| | Group A | Group B | Group C | Group D |
|---|---|---|---|---|
| | wt | gcn5[C13Y/C13Y] | gcn5[E333st/E333st] | gcn5[E333st/C13Y] |
| | | | | |
| 1 | 51 | 54 | 24 | 29 |
| 2 | 38 | 55 | 28 | 23 |
| 3 | 68 | 41 | 36 | 42 |
| 4 | 36 | 30 | 34 | 46 |
| 5 | 39 | 40 | 32 | 23 |
| 6 | 25 | 42 | 28 | 24 |
| 7 | 57 | 44 | 34 | 32 |
| 8 | 30 | 46 | 23 | 48 |
| 9 | 52 | 38 | 25 | 38 |
| 10 | 44 | 40 | 30 | 49 |
| 11 | 41 | 38 | 24 | 27 |
| 12 | 53 | 42 | 20 | 23 |
| 13 | 32 | 48 | 18 | 30 |
| 14 | 35 | 40 | 26 | 18 |
| 15 | 32 | 42 | 22 | 23 |
| 16 | 50 | 36 | 21 | 21 |
| 17 | 30 | 30 | 26 | 28 |
| 18 | 48 | 41 | 18 | 25 |
| 19 | 34 | 55 | 16 | 32 |
| 20 | 55 | 32 | 20 | 28 |
| 21 | 30 | 36 | 20 | |
| 22 | 61 | 38 | 13 | |
| 23 | 65 | 56 | 26 | |
| 24 | 49 | 55 | 24 | |
| 25 | | 56 | 32 | |
| 26 | | 42 | 11 | |
| 27 | | 53 | 11 | |
| 28 | | 43 | 24 | |
| 29 | | 46 | 10 | |
| 30 | | 58 | | |
| 31 | | 54 | | |
| 32 | | 46 | | |
| 33 | | 43 | | |
| 34 | | 36 | | |
| 35 | | 38 | | |
| 36 | | 34 | | |
| 37 | | 32 | | |

| | Group A | Group B | Group C | Group D |
|---|---|---|---|---|
| | wt | n5[C13Y/C13 | 5[E333st/E33 | n5[E333st/C13 |
| | | | | |
| 1 | 12.35802166 | 68.65428116 | 75.383710 | 20.51487164 |
| 2 | 2.464580071 | 57.08131086 | 28.761630 | 8.912592045 |
| 3 | 16.93398254 | 23.93174678 | 49.348360 | 7.454222479 |
| 4 | 1.448221294 | 32.80681580 | 25.110990 | 9.162901228 |
| 5 | 1.466674932 | 7.474285261 | 30.614710 | 32.70708491 |
| 6 | 32.57288789 | 6.280852053 | 61.807570 | 26.00195784 |
| 7 | 11.24095118 | 44.36173793 | 41.895020 | 3.131228013 |
| 8 | 1.626116652 | 24.64242416 | 72.223440 | 2.726538221 |
| 9 | 29.61716611 | 92.74430147 | 48.461640 | 59.44958021 |
| 10 | 20.71288001 | 45.58719218 | 38.351470 | 63.87256870 |
| 11 | 9.706926208 | 13.34909206 | 47.220070 | 13.48797783 |
| 12 | 24.20613379 | 26.19090185 | 58.833890 | 15.71309546 |
| 13 | 8.802275381 | 5.865431259 | 30.180870 | 9.128949921 |
| 14 | 5.697162415 | 2.913712413 | 26.549320 | 10.74166161 |
| 15 | 18.11785489 | 19.91006814 | 66.402300 | 14.10729525 |
| 16 | 28.65017654 | 13.75971190 | 36.287070 | 8.641266453 |
| 17 | 14.32527190 | 24.28609427 | 47.131100 | 9.483615161 |
| 18 | 12.40489651 | 5.386811492 | 26.410000 | 15.43262415 |
| 19 | 13.71979876 | 78.41490990 | 16.534340 | 25.98369964 |
| 20 | 11.27008818 | 37.69516407 | 79.653310 | 3.270697387 |
| 21 | | 29.66379193 | 39.676700 | 15.13933124 |
| 22 | | 36.56095116 | 75.564380 | 6.188306437 |
| 23 | | 22.75211164 | 69.805880 | 43.88068656 |
| 24 | | 36.20404530 | 43.649520 | 37.95314460 |
| 25 | | 4.777621224 | 22.660350 | 20.61782912 |
| 26 | | 30.10608769 | 51.135440 | 34.92822865 |
| 27 | | 7.113622593 | 5.512356 | |
| 28 | | 9.971017063 | 5.512356 | |
| 29 | | 7.629637429 | 30.074320 | |
| 30 | | | 16.003740 | |
| 31 | | | 47.366940 | |
| 32 | | | 26.578470 | |
| 33 | | | 29.325190 | |

