

***In vitro* Inflammatory Effects of Hard Metal (WC-Co) Nanoparticle Exposure**

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Supplementary materials

Figures

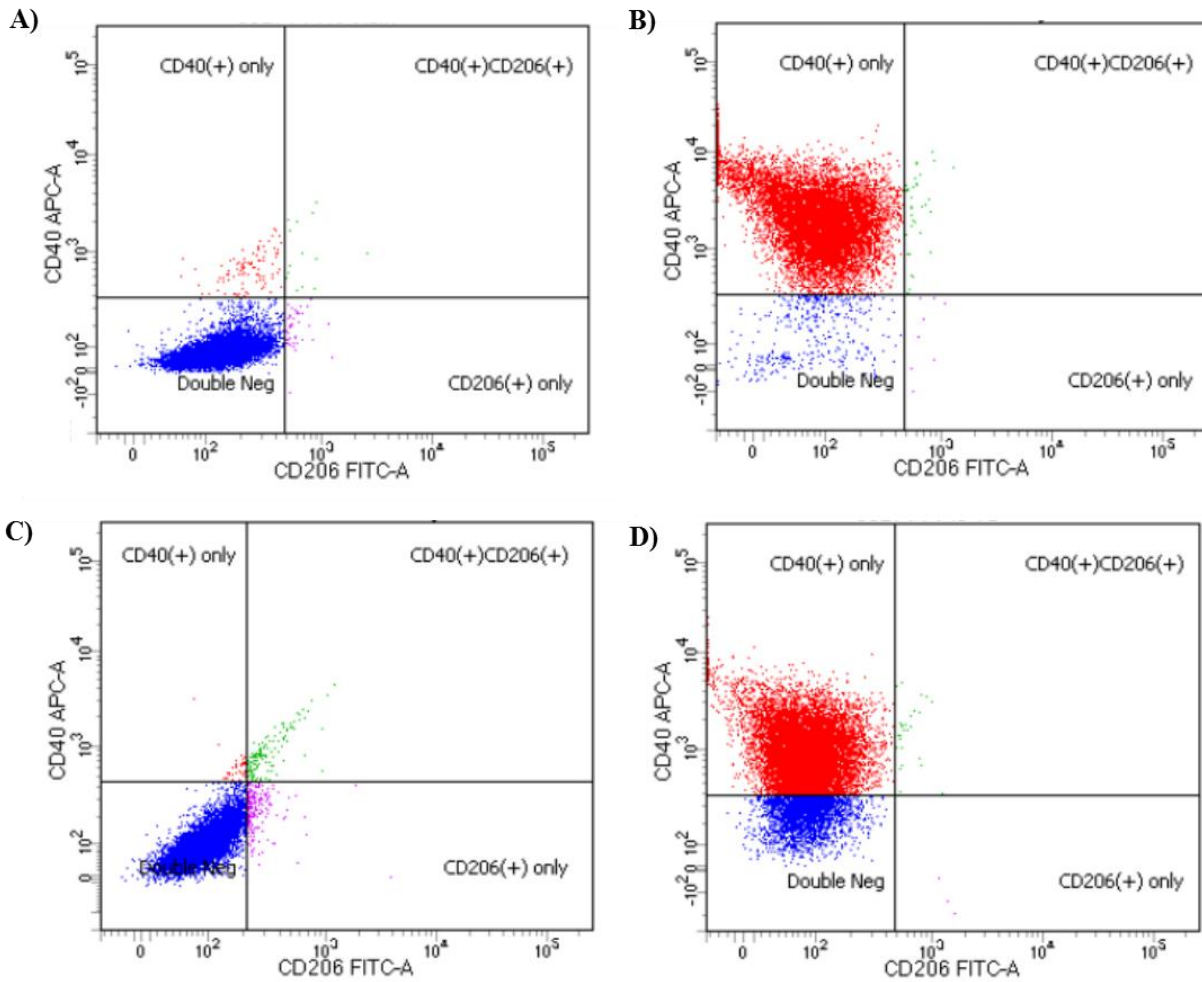


Figure S1. Representative flow cytometry dot plots depicting macrophage staining controls used to set flow cytometer experimental parameters: A) no stain/M0 cells only, B) M1 positive control (LPS) stained with CD40-APC only, C) M2 positive control (IL-4) stained with CD206-FITC only and D) M0 negative control cells stained with both CD40-APC and CD206-FITC. CD40-APC as a surface marker of M1-type macrophages and CD206-FITC as a surface marker of M2-type macrophages.

