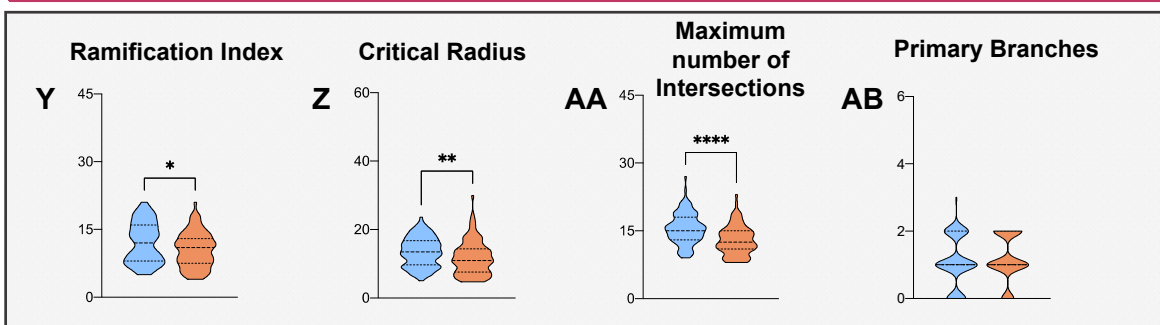
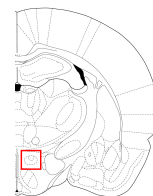
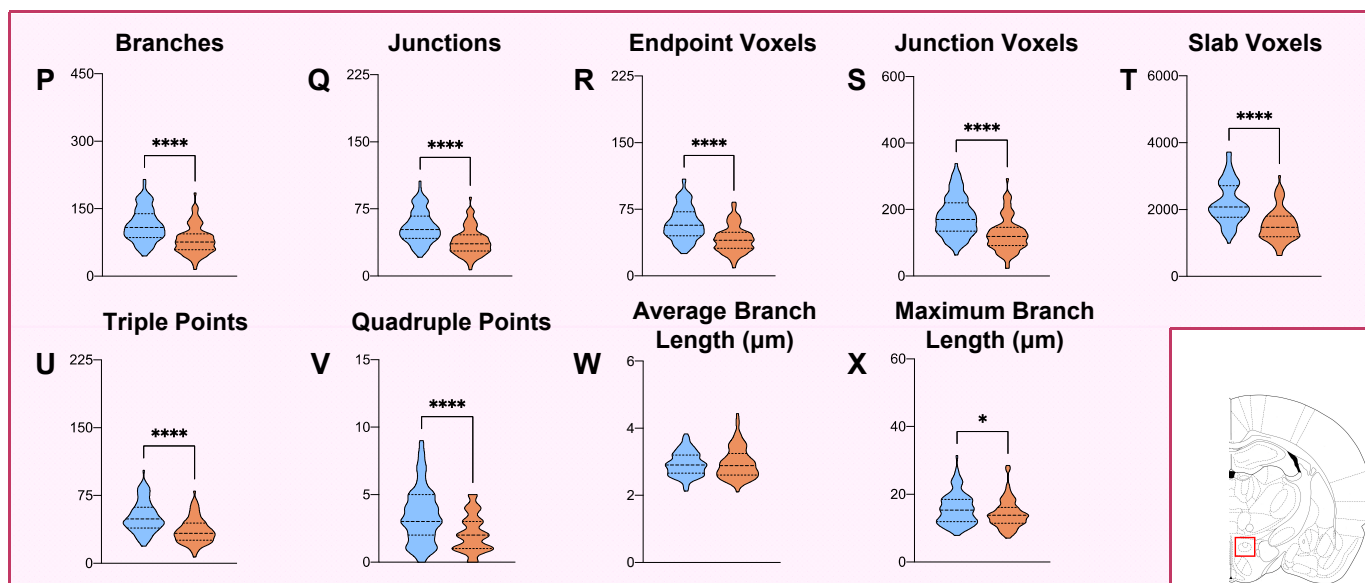
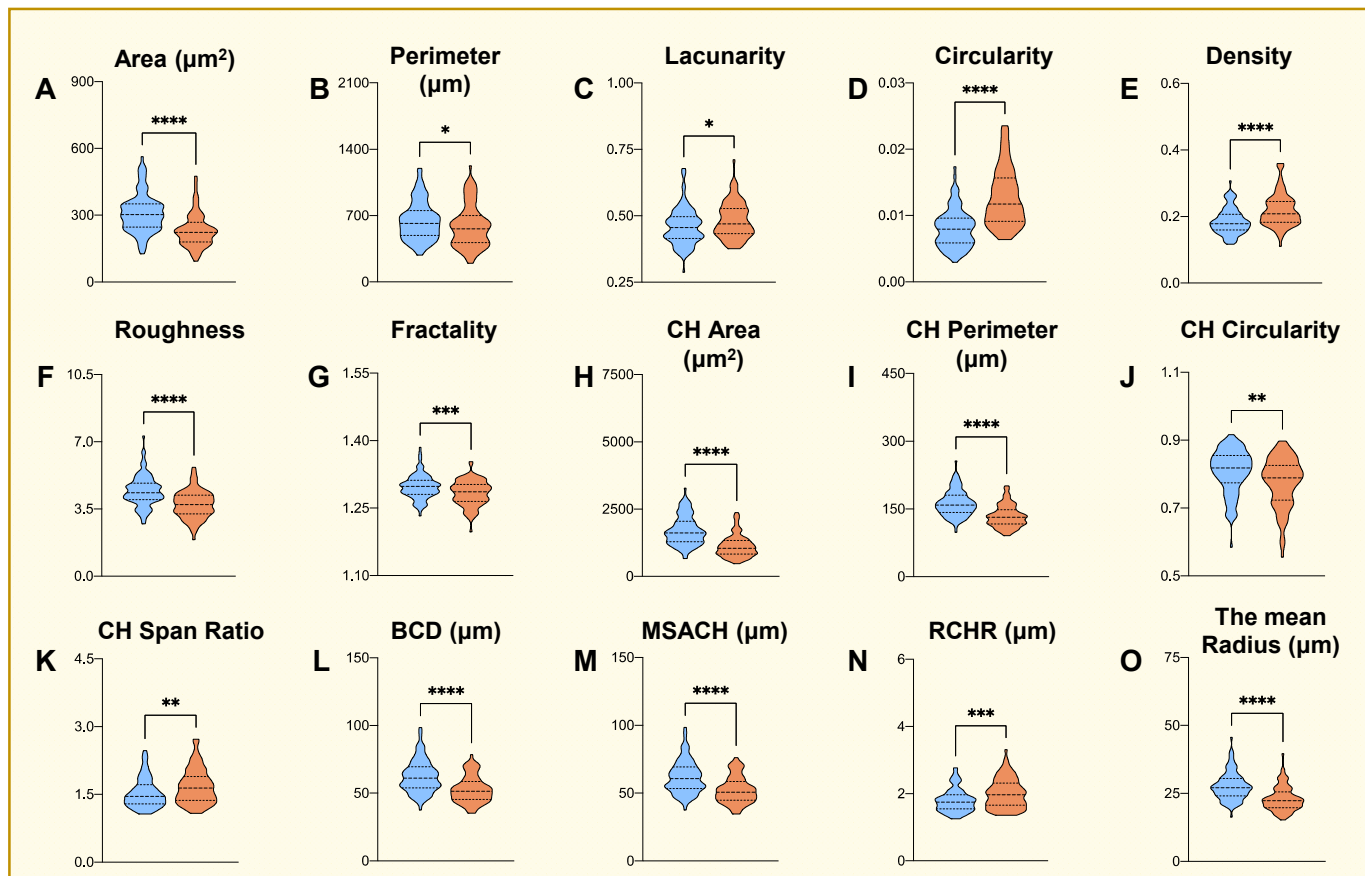




Sal post-FS
NA post-FS

Figure S4. Morphological analysis of IBA1 stained microglial cells sampled from the paraventricular nucleus of the hypothalamus. Rats were ICV-injected with neuraminidase or saline, and exposed to forced swimming 3 months later. They were euthanized 48 hours after FS. Morphological analysis carried out by three different methods: Fractal analysis (**A-O**, parameters enclosed in the yellow area), Skeleton analysis (**P-X**, parameters enclosed in the pink area) and Sholl analysis (**Y-AB**, parameters enclosed in the gray area). Data distribution of each parameter is presented as violin plot, where the dashed line represents the median and the dotted line represents the quartiles. N = 155-190 were sampled from different animals within each experimental group. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$.