

Supplementary Information

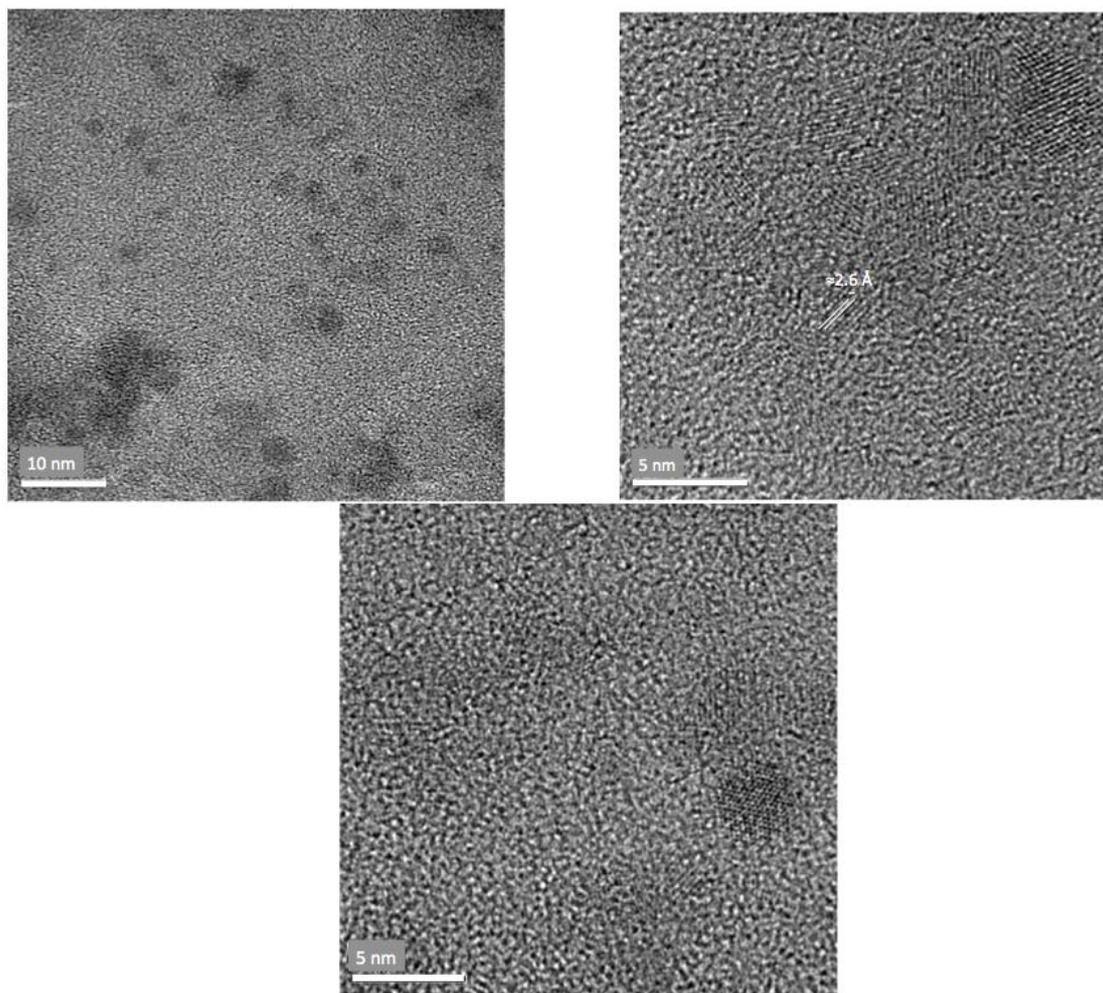


Figure S1. TEM images of fdIONP at different magnifications.

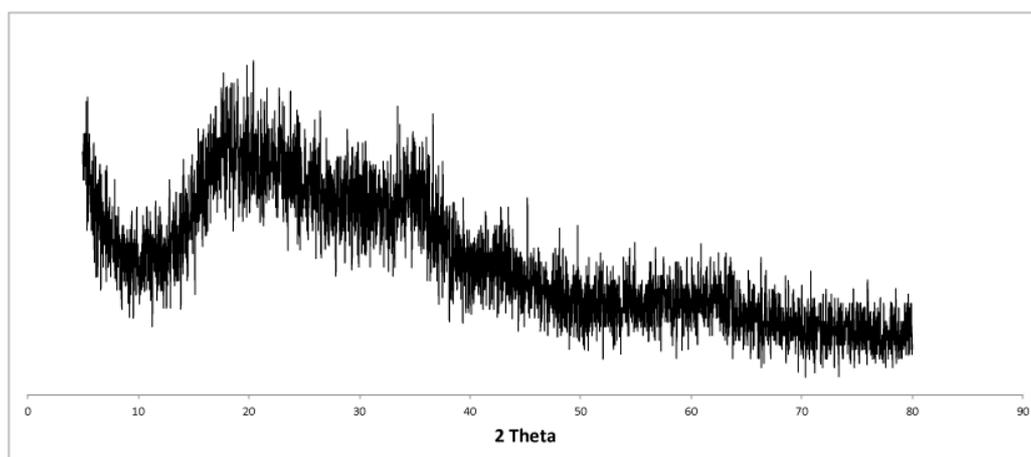


Figure S2. XRD plot for fdIONP.

