



Additional file 5: **Figure S4.** Differences between hippocampal and cortical cultures. **(a)** Dendrite width and postsynaptic intensity are higher in hippocampal cultures. The ratio of neuronal nuclei is higher in cortical cultures compared to hippocampal cultures that have more non-neuronal nuclei. This is reflected in the average texture and area of the nuclei, since neuronal nuclei are smaller and have a more spot-like phenotype (stronger texture) than non-neuronal nuclei ($n_{\text{bio}} = 3 \times n_{\text{tech}} = 6$); **(b)** Representative images of both neuronal (red) and non-neuronal (yellow) nuclei in cortical and hippocampal cultures.