

Supplementary materials

Synergistic therapy for orthotopic glioma via biomimetic nanosonosensitizer mediated sonodynamic therapy and ferroptosis

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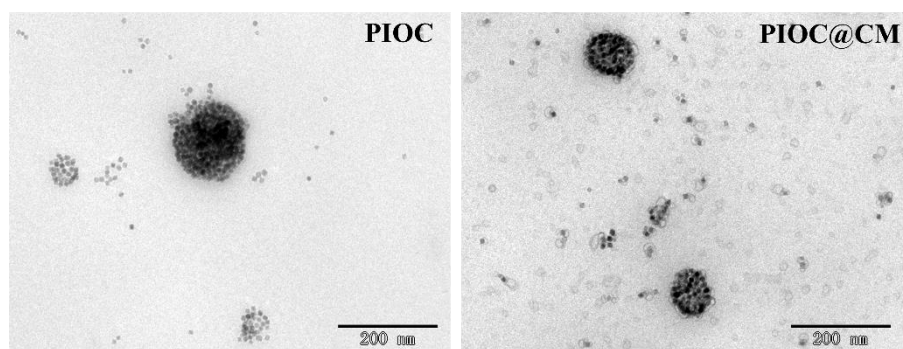


Fig. S1. TEM images of PIOC and PIOC@CM NPs.

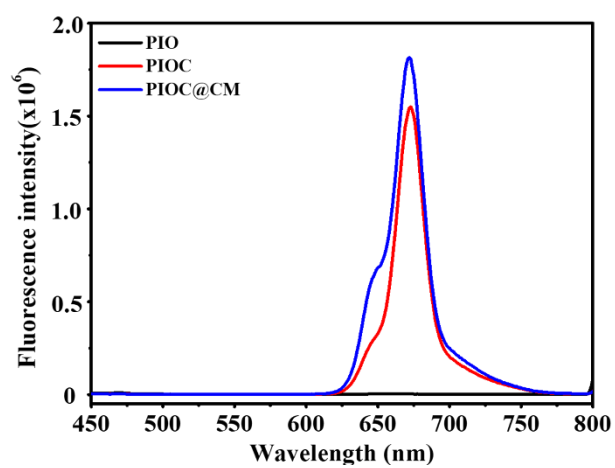


Fig. S2. Fluorescence spectra of PIO, PIOC and PIOC@CM NPs.

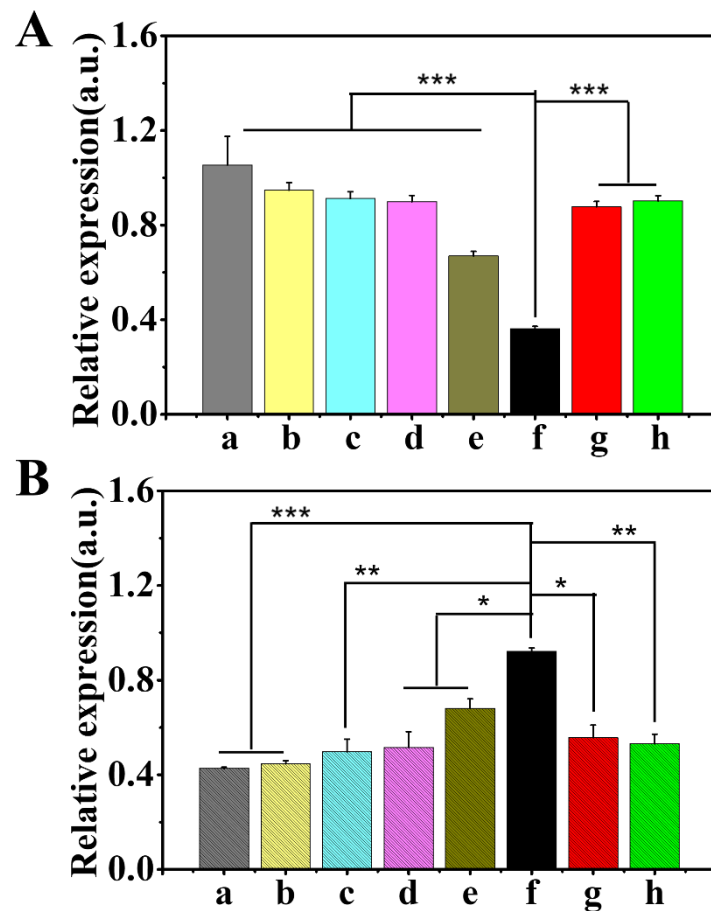


Fig. S3. Quantification of GPX4 (A) and ACSL4 (B) protein levels. a) Control, b) US, c) Ce6+US, d) PIO+US, e) PIOC+US, f) PIOC@CM+US, g) PIOC@CM+Fer-1+US, h) PIOC@CM+DFO+US. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

