

***Supporting information***

**Trimodal Magnetic Navigation-Enhanced Nanoplatform for  
Spatiotemporally Controlled Chemo-Photodynamic  
Synergistic Cancer Therapy**

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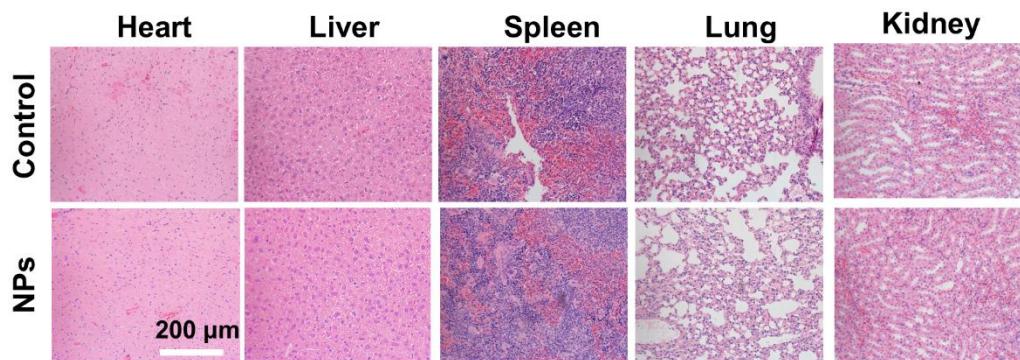
Prof. Min Liu, Email: liumin05162022@126.com;

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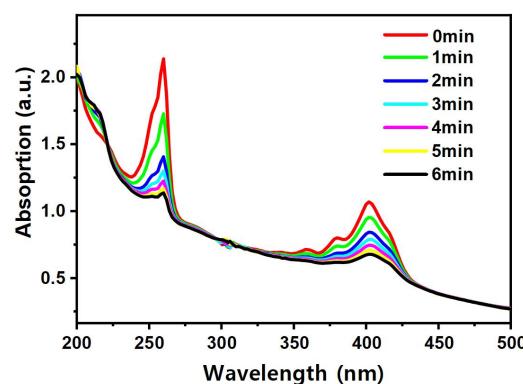
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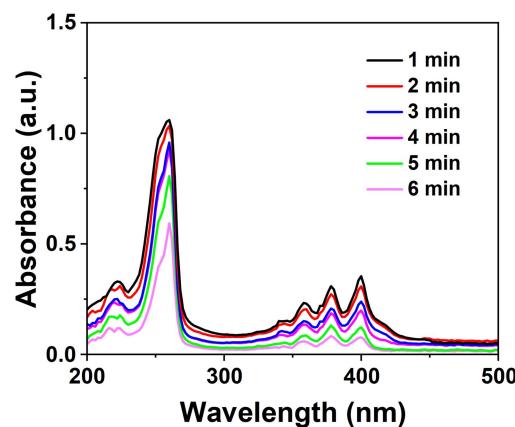
## 1. Supplementary figures



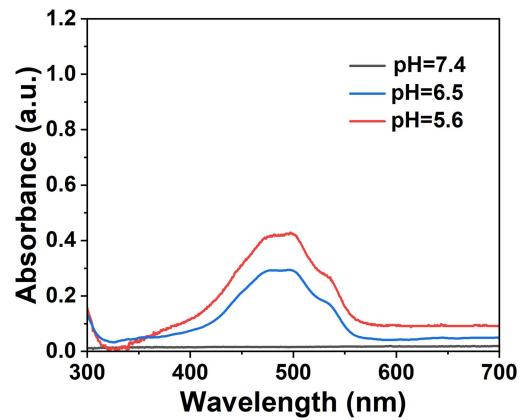
**Figure S1.** H&E staining images of mouse organs with different treatments after 60 days.



