

Supplementary Information

Photosensitizer-Loaded Biomimetic Platform for Multimodality Imaging-Guided Synergistic Phototherapy

Ying Tian,^{a, b} Ying Zhao,^a Wenfei Liu,^c Ying Liu,^a Yuxia Tang,^a Zhaogang Teng,^{a, d} Chunni Zhang,^{*a, b}

Shouju Wang,^{*a, d} and Guangming Lu ^{*a, d}

^a *Department of Medical Imaging, Jinling Hospital, Medical School of Nanjing University, Nanjing, 210002, P. R. China*

^b *Department of Clinical Laboratory, Jinling Hospital, Medical School of Nanjing University, Nanjing, 210002, P. R. China*

^c *Department of Respiration, Nanjing First Hospital, Nanjing Medical University, Nanjing, 210000, P. R. China*

^d *State Key Laboratory of Analytical Chemistry for Life Science School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, 210093, P. R. China*

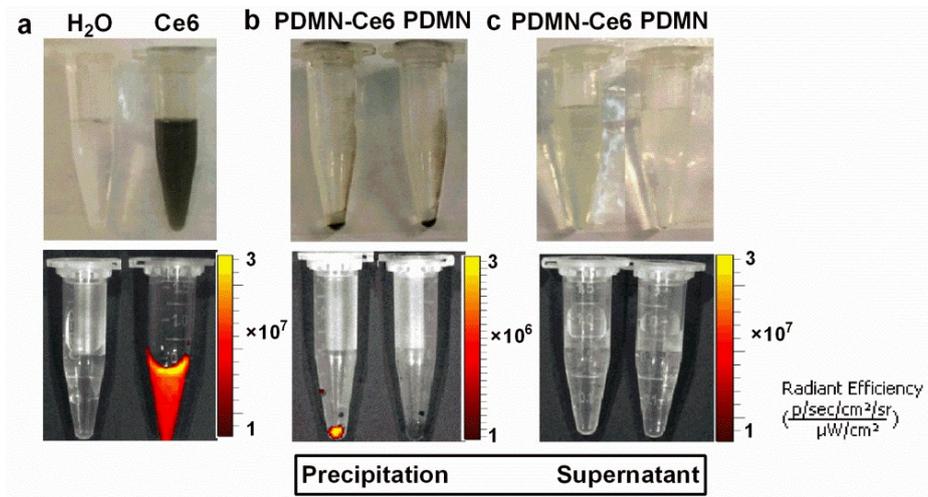


Fig. S1 (a) Tube images of Ce6 and H₂O before and after near infrared fluorescence (NIR) imaging. (b, c) The precipitation and supernatant images of PDMN and PDMN-Ce6 before and after NIR imaging.

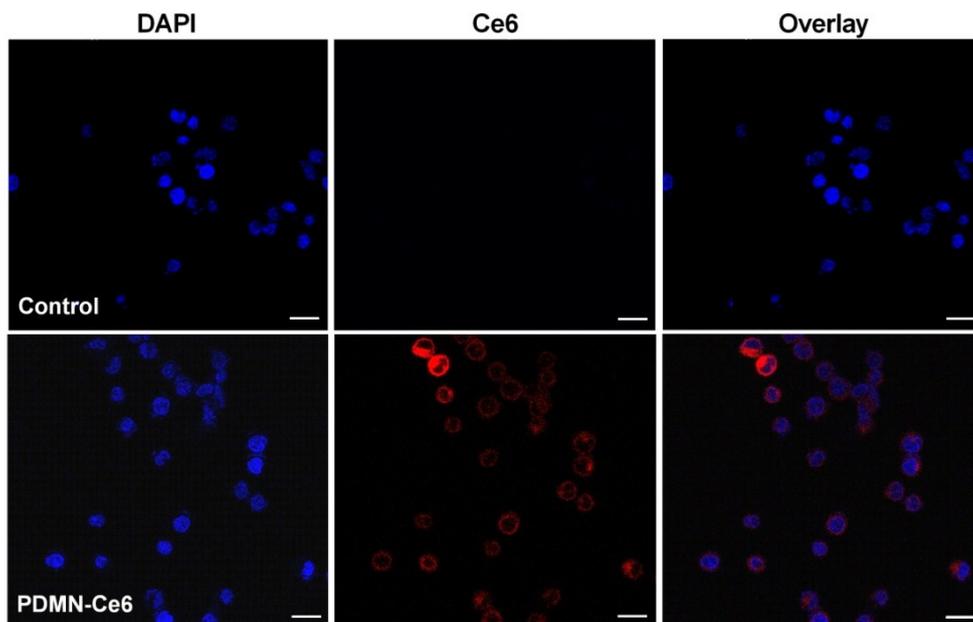


Fig. S2 Confocal microscopy images of SKBR-3 cells incubated with the PDMN-Ce6 (100 $\mu\text{g}/\text{mL}$) for 24 h. Scale bar: 25 μm .

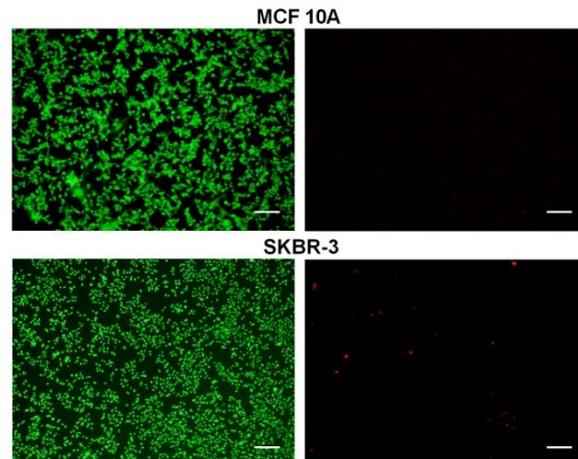


Fig. S3 LIVE/DEAD cell staining of MCF 10A and SKBR-3 after incubation with the PDMN-Ce6 (8 mg/mL) without laser. Scale bar: 100 μ m.

