

Supporting information:

Ultrafine Highly Magnetic Fluorescent γ -Fe₂O₃/NCD Nanocomposites for Neuronal Manipulations

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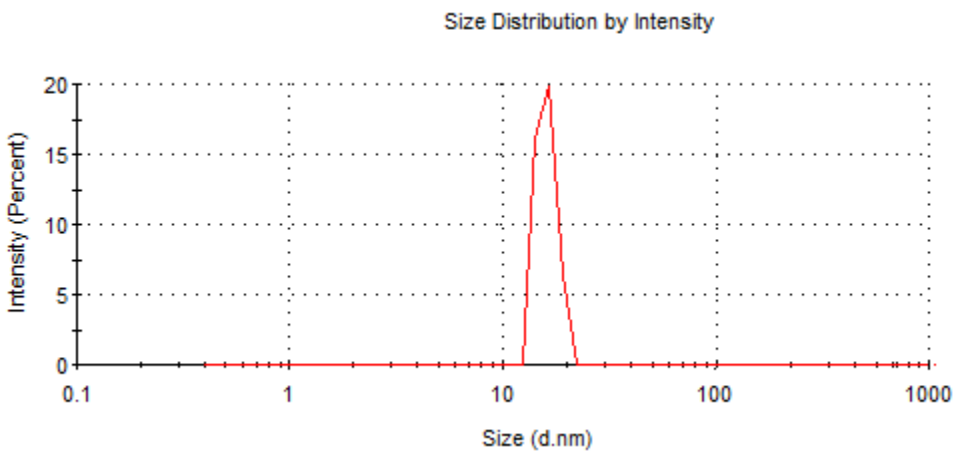


Figure S1: DLS size distribution curves of the γ -Fe₂O₃/NCD hybrid nanocomposites in water.

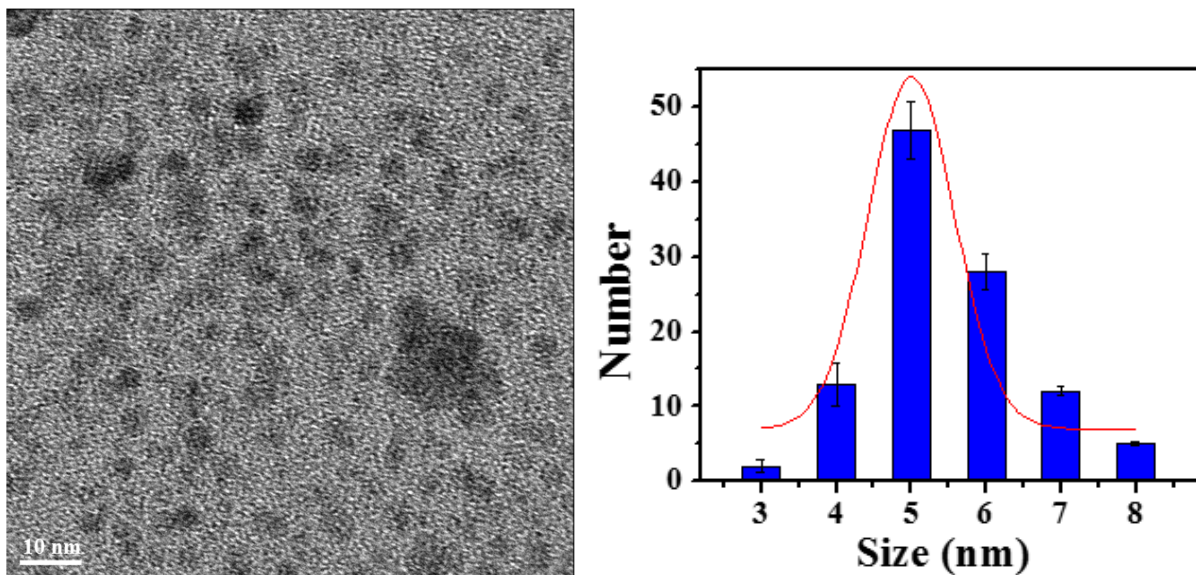


Figure S2: TEM image of NCDs dispersed in isopropanol (b) Size-distribution curve for 200 NCDs that were measured from the TEM image.

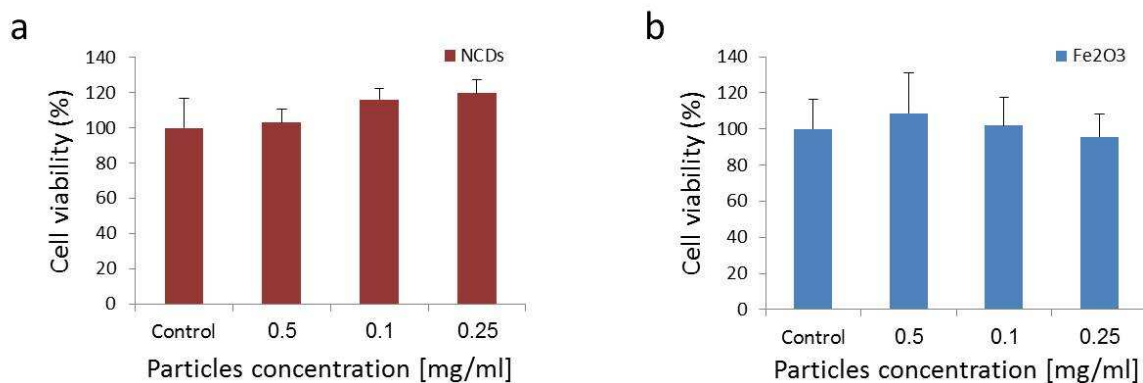
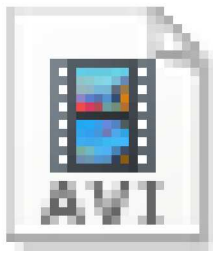


Figure S3: XTT viability assay of cells incubated with increasing concentrations of NCDs (a) and Fe₂O₃ (b) after 24 of incubation ($n = 3$). Results are normalized to control without particles.



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Figure S4: Time-lapse observations demonstrated the movement of the γ -Fe₂O₃/NCD-treated cells towards the magnet