



S10 Fig: Neurite length and number of cultured cortical neurons are unaffected by loss of PHF6

- (A) Representative images from E16.5 $Phf6^{lox/Y}$; $Nes-cre^{Tg/+}$ vs. $Phf6^{+/Y}$; $Nes-cre^{Tg/+}$ cultured cortical neurons showing staining with anti-beta III tubulin and DAPI. Scale bar = 21.25 μ m.
- (B) Enumerations of the numbers of primary, secondary and tertiary neurites per neuron in control and Phf6-deleted cultured cortical neurons. No significant difference was detected. (C) Quantification of the length of primary, secondary and tertiary neurites in $Phf6^{lox/Y}$; Neston $Phf6^{lox$
- $cre^{Tg/+}$ vs. $Phf6^{+/Y}$; $Nes-cre^{Tg/+}$ cultured cortical neurons. No significant difference was detected.

 $N = 4 \ Phf6^{lox/Y}; Nes-cre^{Tg/+}$ vs. $4 \ Phf6^{+/Y}; Nes-cre^{Tg/+}$ foetuses. Data are displayed mean \pm sem. Circles represent individual mouse foetuses. Data were analysed by using a two-tailed Student's t-test.