Supporting Information

John et al. 10.1073/pnas.0913679107

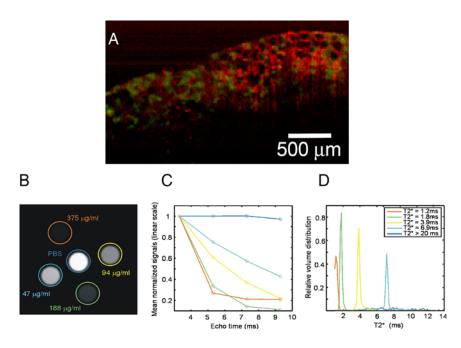


Fig. S1. (*A*) Magnetomotive optical coherence tomography (MM-OCT) image of a mammary tumor soaked in 1 mg/mL solution of dextran-coated MNPs for 1 h. MM-OCT signal (green channel) is superposed over the structural optical coherence tomography image (red channel). (*B*) A transverse slice from an MRI 3D dataset of vials containing different concentrations of MNPs in PBS solution. (*C*) Normalized signal decay curves vs. echo time. (*D*) Corresponding plot of T2* values present within the segmented 3D volumes marked in *B*. MRI was performed on a 14-T system. (Note that the decay curve for the pure PBS is too gradual to enable an accurate measurement for T2*.)

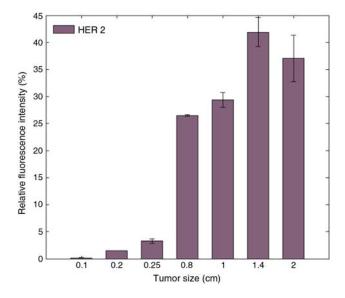


Fig. S2. Tumor marker expression levels in MNU-induced rat mammary tumor model. Quantitative analysis of relative fluorescence intensity from fluoroimmunostained tumor sections show *HER2* expression levels vs. tumor size. The error bars represent standard deviations from mean values.