**S2 Table. Summary of p-values resulting from t-test to determine if growth effects in treated (tryptophan or IAA) St. John’s wort roots is significantly different from control (MSO),** n=5, α = 0.05. Significant results are in bold.

|  |  |  |  |
| --- | --- | --- | --- |
|  | WT | 4 | 112 |
| *Mean number of shoots/explant* |  |  |  |
| Tryptophan | Constant | **0.048** | **0.040** | **0.004** |
| 24h | 0.854 | **0.010** | 0.123 |
| 48h | 0.106 | 0.061 | 0.432 |
| 72h | 0.569 | 0.217 | 0.438 |
| IAA | Constant | **0.024** | **0.037** | **0.019** |
| 24h | 0.370 | **0.006** | 0.268 |
| 48h | 0.446 | **0.027** | **0.048** |
| 72h | 0.361 | 0.277 | **0.016** |
| *Mean percent of explants with microshoots* |  |  |
| Tryptophan | Constant | 0.294 | 0.100 | **0.016** |
| 24h | **0.016** | **0.018** | 0.128 |
| 48h | **0.008** | 0.198 | 0.067 |
| 72h | 0.406 | 0.099 | 0.366 |
| IAA | Constant | **0.005** | **0.002** | **0.005** |
| 24h | 0.229 | 0.052 | **0.044** |
| 48h | 0.500 | 0.077 | **0.033** |
| 72h | 0.105 | 0.221 | **0.036** |
| *Mean number of roots/explant* |  |  |  |
| Tryptophan | Constant | 0.476 | **0.043** | 0.476 |
| 24h | 0.143 | 0.260 | 0.112 |
| 48h | 0.226 | 0.465 | 0.383 |
| 72h | 0.314 | 0.500 | 0.392 |
| IAA | Constant | **0.013** | **0.025** | 0.065 |
| 24h | **0.011** | **0.200** | **0.002** |
| 48h | **0.004** | **0.034** | **0.002** |
| 72h | **0.001** | **0.005** | **0.0005** |
| *Mean number of roots/explant* |  |  |  |
| Tryptophan | Constant | 0.595 | **0.013** | 0.460 |
| 24h | 0.053 | 0.586 | 0.223 |
| 48h | 0.206 | 0.707 | 0.120 |
| 72h | 0.103 | 0.985 | 0.500 |
| IAA | Constant | **0.008** | **0.004** | **0.004** |
| 24h | **0.008** | **0.004** | **0.001** |
| 48h | **0.001** | **0.0006** | **0.0002** |
| 72h | **<0.0001** | **0.0005** | **<0.0001** |
| *Mean fresh weight* | WT | 4 | 112 |
| Tryptophan | 24 h | 0.389 | **0.00040** | 0.746 |
| 48 h | 0.298 | 0.231 | 0.853 |
| 72 h | 0.719 | 0.244 | 0.746 |
| IAA | 24 h | 0.232 | 0.416 | **0.040** |
| 48 h | 0.232 | 0.232 | **0.040** |
| 72 h | **0.0011** | **0.0043** | **0.0000052** |