Supporting Information

A Facile Synthesis of Strong Near Infrared Fluorescent Layered Double Hydroxide Nanovehicles with Anticancer Drug for Tumor Optical Imaging and Therapy

Chunping Chen,[a] *Lee Kim Yee,*[b] *Hua Gong,*[a] *Yong Zhang,*[b] *Rong Xu*[a]*

[a]School of Chemical and Biomedical Engineering, Nanyang Technological University, 62, Nanyang Drive, Singapore 637459.

[b]Division of Bioengineering, Faculty of Engineering, National University of Singapore, 117574.

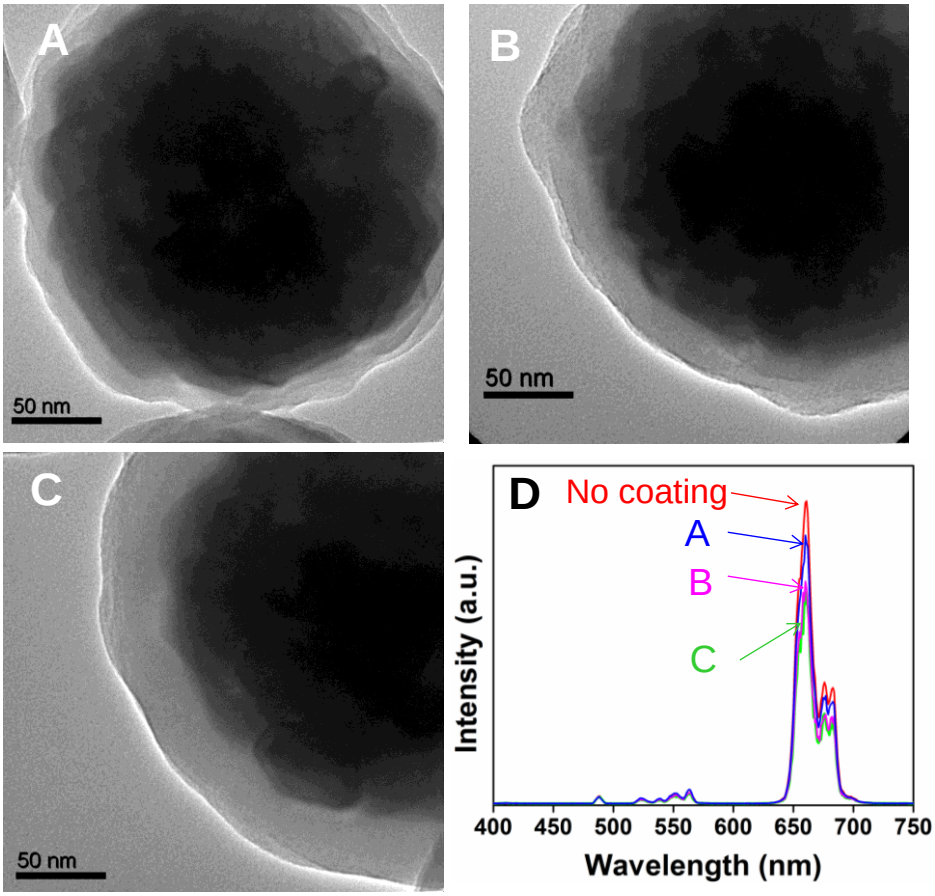

Fig. S1 TEM images of Y_2O_3:Er^{3+},Yb^{3+}@SiO_2 synthesized by using different amount of TEOS, (A) 0.161 mL, (B) 0.323 mL and (C) 0.645 mL and (D) up-conversion emission spectra of the corresponding samples shown in A-C, and pristine Y_2O_3:Er^{3+},Yb^{3+} without SiO_2 coating.

