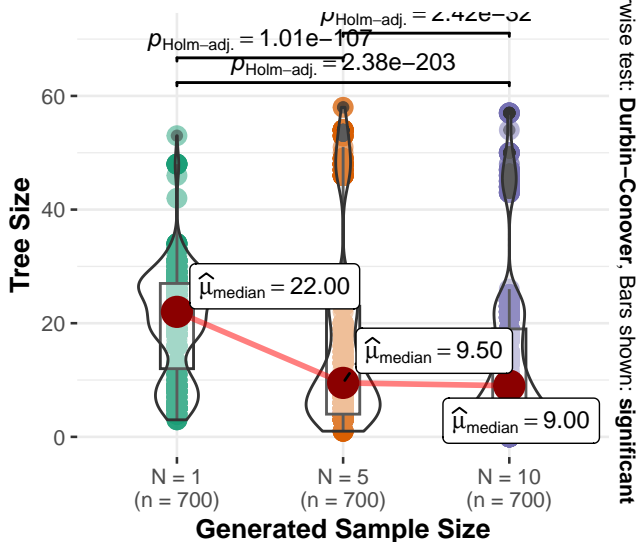


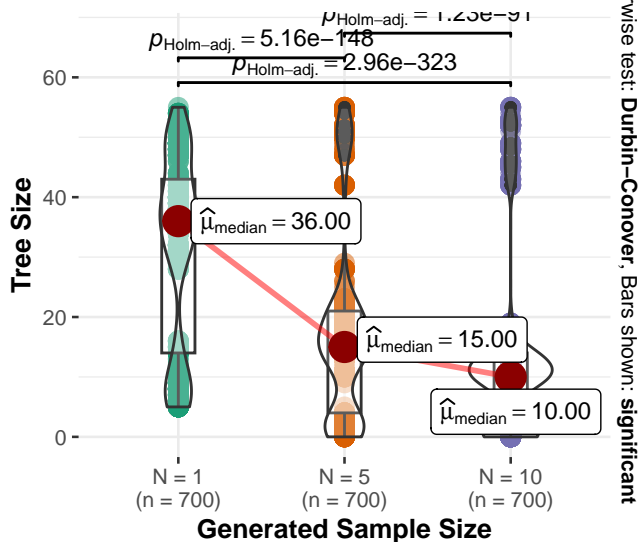
## PPD sampling

$$\chi^2_{\text{Friedman}}(2) = 691.87, p = 5.79\text{e-}151, \widehat{W}_{\text{Kendall}} = 0.4$$



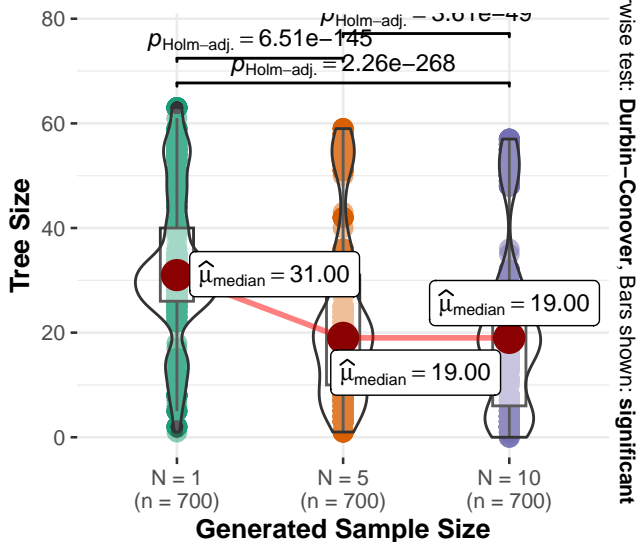
## Smearing: palt = 0

$$\chi^2_{\text{Friedman}}(2) = 916.54, p = 9.46\text{e-}200, \widehat{W}_{\text{Kendall}} = 0.63$$



