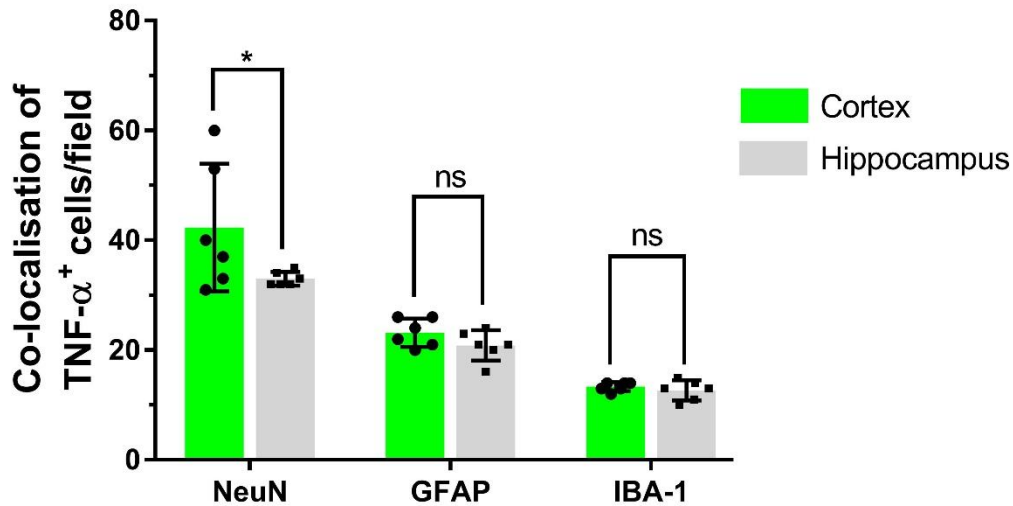
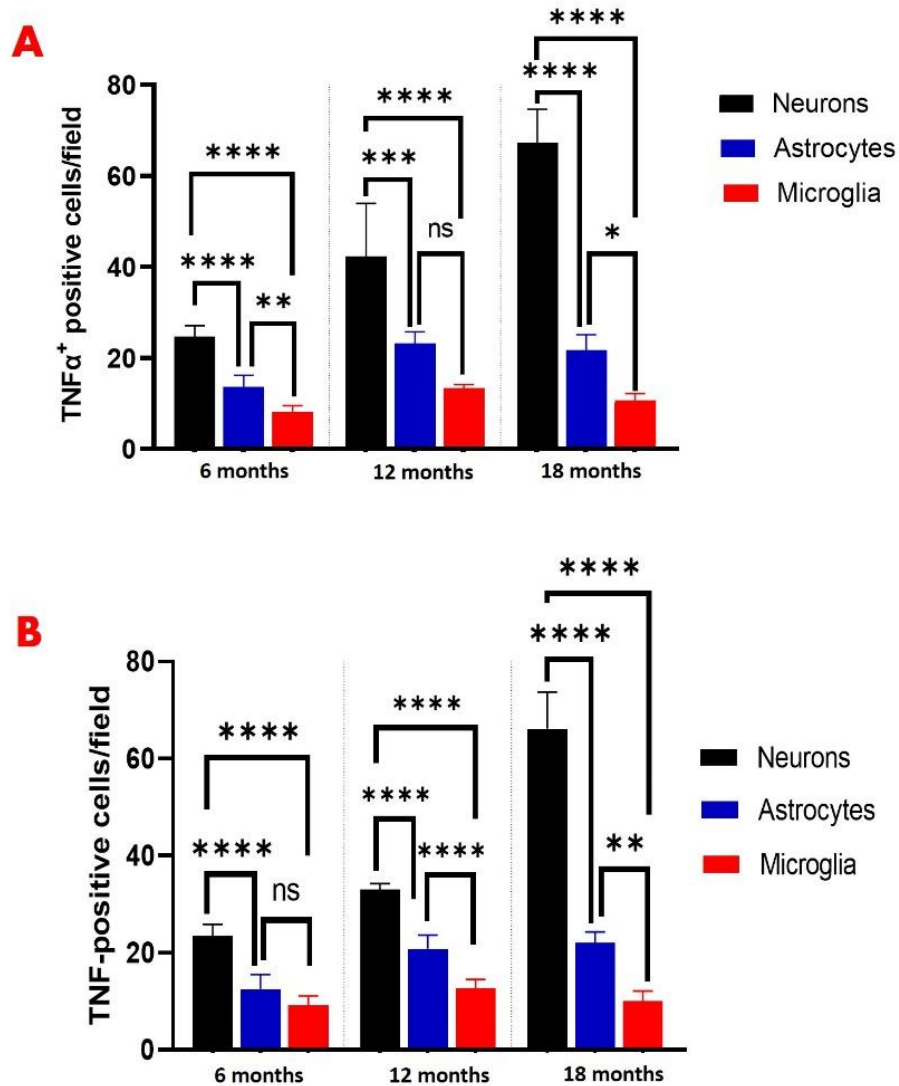


SUPPLEMENTARY FIGURES

TNF- α expression in frontoparietal cortex and hippocampus following 12 months of chronic vanadium exposure



Supplementary 1: Quantitative analysis also showed that TNF α immunoreactive cells are more expressed in the frontoparietal cortices relative to hippocampus in chronicity of metal exposure. [($n = 8$ mice/group; intensity analysis = 6 mice; Scale bar: 50 μ m; $p < 0.05$). Normality test (Shapiro-Wilk) = FPC (12 months exposure: p value 0.0001) (* $p < 0.05$)].



Supplementary 2. TNF α colocalization with neurons, astrocytes, and microglia in the frontoparietal cortices (A) and hippocampus (B) of mice brains after recurrent vanadium-induced toxicity from 6 to 18 months. TNF α expression in neurons was significantly higher than in astrocytes and microglia, with this expression increasing with chronicity of vanadium exposure. [($n = 8$ mice/group; intensity analysis = 6 mice; Scale bar: 50 μ m; $p < 0.05$) (* $p < 0.05$, *** $p < 0.001$; **** $p < 0.0001$)].

TABLES

Table 1: List of the primary and secondary antibodies used for immunofluorescence staining.

Serial No	Names	Source	Catalog No.	RRID No	Dilution
1	Chicken anti-GFAP	Abcam, Cambridge, United Kingdom	ab4674	AB_304558	1:1000
2	Rabbit anti-NeuN	Abcam, Cambridge, United Kingdom	ab104225	AB_10711153	1:500
3	Mouse anti-TNF α (52B83)	Abcam, Cambridge, United Kingdom	ab1793	AB_302615	1:250
4	Goat anti-Iba 1	Abcam, Cambridge, United Kingdom	ab5076		1:200
5	Goat Alexa Fluor® 633-conjugated anti-chicken (IgG)	Invitrogen, Darmstadt, Germany		A21103	1:400
6	Goat Alexa Fluor® 568-conjugated anti-rabbit (IgG)	Invitrogen, Darmstadt, Germany		A11011	1:400
7	Donkey Alexa Fluor® 488-conjugated anti-mouse (IgG)	Invitrogen, Darmstadt, Germany		A21202	1:400
8	Donkey Alexa Fluor® 633-conjugated anti-goat (IgG)	Invitrogen, Darmstadt, Germany		A21447	1:400
9	Donkey Alexa Fluor® 488-conjugated anti-rabbit (IgG)	Invitrogen, Darmstadt, Germany		A21206	1:400