

**Table S1 Summary of microglia morphology parameters (Skeleton and FracLac analyses)**

	Measure	Unit	Scale	Interpretation
Process length	Summed	μm/cell	Photomicrograph	Cell ramification
Process endpoints	Summed	#/cell	Photomicrograph	Cell ramification
Fractal Dimension	Regression slope $\left[ \frac{\ln(N)}{\ln(\varepsilon)} \right]$	D <sub>B</sub>	Individual cell	Cell complexity
Span Ratio	$\frac{\text{convex hull eclipse longest length}}{\text{convex hull eclipse longest width}}$	Ratio	Individual cell	Cell shape
Density	$\frac{\# \text{ of pixels within cell outline}}{\text{area of convex hull}}$	$\frac{\# \text{ of pixels}}{\text{area}}$	Individual cell	Cell size
Area	Total number of pixels present in the filled shape of cell image	μm <sup>2</sup>	Individual cell	Cell size
Perimeter	# of pixels expressed in microns	μm	Individual cell	Cell size
Lacunarity	heterogeneity or translational and rotational invariance in a shape	mass distribution of pixels	Individual cell	Shape changing
Circularity	$\frac{(4\pi \times \text{cell area})}{(\text{cell perimeter})^2}$	Ratio	Individual cell	Cell shape