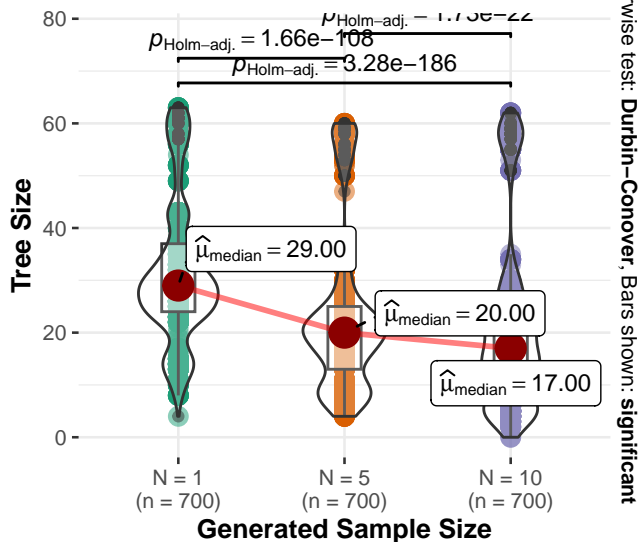
## Smearing: palt = .25

$$\chi^2_{\text{Friedman}}(2) = 828.78, p = 1.08\text{e-}180, \widehat{W}_{\text{Kendall}} = 0.4$$

