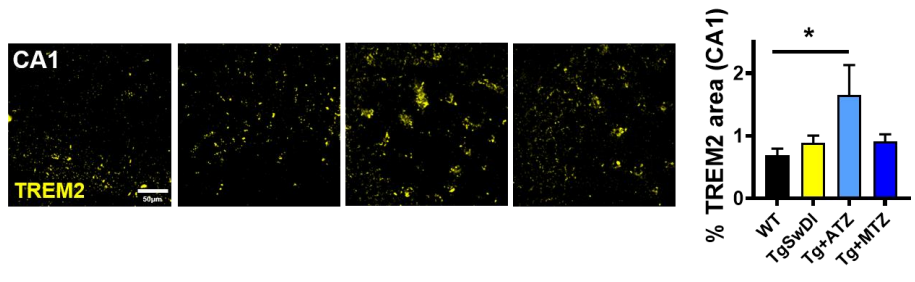
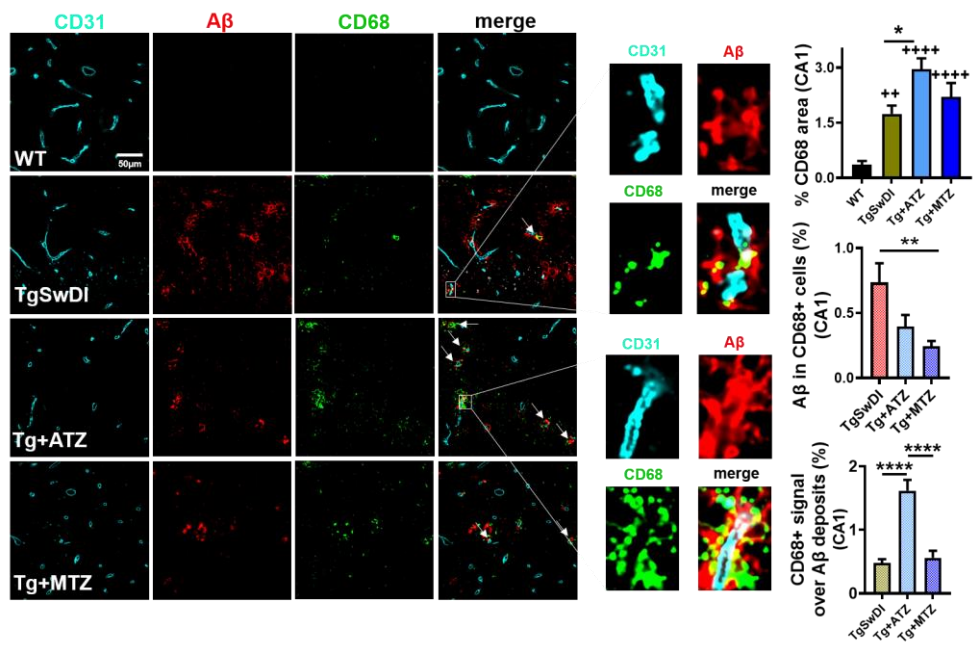


A**B**

Supplementary Figure 5: CAIs improve microglial and perivascular macrophage phagocytic activity in CA1 in TgSwDI mice. **A)** Representative IHC images showing that ATZ increases TREM2 expression in microglia in the CA1 hippocampal area. Original magnification, 60x. Scale bar, 50 μ m. The relative quantification of %TREM2 area is on the right: WT, TgSwDI and MTZ: N=5, ATZ: N=3, $n \geq 9$ measurements acquired/group. * $p < 0.05$, One-way ANOVA and Tukey's post-hoc test. **B)** In CA1 area, CD68 expression (phagocytic activity marker, green) is higher in TgSwDI compared to WT. CAI-treatment boosts CD68 expression, mainly along the cerebral vasculature (stained with CD31, cyan). CD68 is colocalized with perivascular A β (red). Original magnification, 60x. Scale bar, 50 μ m. The plot on the top right shows that CAI-treatment increases perivascular phagocytic activity, measured as %CD68 area per acquisition field. TgSwDI: N=7, WT: N=6, ATZ: N=4, MTZ: N=5, $n \geq 12$ measurements acquired/group. * $p < 0.05$, ++ $p < 0.01$, ++++ $p < 0.0001$, One-way ANOVA and Tukey's post-hoc test. The white arrows indicate A β surrounding the microvasculature colocalized with CD68+ perivascular macrophages (PVM), as shown in yellow in the merged magnified images. On the right, colocalization plots for both A β within CD68+ cells (A β /CD68) and CD68+ cells over A β deposits (CD68/A β). TgSwDI: N=7, MTZ: N=5, ATZ: N=4, $n \geq 11$ measurements acquired/group. For A β /CD68 colocalization, ** $p < 0.01$. For CD68/A β colocalization, **** $p < 0.0001$, One-way ANOVA and Tukey's post-hoc test. Data are expressed as mean \pm SEM.