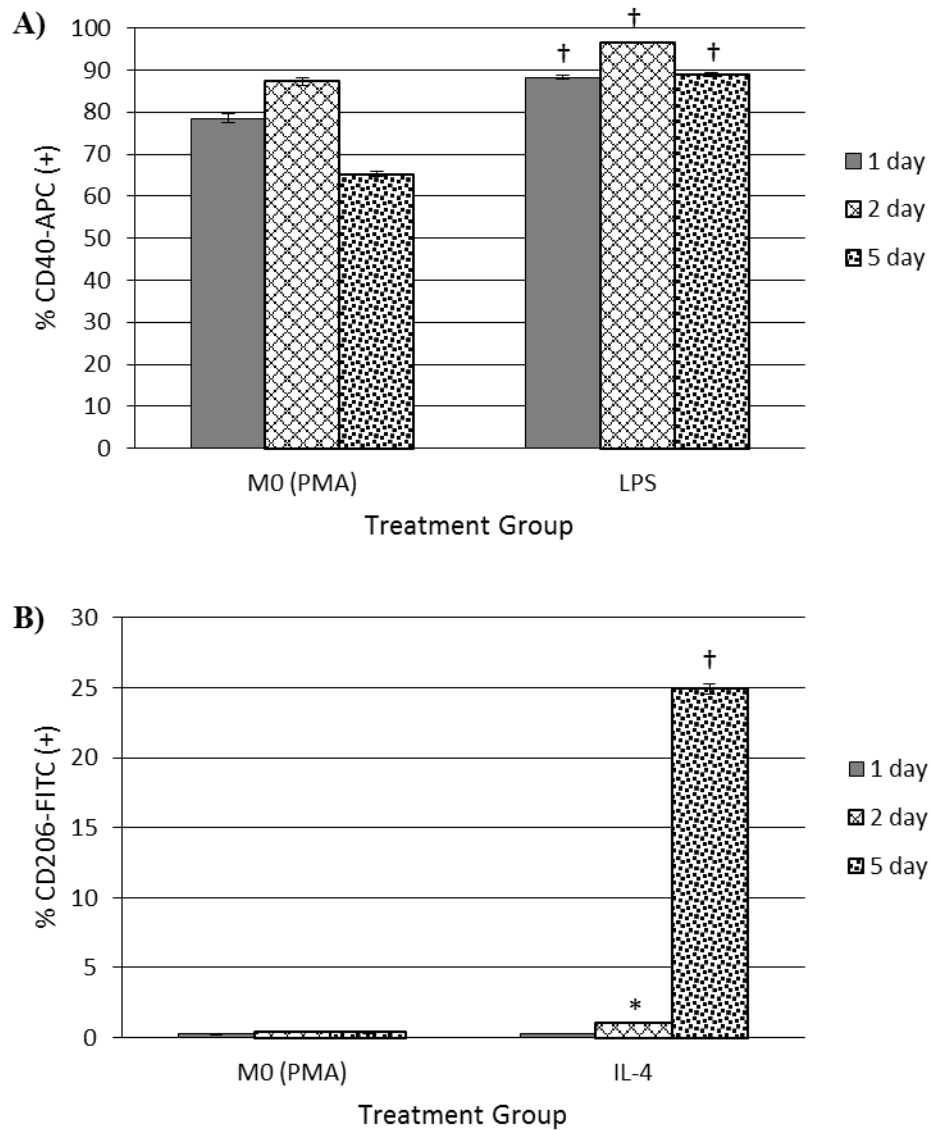


Figure S2. Summary of A) CD40+ M1-type and B) CD206+ M2-type macrophage flow cytometry staining controls. M0 cells received PMA treatment only, M1 positive control received 100 ng/mL LPS and M2 positive control received 20 ng/mL IL-4 for 1, 2 or 5 days. (*P < 0.05, †P < 0.01 compared M0 control)

