## **SUPPORTING INFORMATION**

## Multifunctional Core-shell Nanoparticles as Highly Efficient Imaging and Photosensitizing Agents

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## **Supplementary Data**



Figure S1. Absorption spectra of  $HP@SiO_2$  nanoparticles and HP in homogenous solution before addition of ABMD.



**Figure S2.** Emission spectra of FITC and FITC doped silica nanoparticles with same concentrations of FITC in water solution.



**Figure S3.** Fluorescence lifetime decay of FITC and FITC@SiO<sub>2</sub> with same FITC concentration  $(2 \times 10^{-6})$  in water at 530 nm.



**Figure S4.** Fluorescence spectra of  $FITC@SiO_2@HP$  under 480 nm excitation after different periods of irradiation with a 633 nm laser beam.