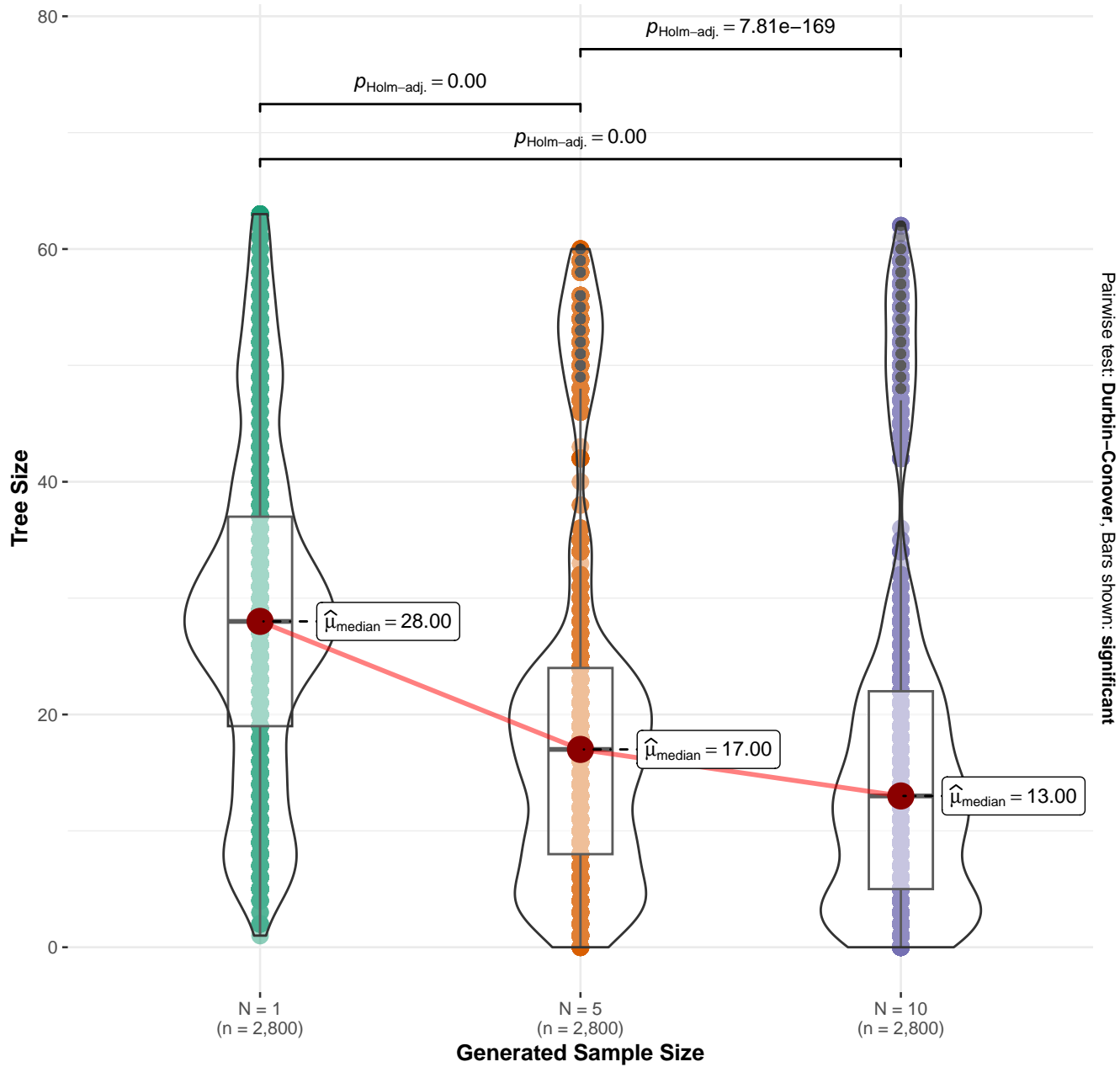


## Smearing: palt = .50

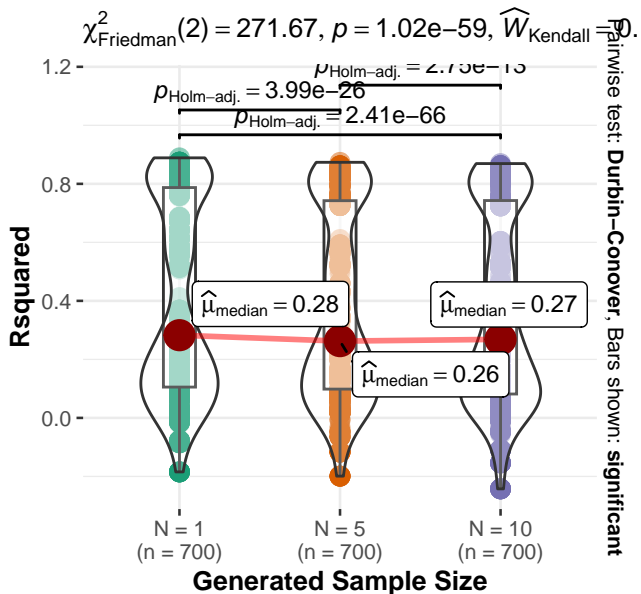
$$\chi^2_{\text{Friedman}}(2) = 657.33, p = 1.83\text{e-}143, \widehat{W}_{\text{Kendall}} = 0.47$$



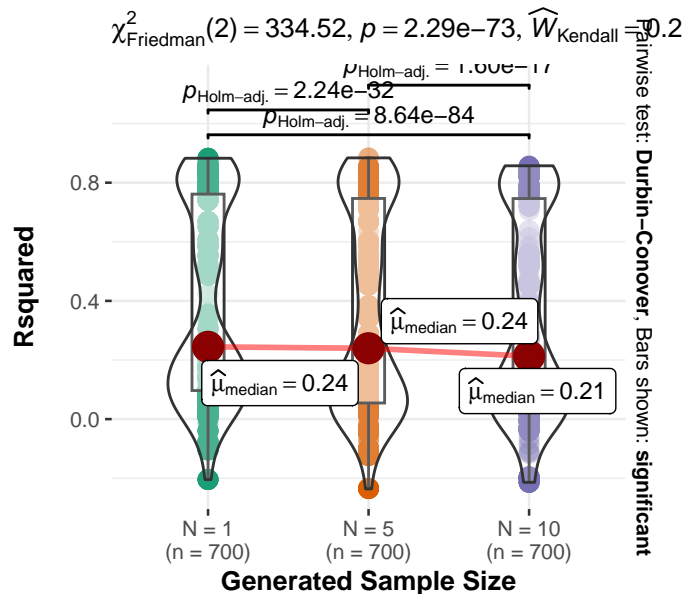
$\chi^2_{\text{Friedman}}(2) = 3070.53$ ,  $p = 0.00$ ,  $\widehat{W}_{\text{Kendall}} = 0.55$ ,  $\text{CI}_{95\%} [0.53, 1.00]$ ,  $n_{\text{pairs}} = 2,800$