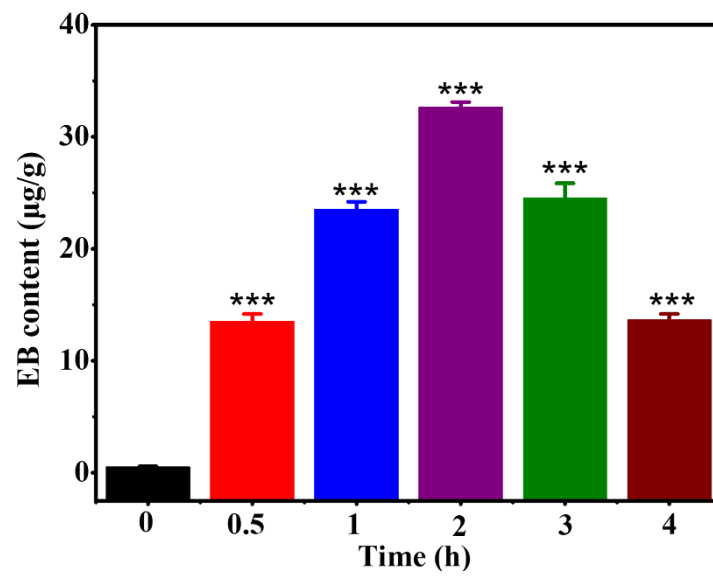


Fig. S4. Quantitative analysis of EB dye content from mice brain. *** $p < 0.001$.

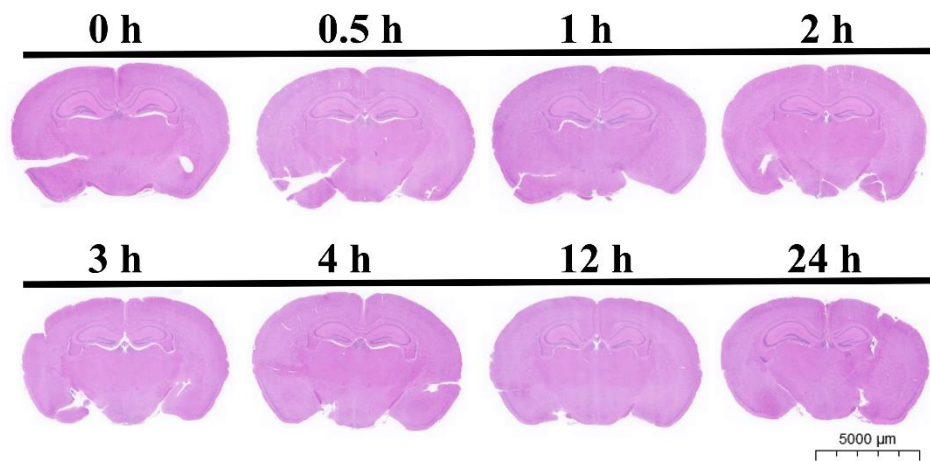


Fig. S5. H&E staining demonstrated no obvious damage or pathological changes in brain tissue.

