Supporting Information

Flower-Like Gold Nanoparticles for Enhanced Photothermal Anticancer Therapy by the Delivery of Pooled siRNAs to Inhibit Heat Shock Stress Response

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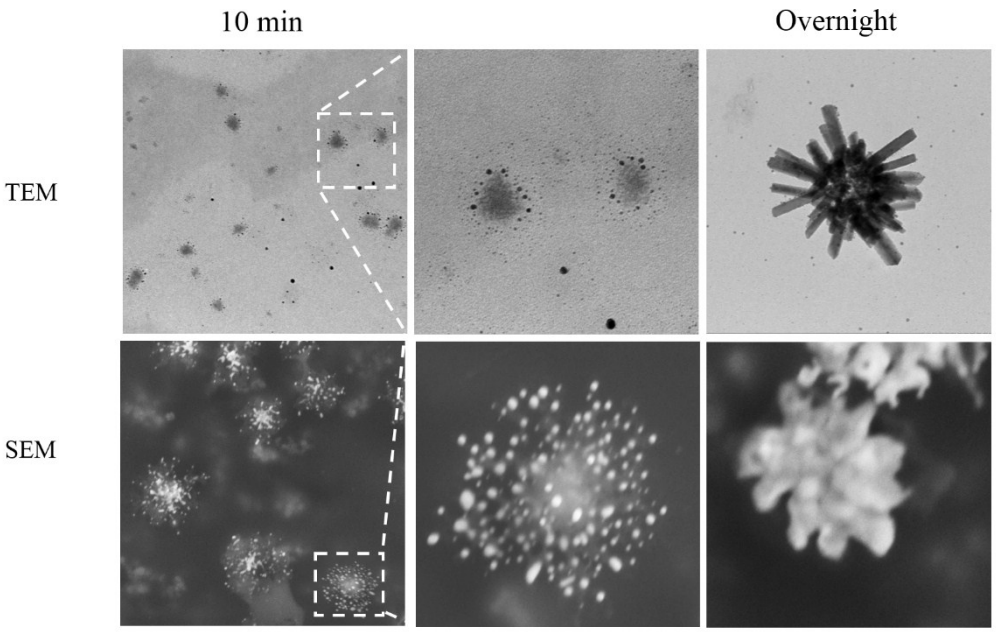

Fig. S1 TEM and SEM images of gold nanoflowers (GNFs) taken at different reaction time.

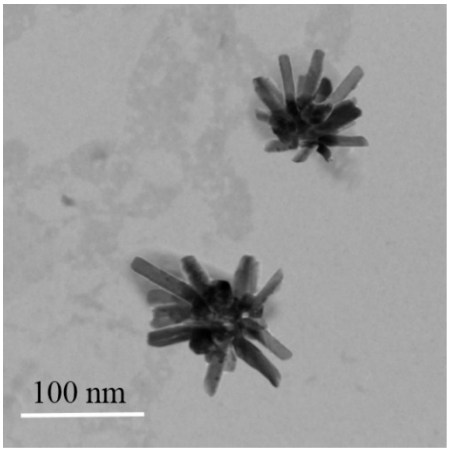

Fig. S2 Transmission electron microscopy (TEM) images of Chit/PSS/CTAC-GNFs. Scale bars, 100 nm.

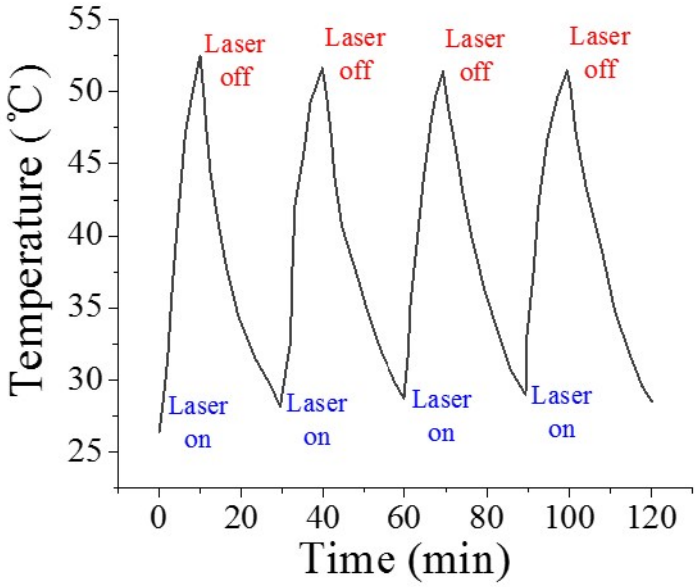

Fig. S3 Recycling heating profile of GNFs-siRNA under NIR laser irradiation (750 nm, 10 min) for four laser on/off cycles.

