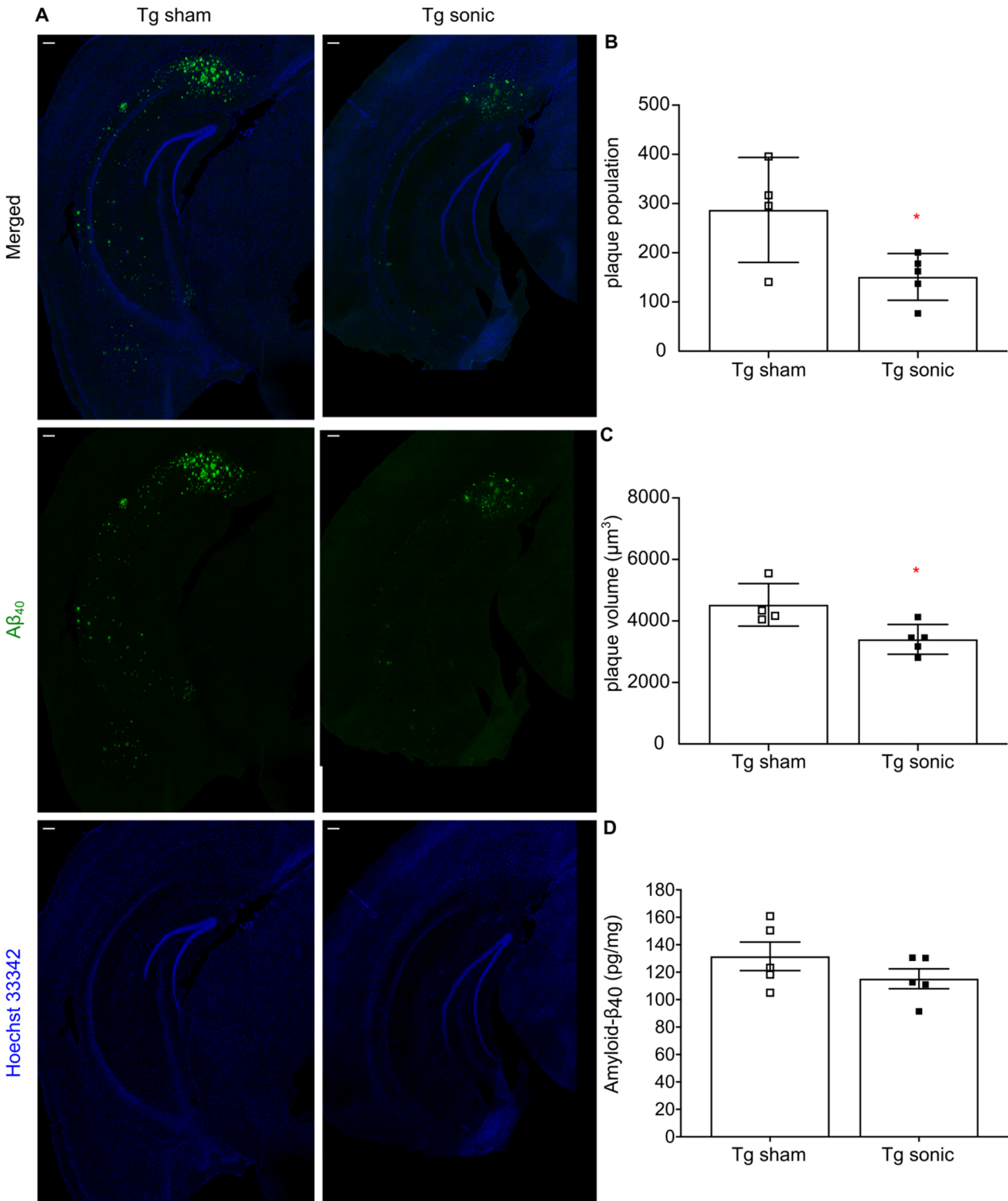


## Supplementary Material



1 **Supplementary Figure 1:** Amyloid plaque quantification. A. A $\beta$  immunoreactivity was examined using the A $\beta_{40}$  specific  
2 antibody used in both immunohistochemistry and ELISA while Hoechst 33342 was employed for anatomical navigation.  
3 B. Plaque quantification revealed a decrease in the population and volume on the order of 47.41% ( $t[7]=2.584$ ;  $P=0.0363$ )  
4 and 24.79% ( $t[7]=2.871$ ;  $P=0.024$ ), respectively, in the sonicated brains. Along the same lines, A $\beta_{40}$  quantification with  
5 sandwich ELISA confirmed the decreasing trend following sonications by 12.42%, yet lacking significance ( $t[9]=1.289$ ;  
6  $P=0.2335$ ). Scale bar: 100 $\mu\text{m}$ .