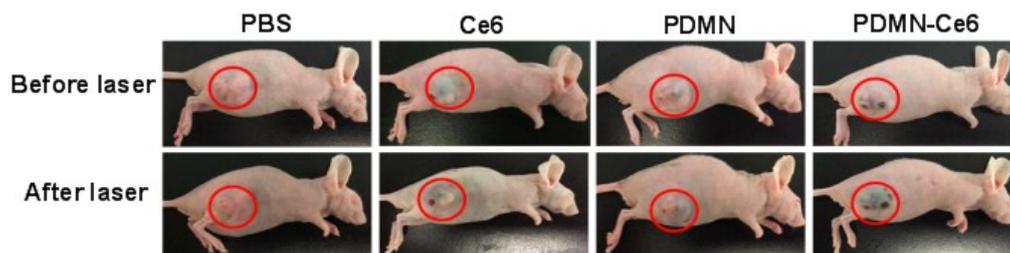


Fig. S4 Representative photographs of mice treated with PBS, Ce6, PDMN or PDMN-Ce6 before and after laser irradiation. The red circles indicated the locations of the tumors.

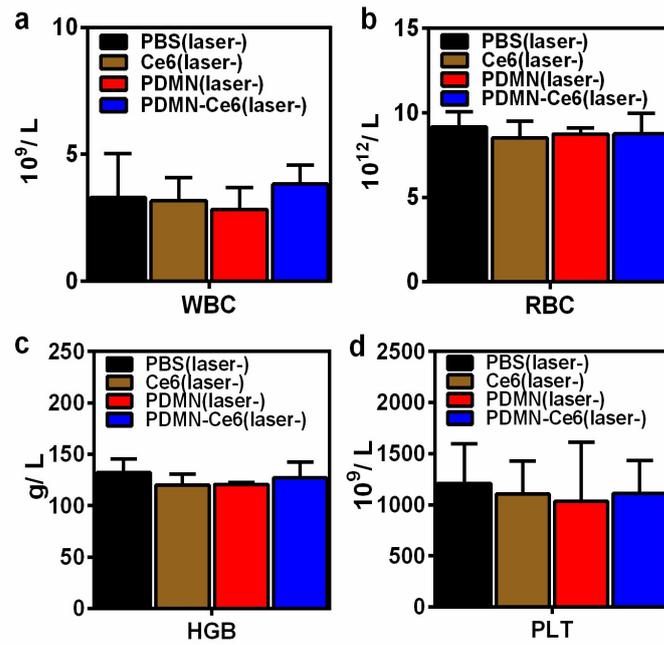


Fig. S5 The mice blood indicators including (a) WBC count, (b) RBC count, (c) HGB quantification and (d) PLT count after intravenous injection with 100 μ L of PBS, Ce6 (0.75 mg/mL), PDMN and PDMN-Ce6 (3 mg/mL).

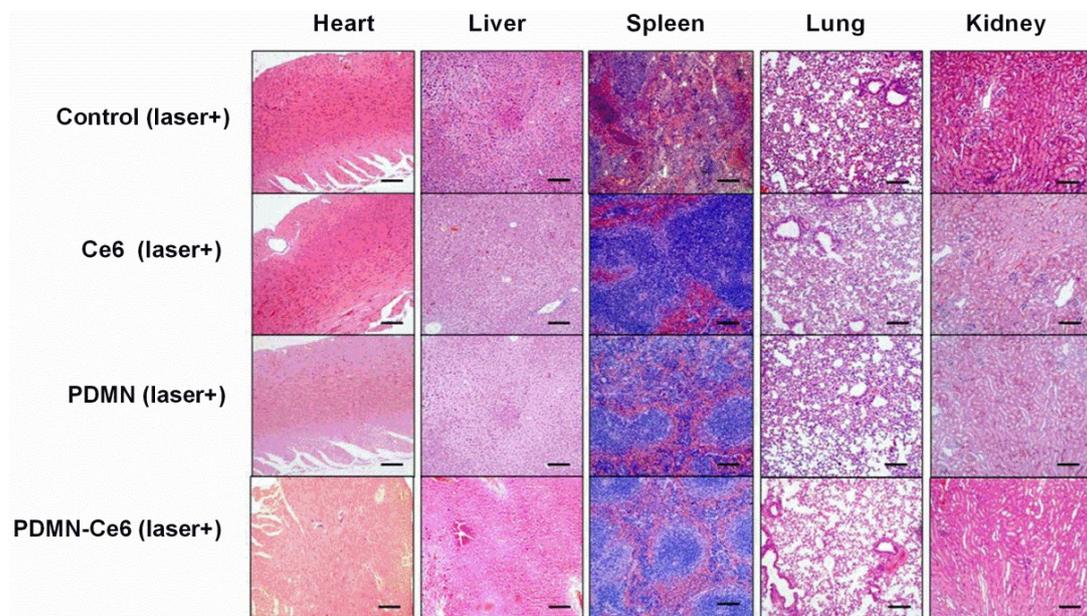


Fig. S6 Staining of the main tissues from each mice group after PDT/PTT treatment. Scale bar: 100 μ m.