| | Group A | Group B | Group C | Group D |
|---|---|---|---|---|
| | wt | n5[C13Y/C13 | 5[E333st/E33 | n5[E333st/C13 |
| | | | | |
| 1 | 0.253317130 | 3.996332342 | 4.124764 | 0.593033 |
| 2 | 0.096301000 | 5.167324517 | 4.592098 | 0.386068 |
| 3 | 0.128095000 | 3.776609653 | 3.314834 | 3.880286 |
| 4 | 0.112748000 | 2.554364740 | 3.753568 | 3.297199 |
| 5 | 0.135637000 | 2.538230833 | 4.301479 | 0.178944 |
| 6 | 0.209498000 | 1.129964356 | 1.140503 | 0.107873 |
| 7 | 0.243577000 | 5.495003520 | 1.798566 | 1.433528 |
| 8 | 0.265058000 | 5.693515133 | 1.464397 | 0.513398 |
| 9 | 0.222620000 | 4.124763523 | 0.892766 | 1.739640 |
| 10 | 0.223542000 | 4.592098000 | 6.446387 | 1.559659 |
| 11 | 0.354033000 | 3.314833921 | 7.511334 | 8.480636 |
| 12 | 0.951820000 | 3.753568307 | 3.986100 | 5.042553 |
| 13 | 0.087094000 | 4.301479479 | 1.715340 | 4.367411 |
| 14 | 0.420603000 | 1.140503000 | 4.962090 | 5.617890 |
| 15 | 0.230069000 | 1.798566000 | 6.555532 | 2.814972 |
| 16 | 0.588784000 | 1.464397000 | 1.673109 | 2.438086 |
| 17 | 0.330373000 | 0.892766000 | 0.823333 | 0.432967 |
| 18 | 0.028633913 | 6.446387000 | 0.705075 | 1.745944 |
| 19 | 0.263306000 | 7.511330000 | 0.322282 | 2.333400 |
| 20 | 0.288908000 | 3.986100000 | 1.050898 | 1.770961 |
| 21 | 1.237983000 | 1.715340000 | 2.044626 | 0.145078 |
| 22 | 0.435847000 | 4.962090000 | 0.330373 | 0.380054 |
| 23 | 0.299266000 | 6.555532000 | 0.263201 | 0.763006 |
| 24 | 0.409302000 | 1.673109000 | 0.299266 | 0.385302 |
| 25 | 0.473000000 | 0.823333000 | 0.473000 | 2.633541 |
| 26 | 0.333689000 | 0.705075000 | 1.458471 | 5.696270 |
| 27 | 1.302889000 | 0.322282000 | 0.265095 | 1.213430 |
| 28 | 1.458471000 | 1.050898000 | 0.028634 | 0.149005 |
| 29 | 0.126192000 | 2.044626000 | 0.288908 | |
| 30 | 0.030780000 | | 0.435847 | |
| 31 | 0.785589000 | | 0.409302 | |
| 32 | 0.191091000 | | 0.333689 | |
| 33 | 0.265095000 | | 0.126192 | |
| 34 | 0.579907000 | | 0.191091 | |
| 35 | | | 0.579907 | |
| 36 | | | 1.302889 | |
| 37 | | | 0.030780 | |
| 38 | | | 0.785589 | |

