

Supporting Information

pH- and NIR light responsive nanocarriers for combination treatment of chemotherapy and photodynamic therapy

Sheng Wang,^a Weitao Yang,^a Jing Cui,^b Xue Li,^b Yan Dou,^a Lin Su,^a

Jin Chang,^{*ad} Hanjie Wang,^{*ad} Xiaodong Li^{*b} and Bingbo Zhang^c

^a School of Life Sciences, School of Materials Science and Engineering, Tianjin University, Tianjin 300072, PR China

^b The second hospital of Tianjin Medical University, Tianjin 300211, PR China.

^c Shanghai East Hospital, The Institute for Biomedical Engineering & Nano Science, Tongji University School of Medicine, Shanghai 200092, PR China

^d Tianjin Engineering Center of Micro-Nano Biomaterials and Detection-Treatment Technology, Collaborative Innovation Center of Chemical Science and Engineering (Tianjin), Tianjin 300072, PR China

*Corresponding authors. E-mail: jinchang@tju.edu.cn (Jin Chang), wanghj@tju.edu.cn (Hanjie Wang), lixiaodonglxd@163.com (Xiaodong Li)

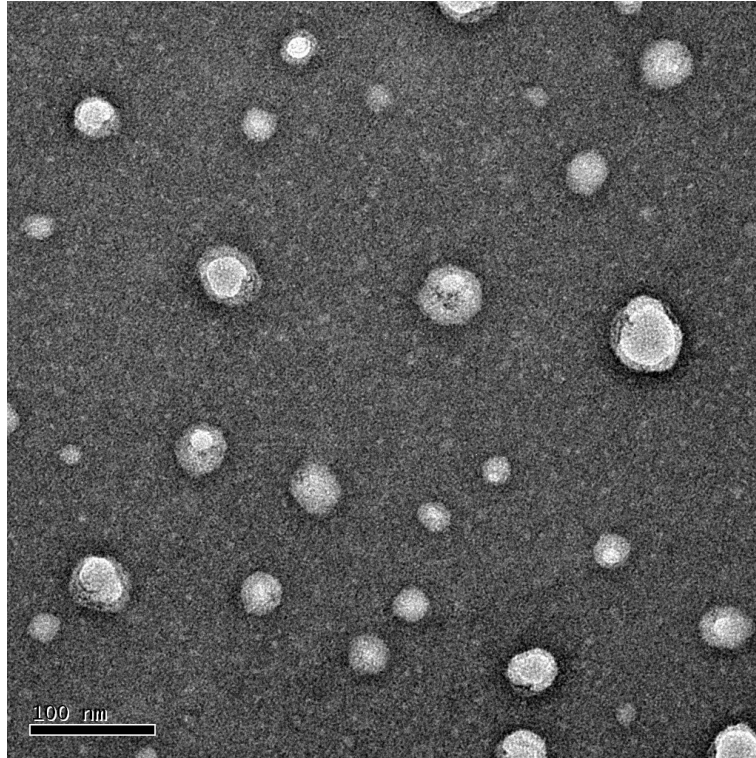


Fig. S1 TEM image of the PLVs.

