**[Figure 3—supplement 4 source data 1](http://elifesciences.org/content/1/e00109v1" \l "SD1-data) Statistics summary**

**Figure 3-S4 axon length**

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| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | control 3days | shot-tau RNAi  3days |  | control 18days | shot-tau RNAi 18days |  | control 26days | shot-tau RNAi 26days | | Number of values | 130 | 116 |  | 99 | 100 |  | 111 | 97 | |  |  |  |  |  |  |  |  |  | | Minimum | 0.2313 | 0.3421 |  | 0.3824 | 0.2350 |  | 0.2940 | 0.3710 | | 25% Percentile | 0.5968 | 0.7175 |  | 0.6783 | 0.6185 |  | 0.7040 | 0.7190 | | Median | 0.9313 | 0.9546 |  | 0.9042 | 0.8307 |  | 0.9230 | 0.9440 | | 75% Percentile | 1.322 | 1.242 |  | 1.222 | 1.066 |  | 1.214 | 1.282 | | Maximum | 2.483 | 3.784 |  | 2.962 | 2.026 |  | 2.827 | 3.221 | |  |  |  |  |  |  |  |  |  | | Mean | 1.007 | 1.075 |  | 1.000 | 0.8853 |  | 1.000 | 1.082 | | Std. Deviation | 0.4949 | 0.5922 |  | 0.4560 | 0.3491 |  | 0.4305 | 0.5340 | | Std. Error | 0.04341 | 0.05499 |  | 0.04583 | 0.03491 |  | 0.04086 | 0.05422 | |  |  |  |  |  |  |  |  |  | | Lower 95% CI of mean | 0.9214 | 0.9658 |  | 0.9093 | 0.8160 |  | 0.9191 | 0.9743 | | Upper 95% CI of mean | 1.093 | 1.184 |  | 1.091 | 0.9546 |  | 1.081 | 1.190 | |  |  |  |  |  |  |  |  |  | | Sum | 130.9 | 124.7 |  | 99.02 | 88.53 |  | 111.0 | 104.9 | |  |  |  |
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| **Figure 3-S4 number branches** |  |  |  |
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| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | control 3days | shot-tau RNAi 3days |  | control 18days | shot-tau RNAi 18days |  | control 26days | shot-tau RNAi 26days | | Number of values | 130 | 115 |  | 99 | 100 |  | 114 | 107 | |  |  |  |  |  |  |  |  |  | | Minimum | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 | | 25% Percentile | 0.4815 | 0.5010 |  | 0.5390 | 0.6470 |  | 0.4068 | 0.5972 | | Median | 0.8770 | 0.8770 |  | 0.8333 | 1.078 |  | 0.8547 | 0.9153 | | 75% Percentile | 1.504 | 1.378 |  | 1.401 | 1.667 |  | 1.344 | 1.424 | | Maximum | 2.882 | 2.821 |  | 3.556 | 4.405 |  | 5.390 | 3.356 | |  |  |  |  |  |  |  |  |  | | Mean | 0.9969 | 0.9700 |  | 1.000 | 1.176 |  | 0.9737 | 1.117 | | Std. Deviation | 0.6226 | 0.6470 |  | 0.6248 | 0.7371 |  | 0.8254 | 0.7658 | | Std. Error | 0.05460 | 0.06034 |  | 0.06280 | 0.07371 |  | 0.07731 | 0.07403 | |  |  |  |  |  |  |  |  |  | | Lower 95% CI of mean | 0.8888 | 0.8504 |  | 0.8755 | 1.030 |  | 0.8206 | 0.9705 | | Upper 95% CI of mean | 1.105 | 1.089 |  | 1.125 | 1.323 |  | 1.127 | 1.264 | |  |  |  |  |  |  |  |  |  | | Sum | 129.6 | 111.5 |  | 99.01 | 117.6 |  | 111.0 | 119.5 | |  |  |  |