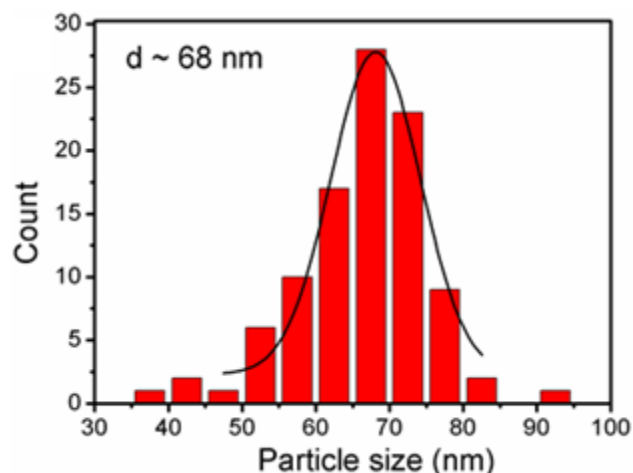


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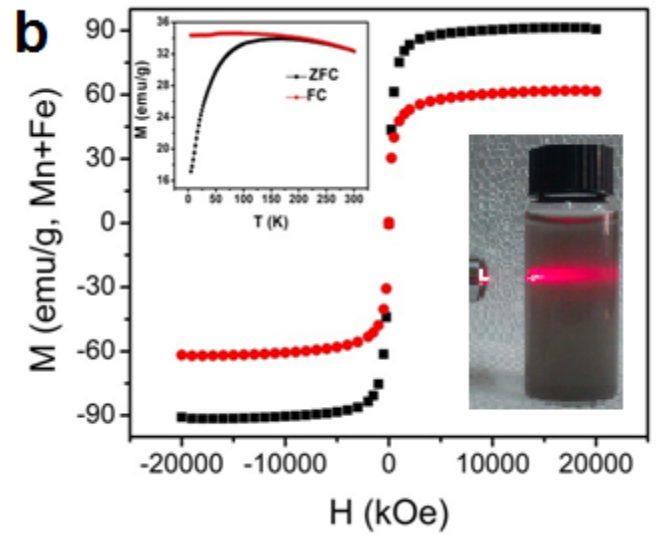
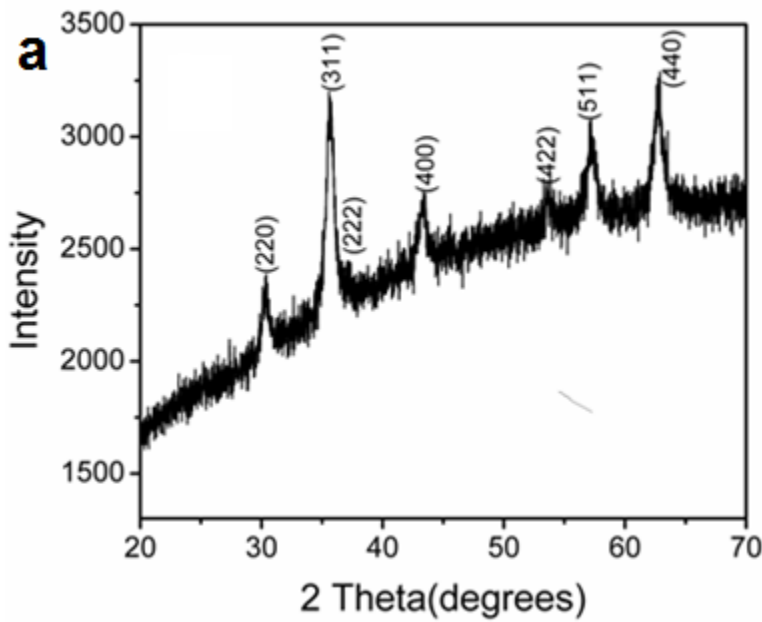
Theranostics fluorescent silica encapsulated magnetic nanoassemblies for *in-vitro* MRI imaging and hyperthermia

Sunil Kumar^a, Amita Daverey^{b,c}, Vahid Khalilzad-Sharghi^d, Niroj K. Sahu^b, Srivatsan Kidambi^c, Shadi F. Othman^d and Dharendra Bahadur^{b*}