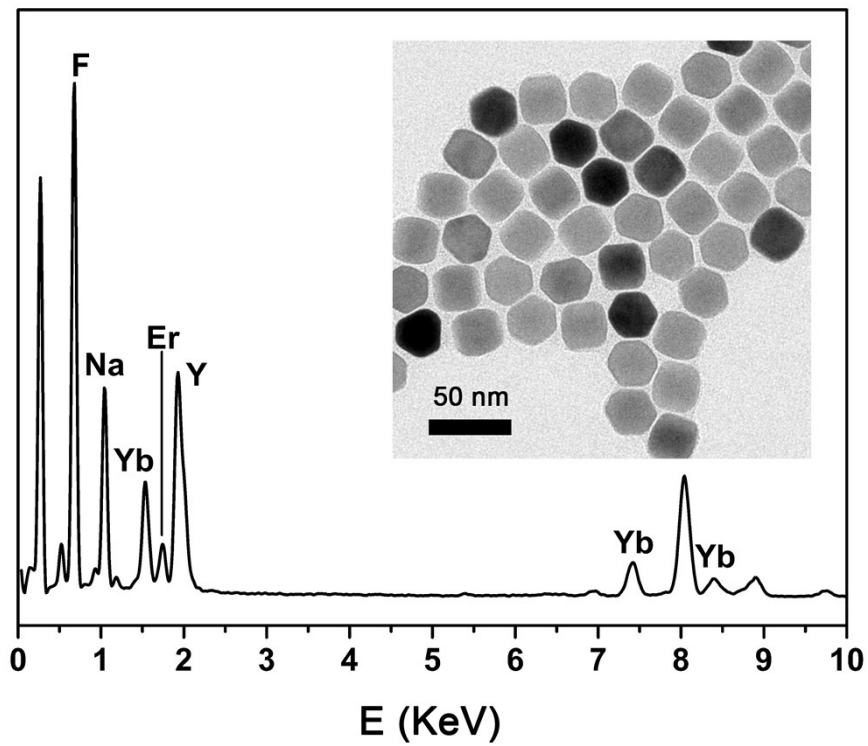


Fig. S2 EDX spectrum and TEM image (inset) of the UCNs.

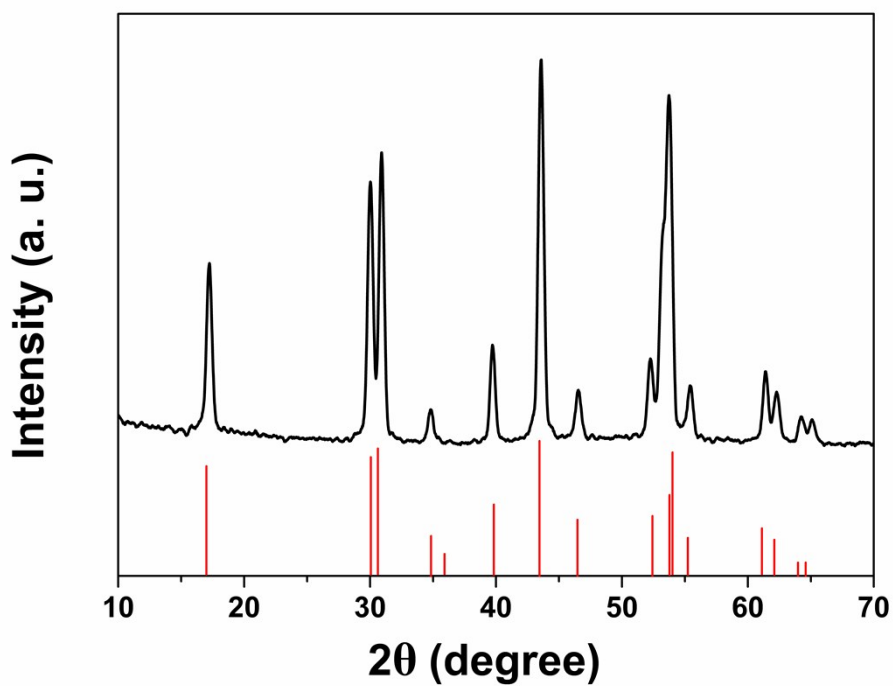


Fig. S3 X-ray diffraction pattern of the UCNs. Red lines are standard pattern of NaYF₄ (JCPDS card 16-0334).

