

Additional file 9: **Figure S8**. Connectivity scores are sensitive to changes in dendrite, synapse, nuclear and functional descriptors. (a) Connectivity scores of MK801-treated cultures showed greater differences with DMSO-treated cultures at later time points when based on the integrated dataset when compared to the scores only based on morphological data. (Morph.:  $n_{bio} = 3 \times n_{tech} = 5$  - Func.:  $n_{bio} = 3 \times n_{tech} = 6$ ); (b) Connectivity scores of AraC treated cultures when including nuclear descriptors (Morph.:  $n_{bio} = 3 \times n_{tech} = 6$  - Func.:  $n_{bio} = 3 \times n_{tech} = 6$ ).