Electronic Supplemental Information (ESI)

Synthesis and Characterization of Si_M-C_3-NH_2 and Si_M-C_3-NH_2-Dex (M = 0, Mn, Fe) – The amine terminated particles and their dextran coated analogues were synthesized as outlined in our previous publications.[1-3] The Si_M-C_3-NH_2were analyzed by transmission electron microscopy (TEM) while dynamic light scattering (DLS) was used to analyze the dextran coated analogues Si_M-C_3-NH_2-Dex. The TEM images for Si_M-C_3-NH_2 can be found in our earlier publications. The silicon nanoparticles Si-C_3-NH_2have a core diameter of 3.9±1.3nm[1] as determined by TEM while the dextran coated silicon nanoparticles Si-C_3-NH_2-Dex have a hydrodynamic diameter of 7.6±1.0 nm as determined by DLS (Figure S1). The TEM and DLS data for Si_{Mn}-C_3-NH_2 and Si_{Mn}-C_3-NH_2-Dex is published and can be found elsewhere.[2, 3] The core diameter for Si_{Fe}-C_3-NH_2 is measured to be 2.99±0.99 nm while the dextran coated analogue Si_{Fe}-C_3-NH_2-Dex have a diameter of 8.81±0.70 nm (Figure S2).

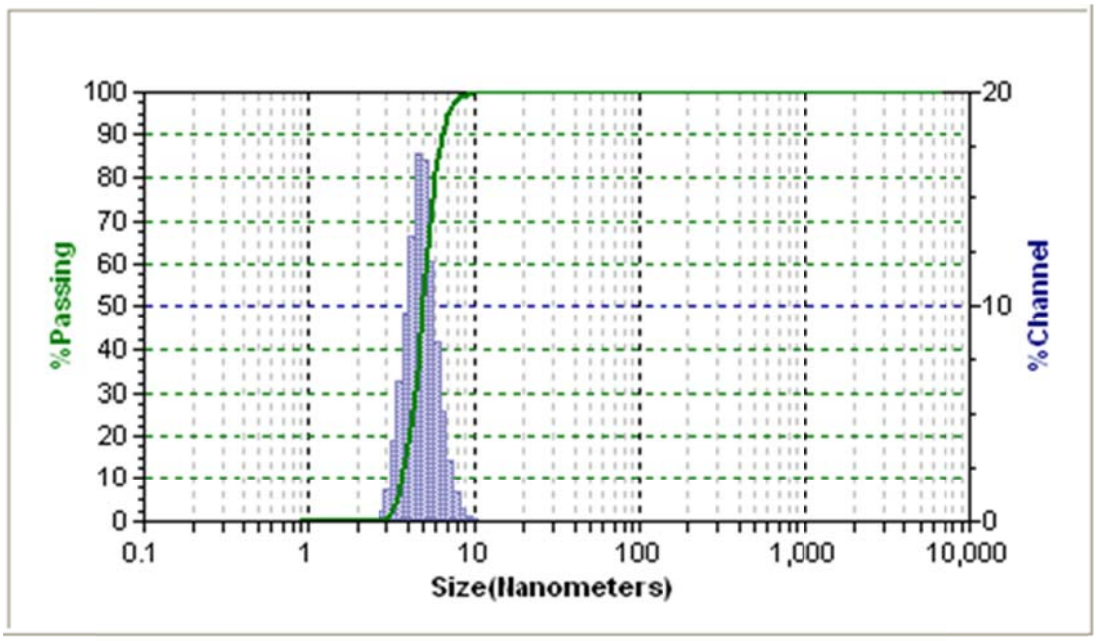

Figure S1: DLS of dextran coated silicon nanoparticles Si-C_3-NH_2-Dex.

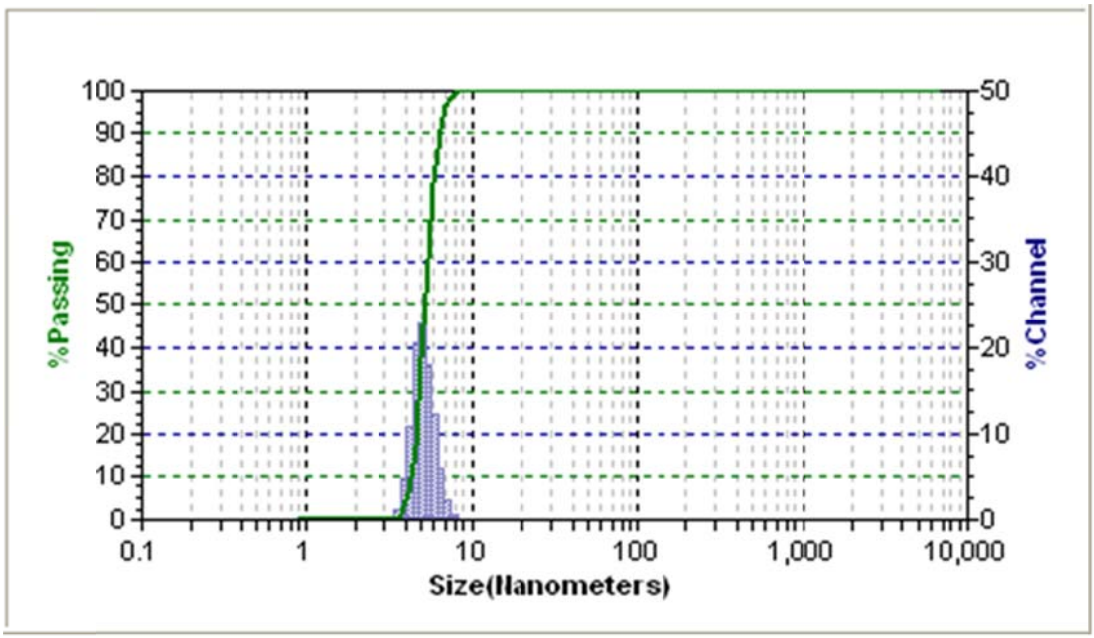

Figure S2: DLS of dextran coated iron doped silicon nanoparticles Si_{Fe}-C_3-NH_2-Dex.

References:

1. X. M. Zhang, D. Neiner, S. Z. Wang, A. Y. Louie and S. M. Kauzlarich, *Nanotechnology*, 2007, **18**.
2. C. Q. Tu, X. C. Ma, P. Pantazis, S. M. Kauzlarich and A. Y. Louie, *J. Am. Chem. Soc.*, 2010, **132**, 2016-2023.
3. C. Tu, X. Ma, A. House, S. M. Kauzlarich and A. Y. Louie, *ACS Med. Chem. Lett.*, 2011, **2**, 285-288.