Electronic Supplementary Information

Near-infrared photoluminescence enhancement of N-Acetyl-L-Cysteine (NAC)-protected gold nanoparticles via fluorescence resonance energy transfer from NAC-stabilized CdTe quantum dots

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Fig. S1 Absorption of 0.01 mg/mL 2.4 nm Au NPs (peak 1) and absorption comparison of 1.25 × 10^{-4} mol/L green CdTe QDs (peak 2) to (1.25 × 10^{-4} mol/L green CdTe QDs + 0.01 mg/mL 2.4 nm Au NPs) mixture (peak 3) and to mixture of (1.25 × 10^{-4} mol/L green CdTe QDs + 0.01 mg/mL 2.4 nm Au NPs) after substraction of spectrum of 0.01 mg/mL 2.4 nm Au NPs absorption (peak 4).
Fig. S2 Fluorescence spectra of two simultaneous solutions in two paratactic quartz cells: green CdTe QDs (1.25 × 10^{-5} mol/L) solution and blank 0.1 mol/L PBS (peak 1), CdTe (1.25 × 10^{-5} mol/L) solution and 2.4 nm Au NPs (0.5 × 10^{-3} mg/mL) solution in PBS (peak 2) and (green CdTe QDs and 2.4 nm Au NPs) mixture and Au NPs solution (peak 3).