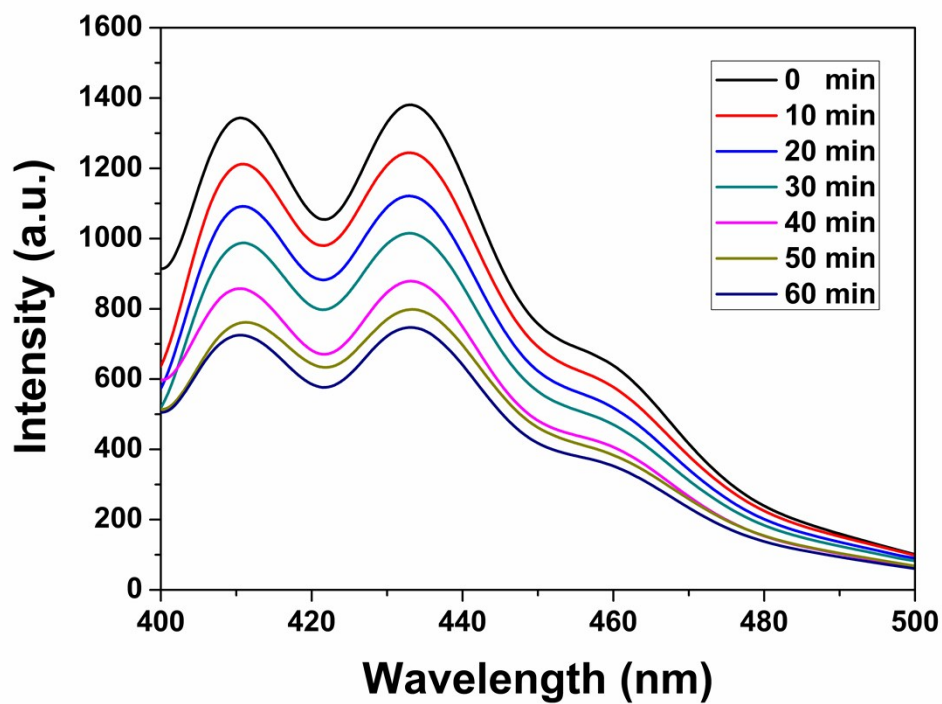


Fig. S4 Fluorescence emission spectra of ABDA incubated with MC540-UPLVs under 980 nm NIR light excitation.

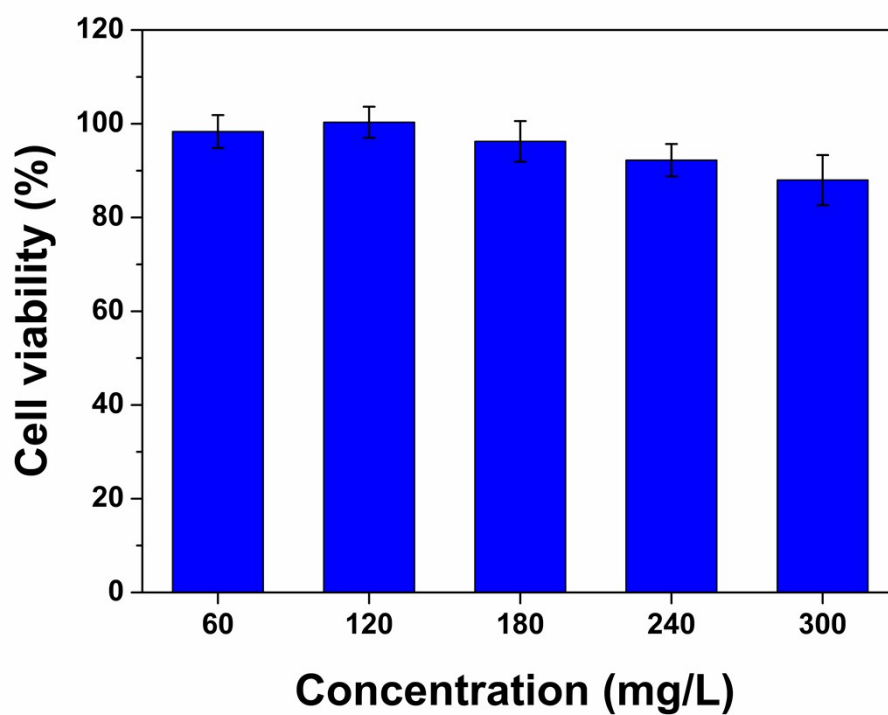


Fig. S5 Cytotoxicity of UPLVs against HeLa cells.

