

Table 1. Changes in shoot and root length, shoot and root fresh weight, malondialdehyd (MDA) content, and the optimal (Fv/Fm) and effective ($\Delta F/Fm'$) quantum yield of photosystem II of 24 day-old wheat plant after 24 days of 50 μM cadmium treatment. Data presented as mean \pm s.d. *, **, and *** denote significant differences from the control of the same day at the 0.05, 0.01 and 0.001 level, respectively.

	Cd (μM)	shoot length (cm) and % decrease		shoot FW (g plant ⁻¹) and % decrease		leaf MDA (nmol g ⁻¹ FW) and % increase		Fv/Fm	$\Delta F/Fm'$
TC19	0	40.21 \pm 1.74		1.25 \pm 0.05		4.22 \pm 0.63		0.79 \pm 0.002	0.578 \pm 0.025
	50	30.33 \pm 2.4 ***	24.57	0.68 \pm 0.29 **	45.8	9.17 \pm 2.33 **	217.33	0.78 \pm 0.008	0.521 \pm 0.02 ***
TC33	0	43.25 \pm 1.7		1.14 \pm 0.14		3.89 \pm 0.34		0.792 \pm 0.014	0.57 \pm 0.017
	50	32.9 \pm 1.69 ***	23.93	0.5 \pm 0.15 ***	38	9.7 \pm 0.99 ***	249.35	0.79 \pm 0.007	0.491 \pm 0.035 ***
Mv8	0	40.18 \pm 1.36		1.53 \pm 0.2		3.64 \pm 0.26		0.795 \pm 0.007	0.55 \pm 0.009
	50	32.0 \pm 1.54 ***	20.36	0.99 \pm 0.19 **	35	7.82 \pm 0.47 ***	214.54	0.792 \pm 0.004	0.515 \pm 0.04
Mv Hombár	0	34.02 \pm 1.09		1.2 \pm 0.12		4.87 \pm 0.57		0.791 \pm 0.003	0.541 \pm 0.035
	50	27.6 \pm 2.1 ***	19.3	0.7 \pm 0.15 ***	42.7	7.96 \pm 1.31 **	163.33	0.791 \pm 0.008	0.535 \pm 0.027
	Cd (μM)	root length (cm) and % decrease		root FW (g plant ⁻¹) and % decrease		root MDA (nmol g ⁻¹ FW) and % increase			
TC19	0	22.86 \pm 1.52		0.70 \pm 0.14		2.02 \pm 0.14			
	50	21.9 \pm 1.78	4.2	0.44 \pm 0.15 **	38	2.6 \pm 0.57	129.11		
TC33	0	29.1 \pm 1.7		0.70 \pm 0.13		2.18 \pm 0.5			
	50	24.2 \pm 2.11 *	16.84	0.48 \pm 0.06 **	31.39	3.3 \pm 0.41 ***	151.5		
Mv8	0	23.18 \pm 1.47		0.59 \pm 0.07		2.3 \pm 0.5			
	50	22.75 \pm 1.13	1.86	0.43 \pm 0.07 **	26	2.92 \pm 0.41	126.67		
Mv Hombár	0	19.34 \pm 1.85		0.39 \pm 0.02		2.07 \pm 0.22			
	50	19.5 \pm 1.78		0.37 \pm 0.07	3.92	2.42 \pm 0.29	117		