



Additional file 11: **Figure S10**. Extended culture age reduces neuronal connectivity. Connectivity scores based on z-scores from cortical cultures grown for an extended period of time. Neuronal connectivity increased during the first two weeks, after which it stagnated up to five and a half weeks. From DIV 38 onwards age-related loss of neuronal connectivity was detected (Morph.: $n_{\text{bio}} = 1 \times n_{\text{tech}} = 6$ - Func.: $n_{\text{bio}} = 1 \times n_{\text{tech}} = 9$).