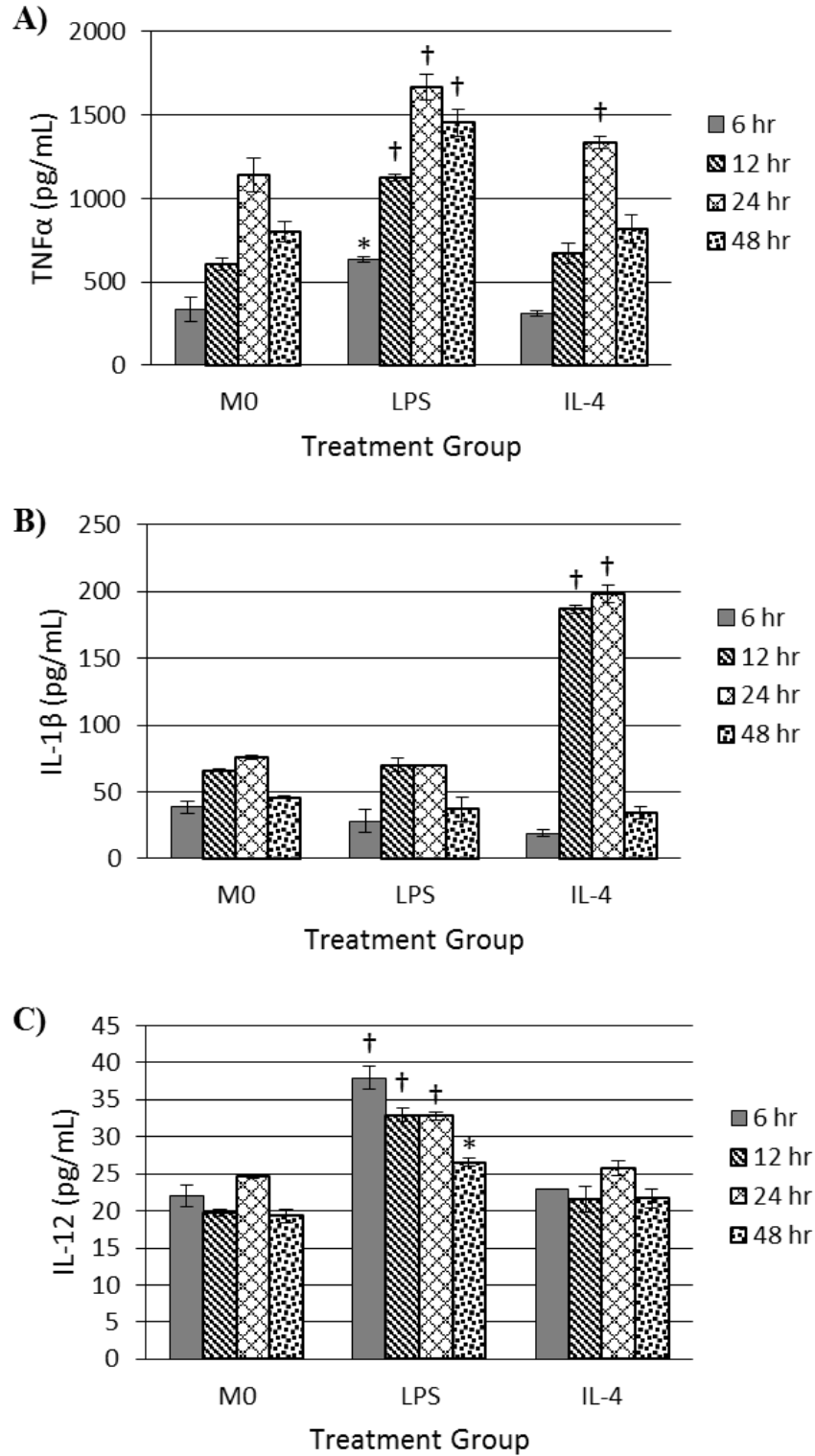


Figure S3. Levels of A) TNF α , B) IL-1 β and C) IL-12 inflammatory markers in cell culture supernatant for the M0 (negative control), LPS (100 ng/mL) and IL-4 (20ng/mL) control groups. (*P < 0.05, †P < 0.01 compared to M0 control)

