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| --- | --- | --- | --- | --- |
| **Figure**  | **Data** | **Population size** | **Distribution normality***(Shapiro-Wilk test)**p<0.05 normal distribution not met. If p>0.05, then check for homogeneity of variance (Bartlett's test)**p<0.05 homogeneity not met* | **Comparison test** |
| **Fig. 6d** | β-tubulin fluorescence intensities (normalized) | Control groupn = 62TPEN groupn = 62TPEN + Zn groupn = 68  | Shapiro-Wilk test:Control groupp = 4.3e-3TPEN group p = 4.035e-07 TPEN + Zn groupp = 1.514e-06 | Kruskal-Wallis:p-value = 3.1e-07Dunn’s test, p-values adjusted with the Holm methodCtrl vs TPENp.adj = 1.1e-4Ctrl vs TPEN+Znp.adj = 2.8e-1TPEN vs TPEN+Znp.adj = 4.8e-7 |
| **Fig. 6e** | F-actin fluorescence intensities (normalized) | Control groupn = 64TPEN groupn = 59TPEN + Zn group n = 67 | Shapiro-Wilk test:Control groupp = 5.9e-3TPEN groupp = 2.7e-10TPEN + Zn groupp = 5.0e-4 | Kruskal-Wallis:p-value < 2.2e-16Dunn’s test, p-values adjusted with the Holm methodCtrl vs TPENp.adj = 1.1e-14Ctrl vs TPEN+Znp.adj = 3.9e-2TPEN vs TPEN+Znp.adj = 9.4e-23 |
| **Fig. 6 figure supplement 1A** | β-tubulin fluorescence intensities (normalized) | Control groupn = 34TPEN groupn = 35 | Shapiro-Wilk test:Control groupp = 1.6e-3TPEN groupp = 1.3e-1 | Mann-Whitney test:Ctrl vs TPENp = 1.2e-3 |
| **Figure 6-figure supplement 1B** | β-tubulin fluorescence intensities (normalized) | Control groupn = 41TPEN groupn = 45TPEN + Zn groupn = 42 | Shapiro-Wilk test:Control groupp = 6.1e-1TPEN groupp = 3.6e-1TPEN + Zn groupp = 1.4e-1Bartlett's test:p-value = 7.5e-2 | ANOVA:p=7.5e-8Tukey post-hoc test:Ctrl vs TPENp.adj = 4.6e-8Ctrl vs TPEN+Znp.adj = 5.7e-2TPEN vs TPEN+Znp.adj = 8.8e-4 |
| **Figure 6-figure supplement 1C** | β-tubulin fluorescence intensities (normalized) | Control groupn = 135TPEN groupn = 116TPEN + Zn groupn = 120 | Shapiro-Wilk test:Control groupp = 4.7e-7TPEN groupp = 7.6e-8TPEN + Zn groupp = 2.5e-8 | Kruskal-Wallis:p-value = 6.5e-12Dunn’s test, p-values adjusted with the Holm methodCtrl vs TPENp.adj = 3.0e-12Ctrl vs TPEN+Znp.adj = 1.2e-4TPEN vs TPEN+Znp.adj = 2.3e-3 |
| **Figure 6-figure supplement 1D** | F-actin fluorescence intensities (normalized) | Control groupn = 34TPEN groupn = 35 | Shapiro-Wilk test:Control groupp = 1.7e-7TPEN groupp = 1.4e-2 | Mann-Whitney test:Ctrl vs TPENp = 2.7e-2 |
| **Figure 6-figure supplement 1E** | F-actin fluorescence intensities (normalized) | Control groupn = 41TPEN groupn = 44TPEN + Zn groupn = 42 | Shapiro-Wilk test:Control groupp = 4.2e-1TPEN groupp = 8.6e-4TPEN + Zn groupp = 2.0e-1 | Kruskal-Wallis:p-value = 2.1e-11Dunn’s test, p-values adjusted with the Holm methodCtrl vs TPENp.adj = 2.5e-12Ctrl vs TPEN+Znp.adj = 1.1e-3TPEN vs TPEN+Znp.adj = 2.0e-4 |