**Interaction of Gold Nanocluster with IR Light Emitting Cyanine Dye: A Systematic Fluorescence Study**

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Figure S1. MALDI-TOF mass spectra of BSA (a) and BSA–Au NCs (b).
Figure S2. UV-visible spectra of Au NCs in absence and presence of HITC P (a), DTTC I (b), and IR 144 (c).
Figure S3. Emission spectra of BSA in the presence of different concentrations of cyanine dyes; (a) HITC P, (b) DTTC I, (c) IR 144 in pH 7.4 at 298 K.
**Figure S4.** $F_0/F$ vs concentration of quencher plot; (a) HITC P, (b) DTTC I, (c) IR 144 with BSA protein at pH 7.4.