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*Supplementary Materials*

# Phytochemical Responses to Salt Stress in Red and Green Baby Leaf Lettuce (*Lactuca sativa* L.) Varieties Grown in a Floating Hydroponic Module

**Giandomenico Corrado, Paola Vitaglione, Maria Giordano, Giampaolo Raimondi, Francesco Napolitano, Emilio di Stasio, Ida Di Mola, Mauro Mori and Youssef Rouphael ***

Department of Agricultural Sciences, University of Naples Federico II, 80055 Portici, Italy; giandomenico.corrado@unina.it (G.C.); paola.vitaglione@unina.it (P.V.); maria.giordano@unina.it (M.G.); giampaolo.raimondi@unina.it (G.R.); francesco.napolitano@hotmail.it (F.N.); emiliodistasio@gmail.com (E.d.S.); ida.dimola@unina.it (I.D.M.); mori@unina.it (M.M.)
* Correspondence: youssef.rouphael@unina.it

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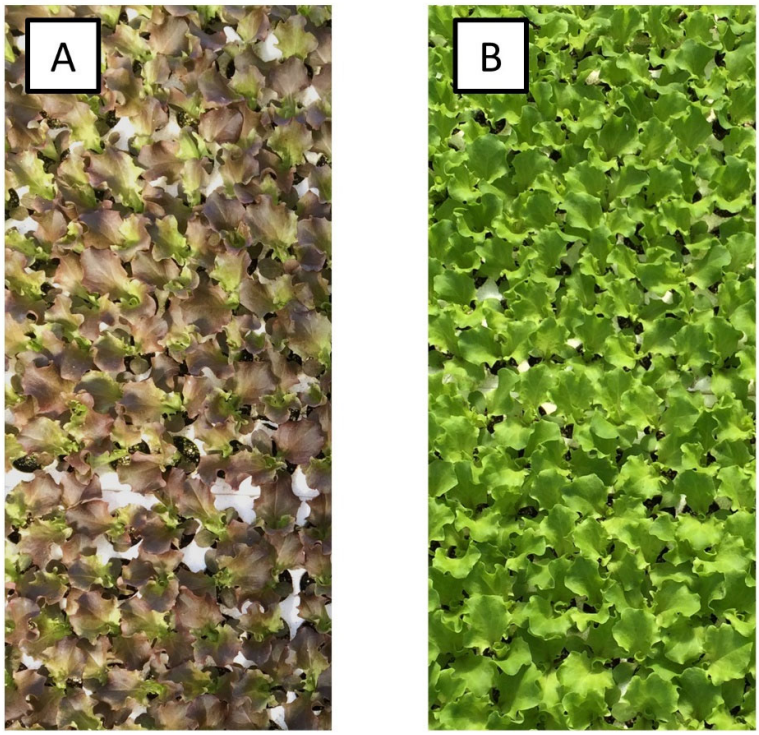