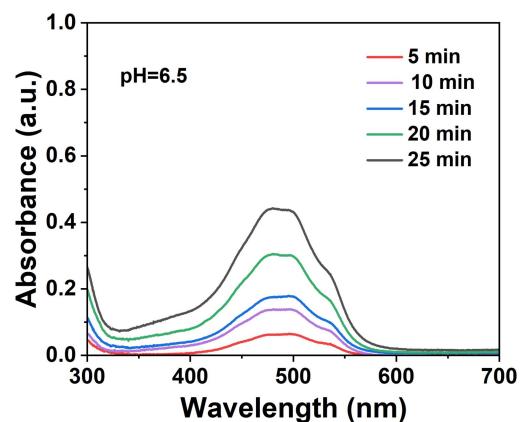
**Figure S2.** UV-vis absorption spectra of singlet oxygen probe (ABDA) in the presence of  $\text{Fe}_3\text{O}_4@\text{Ce}6\text{-DOX}$ .



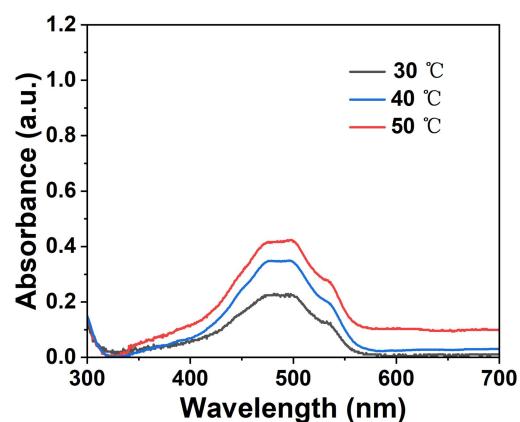
**Figure S3:** UV-vis absorption spectra of singlet oxygen probe (ABDA) in the presence of free Ce6.



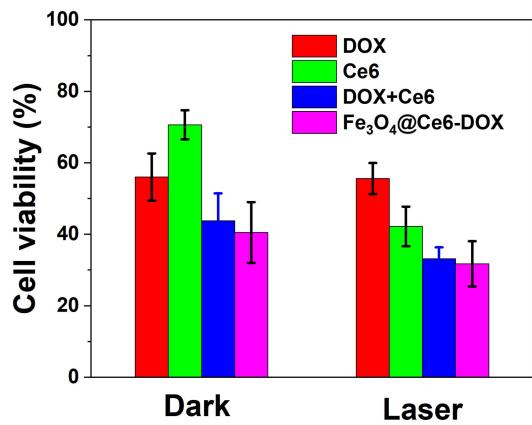
**Figure S4:** Absorption spectra of  $\text{Fe}_3\text{O}_4@\text{Ce6-DOX}@\text{liposome}$  under different pH conditions.



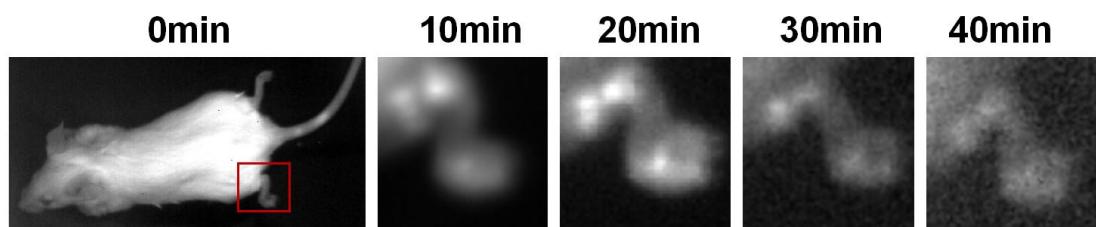
**Figure S5:** Absorption spectra of  $\text{Fe}_3\text{O}_4@\text{Ce6-DOX}@\text{liposome}$  release over time at pH 6.5.



