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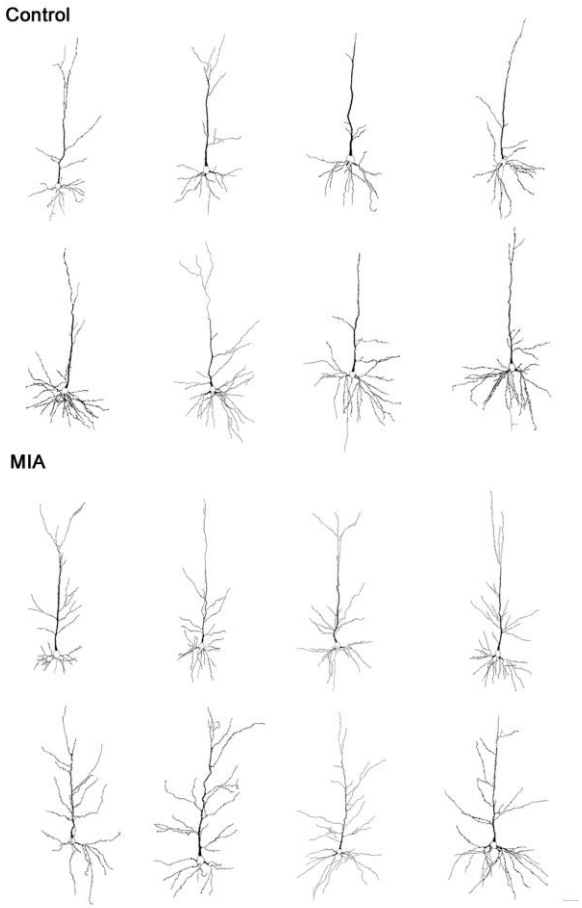
Supplementary data

	Control **Mean ± (SEM)**	**MIA** **Mean ± (SEM)**
$N=\frac{n\pi[(Dr+Sl)^2-(Dr+Sd)^2]}{((\Theta/90)\bullet\pi(Dr+Sl)^2)-2[(Dr+Sl)\sin\Theta\bullet(Dr+Sd)]}$ Where n = visible number of spines in the section of pre-determined length N= corrected estimate for the true number of spines Dr = radius of the dendrite Sl =Spine length Sd = spine head diameter		
Visible spine count (n)	44.26 (3.20)	52.4 (3.87)
Corrected values (N)	111.93 (9.27)	123.42 (9.54)
N/n	2.53	2.36

Table S1 Formula to correct for the number of spines obscured by the opaque dendrite trunk. While this did not reveal a significant difference between groups in number of spines per 30µm section of apical dendrite. The greater N/n ratio for the control group demonstrates that the thicker dendrite obscures more spines than the thinner (MIA) dendrites. Because spine length and head diameter were not recorded accurately during data collection these were assumed to be equal between groups and assigned values of 1.0µm and 0.2µm respectively.



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691 Figure S1 Representative neuron traces of DLPFC neurons from control and MIA treated groups. Neurons from the MIA group have significantly more oblique dendrites protruding from the first 100μm of apical dendrite trunk. Scale bar = 50 μm.