



Additional file 10: **Figure S9.** Classification of morphological data confirms findings based on connectivity score. A RFC that was trained on pooled DMSO treated cultures revealed a negative impact of rapamycin on neuronal connectivity as can be seen from the cultures that were misclassified and were assigned a culture age that was lower than the actual culture age (red). Treatment with 0.01 μM and 0.1 μM of GNE3511 could however improve the neuronal connectivity (green) ($n_{\text{bio}}=3 \times n_{\text{tech}}=5$ except for GNE3511: $n_{\text{bio}}=2 \times n_{\text{tech}}=6$).