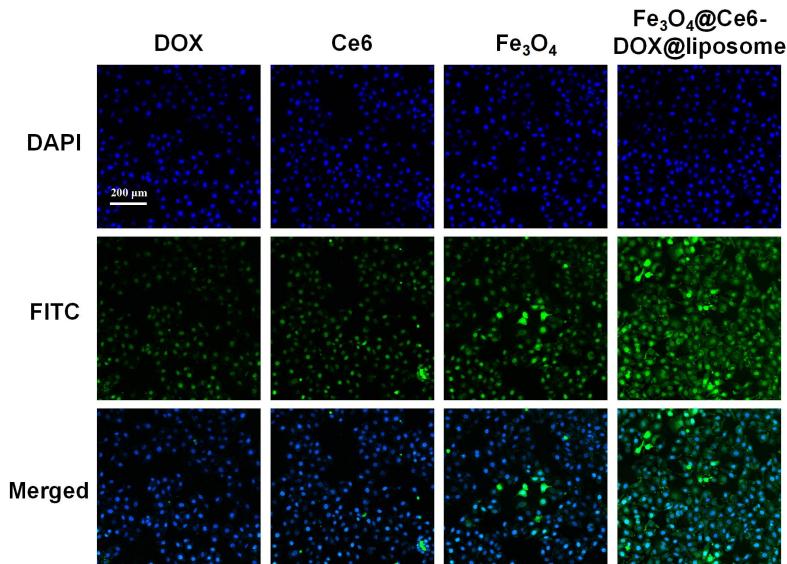
**Figure S6:** Absorption spectra of  $\text{Fe}_3\text{O}_4@\text{Ce6-DOX}@\text{liposome}$  release as a function of temperature at pH 5.6.



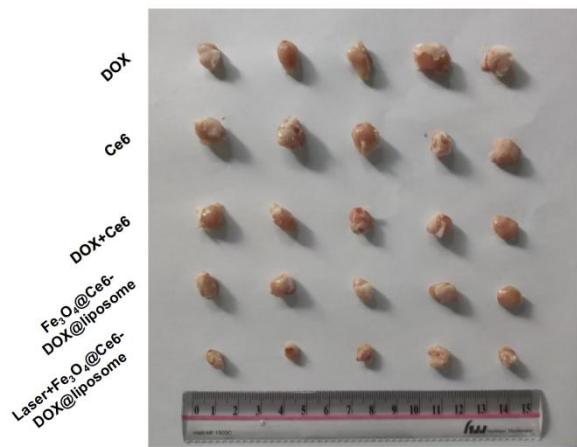
**Figure S7.** Cell viability data after treatment with different drugs.



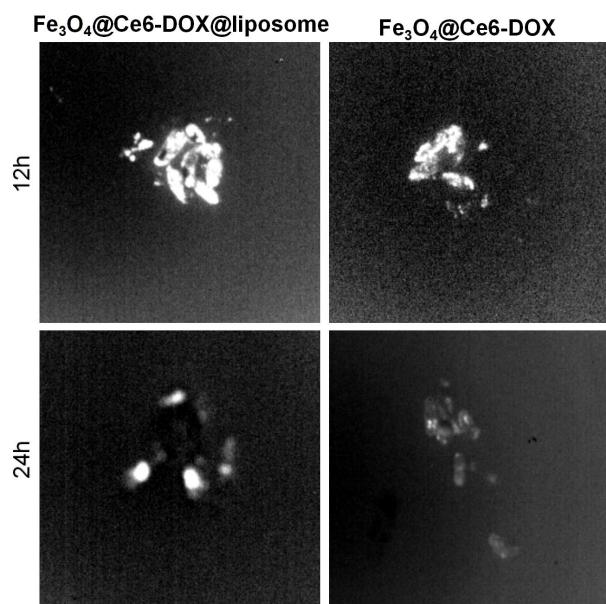
**Figure S8.** Under magnetic field guidance, the time-dependent accumulation of nanomaterials at tumor sites was observed.



**Figure S9.** Cellular uptake of different nanoformulations in tumor cells.



**Figure S10.** Tumor photographs with different treatments.



**Figure S11:** Fluorescence imaging of feces from mice treated with Fe<sub>3</sub>O<sub>4</sub>@Ce6-DOX@liposome and Fe<sub>3</sub>O<sub>4</sub>@Ce6-DOX at 12 h and 24 h post-injection.