| | Group A | Group B | Group C | Group D |
|---|---|---|---|---|
| | *wt* | *gcn5[C13Y/C13Y]* | *gcn5[E333st/E333st]* | *gcn5[E333st/C13Y]* |
| | | | | |
| 1 | 5 | 3 | 4 | 12 |
| 2 | 0 | 4 | 4 | 9 |
| 3 | 2 | 3 | 11 | 3 |
| 4 | 1 | 2 | 9 | 2 |
| 5 | 3 | 3 | 7 | 7 |
| 6 | 5 | 1 | 8 | 3 |
| 7 | 0 | 1 | 11 | 7 |
| 8 | 1 | 2 | 9 | 2 |
| 9 | 0 | 4 | 2 | 3 |
| 10 | 1 | 10 | 5 | 1 |
| 11 | 0 | 2 | 10 | 0 |
| 12 | 1 | 1 | 11 | 0 |
| 13 | 1 | 2 | 6 | 2 |
| 14 | 2 | 1 | 2 | 3 |
| 15 | 1 | 2 | 6 | 3 |
| 16 | 0 | 1 | 13 | 1 |
| 17 | 0 | 1 | 8 | 6 |
| 18 | 2 | 2 | 1 | 9 |
| 19 | 3 | 8 | 19 | 1 |
| 20 | 1 | 1 | 14 | 2 |
| 21 | 1 | 0 | 8 | 4 |
| 22 | 2 | 2 | 11 | 12 |
| 23 | 1 | 0 | 2 | 4 |
| 24 | 0 | 1 | 1 | 13 |
| 25 | | 1 | 7 | 6 |
| 26 | | 2 | 6 | 5 |
| 27 | | 1 | 4 | 2 |
| 28 | | 1 | 12 | 12 |
| 29 | | 1 | 15 | 2 |
| 30 | | 0 | 11 | 2 |
| 31 | | 1 | 9 | 1 |
| 32 | | 0 | 11 | |
| 33 | | 2 | 3 | |
| 34 | | 1 | 14 | |
| 35 | | 4 | 5 | |
| 36 | | 3 | 1 | |
| 37 | | 4 | 0 | |
| 38 | | 2 | 2 | |
| 39 | | 0 | 0 | |
| 40 | | 2 | 20 | |
| 41 | | 2 | 14 | |
| 42 | | 1 | | |

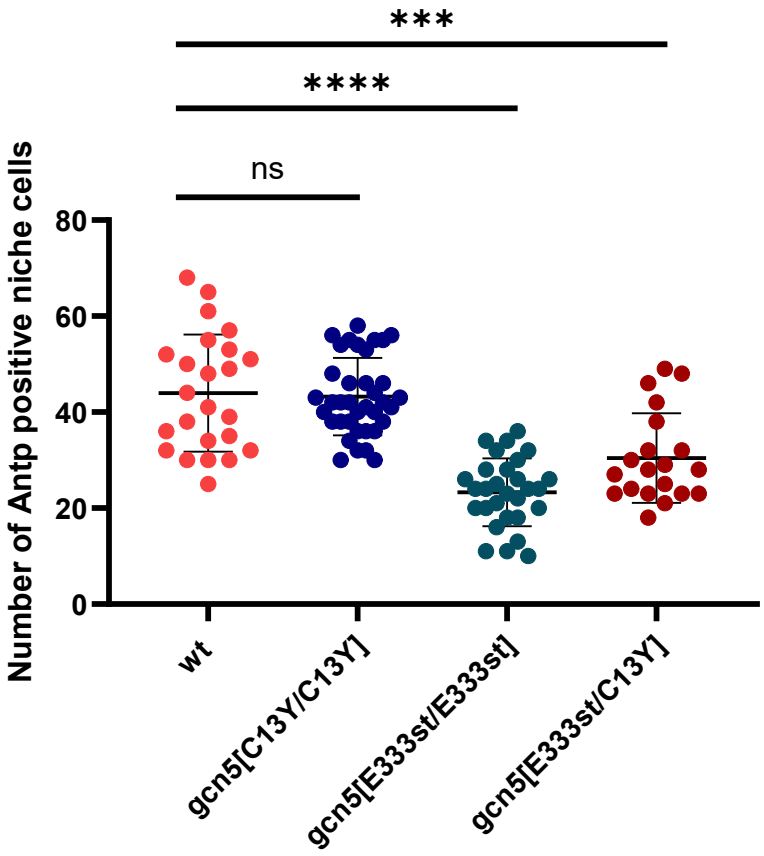
| | Group A | Group B | Group C | Group D |
|---|---|---|---|---|
| | *wt* | *gcn5[C13Y/C13Y]* | *gcn5[E333st/E333st]* | *gcn5[E333st/C13Y]* |
| | | | | |
| 43 | | 0 | | |
| 44 | | 1 | | |
| 45 | | 5 | | |
| 46 | | 8 | | |
| 47 | | 0 | | |
| 48 | | 3 | | |
| 49 | | 3 | | |
| 50 | | 2 | | |
| 51 | | 2 | | |
| 52 | | 3 | | |
| 53 | | 2 | | |
| 54 | | 1 | | |