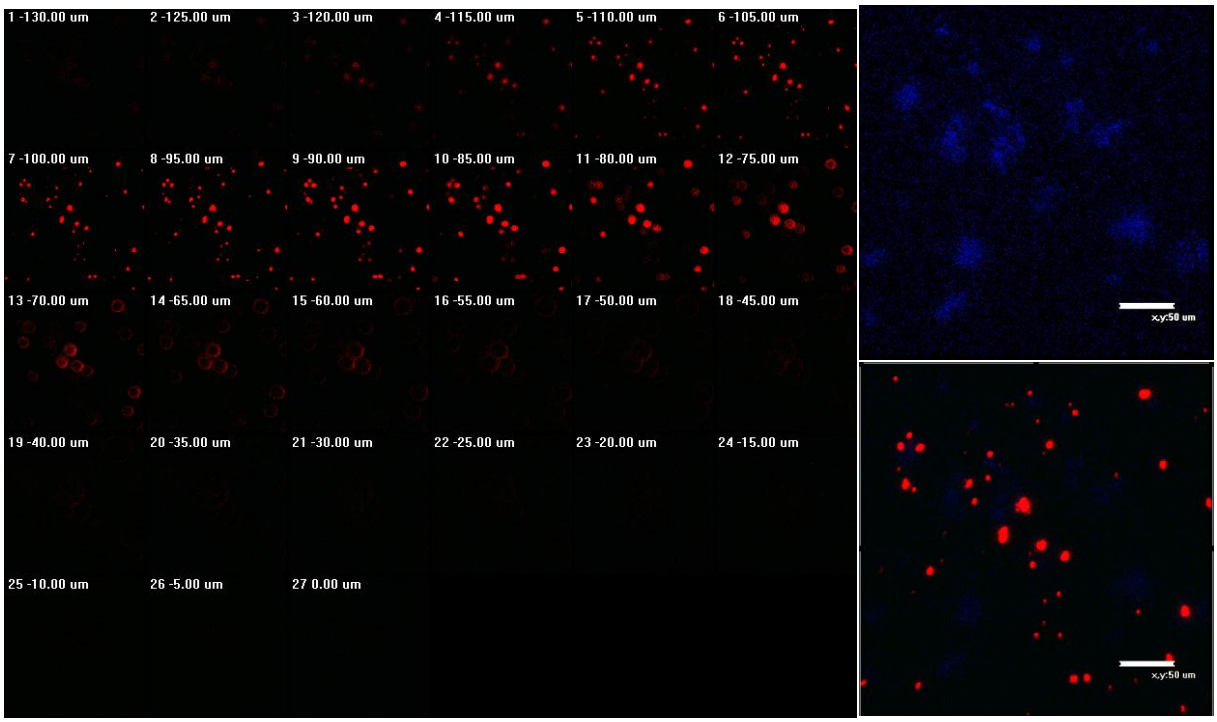

Fig. S2 Confocal scanning laser microscopy image (Z stack) of MCF-7 cells incubated with Y_2O_3:Er^{3+},Yb^{3+}@SiO_2@LDH-5FU at 100 μg mL^{-1} for 30 min.

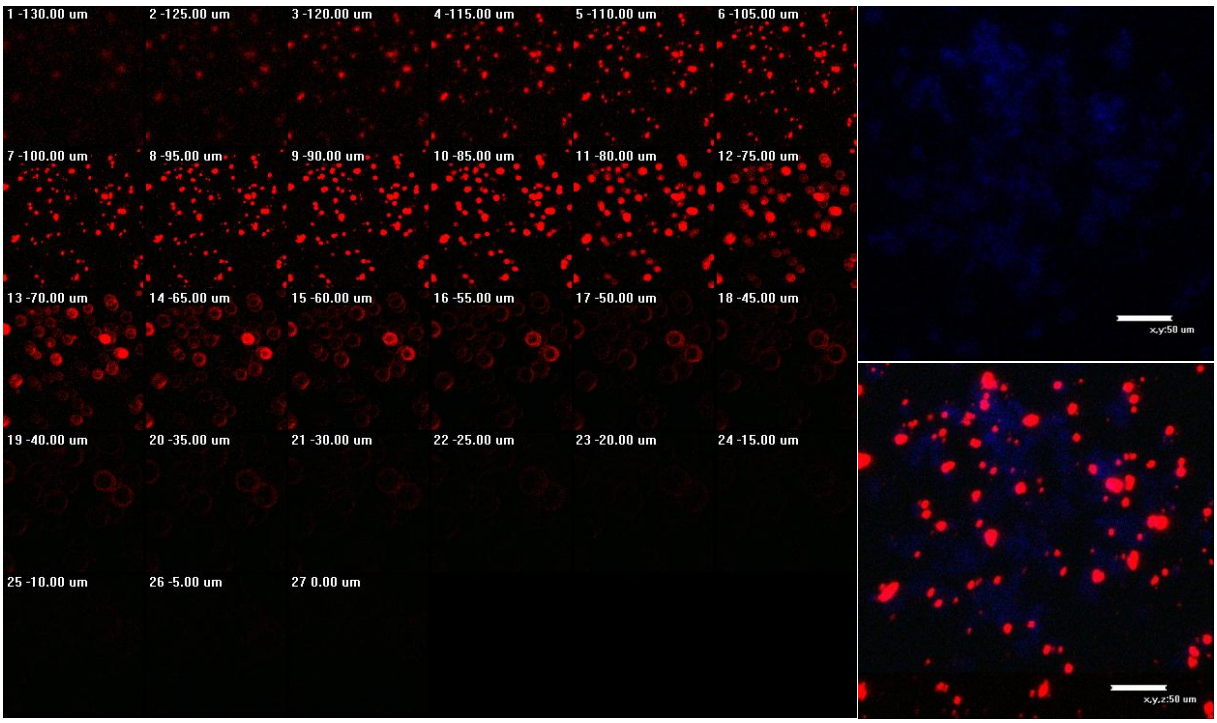

Fig. S3 Confocal scanning laser microscopy image (Z stack) of MCF-7 cells incubated with Y_2O_3:Er^{3+},Yb^{3+}@SiO_2@LDH-5FU at 100 μg mL^{-1} for 24 h.