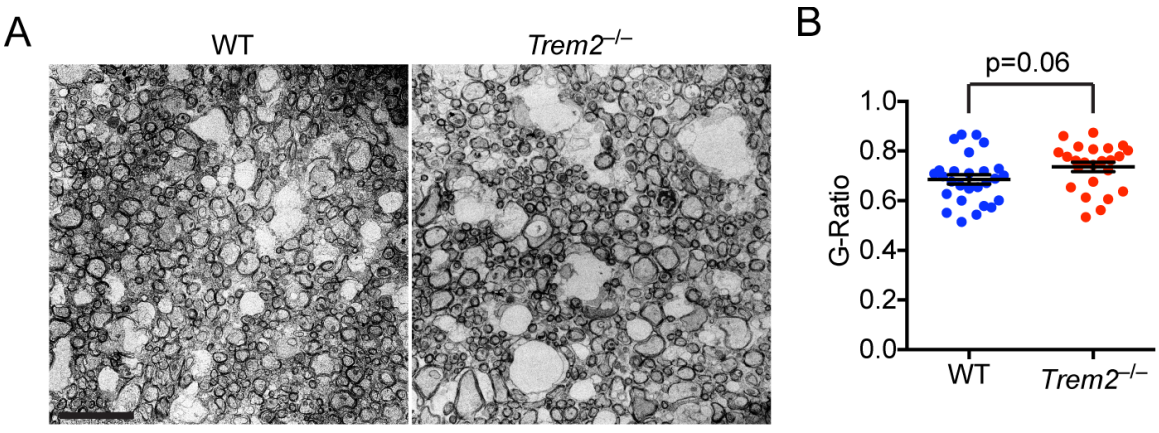
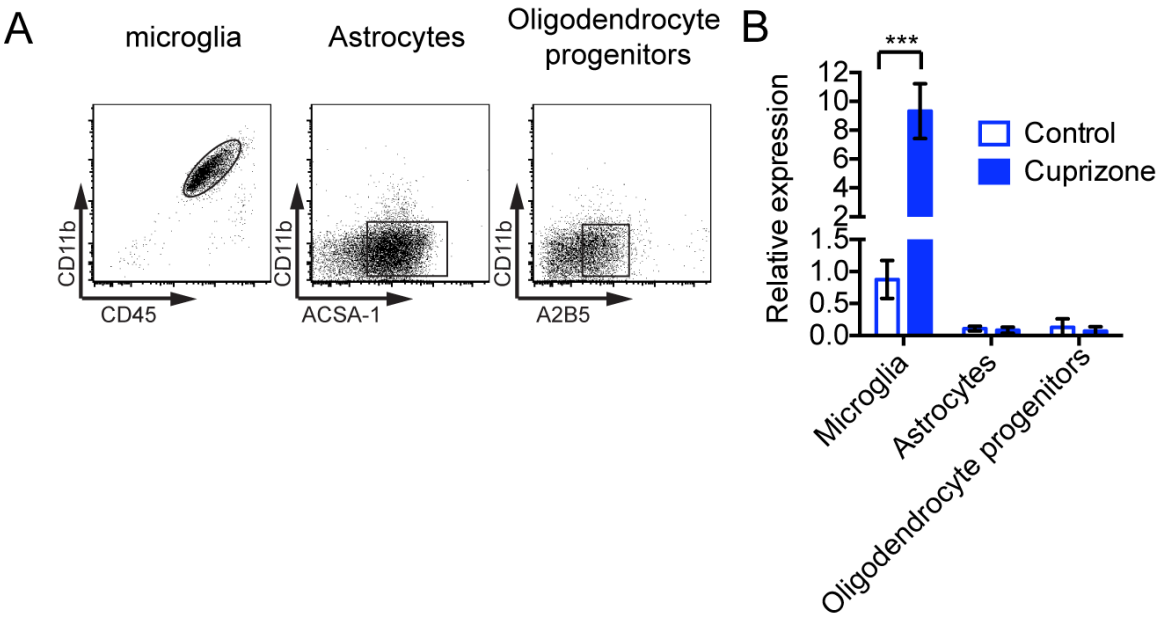
Supplemental Figures



Supplemental Figure 1. WT and *Trem2*$^{-/-}$ mice show similar levels of remyelination after 4 weeks of cuprizone feeding. WT and *Trem2*$^{-/-}$ mice were fed with a cuprizone diet for 4 weeks followed by a normal diet for 2 weeks. Remyelination in corpus callosum was examined by EM. (**A**) Representative EM images of corpus callosum of WT and *Trem2*$^{-/-}$ mice. (**B**) Myelin thickness was assessed by G-ratio.



Supplemental Figure 2. *Trem2* is highly expressed by microglia but not astrocytes or oligodendrocyte progenitors during cuprizone treatment. Microglia, astrocytes and oligodendrocyte progenitors were FACS-purified from WT mice that were fed a normal diet or a cuprizone diet for 4 weeks. Microglia, astrocytes and oligodendrocytes were identified as $CD11b^{+}CD45^{lo}$, $CD45^{-}ASCA\text{-}1^{+}$ and $CD45^{-}A2B5^{+}$ respectively. (**A**) Gating strategy used for FACS-sorting each cell type. (**B**) *Trem2* expression by microglia, astrocytes and oligodendrocyte progenitors was determined by qPCR.

Supplemental Table 1. qPCR primers.

Gene	**5'**	**3'**
Trem2	TGGGACCTCTCCACCAGTT	GTGGTGTTGAGGGCTTGG
Il1b	GCAACTGTTCCTGAACTCAACT	ATCTTTTGGGGTCCGTCAACT
Lpl	TTCCAGCCAGGATGCAACA	GGTCCACGTCTCCGAGTCC
Axl	GGAGGAGCCTGAGGACAAAGC	GACAGCATCTTGAAGCCAGAGTAGG
Igf1	TTCAGTTCGTGTGTGGACCGA	ATCCACAATGCCTGTCTGAGG
Apoc1	TTCAGTTCGTGTGTGGACCGA	ATCCACAATGCCTGTCTGAGG
Itgax	ATGGAGCCTCAAGACAGGAC	GGATCTGGGATGCTGAAATC
Ifnb1	CAGCTCCAAGAAAGGACGAAC	GGCAGTGTAACTCTTCTGCAT