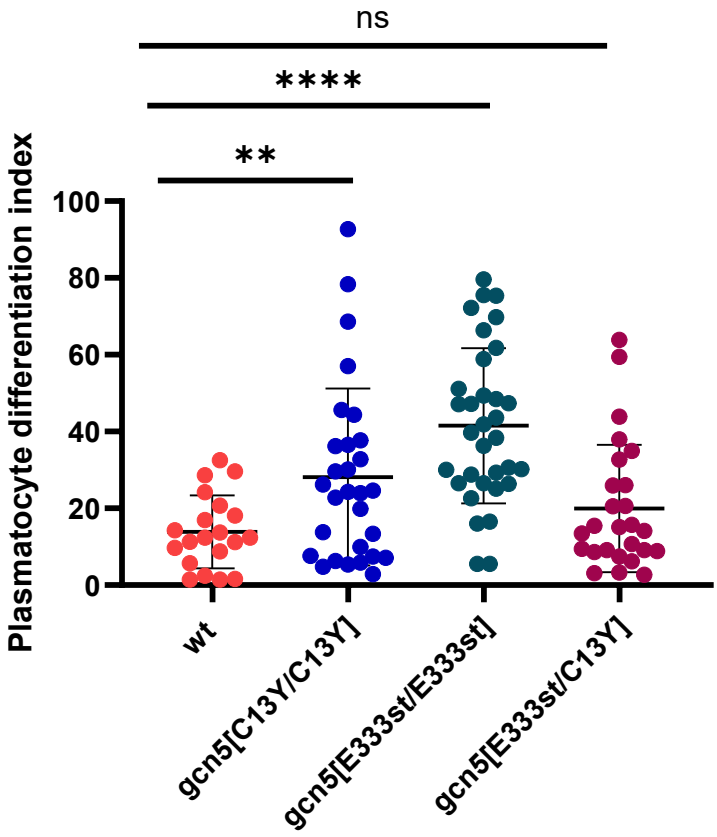
| | Welch's t test<br>Tabular results | |
|---|---|---|
| | | |
| 1 | Table Analyzed | Figure 2E |
| 2 | | |
| 3 | Group C | gcn5[E333st/E333st] |
| 4 | vs. | vs. |
| 5 | Group A | wt |
| 6 | | |
| 7 | **Unpaired t test with Welch's correction** | |
| 8 | P value | <0.0001 |
| 9 | P value summary | **** |
| 10 | Significantly different (P < 0.05)? | Yes |
| 11 | One- or two-tailed P value? | Two-tailed |
| 12 | Welch-corrected t, df | t=7.342, df=35.28 |
| 13 | | |
| 14 | **How large is the effect?** | |
| 15 | Mean of group A | 43.96 |
| 16 | Mean of group C | 23.31 |
| 17 | Difference between means (C - A) ± SEM | -20.65 ± 2.812 |
| 18 | 95% confidence interval | -26.36 to -14.94 |
| 19 | R squared (eta squared) | 0.6045 |
| 20 | | |
| 21 | **F test to compare variances** | |
| 22 | F, DFn, Dfd | 2.990, 23, 28 |
| 23 | P value | 0.0065 |
| 24 | P value summary | ** |
| 25 | Significantly different (P < 0.05)? | Yes |
| 26 | | |
| 27 | **Data analyzed** | |
| 28 | Sample size, group A | 24 |
| 29 | Sample size, group C | 29 |