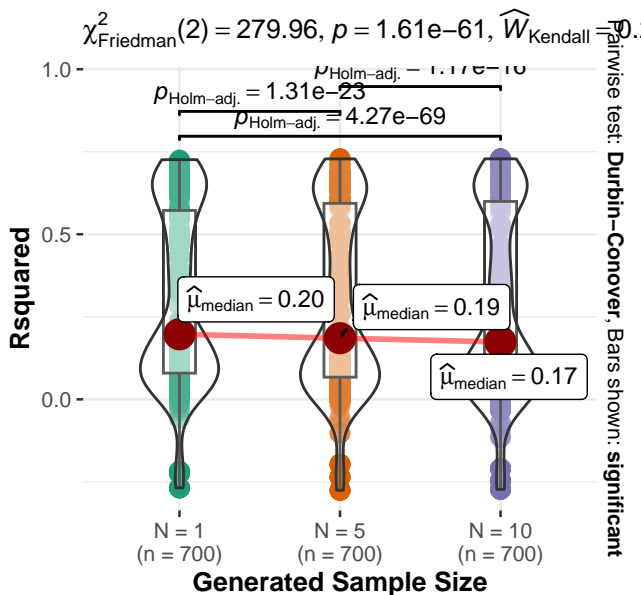
## PPD sampling



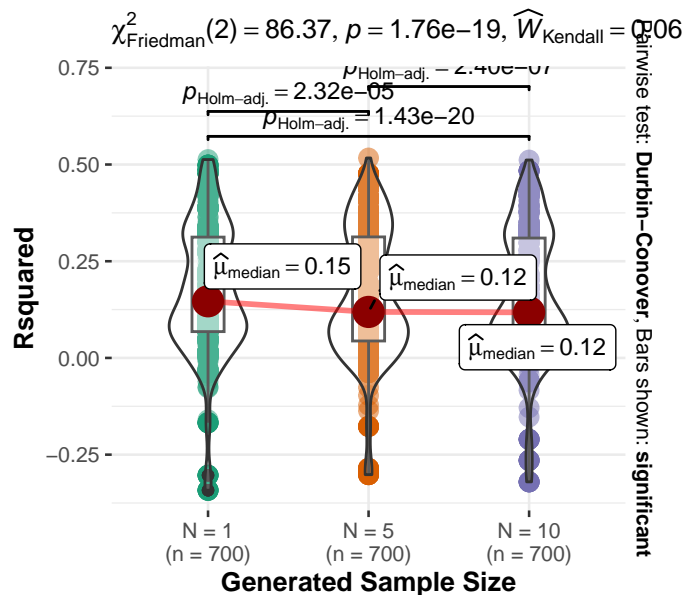
## Smearing: palt = 0



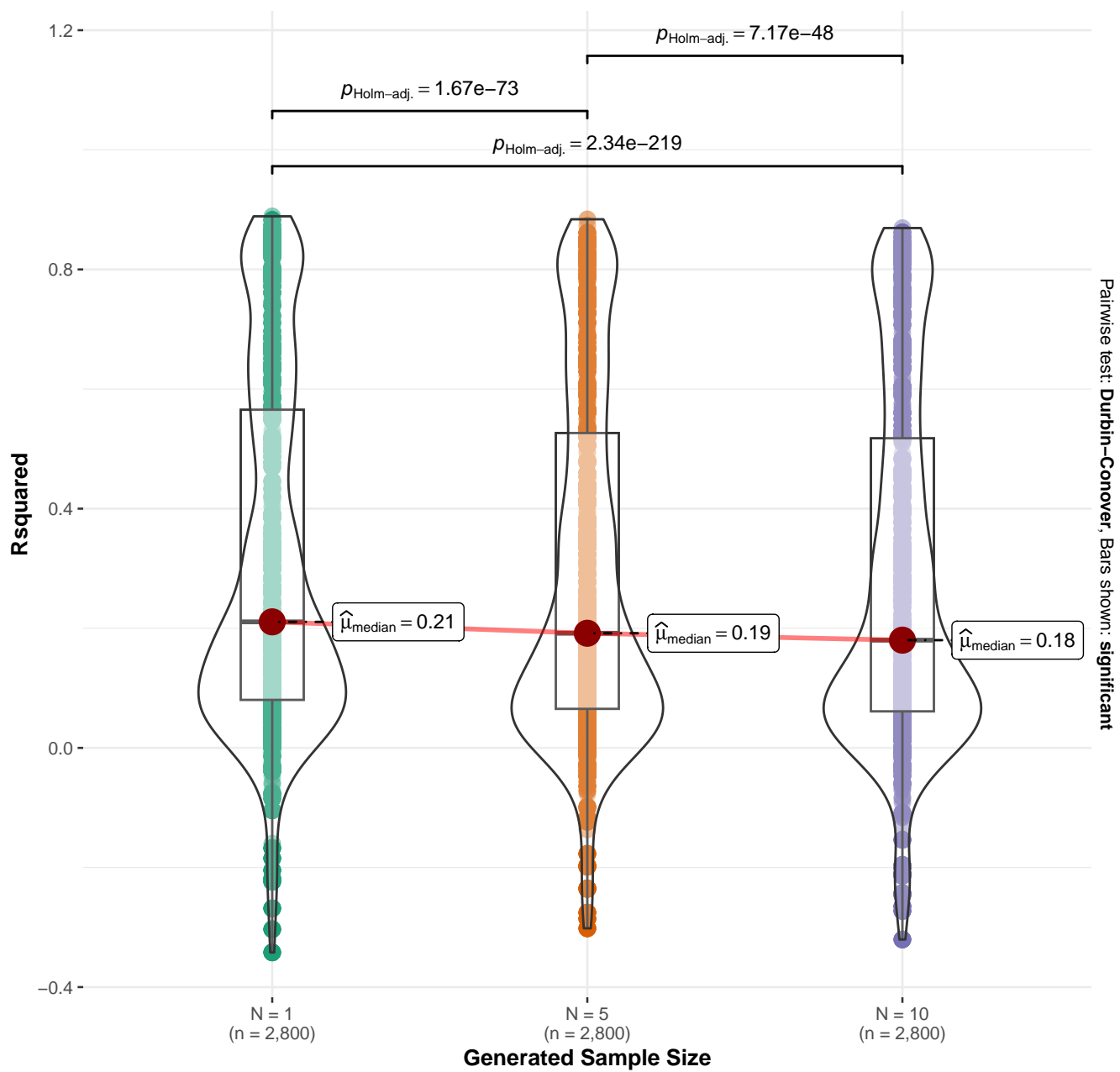
## Smearing: palt = .25



## Smearing: palt = .50

