

Supporting Information

Preparation of Novel Fluorescent Nanocomposites Based on Au Nanoclusters and Their Application in Targeted Detection of Cancer Cells

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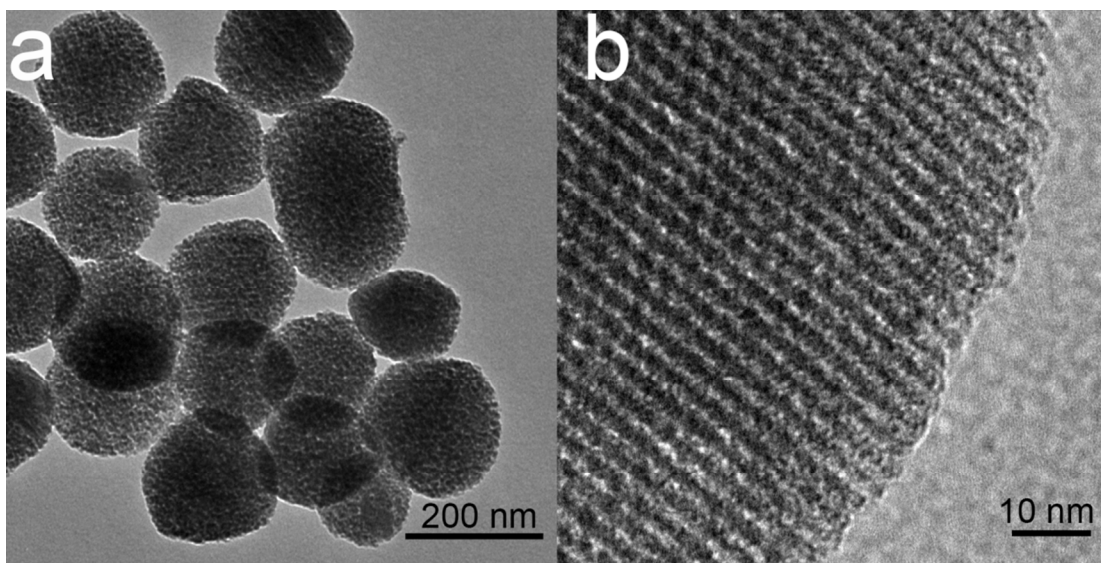


Figure S1. TEM images of mSiO₂ nanospheres (a) and their mesoporous structure as characterized by HRTEM (b).

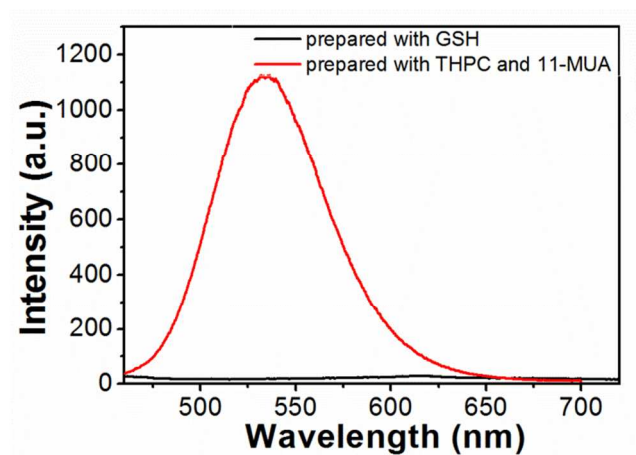


Figure S2. Fluorescence spectra of nanocomposites prepared with GSH under 420 nm excitation (black line), and with THPC and 11-MUA under 370 nm excitation (red line).

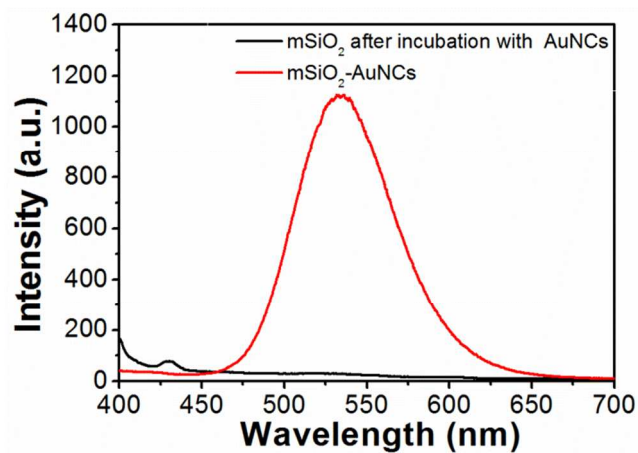


Figure S3. Fluorescence spectra of nanoparticles after incubation with free AuNCs (black line) and mSiO₂-AuNCs (red line) for 48 h, respectively. The excitation wavelength was 370 nm.