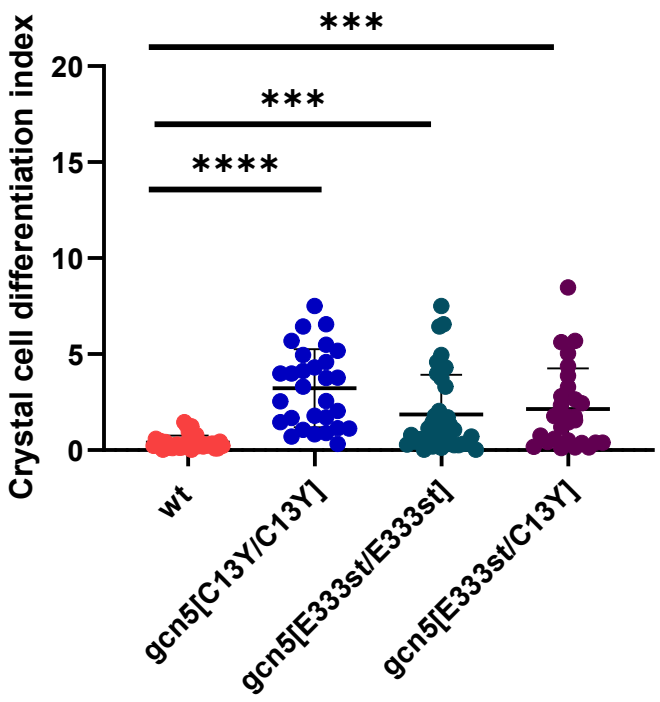
| | **Welch's t test**<br>Tabular results | |
|---|---|---|
| | | |
| 1 | Table Analyzed | *Figure 2J |
| 2 | | |
| 3 | Group C | gcn5[E333st/E333st] |
| 4 | vs. | vs. |
| 5 | Group A | wt |
| 6 | | |
| 7 | **Unpaired t test with Welch's correction** | |
| 8 | P value | <0.0001 |
| 9 | P value summary | **** |
| 10 | Significantly different (P < 0.05)? | Yes |
| 11 | One- or two-tailed P value? | Two-tailed |
| 12 | Welch-corrected t, df | t=6.734, df=48.70 |
| 13 | | |
| 14 | **How large is the effect?** | |
| 15 | Mean of group A | 13.87 |
| 16 | Mean of group C | 41.52 |
| 17 | Difference between means (C - A) ± SEM | 27.65 ± 4.106 |
| 18 | 95% confidence interval | 19.40 to 35.90 |
| 19 | R squared (eta squared) | 0.4822 |
| 20 | | |
| 21 | **F test to compare variances** | |
| 22 | F, DFn, Dfd | 4.518, 32, 19 |
| 23 | P value | 0.0010 |
| 24 | P value summary | ** |
| 25 | Significantly different (P < 0.05)? | Yes |
| 26 | | |
| 27 | **Data analyzed** | |
| 28 | Sample size, group A | 20 |
| 29 | Sample size, group C | 33 |

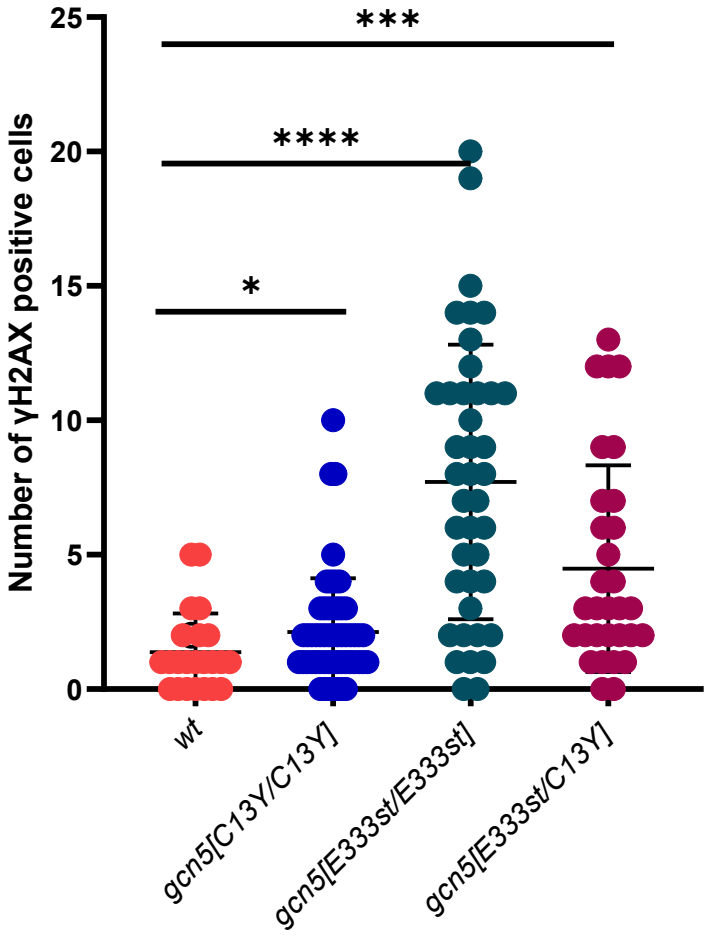
| | **Welch's t test**<br>Tabular results | |
|---|---|---|
| | | |
| 1 | Table Analyzed | *Figure 2O |
| 2 | | |
| 3 | Group C | gcn5[E333st/E333st] |
| 4 | vs. | vs. |
| 5 | Group A | wt |
| 6 | | |
| 7 | **Unpaired t test with Welch's correction** | |
| 8 | P value | 0.0001 |
| 9 | P value summary | *** |
| 10 | Significantly different (P < 0.05)? | Yes |
| 11 | One- or two-tailed P value? | Two-tailed |
| 12 | Welch-corrected t, df | t=4.325, df=39.49 |
| 13 | | |
| 14 | **How large is the effect?** | |
| 15 | Mean of group A | 0.3930 |
| 16 | Mean of group C | 1.863 |
| 17 | Difference between means (C - A) ± SEM | 1.470 ± 0.3398 |
| 18 | 95% confidence interval | 0.7826 to 2.157 |
| 19 | R squared (eta squared) | 0.3214 |
| 20 | | |
| 21 | **F test to compare variances** | |
| 22 | F, DFn, Dfd | 33.06, 37, 33 |
| 23 | P value | <0.0001 |
| 24 | P value summary | **** |
| 25 | Significantly different (P < 0.05)? | Yes |
| 26 | | |
| 27 | **Data analyzed** | |
| 28 | Sample size, group A | 34 |
| 29 | Sample size, group C | 38 |