**Figure S1.** Amount of K and Na in leaf. Data are mean ± standard error of the mean.

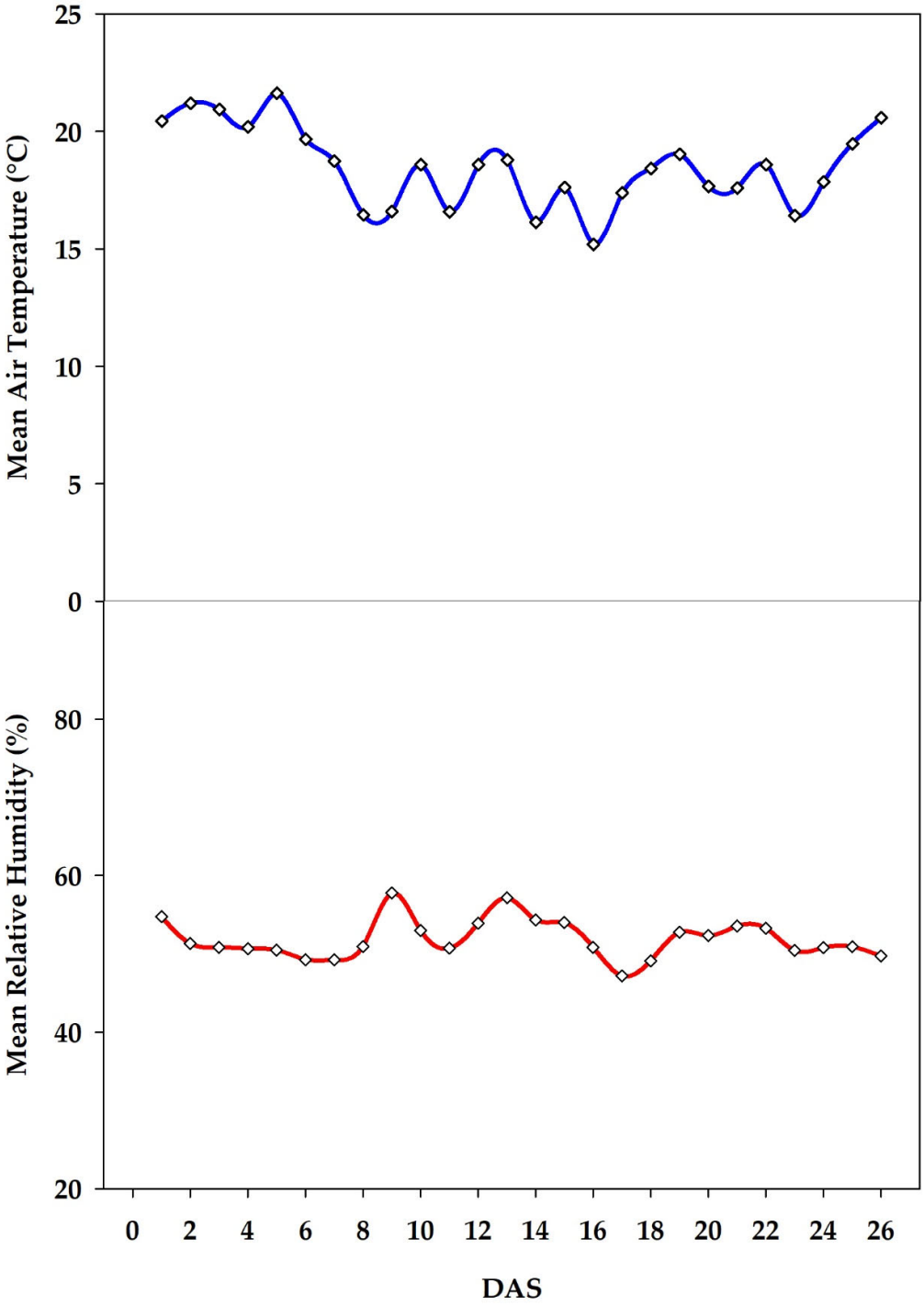



**Figure S2.** Minimum and maximum air temperature (°C) and mean relative humidity (%) during the growing cycle (DAS: days after sowing).

