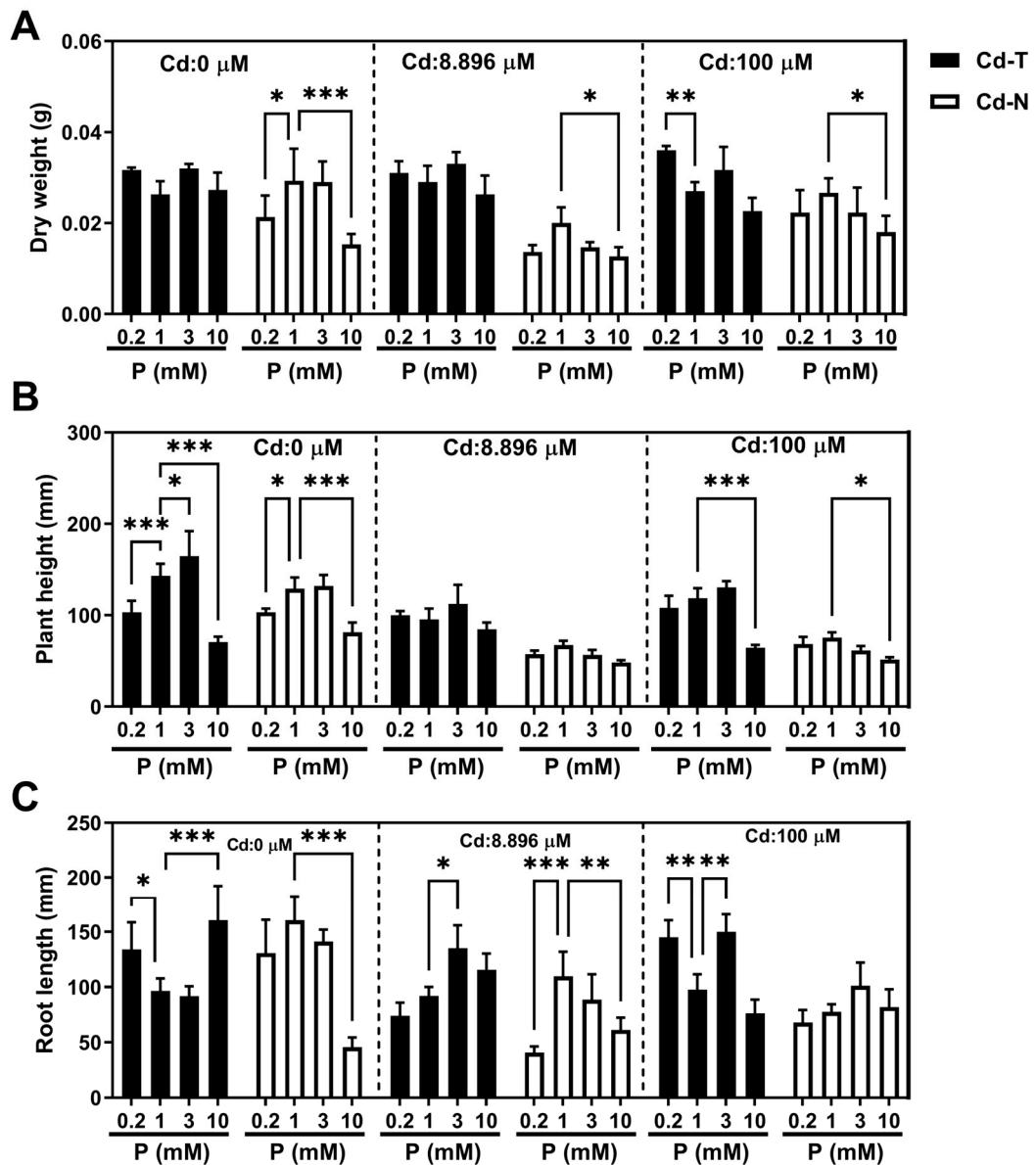


Figure S2. The effect of various phosphorus and cadmium treatments on the rice growth condition. (A) dry weight.; (B) plant height; (C) root length. (Values are means with SD, n=3, P value style is APA, ns:P>0.05, *:P<0.05, **:P<0.01, ***:P<0.001)

