**Table S1.** Summary of ANOVA two-way results for morphological and gas exchange parameters of ‘Marketmore’ and ‘Straight 8’ cucumber cultivars under 10 days waterlogging treatments.

|  |  |  |  |
| --- | --- | --- | --- |
| **Studied Parameters** | **Source of variation** | | |
| Treatment | Cultivar | Treatment \* Cultivar |
|  |  |  |  |
| LN (plant -1) | \* | \*\*\* | NS |
| LA (cm2) | \* | \*\*\* | NS |
| FM (g/plant) | \* | \*\*\* | NS |
| DM (g/plant) | \* | \*\*\* | \* |
| *A* (µmol m-2 s-1) | \*\*\* | \*\*\* | NS |
| gs (mol m-2 s-1) | \*\*\* | NS | NS |
| *E* (mol m-2 s-1) | \*\*\* | NS | NS |
| Ci (µmol m-1 ) | \*\*\* | \*\* | NS |
| WUE | \*\*\* | NS | NS |
| Ls | \*\*\* | NS | NS |
| ETR | \*\*\* | \* | NS |
| Vc (µmol m-2 s-1) | \*\*\* | \* | NS |
| Vo (µmol m-2 s-1) | \*\*\* | NS | NS |
| Vcmax (µmol m-2 s-1) | \*\*\* | \* | NS |
| Jmax (µmol m-2 s-1) | \*\*\* | \* | NS |
| Fv/Fm | \*\*\* | \* | NS |
| Fm | NS | \* | NS |
| Fo | \*\* | \* | NS |
| Fv'/Fm' | \*\*\* | \*\* | NS |
| qP | \*\*\* | NS | NS |
| qL | \*\*\* | NS | NS |
| 1-qL | \*\*\* | NS | NS |
| ΦPSII | \*\*\* | NS | NS |
| NPQ | \*\*\* | NS | NS |
| ΦNO | \*\*\* | NS | NS |
| ΦNPQ | \*\*\* | NS | NS |

Note: \*, \*\* and \*\*\* represent statistical significance at *P* ≤ .05, .01, and .001, respectively. NS represents not statistically significant *P* > 0.05.

**Table S2.** Water quality of the waterlogged water.

|  |  |  |
| --- | --- | --- |
| Parameter | Unit | Values |
| pH |  | 6.2 |
| EC | dS·m−1 | 1.8 |

EC: Electrical conductivity