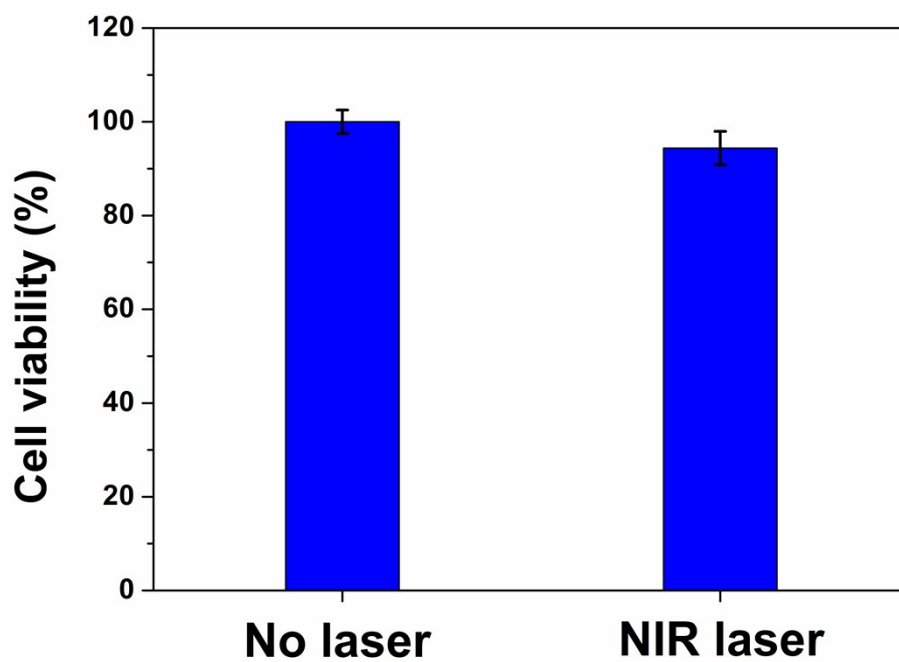


Fig. S6 The effect of NIR laser alone on the cell viability.

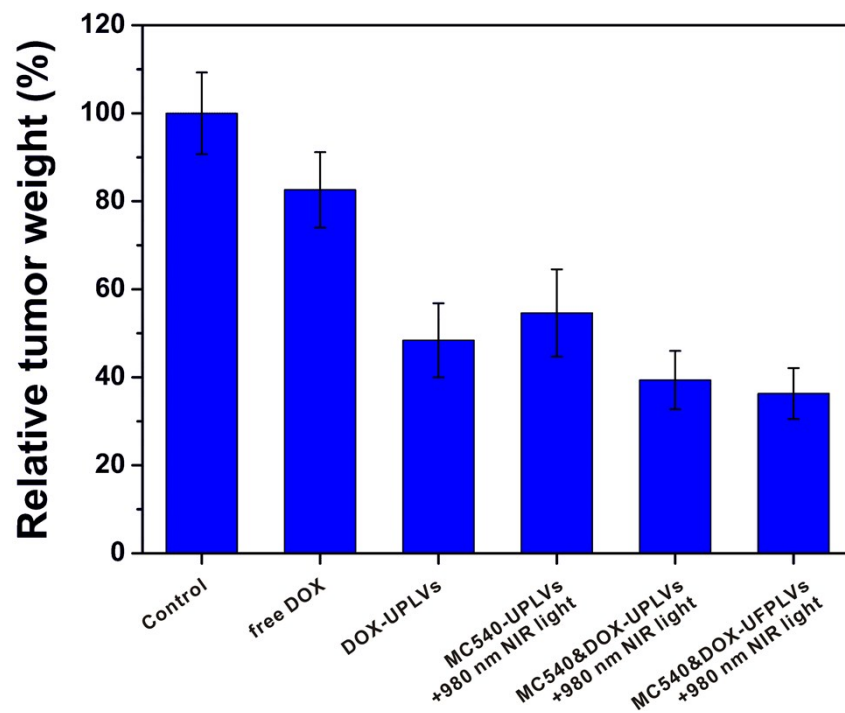


Fig. S7 The final tumor weight of mice in different treatment groups.