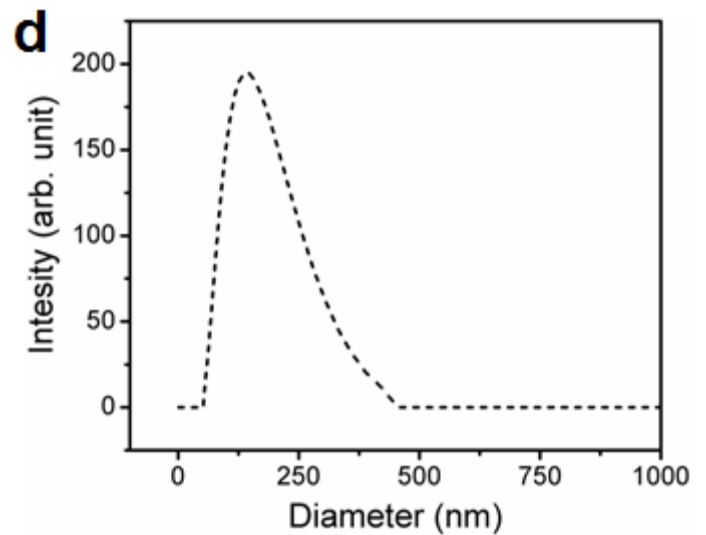
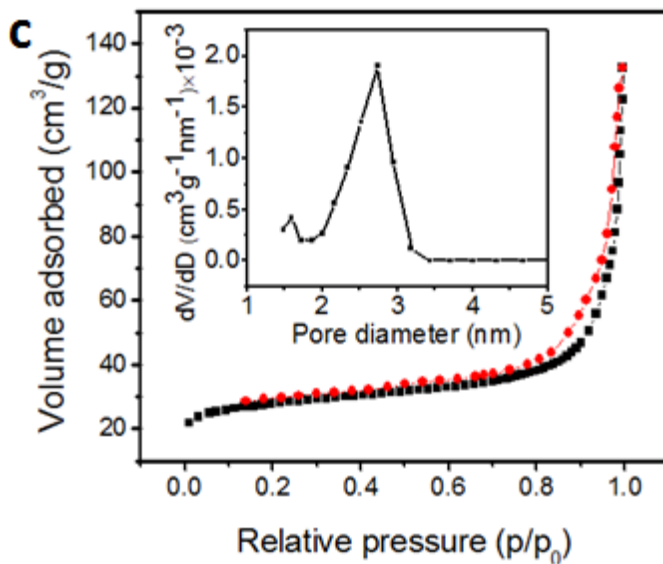
^aDepartment of Chemical Engineering ^bDepartment of Metallurgical Engineering and Materials Science, Indian Institute of Technology Mumbai-400076, India. ^cDepartment of Chemical and Biomolecular Engineering, ^dDepartment of Biological Systems Engineering, University of Nebraska, Lincoln, NE-68588. USA. *E-mail: dhirenb@iitb.ac.in Tel: +91 22 25767632, Fax: +91 22 2576 3480.



S.I. Figure 1. Respective particle size distributions of MNAs@Dye-SiO₂@SiO₂

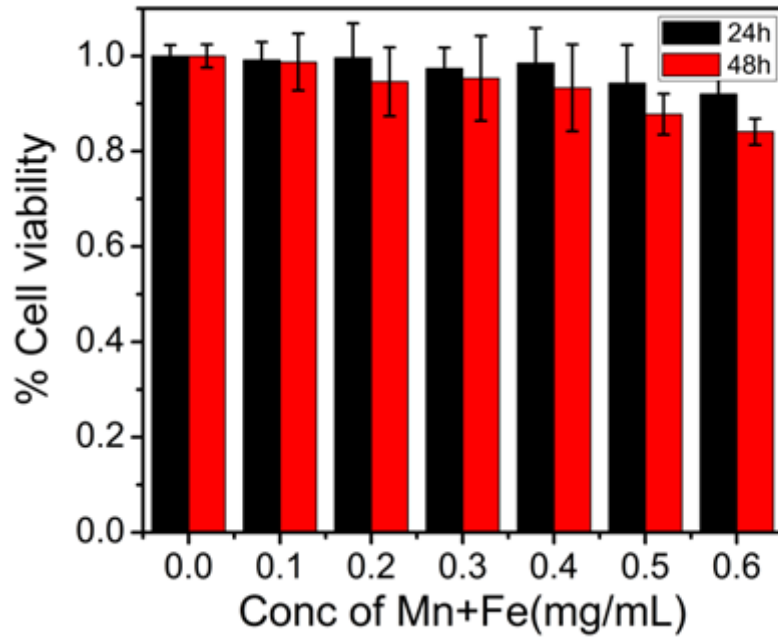


S.I. Figure 2. a) XRD patterns of as-

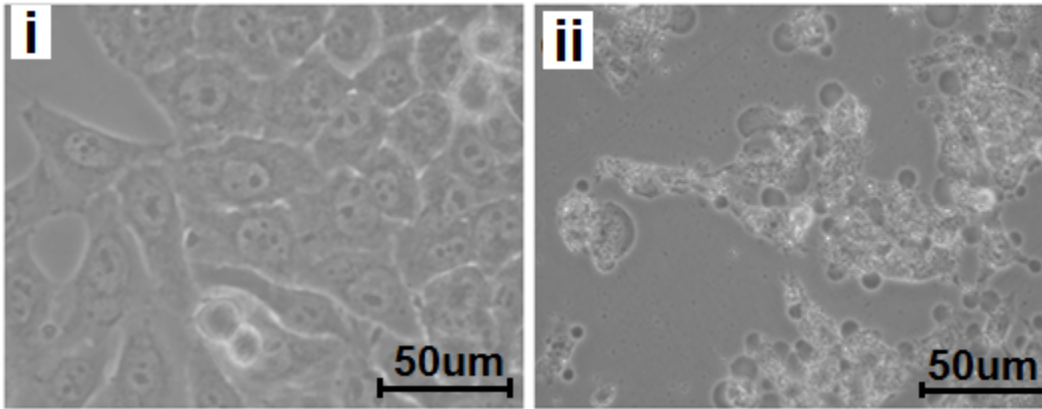


synthesized MNAs. b) M versus H plots of

MNAs. The ZFC-FC plot of MNAs is shown in the inset. c) Nitrogen adsorption/desorption isotherm of as-synthesized MNAs@Dye-SiO₂@SiO₂. The inset of (c) shows the pore size distribution. The square (■) and circle (●) symbols indicate adsorption and desorption branches. d) DLS data of MNAs@Dye-SiO₂@SiO₂.



S.I Figure. 3. *In-vitro* cytotoxicity test of MNAs@Dye-SiO₂@SiO₂. The viability of the HeLa cells was determined by MTT assay after incubation with various concentration of MNAs@Dye-SiO₂@SiO₂ for 24 and 48 h of time period (= 3).



S.I Figure. 4.i)Phase contrast image of control HeLa cells ii) MHT treated HeLa cells.