

Electronic Supplementary Information (ESI)

One-step Facile Synthesis of Highly Magnetic and Surface Functionalized Iron Oxide

Nanorods for Biomarker Targeted Applications

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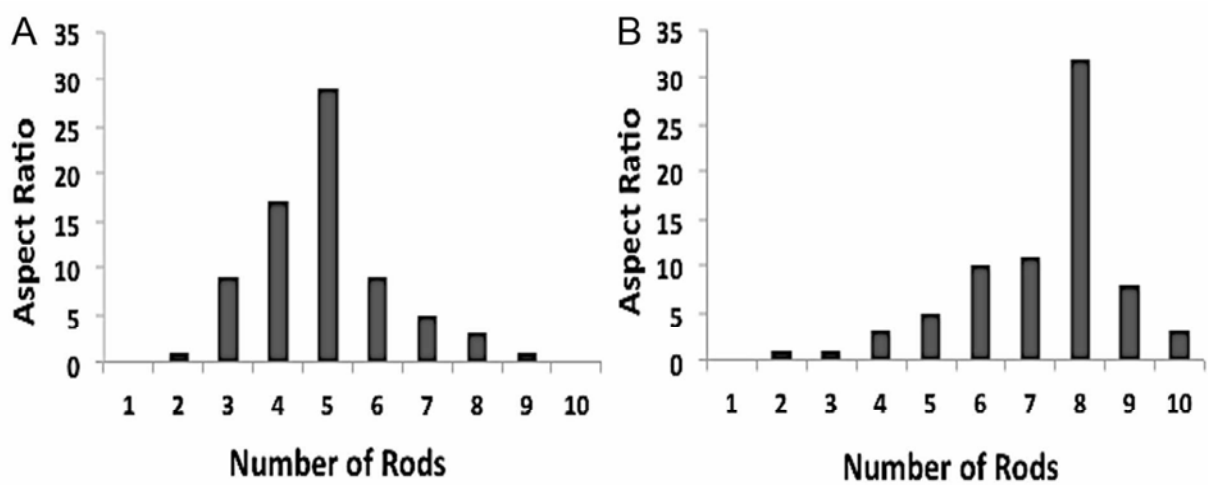


Figure S1. The statistical analysis of the aspect ratio of synthesized, oleylamine-coated (A) 25 nm (in length with a mean length of 25.4 ± 1.9 nm) and (B) 50 nm (in length with mean length of 50 ± 3.2 nm) IONRs, respectively.

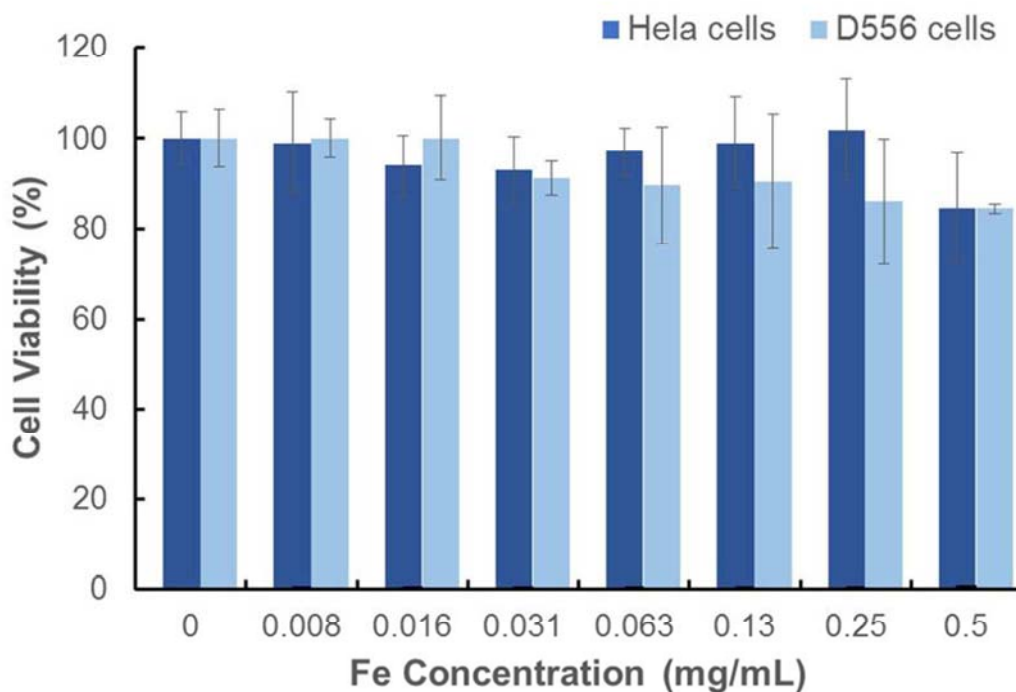


Figure S2. The cytotoxicity tests (MTT assay used) of IONRs after 24 hour incubation with HeLa cells and D556 cells. Cell viability was estimated using the MTT conversion test using a total of 10^4 HeLa cells or D556 cells, respectively, with IONRs in the concentration range of 0.008-0.5 Fe mg/mL). Absorbance at 570 nm was measured on a plate reader. Readings from 6 wells were averaged, and 100% viability was determined for untreated cells. Comparisons of the cell viability with different Fe concentrations with control were performed using one-way analysis of variance and the student t test (unpaired, two tails).