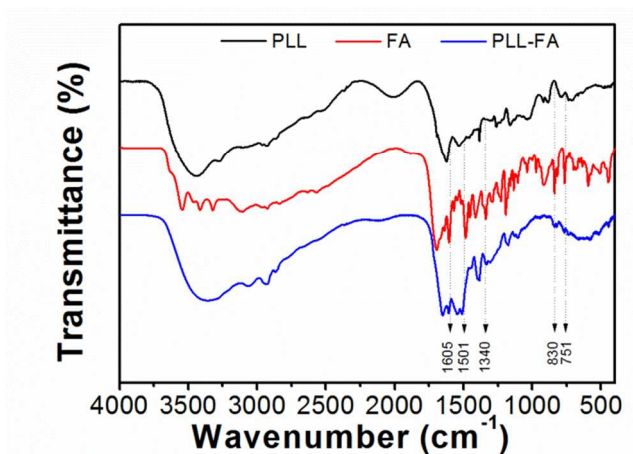


Figure S4. FT-IR spectra of PLL, FA and PLL-FA.

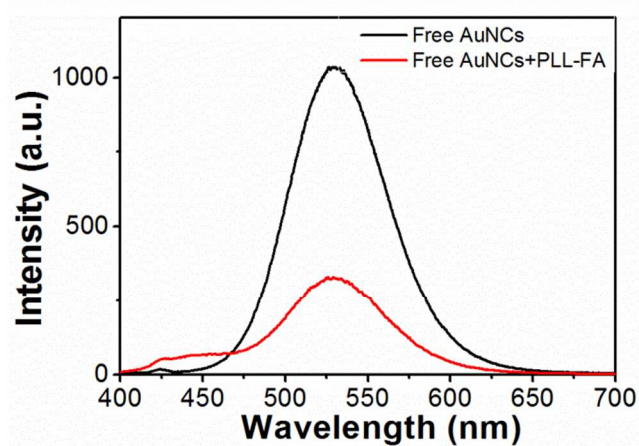


Figure S5. Fluorescence spectra of Free AuNCs before and after adding PLL-FA, respectively. The excitation wavelength was 370 nm.

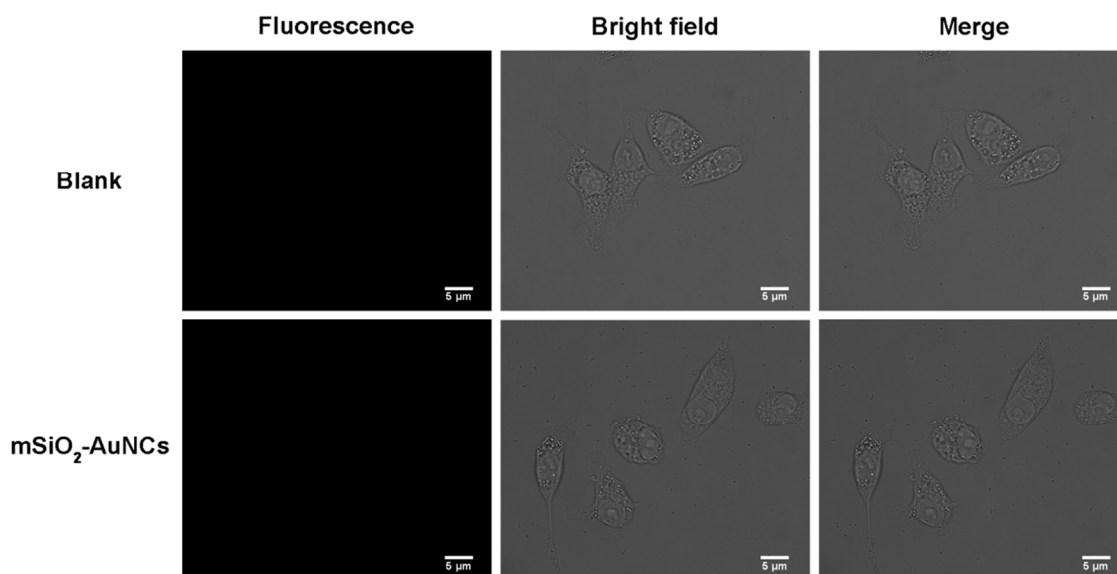


Figure S6. Fluorescence, bright field and overlay images of KB cells after incubation with mSiO₂-AuNCs nanocomposites for 2 h. Scale bars: 5 μ m.