|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Gene | Sample sizes | Contrast | | Estimate | df | t-ratio | p-value |
| Treatment 1 | Treatment 2 |
| *Cactus* | n*Castanea+*sucrose =5 n*Castanea+*virus =0  n*Cistus+*sucrose =5 n*Cistus+*virus =9 | *Castanea* + sucrose | *Castanea* + virus | -- | -- | -- | -- |
| ***Castanea* + sucrose** | ***Cistus* + virus** | -2.40 | 13.3 | -4.10 | 0.**003** |
| *Castanea* + sucrose | *Cistus* + sucrose | 0.48 | 13.3 | 0.74 | 0.5 |
| *Castanea* + virus | *Cistus* + virus | -- | -- | -- | -- |
| *Castanea* + virus | *Cistus* + sucrose | -- | -- | -- | -- |
| ***Cistus* + virus** | ***Cistus* + sucrose** | 2.88 | 13.1 | 5.43 | **0.0003** |
| *Dicer* | n*Castanea+*sucrose =7 n*Castanea+*virus =8  n*Cistus+*sucrose =7 n*Cistus+*virus =9 | *Castanea* + sucrose | *Castanea* + virus | 0.21 | 24.7 | 0.11 | 0.99 |
| ***Castanea* + sucrose** | ***Cistus* + virus** | -8.17 | 25.9 | -4.13 | **0.002** |
| *Castanea* + sucrose | *Cistus* + sucrose | -2.86 | 25.6 | -1.30 | 0.57 |
| ***Castanea* + virus** | ***Cistus* + virus** | -8.92 | 24.5 | -4.73 | **0.0004** |
| *Castanea* + virus | *Cistus* + sucrose | -3.08 | 24.4 | -1.54 | 0.43 |
| ***Cistus* + virus** | ***Cistus* + sucrose** | 5.84 | 24.1 | 3.04 | **0.03** |
| *Hopscotch* | n*Castanea+*sucrose =7 n*Castanea+*virus =8  n*Cistus+*sucrose =7 n*Cistus+*virus =9 | *Castanea* + sucrose | *Castanea* + virus | -0.88 | 22.69 | -1.14 | 0.67 |
| *Castanea* + sucrose | *Cistus* + virus | -1.13 | 2.71 | -0.78 | 0.86 |
| *Castanea* + sucrose | *Cistus* + sucrose | -1.01 | 2.91 | -0.68 | 0.90 |
| *Castanea* + virus | *Cistus* + virus | -0.26 | 2.45 | -0.18 | 0.99 |
| *Castanea* + virus | *Cistus* + sucrose | -0.13 | 2.65 | -0.09 | 0.99 |
| *Cistus* + virus | *Cistus* + sucrose | 0.13 | 22.91 | 0.16 | 0.99 |
| *Hymenoptaecin* | n*Castanea+*sucrose =7 n*Castanea+*virus =8  n*Cistus+*sucrose =7 n*Cistus+*virus =8 | *Castanea* + sucrose | *Castanea* + virus | 2.94 | 24 | 0.34 | 0.99 |
| *Castanea* + sucrose | *Cistus* + virus | -7.04 | 25 | -0.77 | 0.87 |
| *Castanea* + sucrose | *Cistus* + sucrose | 1.88 | 25.1 | 0.20 | 0.99 |
| *Castanea* + virus | *Cistus* + virus | -9.99 | 23.4 | -1.20 | 0.63 |
| *Castanea* + virus | *Cistus* + sucrose | -1.07 | 23.5 | -0.12 | 0.99 |
| *Cistus* + virus | *Cistus* + sucrose | 8.92 | 23.1 | 1.05 | 0.72 |
| *Vitellogenin* | n*Castanea+*sucrose =6 n*Castanea+*virus =8  n*Cistus+*sucrose =7 n*Cistus+*virus =9 | *Castanea* + sucrose | *Castanea* + virus | 0.07 | 25.8 | 0.05 | 0.99 |
| *Castanea* + sucrose | *Cistus* + virus | 2.12 | 24 | 1.26 | 0.59 |
| *Castanea* + sucrose | *Cistus* + sucrose | 1.9 | 24.9 | 1.07 | 0.71 |
| *Castanea* + virus | *Cistus* + virus | 2.05 | 24.8 | 1.46 | 0.48 |
| *Castanea* + virus | *Cistus* + sucrose | 1.79 | 24.5 | 1.21 | 0.63 |
| *Cistus* + virus | *Cistus* + sucrose | -0.25 | 23.5 | -0.18 | 0.99 |

*Supplemental Table 2*. Post-hoc comparisons of gene expression of immunity genes from pollen quality limitation experiment. Significant contrasts are in bold. P-values adjusted using the Tukey method. Degrees-of-freedom obtained with the Kenward-Roger method.