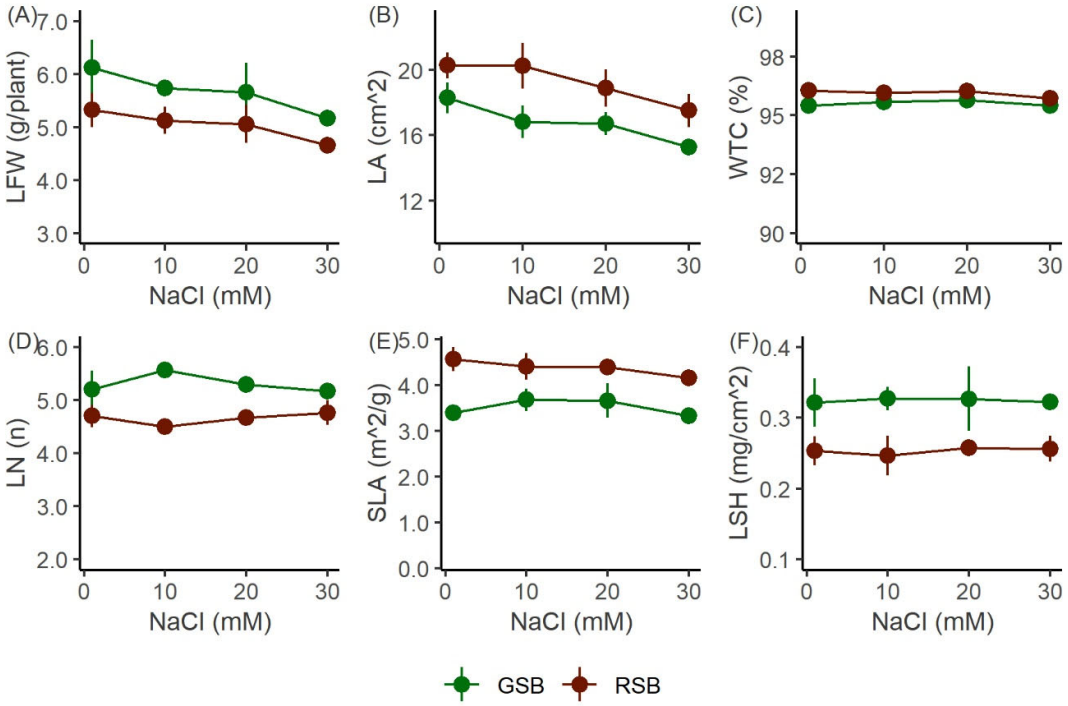



**Figure S3.** Biometric analysis of the leaves of the two lettuce cultivars, GSB (**green**) and RSB (**red**). For each plot, the graph displays the mean and the standard error of the mean (n = 3) at the four different NaCl concentrations. **A**: Fresh weight; **B**: average leaf area; **C**: water content; **D**: leaf number per plant; **E**: specific leaf area (SLA); **F**: leaf succulence at harvest (LSH). The statistical analysis is reported in Table 1.

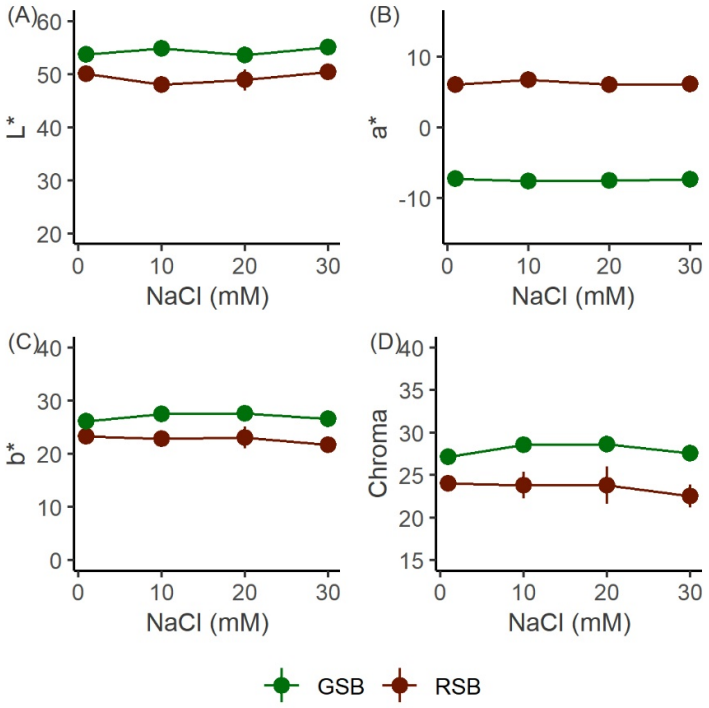



**Figure S4.** Leaf coloration analysis of the two lettuce cultivars, GSB (**green**) and RSB (**red**). For each plot, the graph displays the mean and the standard error of the mean (n = 3) at the four different NaCl concentrations. **A**: lightness (L*); **B**: degree of redness (a*); **C**: degree of yellowness (b*); **D**: chroma. The statistical analysis is reported in Table 2.

