



**Fig S1:** Representative images of amyloid plaques (indicated by white triangles) in the brains of 6-month-old 5xFAD and WT mice in the hippocampal CA1 region and the cortical S1 region. The slice thickness was 100 μm, and images were captured at 20x magnification. The length of the scale bar segment is 100 μm. For staining, an indirect immunohistochemical method was employed using primary antibodies against A $\beta$ -peptide (6E10, 1:500, Biolegend, #SIG-39320) and secondary antibodies Alexa Fluor-488 (1:1000, ThermoFisher Scientific, #A-11001).