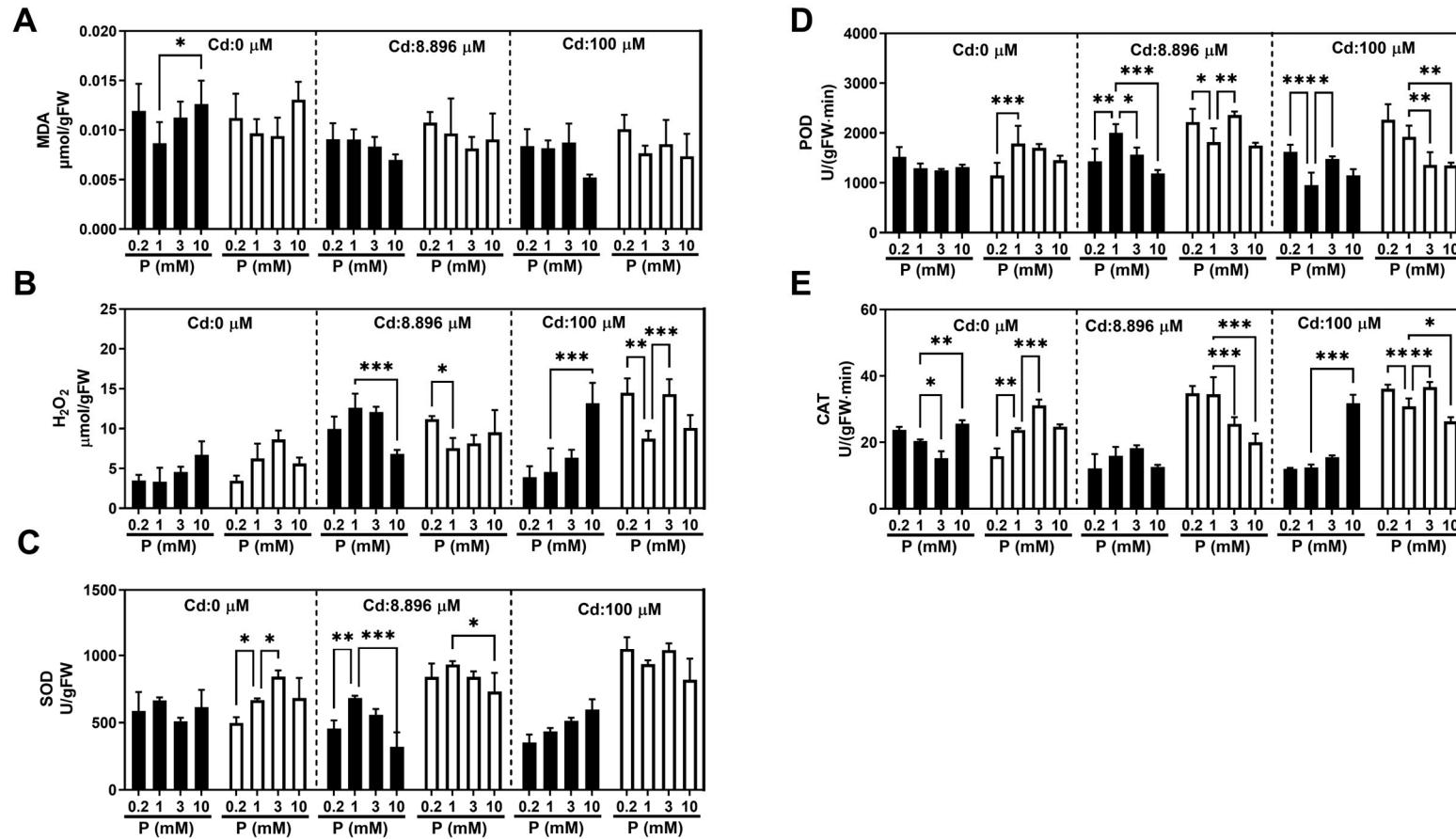


Figure S3. The effect of various phosphorus and cadmium treatments on the rice shoot peroxidation system. (A) Malonaldehyde (MDA) content; (B) hydrogen peroxide(H_2O_2) content; (C) Superoxide dismutase (SOD) activity; (D) Peroxidase(POD) activity; (E) Catalase(CAT) activity; (F) Total antioxidant capacity. (Values are means with SD, n=3, P value style is APA, ns:P>0.05, *:P<0.05, **:P<0.01, ***:P<0.001)

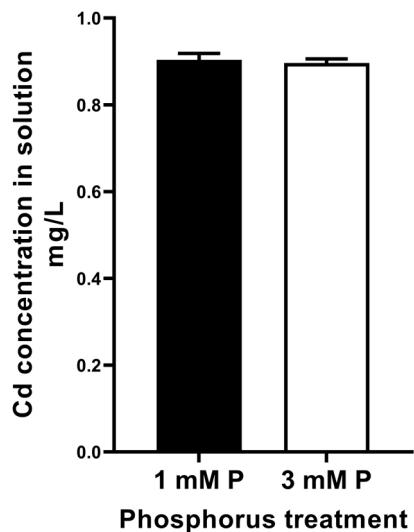


Figure S4. Cd concentration in the growing media.(Values are means with SD, n=3)