Supplementary Material

Effect of Thermal Stress on Tissue Ultrastructure and Metabolite Profiles During Initiation of Radiata Pine Somatic Embryogenesis

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# Supplementary Tables

Table 1 Analysis of variance for the number of somatic embryos per gram of embryonal mass according to temperature (T).

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| --- | --- |
| *Experiment 1*  | *Experiment 2* |
| *Source* | *df* | *F value* | *p value*  | *Source* | *df* | *F value* | *p value*  |
| Temperature (T) | 2 | 3.1399 | 0.2081 | Temperature (T) | 3 | 0.30725 | 0.8198 |

Table 2 Analysis of variance for the amount of each metabolite according to temperature (T).

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| --- |
| Source: Temperature (T) |
| *Variable* | *df* | *F value* | *p value* |
| Starch  | 3 | 0.2664 | 0.8479 |
| Glucose | 3 | 0.4731 | 0.7095 |
| Fructose | 3 | 0.6372 | 0.6119 |
| Sucrose | 3 | 1.7803 | 0.1707 |
| Total protein | 3 | 0.0856 | 0.9660 |
| Alanine | 3 | 0.1068 | 0.9538 |
| Arginine | 3 | 1.0016 | 0.4405 |
| Asparagine | 3 | 0.5551 | 0.6591 |
| Aspartate | 3 | 1.3577 | 0.3232 |
| Ethanolamine | 3 | 1.0437 | 0.4243 |
| Phenylalanine | 3 | 1.0696 | 0.3758 |
| GABA | 3 | 1.1567 | 0.3415 |
| Glycine | 3 | 0.3786 | 0.7690 |
| Glutamate | 3 | 0.7953 | 0.5301 |
| Glutamine | 3 | 0.3765 | 0.7726 |
| Isoleucine | 3 | 5.8760 | 0.0026 |
| Histidine | 3 | 3.4462 | 0.0281 |
| Leucine | 3 | 1.0562 | 0.0001 |
| Lysine | 3 | 1.6620 | 0.1948 |
| Methionine | 3 | 0.6562 | 0.5850 |
| Ornithine | 3 | 0.0342 | 0.9914 |
| Proline | 3 | 1.0770 | 0.4120 |
| Serine | 3 | 0.3494 | 0.7909 |
| Tyrosine | 3 | 9.4533 | 0.0001 |
| Threonine | 3 | 0.7276 | 0.5637 |
| Tryptophane | 3 | 1.0492 | 0.3843 |
| Valine | 3 | 2.7466 | 0.1126 |

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