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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **[Figure 5—source data 1](http://elifesciences.org/content/1/e00109v1%22%20%5Cl%20%22SD1-data) Statistics summary****Figure 5A genetic interaction Unc-104**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|   | wt | shot3+/-tau+/- | unc-104+/- | shot3+/-tau+/-unc104+/- | unc104-/- |
| Number of values | 350 | 222 | 201 | 55 | 71 |
|   |  |  |  |  |  |
| Minimum | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25% Percentile | 0.4033 | 0.2510 | 0.04184 | 0.1452 | 0.0 |
| Median | 0.9355 | 0.7181 | 0.8368 | 0.5589 | 0.04749 |
| 75% Percentile | 1.492 | 1.256 | 1.472 | 0.8715 | 0.2713 |
| Maximum | 3.527 | 3.849 | 7.053 | 2.150 | 2.849 |
|   |  |  |  |  |  |
| Mean | 1.003 | 0.8595 | 1.006 | 0.5959 | 0.2532 |
| Std. Deviation | 0.7743 | 0.7749 | 1.080 | 0.5047 | 0.4782 |
| Std. Error | 0.04139 | 0.05201 | 0.07621 | 0.06805 | 0.05675 |

**Figure 5B Unc-104 shot-/-tau-/- rescue**

|  |  |  |
| --- | --- | --- |
|   | wt | shot-/-tau-/-UAS-104 |
| Number of values | 161 | 158 |
|   |  |  |
| Minimum | 0.0 | 0.0 |
| 25% Percentile | 0.05594 | 0.08247 |
| Median | 0.7835 | 0.5889 |
| 75% Percentile | 1.554 | 1.325 |
| Maximum | 5.856 | 5.691 |
|   |  |  |
| Mean | 0.9939 | 0.9162 |
| Std. Deviation | 1.041 | 1.008 |
| Std. Error | 0.08202 | 0.08015 |

**Figure 5D Unc-104 ratio distal axon/soma** |
|  |  |  |
|  | WT | shot-/- tau-/- |
| Number of values | 72 | 45 |
|   |   |   |
| Minimum | 0.3467 | 0.2635 |
| 25% Percentile | 0.5570 | 0.3600 |
| Median | 0.7974 | 0.4436 |
| 75% Percentile | 1.145 | 0.6810 |
| Maximum | 3.932 | 1.419 |
|   |  |  |
| Mean | 0.9999 | 0.5489 |
| Std. Deviation | 0.6560 | 0.2689 |
| Std. Error | 0.07731 | 0.04009 |