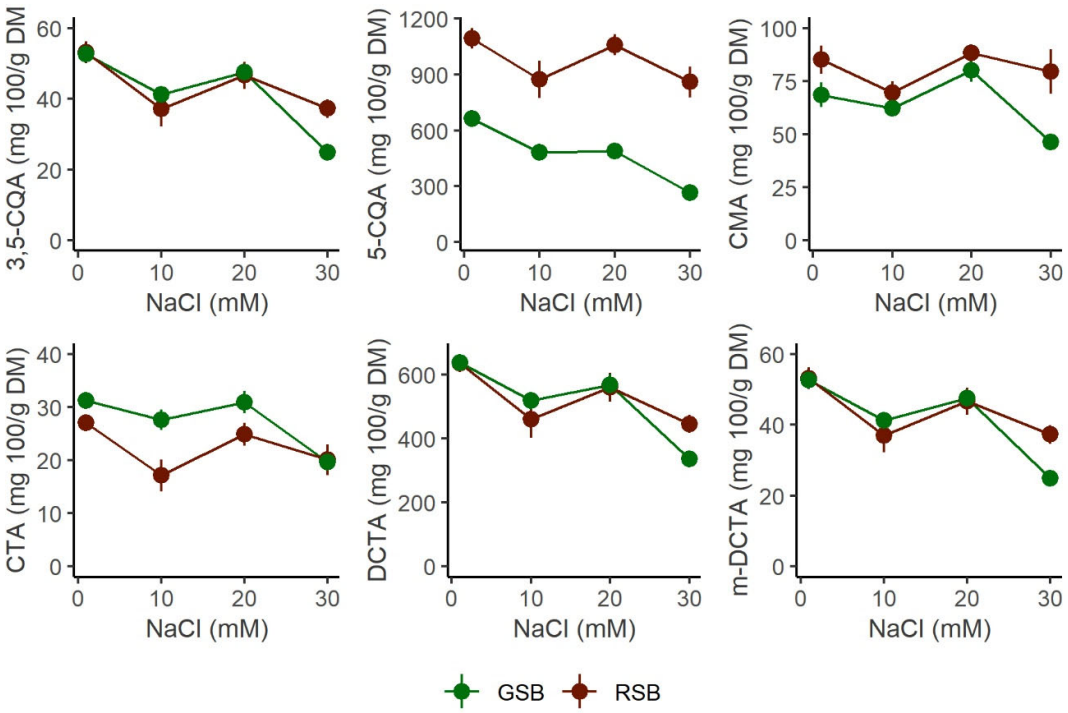



**Figure S5.** Analysis of the leaf polyphenols of the two lettuce cultivars GSB (**green**) and RSB (**red**). For each plot, the graph displays the mean and the standard error of the mean (n = 3) at the four different NaCl concentrations. 3,5-CQA: isochlorogenic acid; 5-CQA: chlorogenic acid; CMA: caffeoylmalic acid; CTA: caffeoyltartaric acid; DCTA: cichoric acid; m-DCTA: meso-di-O-caffeoyltartaric acid. The statistical analysis is reported in Table 3.

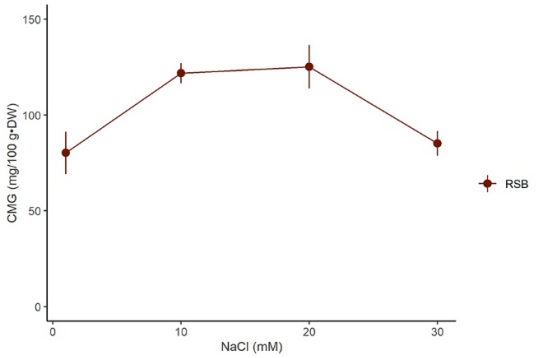



**Figure S6.** Analysis of the cyanidin-malonyl glucoside (CMG) in the RSB variety. The graph displays the mean and the standard error of the mean (n = 3) at the four different NaCl concentration. The statistical analysis is reported in Table 4.

**Table S1.** Amount of K and Na in leaf. Data are mean ± standard error of the mean.

| Cultivar | NaCl (mM) | K (g/kg) | Na (g/kg) |
|---|---|---|---|
| GSB | 1 | 43.13 ± 3.58 | 4.23 ± 0.26 |
| GSB | 10 | 41.47 ± 5.95 | 9.63 ± 1.47 |
| GSB | 20 | 32.57 ± 10.06 | 10.47 ± 2.97 |
| GSB | 30 | 30.80 ± 8.88 | 13.03 ± 3.79 |
| RSB | 1 | 62.67 ± 1.47 | 2.83 ± 0.44 |
| RSB | 10 | 56.13 ± 9.15 | 7.17 ± 1.46 |
| RSB | 20 | 53.03 ± 11.45 | 10.67 ± 2.40 |
| RSB | 30 | 52.77 ± 12.18 | 15.67 ± 0.46 |

**Table S2.** Coefficient of variation (CV) of the polyphenols across conditions. 3,5-CQA: isochlorogenic acid; 5-CQA: chlorogenic acid; CMA: caffeoylmalic acid; CTA: caffeoyltartaric acid; DCTA: cichoric acid; m-DCTA: meso-di-O-caffeoyltartaric acid; TP: total polyphenols.

| Compound | CV |
|---|---|
| 3,5-CQA | 0.24 |
| 5-CQA | 0.41 |
| CMA | 0.21 |
| CMG | 1.08 |
| CTA | 0.24 |
| DCTA | 0.22 |
| m-DCTA | 0.24 |
| TP | 0.29 |