Figure S6



Fig S6. Mitochondrial respiration in cortical neurons co-expressing AMPK α and α -syn

(a) Basal oxygen consumption rate (OCR), expressed as the mean of four measurements. Note that AMPKa1 overexpressing neurons have statistically lower basal OCR compared to control, whilst a-syn induces an overall increase in OCR. Significant differences in the multiple comparisons are indicated on the graph for the AMPK and a-syn effects.

(**b**) Reserve respiratory capacity of neurons across conditions, calculated as the percentage increase in OCR following CCCP exposure. Overexpression of α -syn results in a significant decrease in the reserve respiratory capacity, in particular in neurons overexpressing AMPK α 1 and α 2. As compared to the control condition, neurons overexpressing T172D α 1 show a lower reserve respiratory capacity, independently from α -syn overexpression. Significant differences in the multiple comparisons are indicated on the graph for the AMPK and α -syn effects.

Statistical analysis: two-way factorial ANOVA (α-syn x AMPKα) with Tukey's HSD post hoc test; n=10-12 wells of separately infected neurons; *P<0.05, **P<0.01.