

Supplementary Material

Use of Arbuscular Mycorrhizal Fungi for Boosting Antioxidant Enzyme Metabolism and Mitigating Saline Stress in Sweet Basil (*Ocimum basilicum* L.)

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Table S1. ANOVA table according to oxidative stress enzymes and chlorophyll responses of basil plants under different salinity conditions.

Saline Dose		APX (mM g fw min ⁻¹)	CAT (mM fw min ⁻¹)	Chlorophyll content (spad)	H ₂ O ₂ (μmol g ⁻¹ fw)	MDA (nmolg ⁻¹ fw)	SOD (U g ⁻¹ fw)
0 mM		0.40±0.05c	0.02±0.01c	29.48±2.84a	10.37±0.54c	5.08±0.49c	3.56±0.22b
150 mM		1.05±0.16b	0.06±0.01b	27.70±1.88a	11.70±0.32b	11.89±2.34b	3.70±0.24b
300 mM		1.59±0.24a	0.13±0.02a	24.78±1.04b	12.76±1.33a	20.58±3.28a	4.39±0.32a
Treatment							
AMF		1.13±0.60a	0.08±0.05a	26.49±1.16a	11.17±0.87a	10.74±5.71a	3.98±0.56a
Control		0.90±0.45a	0.06±0.04a	28.16±3.67a	12.05±1.52a	14.29±7.82a	3.78±0.31a
Saline Dose × Treatment							
AMF	0mM	0.43±0.03e	0.03±0.00e	27.27±1.76bc	10.32±0.61c	4.69±0.20e	3.40±0.21e
	150mM	1.15±0.07c	0.07±0.01c	26.57±0.46bc	11.49±0.11b	9.81±0.68d	3.91±0.06bc
	300mM	1.80±0.10a	0.14±0.01a	25.63±0.25cd	11.69±1.00b	17.72±0.66b	4.64±0.22a
Control	0mM	0.37±0.05e	0.02±0.00e	31.70±1.54a	10.41±0.59c	5.46±0.32e	3.71±0.08cd
	150mM	0.94±0.15d	0.06±0.00d	28.83±2.17b	11.92±0.33b	13.98±0.45c	3.49±0.10de
	300mM	1.39±0.10b	0.11±0.01b	23.93±0.68d	13.82±0.22a	23.44±1.37a	4.15±0.15b
ANOVA							
<i>F</i> _{Salinity}		247.01***	418.74***	18.53***	27.44***	697.72***	52.67***
<i>F</i> _{AMF}		26.44***	46.39***	6.86*	11.21**	109.64***	7.8*
<i>F</i> _{AMF×Salinity}		5.56*	5.02*	7.96**	5.7*	18.52***	12.97**

Different letters in the same column indicate significant differences according to Student's t-test ($p \leq 0.05$). ns: not significant. *, **, and*** indicate significance at $p \leq 0.05$, 0.01, and 0.001, respectively.