

Figure S1. eEPSC and PPR in layer 5 neurons show no alterations.

A) Representative image of stimulation (left) and recording electrode (right). Scale bar 50 μ m. B) Evoked EPSC amplitudes from PBS and PFFs injected mice. 10, 20, 40, 60, 80, 100, 120 μ A (PBS= 186.22 \pm 44.25, 197.67 \pm 45.06, 229.44 \pm 49.86, 240.56 \pm 44.84, 267.03 \pm 43.82, 287.94 \pm 48.51, 306.59 \pm 46.45 pA) (PFF =154.91 \pm 22.70, 158.91 \pm 23.60, 191.32 \pm 29.34, 233.15 \pm 33.24, 259.25 \pm 33.44, 287.40 \pm 36.87, 332.59 \pm 38.82 pA) C) Traces of eEPSC D) Paired pulse rations from PBS and PFF mice. 30 ms, 50 ms, 100 ms, 150 ms.(PBS = 1.04 \pm 0.06, 0.99 \pm 0.05, 0.96 \pm 0.04, 0.90 \pm 0.03 ratio)(PFF= 0.99 \pm 0.05, 1.00 \pm 0.06, 0.93 \pm 0.04, 0.96 \pm 0.04) E) Traces of paired pulses after stimulation in layer 5. Data in B, D are expressed as means \pm S.E.M. B-C (PBS, n=8-9; PFF n=10-12 neurons from 3 mice). Data in D (PBS, n=5; PFF n=5). *p < 0.05, **p < 0.01, ***p < 0.001; (B,D) Student's t-test.

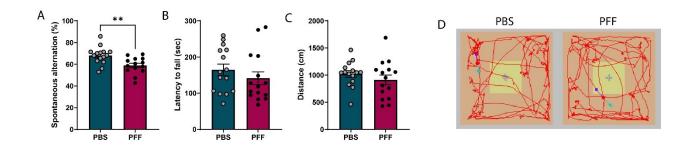


Figure S2. Behavioral alterations 20 weeks after PFF injection. A) Y maze spontaneous alteration percentage B) Latency to fall in the rotarod test. C) Open field distance (cm). D) Diagram of open field movement trace. Data in A-C are expressed as means \pm S.E.M. A-C (PBS, n=15; PFF n=14 mice). *p < 0.05, **p < 0.01, ***p < 0.001; Student's t-test

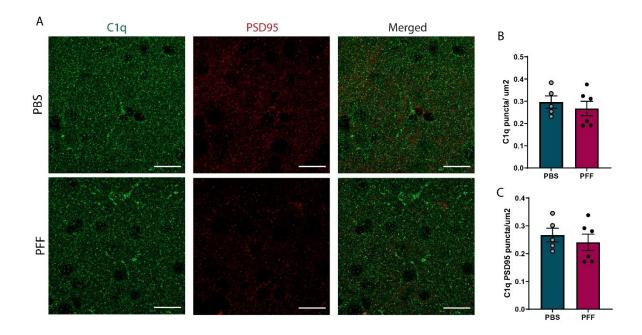


Figure S3. C1q levels in layer 5 of the somatosensory cortex. A) Representative immunofluorescence images against C1q (green) and PSD95 (red) B) Quantification of C1q puncta in layer 5. C) Quantification of C1q co-localization with postsynaptic terminals. Data in B-C are expressed as means \pm S.E.M. (PBS, n=5; PFF n=6 mice). *p < 0.05, **p < 0.01, ***p < 0.001; Student's t-test