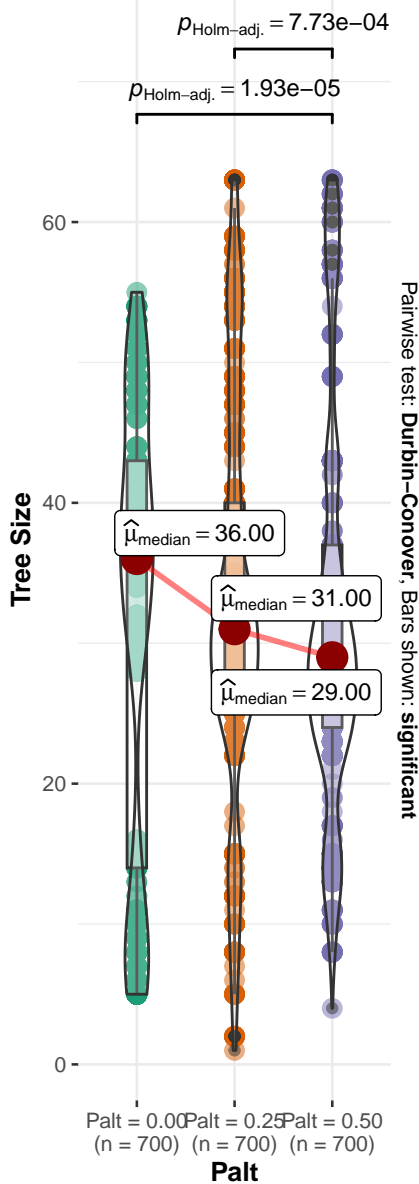


$\chi^2_{\text{Friedman}}(2) = 920.88$ ,  $p = 1.08\text{e-}200$ ,  $\widehat{W}_{\text{Kendall}} = 0.16$ ,  $\text{CI}_{95\%} [0.15, 1.00]$ ,  $n_{\text{pairs}} = 2,800$