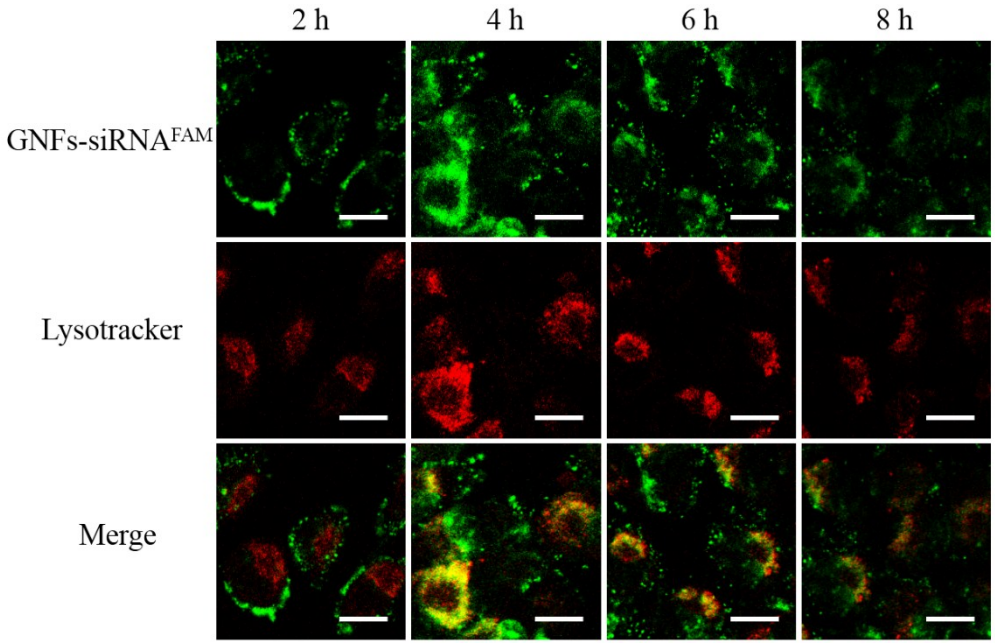

Fig. S4 Time-dependent confocal microscopy of GNF-siRNA^{FAM} successfully escaped from endosomes/ lysosomes. Endo-lysosomes structure was labeled by LysoTracker in red; GNF-siRNA was labeled by FAM in green. Scale bars, 10 μm.

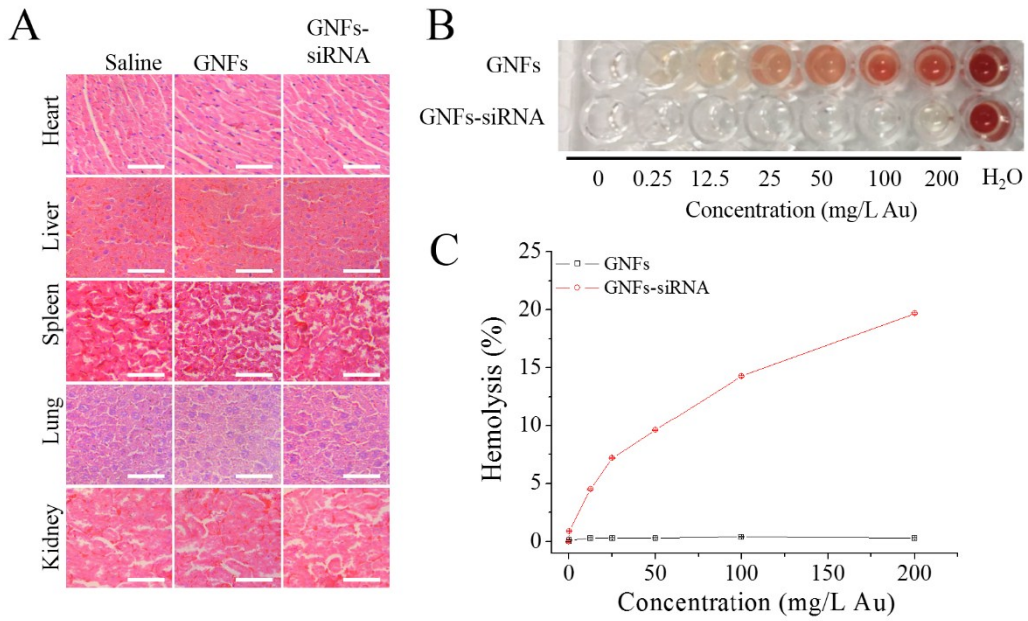

Fig. S5 (A) H&E images of major organs collected from bearing mice 21 days after intravenous injection of Saline, GNFs, or GNFs-siRNA. Scale bars, 50 μm. (B) Digital images showing hemolysis of human red blood cells after incubation with various concentration of GNFs, or GNFs-siRNA for 2 h at 37 °C. (C) Corresponding quantitative analysis of hemolysis of human red blood cells.