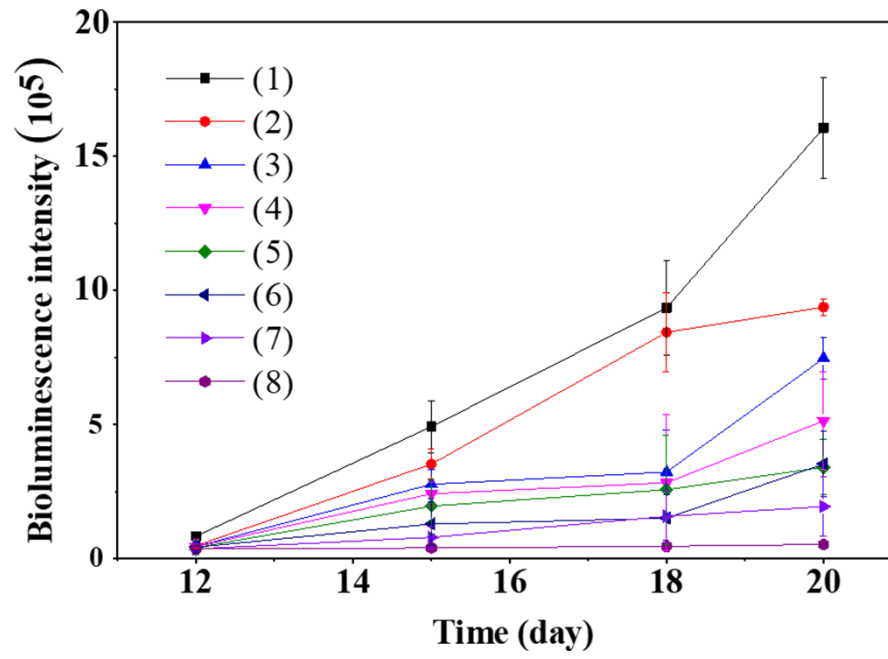


Fig. S6. The quantitative bioluminescence intensity of the mice in all groups. 1) PBS, 2) US1+US2, 3) PIOC, 4) PIOC@CM, 5) Ce6+US1+US2, 6) PIO+US1+US2, 7) PIOC+US1+US2, 8) PIOC@CM+US1+US2.

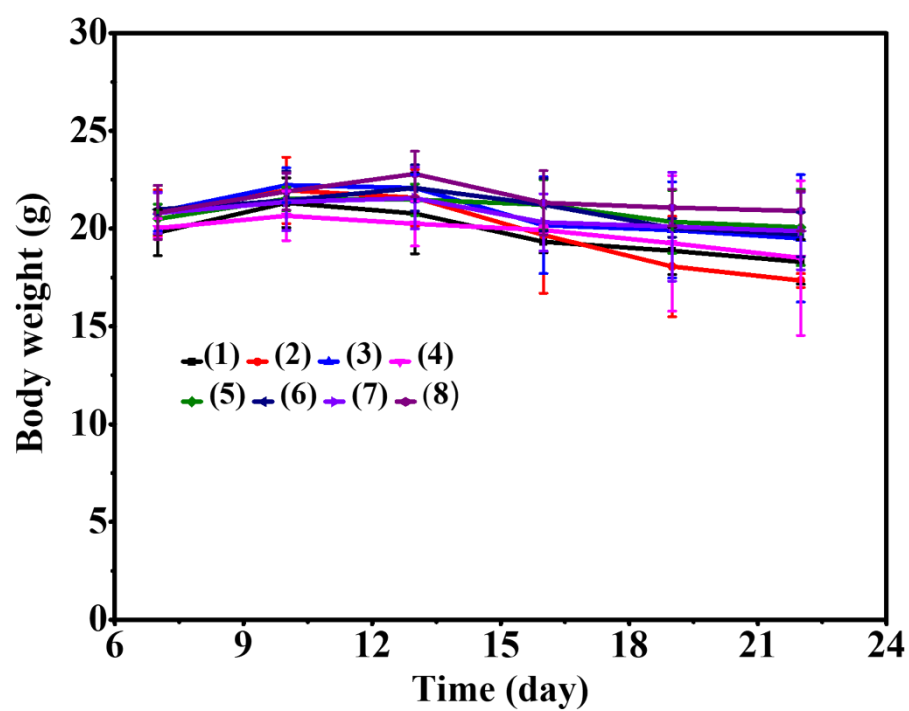


Fig. S7. Body weight changes of mice after different treatments. 1) PBS, 2) US1+US2, 3) PIOC, 4) PIOC@CM, 5) Ce6+US1+US2, 6) PIO+US1+US2, 7) PIOC+US1+US2, 8) PIOC@CM+US1+US2.