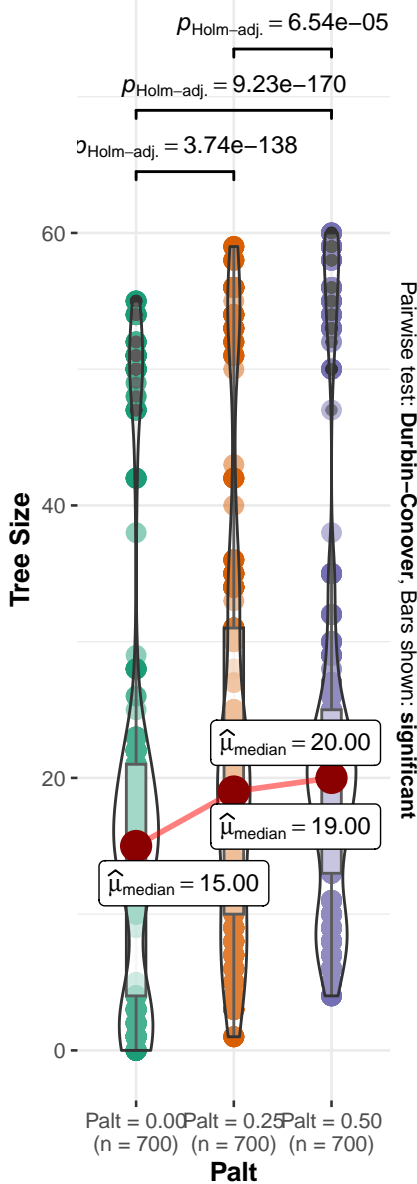
## Smearing: N = 1

$$\chi^2_{\text{Friedman}}(2) = 22.41, p = 1.36\text{e-}$$



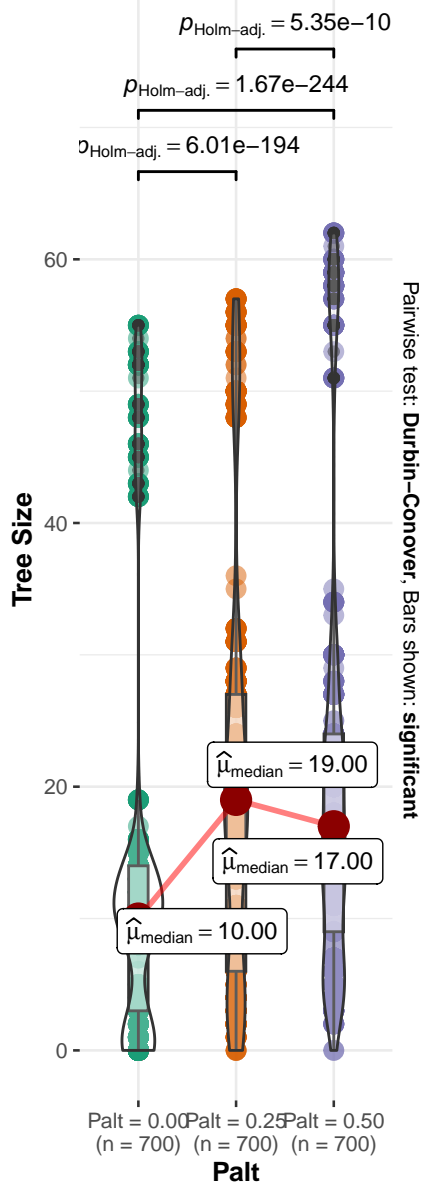
## Smearing: N = 5

$$\chi^2_{\text{Friedman}}(2) = 654.63, p = 7.05\text{e-}$$

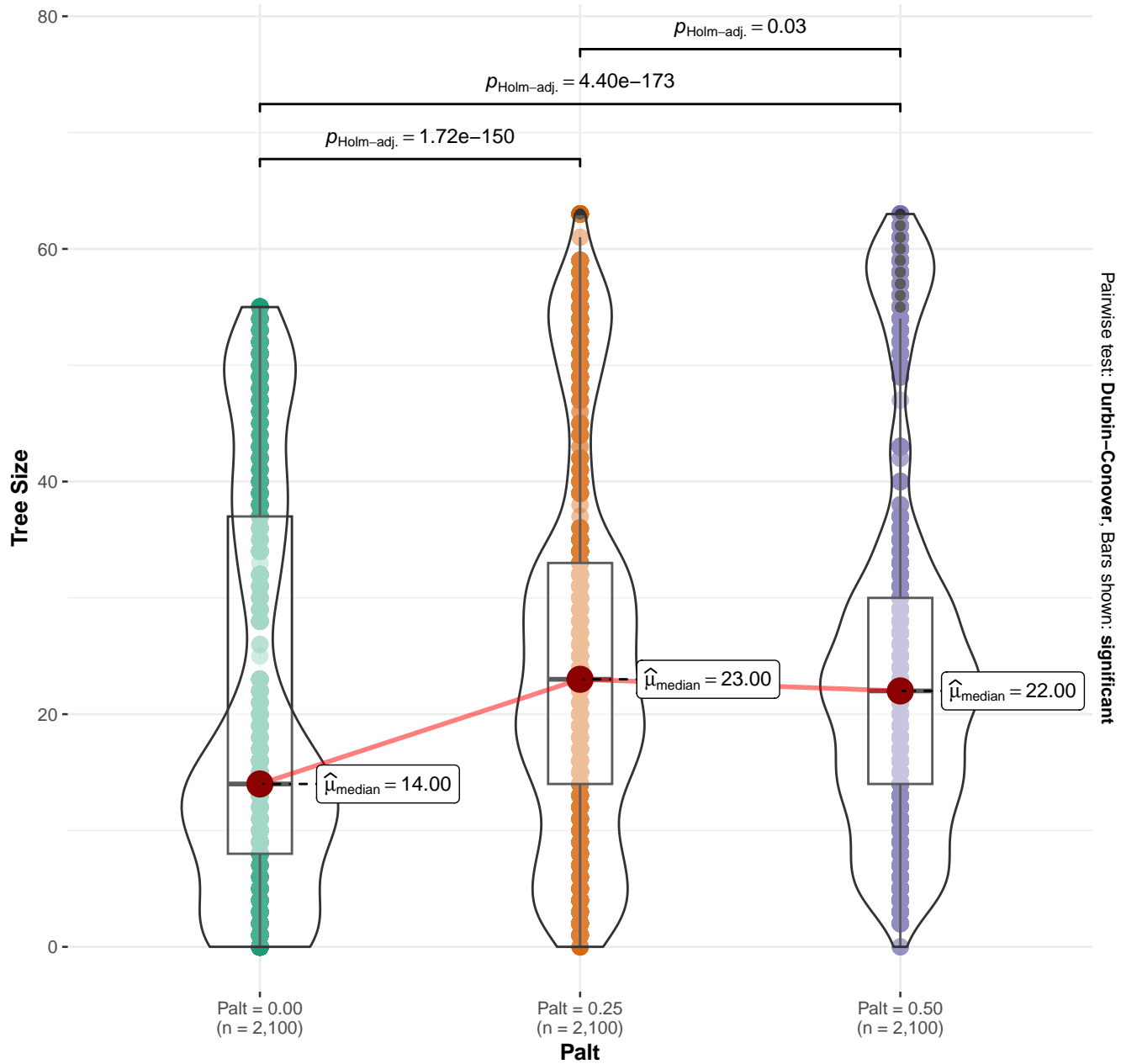