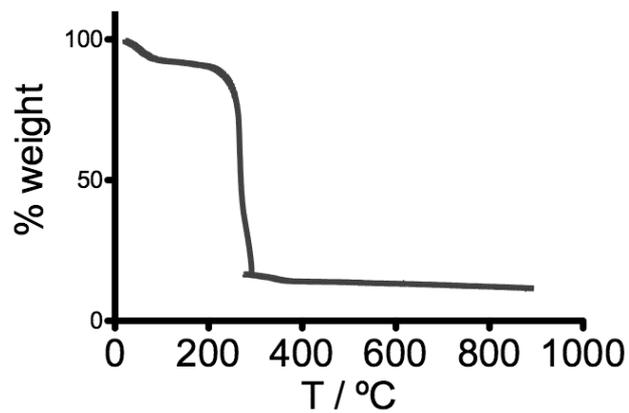


Figure S3. Thermogravimetric curve for fdIONP.

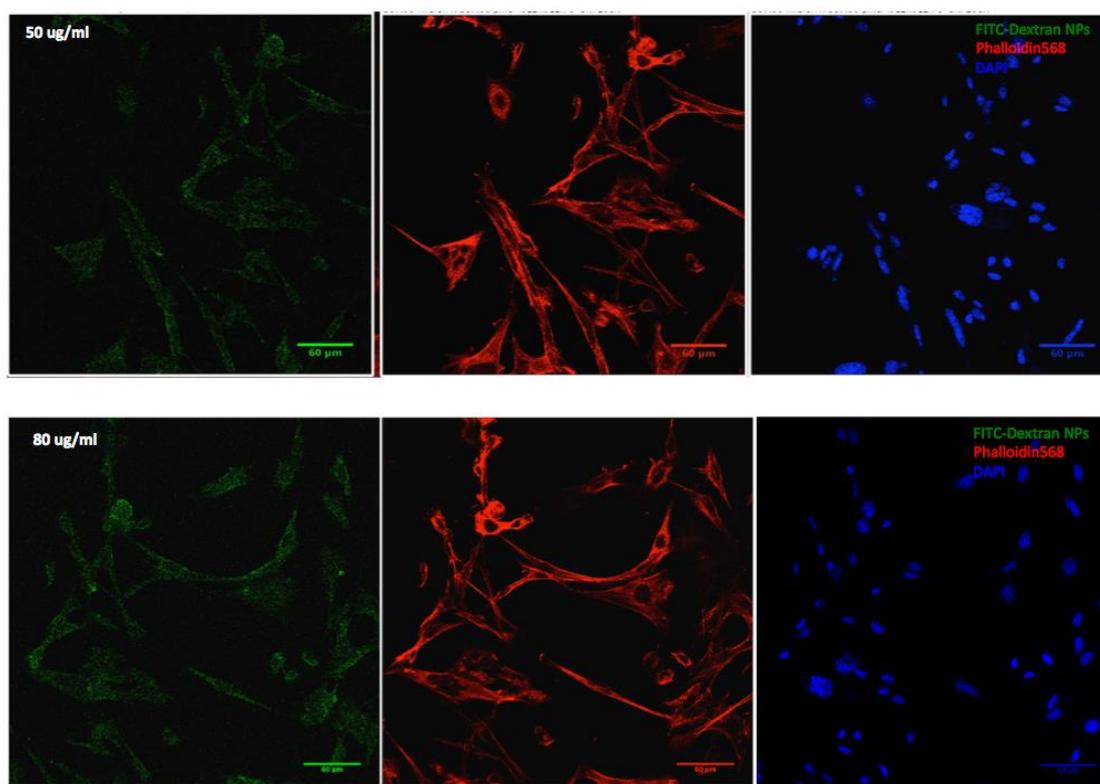


Figure S4. Fluorescent confocal images of fdIONP labelled cells at 50 µg/mL Fe and 80 µg/mL concentration after 24 h of incubation, signal from fdIONP (**green**), phalloidin dye (**red**) and DAPI (**blue**).

