

Figure S1

Supplemental Figure 1. Impaired neural excitability and synaptic transmission of STR GABA neurons in MPTP-induced PD model mice.

(a) Representative traces of the action potentials recorded from GFP labeled neurons in + 300 pA current injection for each experimental group. (b) Statistics showed that as the injection current increased (from -50 pA to + 300 pA), the number of spikes was significantly increased over the number seen in MPTP-induced PD mice ($n = 15$ neurons) compared to saline-administered controls ($n = 18$ neurons). (c) Representative sEPSCs traces recorded in the STR GABA neurons in saline-administered controls and MPTP-induced PD mice. (d) Quantification of basal frequency and amplitude of sEPSCs in GABA neurons from saline-administered controls and MPTP-induced PD mice ($n = 15$ neurons for each group). Statistical significance was determined by two-way ANOVA followed by Dunnett's test (b) and unpaired Student's t test (d and e). Data are presented as the mean \pm SEM. ** $p < 0.01$; *** $p < 0.001$.