## Smearing: N = 10

$$\chi^2_{\text{Friedman}}(2) = 822.25, p = 2.82\text{e-}$$

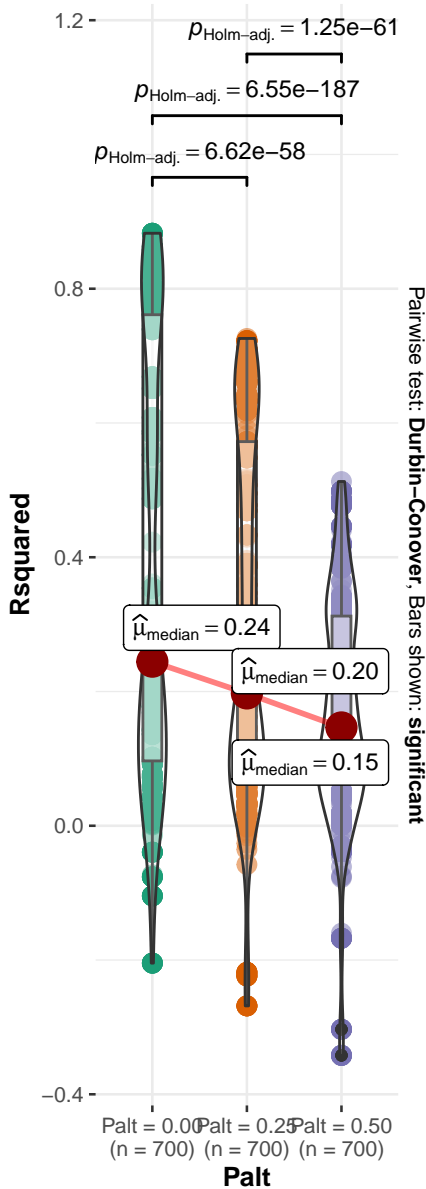


$\chi^2_{\text{Friedman}}(2) = 857.65$ ,  $p = 5.80\text{e-}187$ ,  $\widehat{W}_{\text{Kendall}} = 0.20$ ,  $\text{CI}_{95\%} [0.18, 1.00]$ ,  $n_{\text{pairs}} = 2,100$



