

Table S1: Mouse primers for qPCR and RT-qPCR

Occludin	Forward: TTGAAAGTCCACCTCCTTACAGA
Occludin	Reverse: CCGGATAAAAAGAGTACGCTGG
ZO-1	Forward: GCCGCTAAGAGCACAGCAA
ZO-1	Reverse: TCCCCACTCTGAAAATGAGGA
β -catenin	Forward: ATGGAGCCGGACAGAAAAGC
β -catenin	Reverse: CTTGCCACTCAGGGAAGGA
NLRP3	Forward: TCATGTTGCCTGTTCTTCCA
NLRP3	Reverse: CCGGTTGGTGCTTAGACTTG
ASC	Forward: CTTGTCAGGGGATGAACTCAAAA
ASC	Reverse: GCCATACGACTCCAGATAGTAGC
Gasdermin D	Forward: CCATCGGCCTTTGAGAAAGTG
Gasdermin D	Reverse: ACACATGAATAACGGGGTTTCC
IL-1 β	Forward: GCAACTGTTCTGAACTCAACT
IL-1 β	Reverse: ATCTTTTGGGGTCCGTCAACT
16S rDNA, (universal) UniF334-F	Forward: ACTCCTACGGGAGGCAGCAGT
16S rDNA, (universal) UniR514	Reverse: ATTACCGCGGCTGCTGGC
16S rDNA (Firmicutes) 928F-Firm	Forward: TGAAACTYAAAGGAATTGACG
16S rDNA (Firmicutes) Firm1040R	Reverse: ACCATGCACCACCTGTC
16s rDNA (Bacteroidetes) 798cfbF	Forward: CRAACAGGATTAGATACCCT
16s rDNA (Bacteroidetes) cfb967R	Reverse: GGTAAGGTTCTCGCGTAT
<i>Lactobacillus</i>	Forward: CCACCTTCCTCCGGTTTGTC
<i>Lactobacillus</i>	Reverse: AGGGTGAAGTCGTAACAAGTAGCC
<i>Bifidobacterium</i>	Forward: CCCTGGAAAGGGTGG
<i>Bifidobacterium</i>	Reverse: GGTGTTCTTCCCGATATCTACA

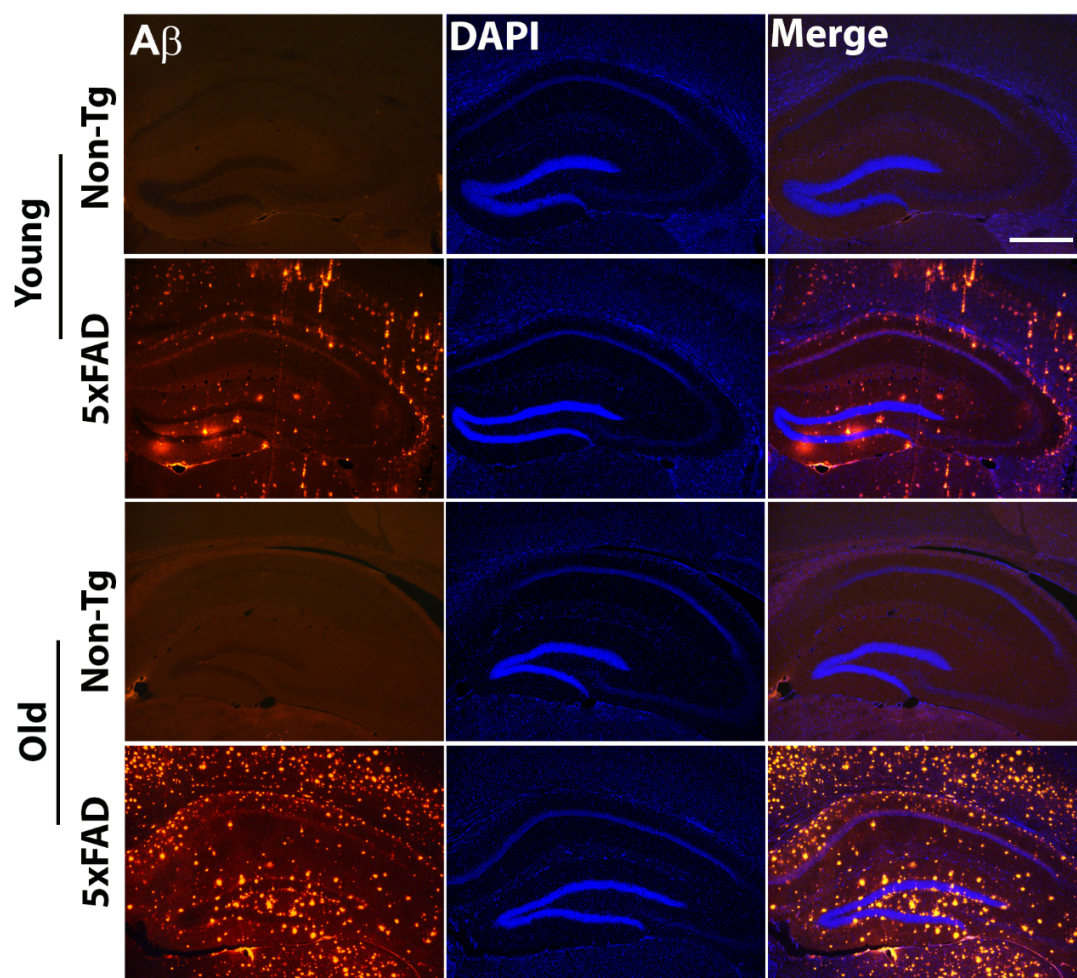


Figure S1. Representative images of A β deposition (BAM10; red) in the hippocampus of young and old 5xFAD and their control littermates. Scalebar- 500 μ M N=3 mice/group.