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Supplementary Material

Amplification of abiotic stress tolerance potential in rice seedlings with a low dose of UV-B seed priming

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Table S1. Total chlorophyll and carotenoid content and shoot length in rice seedlings subjected to various stress conditions (NaCl, PEG and UV-B)

Treatments	Concentrations	Shoot length (cm)	Total chlorophyll (mg g ⁻¹ dw)	Carotenoids (mg g ⁻¹ dw)
NaCl	0 mM	10.96±0.09 ^a	2.05±0.01 ^b	6.93±0.08 ^a
	25 mM	11.08±0.12 ^a	2.58±0.01 ^a	6.47±0.08 ^b
	50 mM	8.56±0.07 ^b	1.70±0.01 ^c	5.33±0.08 ^c
	75 mM	6.52±0.10 ^c	1.51±0.01 ^d	4.77±0.07 ^d
	100 mM	5.44±0.11 ^d	0.99±0.01 ^e	3.44±0.07 ^e
	125 mM	4.32±0.18 ^e	0.77±0.002 ^f	2.84±0.03 ^f
PEG	0%	10.28±0.14 ^a	1.46±0.01 ^b	5.64±0.03 ^a
	5%	9.4±0.09 ^b	1.64±0.01 ^a	5.71±0.04 ^a
	10%	8.04±0.15 ^c	1.19±0.01 ^c	4.22±0.03 ^b
	15%	6.64±0.07 ^d	1.07±0.01 ^d	4.27±0.02 ^c
	20%	5.12±0.10 ^e	0.72±0.002 ^e	2.80±0.01 ^d
	25%	4.08±0.08 ^f	0.55±0.003 ^f	2.14±0.01 ^e
UV-B	0 kJ m ⁻² d ⁻¹	10.68 ±0.08 ^b	1.83±0.01 ^a	5.98±0.07 ^b
	7 kJ m ⁻² d ⁻¹	11.08 ±0.21 ^a	1.75±0.01 ^b	7.51±0.04 ^a
	14 kJ m ⁻² d ⁻¹	8.92±0.12 ^c	1.64±0.01 ^c	5.35±0.05 ^c
	21 kJ m ⁻² d ⁻¹	7.56±0.11 ^d	1.41±0.01 ^d	4.34±0.01 ^d
	28 kJ m ⁻² d ⁻¹	5.44±0.07 ^e	0.87±0.01 ^e	2.86±0.02 ^e
	35 kJ m ⁻² d ⁻¹	4.2±0.14 ^f	0.71±0.01 ^f	2.26±0.03 ^f

Table S2. Shoot length, total chlorophyll and carotenoid content of rice seedlings raised from UV-B primed (different doses) rice seeds and subjected to various stress conditions (NaCl, PEG and UV-B)

Concentrations	Shoot length (cm)			Total chlorophyll (mg g ⁻¹ dw)			Carotenoids (mg g ⁻¹ dw)		
	P+N	P+P	P+U	P+N	P+P	P+U	P+N	P+P	P+U
0 kJ m ⁻²	7.04±0.14 ^d	5.5±0.05 ^d	5.92±0.12 ^d	1.01±0.12 ^e	0.79±0.01 ^e	0.87±0.01 ^d	2.96±0.03 ^e	2.54±0.01 ^d	2.66±0.01 ^d
2 kJ m ⁻²	8.56±0.07 ^c	6.9±0.1 ^c	7.28±0.1 ^c	1.29±0.01 ^d	0.81±0.01 ^d	0.94±0.01 ^c	3.17±0.01 ^d	2.96±0.01 ^c	3.04±0.03 ^c
4 kJ m ⁻²	9.72±0.04 ^b	7.6±0.08 ^b	8.04±0.07 ^b	1.39±0.01 ^c	0.83±0.01 ^c	0.99±0.01 ^b	3.37±0.03 ^c	3.05±0.01 ^b	3.34±0.01 ^b
6 kJ m ⁻²	10.56±0.07 ^a	8.35±0.09 ^a	9.16±0.13 ^a	1.44±0.01 ^a	0.91±0.01 ^a	1.02±0.01 ^a	3.67±0.01 ^a	3.21±0.03 ^a	3.61±0.01 ^a
8 kJ m ⁻²	8.76±0.04 ^c	7.65±0.09 ^b	8.12±0.1 ^b	1.4±0.01 ^b	0.87±0.01 ^b	0.94±0.01 ^c	3.55±0.01 ^c	2.96±0.03 ^c	3.31±0.02 ^b

P+N – Primed+ NaCl; P+P– Primed+ PEG; P+U– Primed+ UV-B