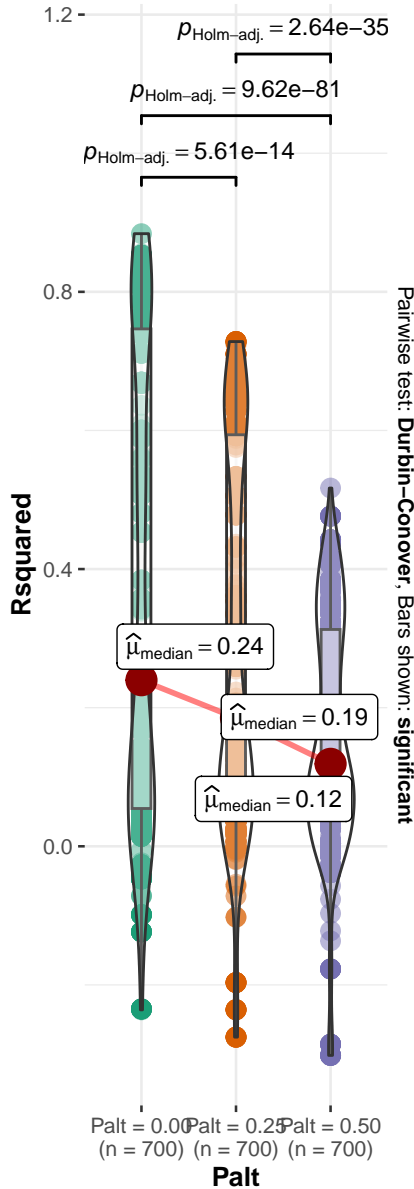
## Smearing: N = 1

$$\chi^2_{\text{Friedman}}(2) = 639.30, p = 1.50 \times 10^{-14}$$



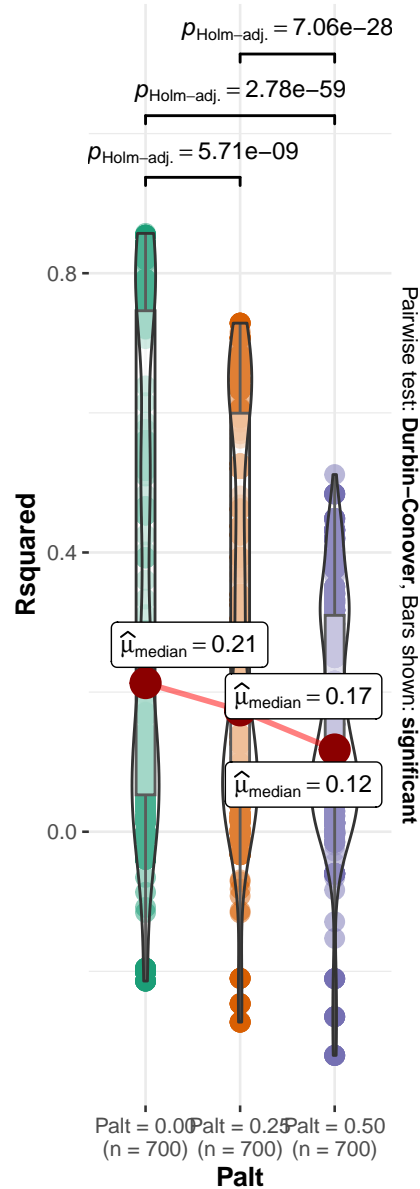
## Smearing: N = 5

$$\chi^2_{\text{Friedman}}(2) = 326.65, p = 1.17 \times 10^{-14}$$



## Smearing: N = 10

$$\chi^2_{\text{Friedman}}(2) = 249.09, p = 8.15 \times 10^{-10}$$



$\chi^2_{\text{Friedman}}(2) = 1159.18$ ,  $p = 1.94\text{e-}252$ ,  $\widehat{W}_{\text{Kendall}} = 0.28$ ,  $\text{CI}_{95\%} [0.25, 1.00]$ ,  $n_{\text{pairs}} = 2,100$

