**The effects of exogenous hormones on rooting process and the activities of key enzymes of *Malus hupehensis* stem cuttings**

Wangxiang Zhang, Junjun Fan, Qianqian Tan, Mingming Zhao, Ting Zhou, Fuliang Cao

**S1 Table. Effects of different exogenous hormones on rooting time and rooting percentage of *Malus hupehensis* cuttings.** P0, the starting date; P3, the root emergence date; P4, the massive root formation date; S0, the root pre-emergence stage (P0-P3); S1, early stage of root formation (P3-P4).

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| --- | --- | --- | --- | --- | --- | --- |
| Treatments  | P0 | P3 | P4 | S0 | S1 | Rooting percentage (%) |
| Control (water) (X0) | 0 | 48th | 75th | 48 | 27 | 37.8 ± 1.9 |
| IAA concentration (mg·L-1) | 100 (X1) | 0 | 27th | 51st | 27 | 24 | 86.7 ± 0.0 |
| 300 (X2) | 0 | 33rd | 57th | 33 | 24 | 81.1 ± 1.9 |
| 500 (X3) | 0 | 33rd | 66th | 33 | 33 | 66.7 ± 3.3 |
| 700 (X4) | 0 | 39th | 69th | 39 | 30 | 58.9 ± 3.8 |
| NAA concentration (mg·L-1) | 100 (X5) | 0 | 45th | 69th | 45 | 24 | 43.3 ± 3.3 |
| 300 (X6) | 0 | 36th | 63rd | 36 | 27 | 71.1 ± 5.1 |
| 500 (X7) | 0 | 36th | 66th | 36 | 30 | 63.3 ± 3.3 |
| 700 (X8) | 0 | 42nd | 66th | 42 | 24 | 53.3 ± 3.3 |
| GGR concentration (mg·L-1) | 100 (X9) | 0 | 48th | 72nd | 48 | 24 | 47.8 ± 3.8 |
| 300 (X10) | 0 | 33rd | 63rd | 33 | 30 | 73.3 ± 3.3 |
| 500 (X11) | 0 | 39th | 69th | 39 | 30 | 57.8 ± 3.8 |
| 700 (X12) | 0 | 45th | 69th | 45 | 24 | 50.0 ± 0.0 |
| Dispersion = |  |  |  | 11.6 | 3.2 |  |