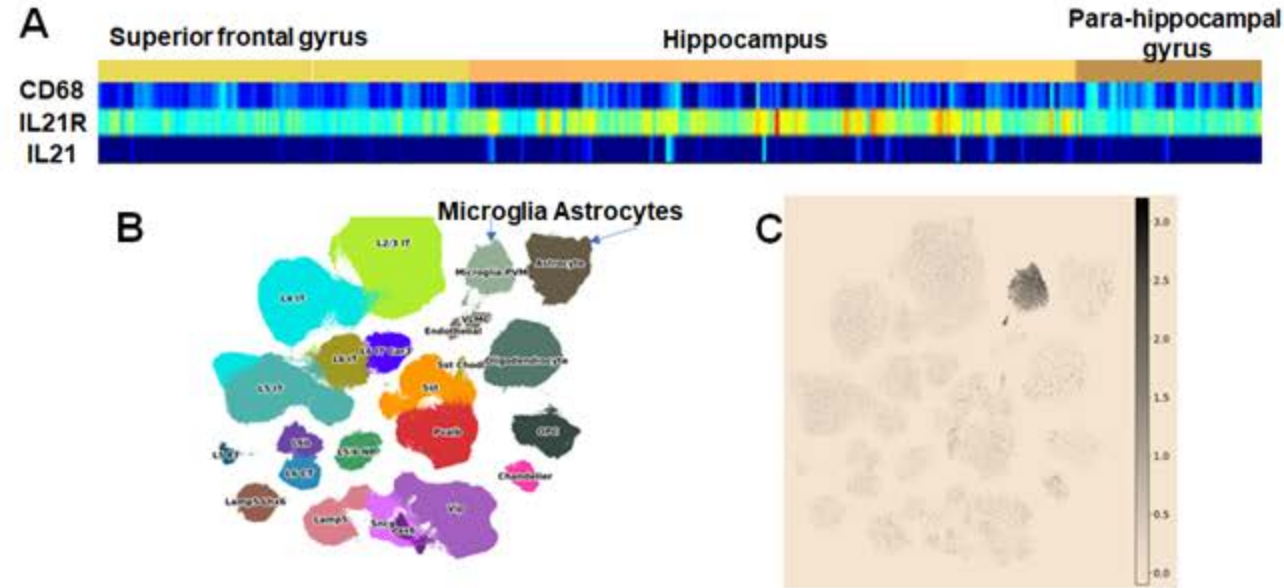
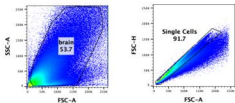


Supplementary Figure S1

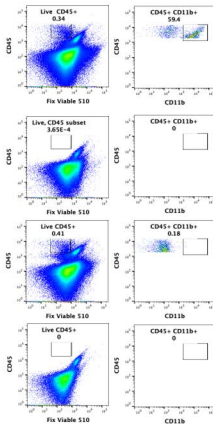


Supplementary Figure S1: IL-21R expression is highest in the microglia of human brain. A. Microarray data from human brain showing expression of CD68, IL-21R and IL-21 in different brain regions. **B.** Single nuclei sequencing data showing cells by color. **C.** IL21R expression showing significantly higher expression in microglia but detectable levels of expression in other cell types in the CNS. **Data for the figure is from ALLEN brain atlas.**

Supplementary Figure S2



Gating strategy for microglia



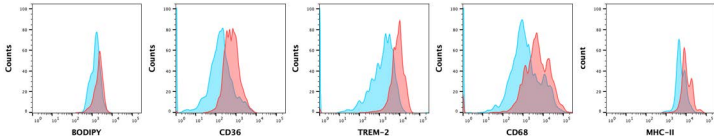
CD45+CD11b+

FMO CD45

FMO CD11b

Unstained

Supplementary Figure S2



Gated microglia (figure S2) from IL-21 injected and control mice were analyzed for the expression of BODIPY, CD36, TREM-2, CD68 and MHC-II by flow cytometry. Histograms depict the MFI of the same. **Red- IL-2**; **Blue- Control**. Representative of 6 experiments. Bar graph is presented in Figure 2.