

Supplementary information

ESR as a monitoring method of the interactions between TEMPO-functionalized magnetic nanoparticles and yeast cells

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The magnetic nanoparticles studied were characterized using Fourier transform infrared (FTIR) spectroscopy, X-ray diffractometry (XRD), transmission electron microscopy (TEM) and energy dispersive X-ray (EDX) spectroscopy.

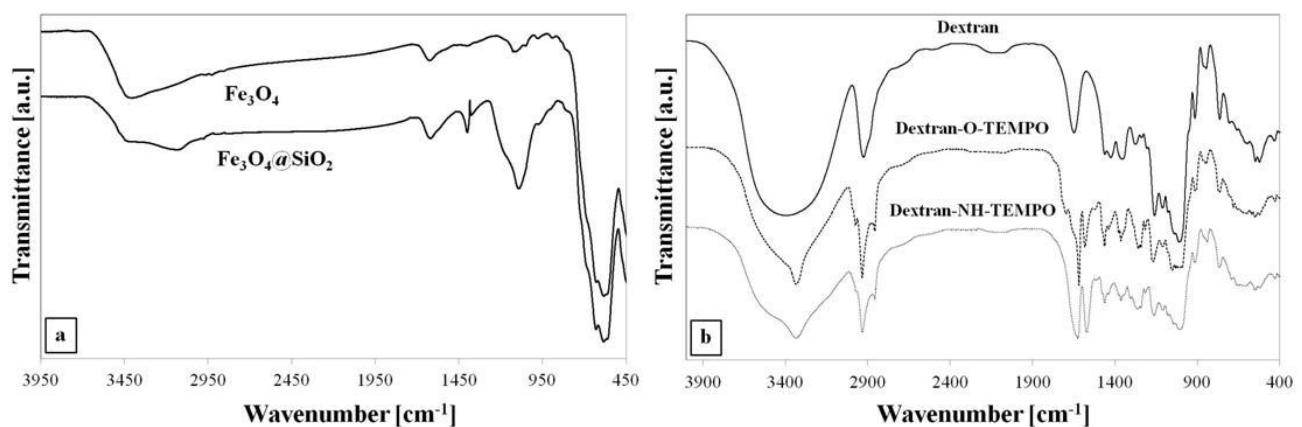


Fig. S1. FTIR spectra of Fe_3O_4 and $\text{Fe}_3\text{O}_4@\text{SiO}_2$ (a), Dextran and Dextran-NH (or O)-TEMPO (b)

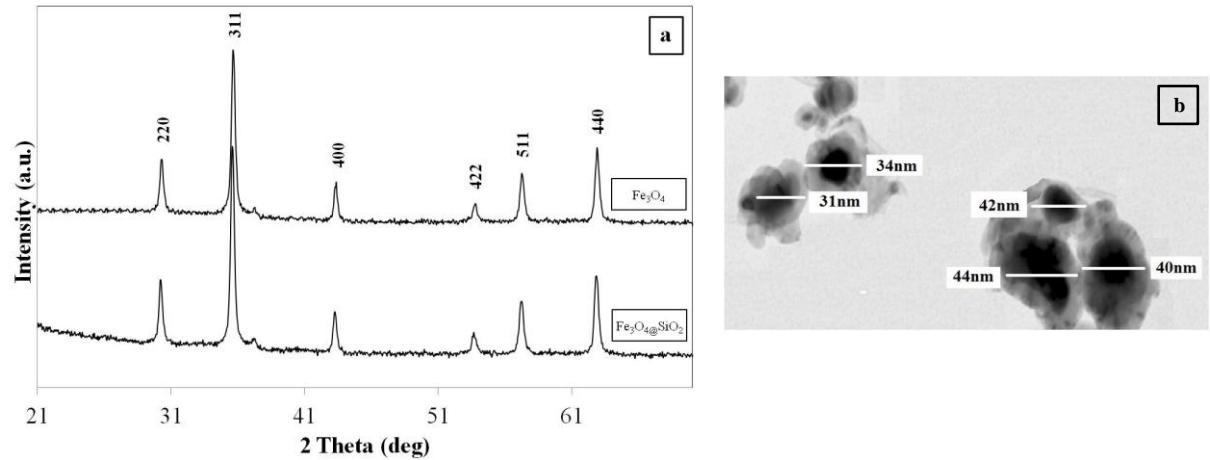


Fig. S2. XRD pattern (a) and TEM image (b) of $\text{Fe}_3\text{O}_4@\text{SiO}_2$

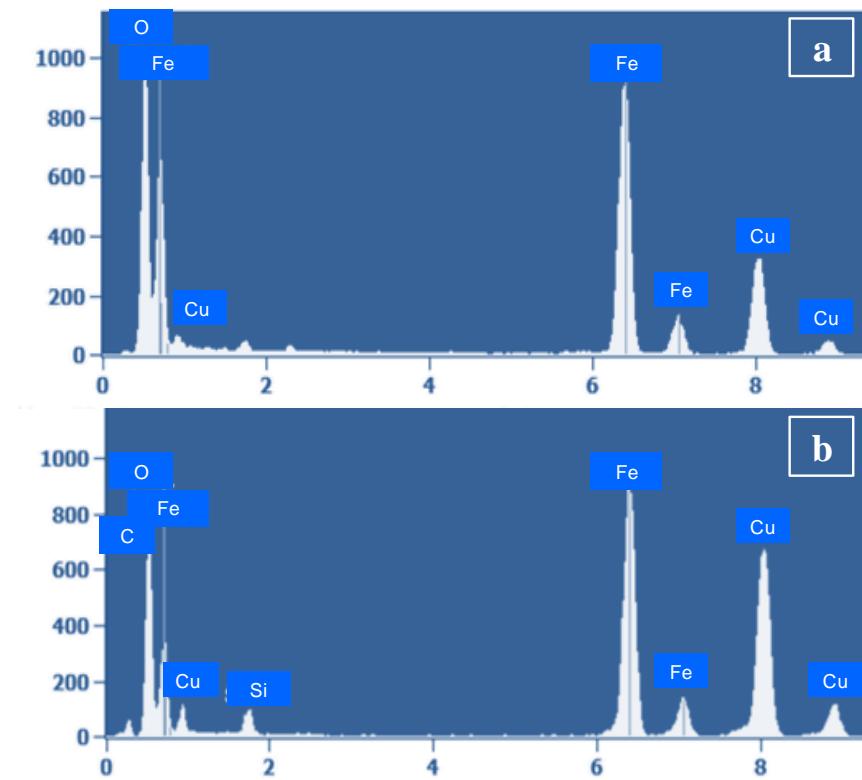


Fig. S3. EDX patterns of Fe_3O_4 (a) and $\text{Fe}_3\text{O}_4@\text{SiO}_2$ (b)