

Supplementary table 1

Summary of the homogeneity of variance and statistical information in two-way, one repeated measured ANOVA

| fig. | | 2a | 2b | 2c | 4a | 4b | 4c | 5a | 5b | 5c | Supple. Fig. 2a | Supple. Fig. 2b |
|-------------------------------------|----------------|-----------------------|-----------------------|---------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|------------------------|--------------------------------|
| <i>Mauchly's test of sphericity</i> | <i>P value</i> | 0.812 | 0.357 | <0.001* | 0.002* | <0.001* | <0.001* | <0.001* | <0.001* | <0.001* | 0.064 | <0.001* |
| <i>Greenhouse-Geiser</i> | <i>epsilon</i> | - | - | 0.49 | 0.673 | 0.553 | 0.335 | 0.697 | 0.693 | 0.513 | - | 0.324 |
| <i>Interaction</i> | <i>F</i> | $F_{6,69}$ = 0.745 | $F_{8,92}$ = 1.103 | $F_{8,827,101.516}$ = 3.623 | $F_{4,041,46.471}$ = 1.124 | $F_{4,428,50.917}$ = 1.477 | $F_{6,039,69.448}$ = 0.787 | $F_{4,184,48.111}$ = 0.42 | $F_{5,546,63.781}$ = 2.289 | $F_{9,227,106.110}$ = 0.756 | $F_{8,92}$ = 1.126 | $F_{3,837,67.121}$ = 4.975 |
| | <i>P value</i> | 0.6154 | 0.3686 | <0.001 | 0.357 | 0.219 | 0.584 | 0.801 | 0.0502 | 0.66 | 0.3532 | <0.001 |
| <i>Sessions</i> | <i>F</i> | $F_{3,69}$ = 6.439 | $F_{4,92}$ = 2.328 | $F_{4,414,101.516}$ = 70.436 | $F_{2,02,46.471}$ = 13.411 | $F_{2,214,50.917}$ = 1.63 | $F_{3,019,69.448}$ = 14.782 | $F_{2,092,48.111}$ = 1.401 | $F_{2,773,63.781}$ = 4.084 | $F_{4,613,106.110}$ = 1.744 | $F_{4,92}$ = 0.5445 | $F_{2,918,67.121}$ = 82.382 |
| | <i>P value</i> | 0.0007 | 0.062 | <0.001 | <0.001 | 0.204 | <0.001 | 0.256 | 0.012 | 0.136 | 0.7034 | <0.001 |
| <i>Genotypes</i> | <i>F</i> | $F_{2,23}$ = 1.599 | $F_{2,23}$ = 7.05 | $F_{2,23}$ = 13.288 | $F_{2,23}$ = 0.895 | $F_{2,23}$ = 2.625 | $F_{2,23}$ = 3.027 | $F_{2,23}$ = 2.928 | $F_{2,23}$ = 3.755 | $F_{2,23}$ = 2.728 | $F_{2,23}$ = 6.473 | $F_{2,23}$ = 2.834 |
| | <i>P value</i> | 0.2237 | 0.0041 | <0.001 | 0.422 | 0.094 | 0.068 | 0.074 | 0.039 | 0.087 | 0.0059 | 0.079 |

*, significant difference in Mauchly's test of sphericity