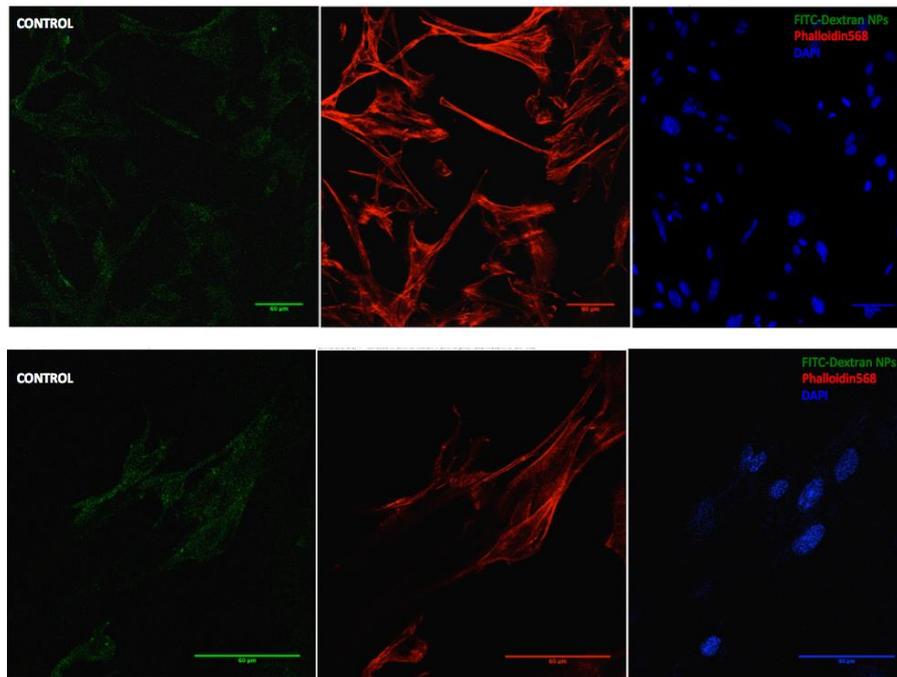


Figure S5. Fluorescent confocal images of fdIONP control cells after 24 h of incubation, signal from fdIONP (**green**), phalloidin dye (**red**) and DAPI (**blue**).

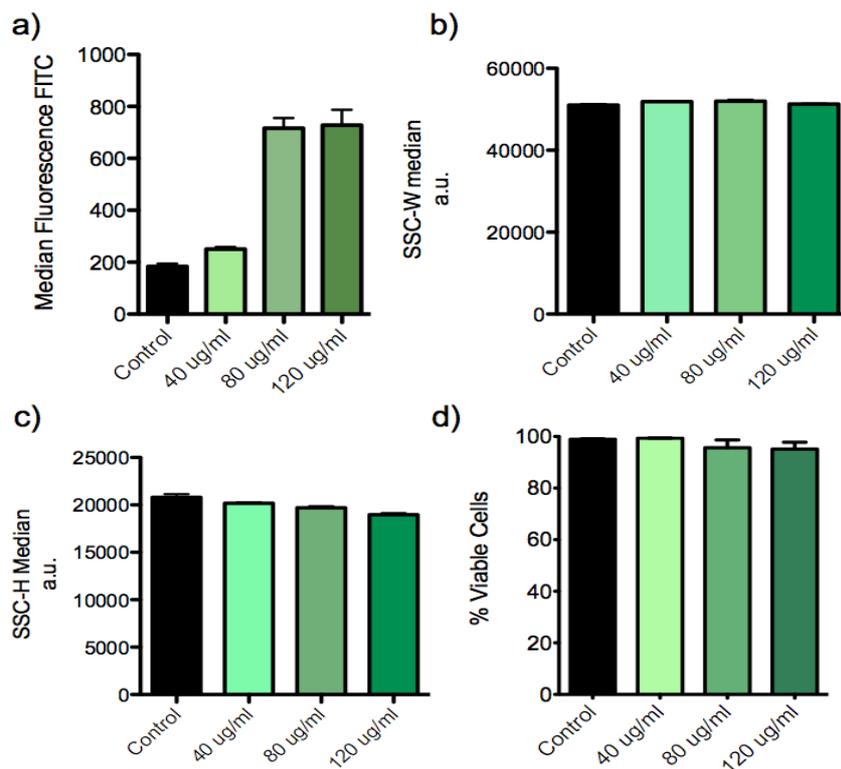


Figure S6. Values for the labelled cells with different concentrations of fdIONP for (a) Median fluorescence; (b) SSC-W; (c) SSC-H and (d) percentage of viable cells.