

## Supporting Information

### Autocatalytic oncotherapy nanosystem with glucose depletion for cascade amplification of hypoxia-activated chemotherapy and H<sub>2</sub>O<sub>2</sub>-dependent chemodynamic therapy

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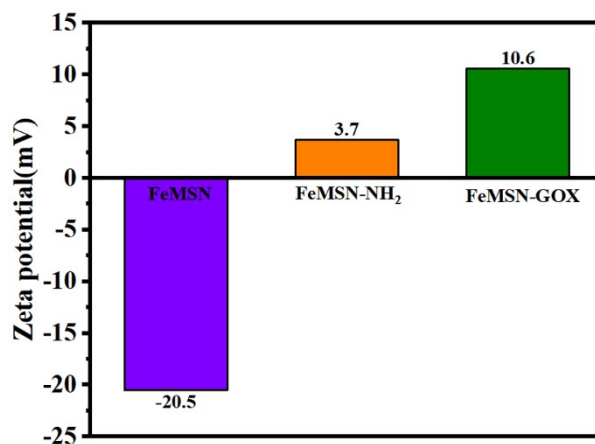
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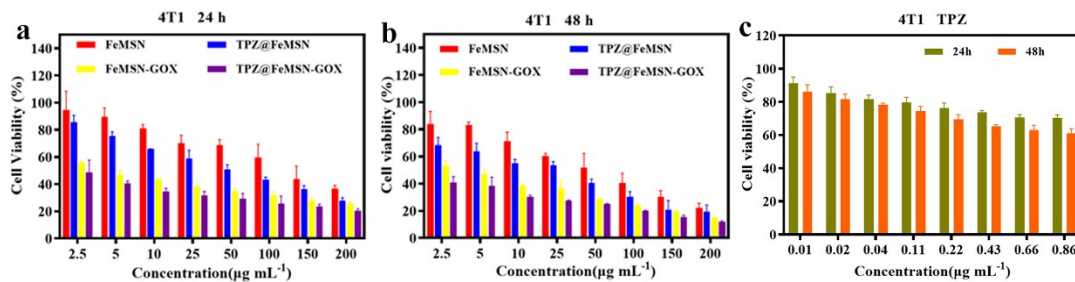
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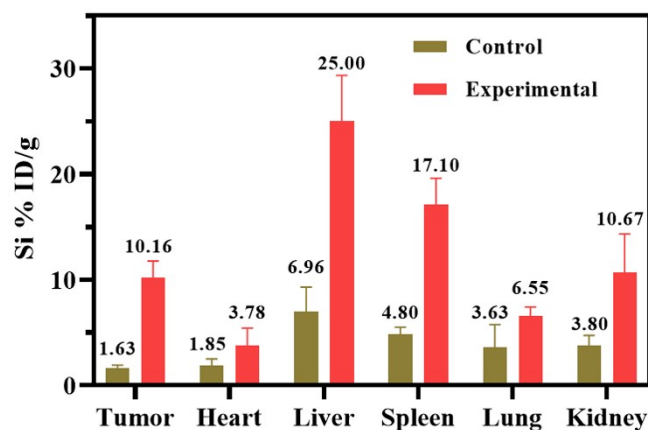
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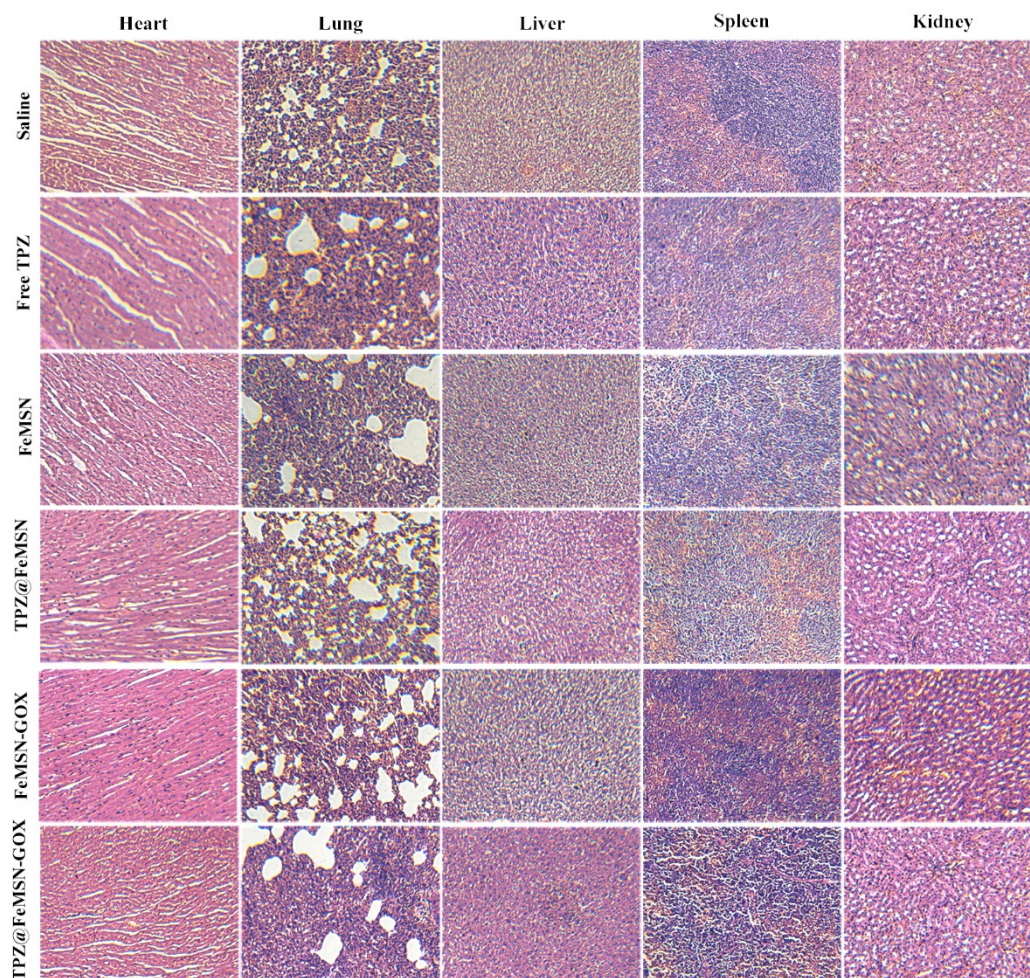
**Figure S1.** Surface zeta potential of FeMSN, FeMSN-NH<sub>2</sub> and FeMSN-GOX.



**Figure S2.** The cell viability of 4T1 cells after (a) 24 and (b) 48 h incubation with different nanoplateforms. (c) The cell viability of 4T1 cells after treatment with free TPZ at various concentrations for 24 and 48 h.



**Figure S3.** The in-vivo distribution of Si element after 24 h-post intravenous injection of TPZ@FeMSN-GOX into 4T1 tumor-bearing mice.



**Figure S4.** Histological analysis of the major organs after different treatments.