| | **Welch's t test**<br>Tabular results | |
|---|---|---|
| | | |
| 1 | Table Analyzed | *Figure 2T |
| 2 | | |
| 3 | Group C | *gcn5[E333st/E333st]* |
| 4 | vs. | vs. |
| 5 | Group A | *wt* |
| 6 | | |
| 7 | **Unpaired t test with Welch's correction** | |
| 8 | P value | <0.0001 |
| 9 | P value summary | **** |
| 10 | Significantly different (P < 0.05)? | Yes |
| 11 | One- or two-tailed P value? | Two-tailed |
| 12 | Welch-corrected t, df | t=7.446, df=49.98 |
| 13 | | |
| 14 | **How large is the effect?** | |
| 15 | Mean of group A | 1.375 |
| 16 | Mean of group C | 7.707 |
| 17 | Difference between means (C - A) ± SEM | 6.332 ± 0.8504 |
| 18 | 95% confidence interval | 4.624 to 8.040 |
| 19 | R squared (eta squared) | 0.5260 |
| 20 | | |
| 21 | **F test to compare variances** | |
| 22 | F, DFn, Dfd | 12.61, 40, 23 |
| 23 | P value | <0.0001 |
| 24 | P value summary | **** |
| 25 | Significantly different (P < 0.05)? | Yes |
| 26 | | |
| 27 | **Data analyzed** | |
| 28 | Sample size, group A | 24 |
| 29 | Sample size, group C | 41 |


***
****
ns
Number of Antp positive niche cells
80
60
40
20
0
wt
gcn5[C13Y/C13Y]
gcn5[E333st/E333st]
gcn5[E333st/C13Y]


ns
****
**
Plasmatocyte differentiation index
100
80
60
40
20
0
wt
gcn5[C13Y/C13Y]
gcn5[E333st/E333st]
gcn5[E333st/C13Y]


***
***
****
Crystal cell differentiation index
20
15
10
5
0
wt
gcn5[C13Y/C13Y]
gcn5[E333st/E333st]
gcn5[E333st/C13Y]


Number of γH2AX positive cells
25
20
15
10
5
0
***
****
*
wt
gcn5[C13Y/C13Y]
gcn5[E333st/E333st]
gcn5[E333st/C13Y]

| Constant | Value |
| --- | --- |
| Experiment Date | 4/2022 |
| Experiment ID | |
| Notebook ID | |
| Project | |
| Experimenter | |
| Protocol | |

| Constant | Value |
| --- | --- |
| Experiment Date | 4/2022 |
| Experiment ID | |
| Notebook ID | |
| Project | |
| Experimenter | |
| Protocol | |

| Constant | Value |
| --- | --- |
| Experiment Date | 4/2022 |
| Experiment ID | |
| Notebook ID | |
| Project | |
| Experimenter | |
| Protocol | |

| Constant | Value |
| --- | --- |
| Experiment Date | 4/2022 |
| Experiment ID | |
| Notebook ID | |
| Project | |
| Experimenter | |
| Protocol | |