



**Supplementary Table S1.** Effect of basil cultivars (CV) and stress (S) on plant height, leaf number, leaf area, total dry weight, and total dry matter.

Treatment	Plant height cm	Leaf number n. plant <sup>-1</sup>	Leaf area cm <sup>2</sup>	Total dry weight g plant <sup>-1</sup>	Total Dry matter %
<b>Cultivar (CV)</b>					
Anise	46.04 ± 2.53 a	233.22 ± 25.97 a	1587.66 ± 184.58 a	15.33 ± 1.52 a	13.24 ± 0.80
Cinnamon	46.53 ± 2.16 a	235.47 ± 10.01 a	1473.43 ± 99.68 a	14.89 ± 0.42 a	12.19 ± 1.33
Lemon	42.39 ± 4.09 b	209.14 ± 26.93 b	1213.58 ± 218.65 b	10.31 ± 1.86 b	13.07 ± 0.63
<b>Stress (S)</b>					
Control	51.43 ± 0.47	271.72 ± 5.85	1791.55 ± 54.93	16.19 ± 0.68	10.92 ± 0.45
Salt	38.54 ± 1.36	180.17 ± 10.12	1058.23 ± 88.05	10.83 ± 1.23	14.75 ± 0.32
<b>CV × S</b>					
Anise × Control	51.56 ± 1.11 a	290.00 ± 7.09 a	1991.39 ± 7 3.53 a	18.63 ± 0.49 a	11.62 ± 0.2 b
Anise × Salt	40.52 ± 0.56 b	176.44 ± 9.97 d	1183.93 ± 44.02 c	12.03 ± 0.67 c	14.86 ± 0.76 a
Cinnamon × Control	51.22 ± 0.81 a	256.11 ± 7.56 b	1681.39 ± 18.71 b	15.53 ± 0.63 b	9.27 ± 0.45 c
Cinnamon × Salt	41.83 ± 0.79 b	214.83 ± 4.26 c	1265.47 ± 77.97 c	14.26 ± 0.28 bc	15.10 ± 0.32 a
Lemon × Control	51.50 ± 0.87 a	269.06 ± 3.31 ab	1701.87 ± 19.71 b	14.41 ± 0.41 bc	11.86 ± 0.33 b
Lemon × Salt	33.28 ± 0.15 c	149.22 ± 4.89 d	725.29 ± 14.65 d	6.20 ± 0.47 d	14.29 ± 0.62 a
<b>Significance</b>					
CV	***	**	***	***	ns
S	***	***	***	***	***
CV × S	***	***	***	***	*

Data are mean values ± standard error,  $n = 3$ . Mean comparisons were performed by Tukey HSD test for CV and by *t*-Test for S. Different letters within each columns indicate significant mean differences. ns, \*, \*\*, and \*\*\* denote non-significant or significant effects at  $p \leq 0.05$ , 0.01, and 0.001, respectively.

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**Supplementary Table S2.** Effect of basil cultivars (CV) and stress (S) on leaf transpiration (E), leaf stomatal conductance (gs), CO<sub>2</sub> net assimilation rate, and Chlorophyll fluorescence (Fv/Fm).

Treatment	E	gs	ACO <sub>2</sub>	Fv/Fm
	mol H <sub>2</sub> O m <sup>-2</sup> s <sup>-1</sup>	mol H <sub>2</sub> O m <sup>-2</sup> s <sup>-1</sup>	μmol CO <sub>2</sub> m <sup>-2</sup> s <sup>-1</sup>	
<b>Cultivar (CV)</b>				
Anise	5.11 ± 0.41 b	0.18 ± 0.02 b	15.34 ± 0.75 ab	0.78 ± 0.01
Cinnamon	5.64 ± 0.65 ab	0.20 ± 0.02 ab	16.81 ± 1.11 a	0.77 ± 0.01
Lemon	5.97 ± 0.41 a	0.24 ± 0.02 a	15.11 ± 1.23 b	0.77 ± 0.02
<b>Stress (S)</b>				
Control	6.59 ± 0.20	0.24 ± 0.01	17.87 ± 0.50	0.79 ± 0.00
Salt	4.55 ± 0.22	0.17 ± 0.02	13.63 ± 0.39	0.76 ± 0.01
<b>CV × S</b>				
Anise × Control	6.02 ± 0.13	0.23 ± 0.01	16.81 ± 0.63	0.80 ± 0.01
Anise × Salt	4.20 ± 0.10	0.13 ± 0.01	13.87 ± 0.52	0.77 ± 0.01
Cinnamon × Control	7.05 ± 0.24	0.24 ± 0.02	19.20 ± 0.52	0.79 ± 0.00
Cinnamon × Salt	4.23 ± 0.27	0.15 ± 0.01	14.42 ± 0.42	0.76 ± 0.01
Lemon × Control	6.71 ± 0.36	0.25 ± 0.01	17.61 ± 0.91	0.79 ± 0.01
Lemon × Salt	5.23 ± 0.39	0.22 ± 0.04	12.61 ± 0.70	0.75 ± 0.03
<b>Significance</b>				
CV	*	**	*	ns
S	***	***	***	*
CV × S	ns	ns	ns	ns

Data are mean values ± standard error,  $n = 3$ . Mean comparisons were performed by Tukey HSD test for CV and by  $t$ -Test for S. Different letters within each columns indicate significant mean differences. ns, \*, \*\*, and \*\*\* denote non-significant or significant effects at  $p \leq 0.05$ , 0.01, and 0.001, respectively.