|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | **Survival (% of pupae formed after injection)** |
|  | **Strain** | **Injected cpd** | **Rep1**  | **Rep2** | **Rep3** | **Average** | **Standard Deviation** |
| CONTROL | *w1118* | 2.5 nmol/g Hv1a | 0 | 0 | 0 | 0 | 0 |
| CONTROL - *Cas9* lines | *THattP40* | 2.5 nmol/g Hv1a | 0 | 0 | 0 | 0 | 0 |
| CONTROL - *Cas9* lines | *THattP2* | 2.5 nmol/g Hv1a | 0 | 0 | 0 | 0 | 0 |
| nAChR CRISPR mutant | *nAChR1* | 2.5 nmol/g Hv1a | 25 | 0 | 0 | 8.33 | 14.43 |
| nAChR CRISPR mutant | *nAChR2* | 2.5 nmol/g Hv1a | 25 | 0 | 0 | 8.33 | 14.43 |
| nAChR CRISPR mutant | *nAChR3* | 2.5 nmol/g Hv1a | 0 | 0 | 0 | 0 | 0 |
| nAChR CRISPR mutant | *nAChR4* | 2.5 nmol/g Hv1a | 25 | 33.33 | 66.67 | 41.67 | 22.05 |
| nAChR CRISPR mutant | *nAChR5* | 2.5 nmol/g Hv1a | 0 | 0 | 0 | 0 | 0 |
| nAChR CRISPR mutant | *nAChR6* | 2.5 nmol/g Hv1a | 0 | 0 | 0 | 0 | 0 |
| nAChR CRISPR mutant | *nAChR7* | 2.5 nmol/g Hv1a | 0 | 0 | 0 | 0 | 0 |
| nAChR CRISPR mutant | *nAChR2* | 2.5 nmol/g Hv1a | 25 | 33.33 | 66.67 | 41.67 | 22.05 |
| nAChR CRISPR mutant | *nAChR3* | 2.5 nmol/g Hv1a | 0 | 33.33 | 0 | 11.11 | 19.25 |
| Injection CONTROL | *w1118* | PBS | 100 | 100 | 100 | 100 | 0 |
|   |  |   |   |   |   |   |   |
| CONTROL | *w1118* | 1.25 nmol/g -Btx | 0 | 0 | 0 | 0 | 0 |
| CONTROL - *Cas9* lines | *THattP40* | 1.25 nmol/g -Btx | 0 | 0 | 0 | 0 | 0 |
| CONTROL - *Cas9* lines | *THattP2* | 1.25 nmol/g -Btx | 0 | 0 | 0 | 0 | 0 |
| nAChR CRISPR mutant | *nAChR1* | 1.25 nmol/g-Btx | 0 | 0 | 33.33 | 11.11 | 19.25 |
| nAChR CRISPR mutant | *nAChR2* | 1.25 nmol/g -Btx | 25 | 0 | 33.33 | 19.44 | 17.35 |
| nAChR CRISPR mutant | *nAChR3* | 1.25 nmol/g -Btx | 0 | 0 | 33.33 | 11.11 | 19.25 |
| nAChR CRISPR mutant | *nAChR4* | 1.25 nmol/g -Btx | 0 | 33.33 | 0 | 11.11 | 19.25 |
| nAChR CRISPR mutant | *nAChR5* | 1.25 nmol/g -Btx | 50 | 66.67 | 66.67 | 61.11 | 9.62 |
| nAChR CRISPR mutant | *nAChR6* | 1.25 nmol/g -Btx | 25 | 66.67 | 66.67 | 52.78 | 24.06 |
| nAChR CRISPR mutant | *nAChR7* | 1.25 nmol/g -Btx | 50 | 100 | 66.67 | 72.22 | 25.46 |
| nAChR CRISPR mutant | *nAChR2* | 1.25 nmol/g -Btx | 0 | 33.33 | 0 | 11.11 | 19.25 |
| nAChR CRISPR mutant | *nAChR3* | 1.25 nmol/g -Btx | 0 | 0 | 0 | 0 | 0 |
| Injection CONTROL | *w1118* | PBS | 100 | 100 | 100 | 100 | 0 |

## Supplementary Figure 3. *Drosophila* larval injection of ω-Hexatoxin-Hv1a & α-Bungarotoxin.