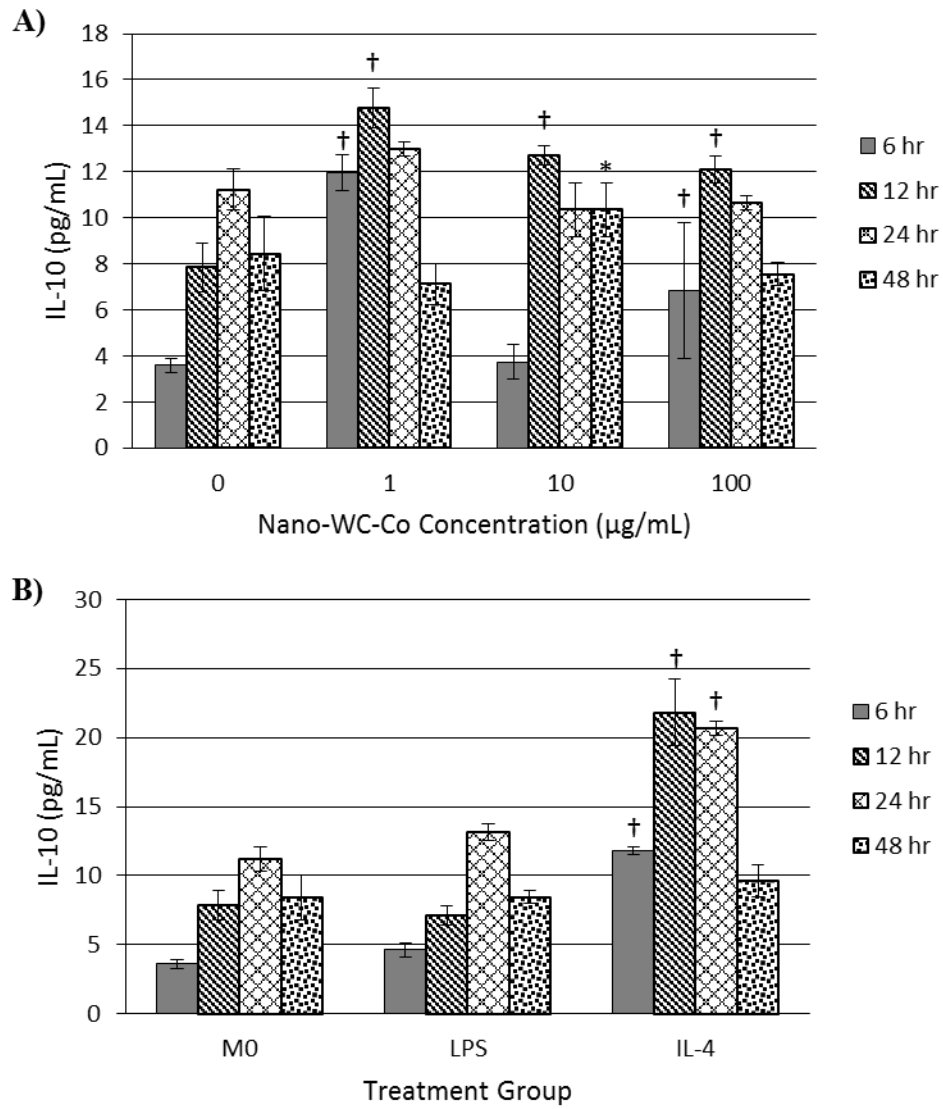


Figure S4. Levels of IL-10 in cell culture supernatants following A) nano-WC-Co exposure and B) M0 (negative control), LPS (100 ng/mL) and IL-4 (20ng/mL) control treatments. (*P < 0.05, †P < 0.01 compared to M0 control)