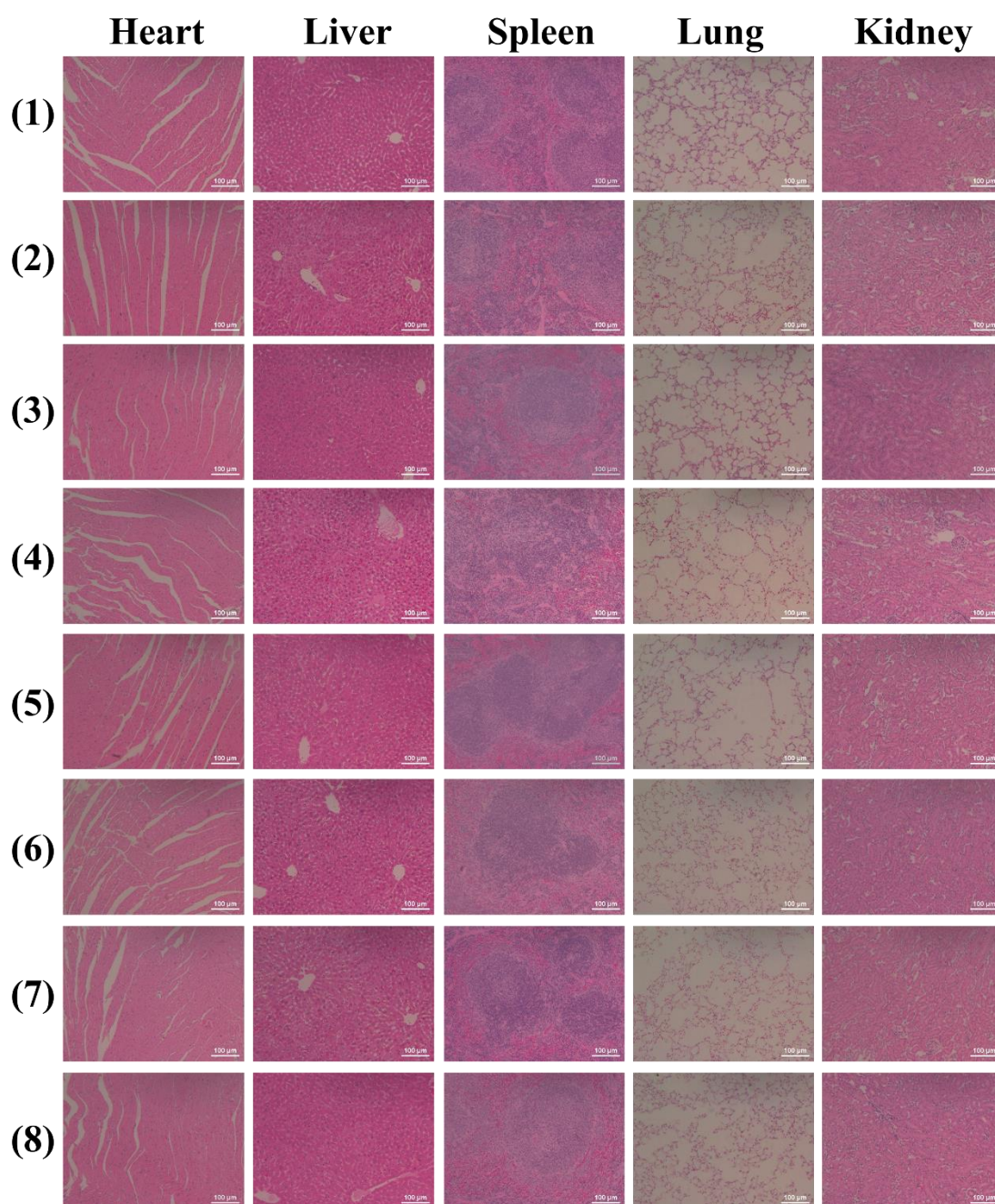


Fig. S8. H&E staining of major organs of C6 tumor-bearing mice after treatment with different NPs without or with US irradiation. Scale bar = 100 μ m. 1) PBS, 2) US1+US2, 3) PIOC, 4) PIOC@CM, 5) Ce6+US1+US2, 6) PIO+US1+US2, 7) PIOC+US1+US2, 8) PIOC@CM+US1+US2.