



**Supplementary Figure S1.** Saline solution injection control. Densities of hippocampal NeuN-positive neurons in the pyramidal layer of the CA1 (B), CA3 (D) and granule cells in the DG (F) in saline injected wild-type mice (Saline), and AAV-L1, AAV-GFP injected APP/PS1 mice. Data are shown as mean + standard deviation. Asterisk indicates difference between treatments, hashtag indicates difference from the saline injected control, one-way ANOVA with Holm-Sidak posthoc,  $p < 0.05$ ;  $n = 5$  mice/group