**Table S1:** Result of multivariate analysis of variance MANOVA test for independent variables including M (A), Compost (C) amendment and *Verticillium dahlia* (D) and interaction among them.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **M (A)** | **C** | **NPK** | ***Verticillium dahlia* (D)** | **A × C** | **A × D** | **C × D** | **NPK × D** | **A × C × D** |
| Disease incidence | ns | ns | ns | \*\*\* | ns | ns | ns | ns | ns |
| Final mean severity | ns | ns | ns | \*\*\* | ns | ns | ns | ns | ns |
| AUDPC | ns | ns | ns | \*\*\* | ns | ns | ns | \* | ns |
| Leaf alteration index | ns | ns | ns | \*\* | ns | ns | ns | ns | ns |
| Mycorrhization frequency | \*\*\* | \*\*\* | ns | \*\*\* | \*\*\* | \*\*\* | \*\*\* | ns | \*\*\* |
| Mycorrhization intensity | \*\*\* | \*\*\* | ns | \*\*\* | \*\*\* | \*\*\* | ns | ns | ns |
| Stomatal conductance | \*\* | \*\*\* | \*\*\* | \*\*\* | \*\* | ns | ns | ns | ns |
| Fv/Fm | ns | \*\*\* | \*\*\* | \*\*\* | \*\*\* | ns | \*\* | \*\*\* | \*\*\* |
| Chlorophyll a | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| Chlorophyll b | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\* | ns | \*\*\* | \*\*\* |
| Total Chlorophyll | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| Carotenoids | \*\*\* | \*\*\* | ns | \*\*\* | \*\*\* | \*\* | \*\*\* | \*\*\* | ns |
| Protein | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\* | ns |
| Total soluble sugar | \*\*\* | \*\*\* | ns | \*\*\* | ns | \*\*\* | \* | \*\*\* | \*\*\* |
| Proline | ns | \*\*\* | \*\*\* | \*\*\* | \*\*\* | ns | \*\* | ns | ns |
| H2O2 | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| MDA | \*\*\* | \*\*\* | ns | \*\*\* | \*\*\* | ns | \*\*\* | \*\*\* | \*\*\* |
| SOD | \*\*\* | ns | \* | \*\*\* | \*\*\* | ns | ns | \* | ns |
| APX | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\* | ns | \* | ns | \*\* |
| POX | \*\*\* | \*\*\* | \*\* | \*\*\* | ns | \*\* | \*\*\* | \*\* | ns |
| PPO | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\* | \*\*\* | \*\*\* | ns | \*\*\* |

Note: ns: non significant, \*significant at *p* < 0.05, \*\*significant at *p* < 0.005, \*\*\*significant at *p* < 0.001