Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.

Reshape the tumor microenvironment for increasing the distribution of glucose oxidase in tumor and inhibiting metastasis

Shizhen Geng,[a] Rui Lou,[a] Qianwen Yin,[a] Shengnan Li,[a] Ruhe Yang,[a] Jie Zhou,[a,*]

[a]School of Pharmaceutical Sciences, Zhengzhou University, Zhengzhou 450001, China

*Corresponding Author. Tel: 86-371-67781908, Fax: 86-371-67781907.

E-mail address: jie_0822@163.com (J. Zhou).

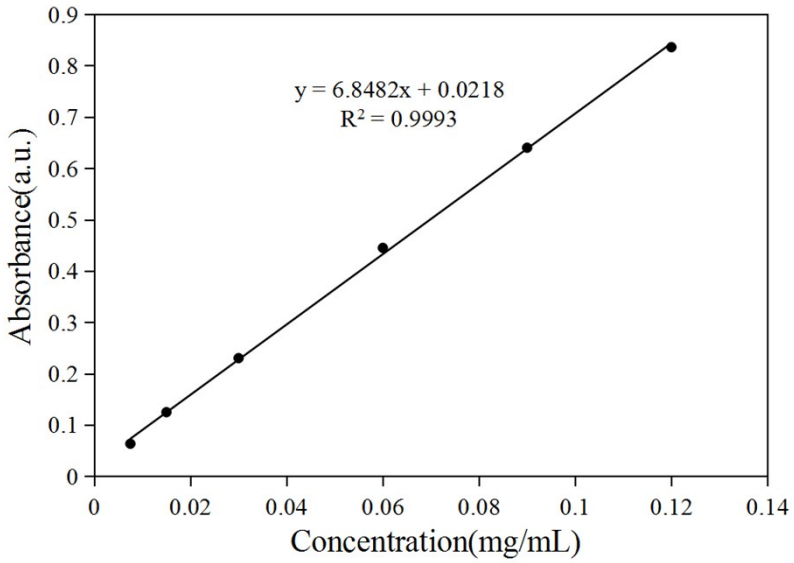

Fig. S1. Linear relationships between the UV-vis absorbance intensity at 240 nm and the concentration of Dex.

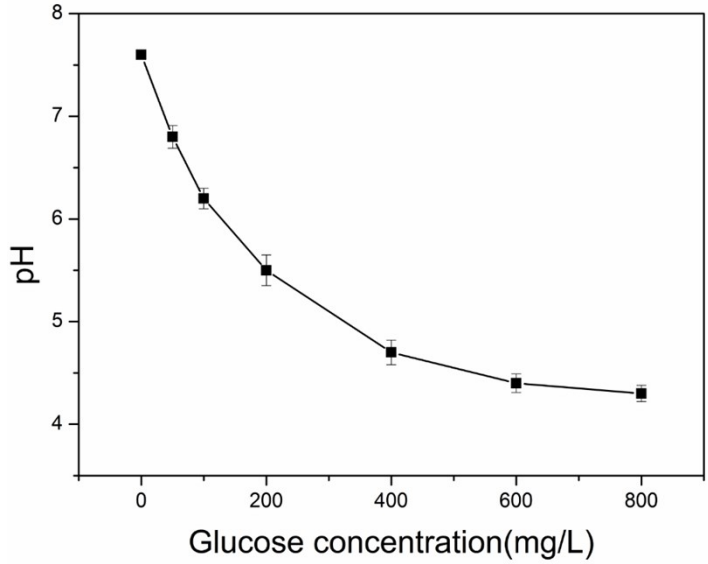

Fig. S2. pH detection in the samples treated with GOx@ZIF at different concentrations of glucose.

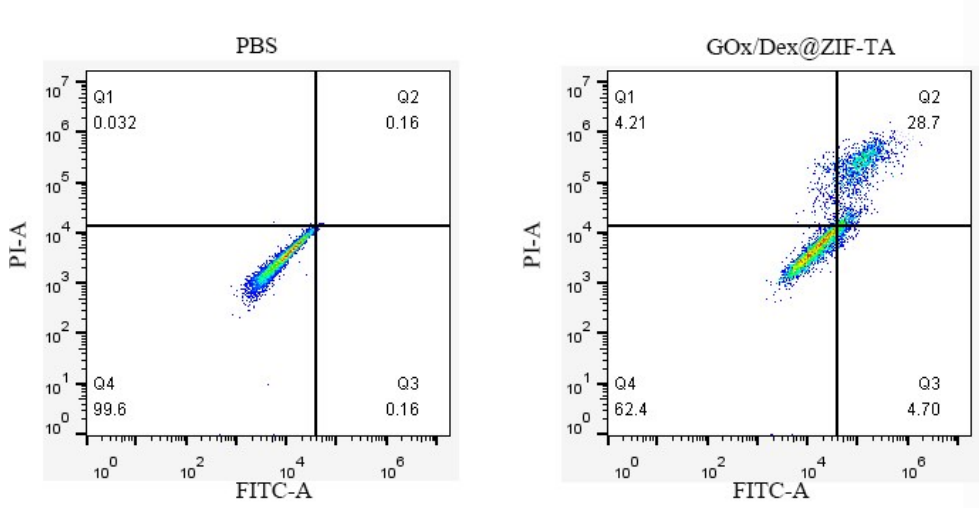

Fig. S3. Flow cytogram representing apoptosis assay of 4T1 cells after treatment with GOx/Dex@ZIF-TA for 24 h.

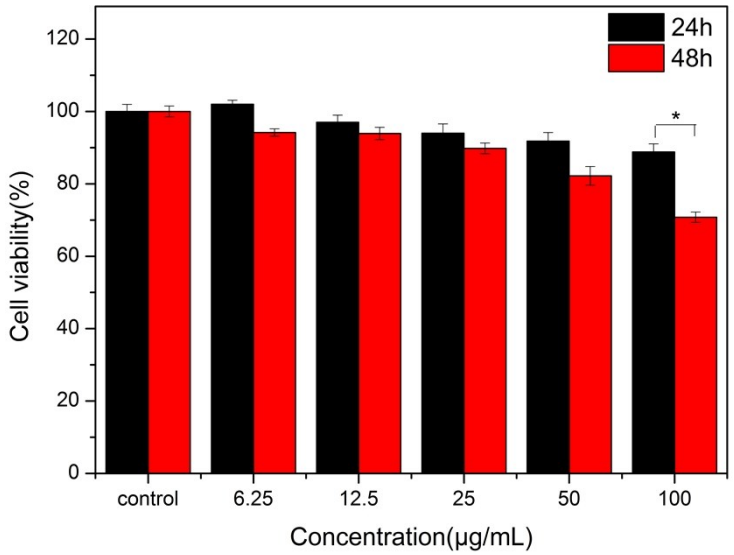

Fig. S4. Cytotoxicity test. Cell viabilities of HUVEC cells incubated with GOx/Dex@ZIF-TA at different concentrations for 24 and 48 h (n=6). (*$P<0.05$)

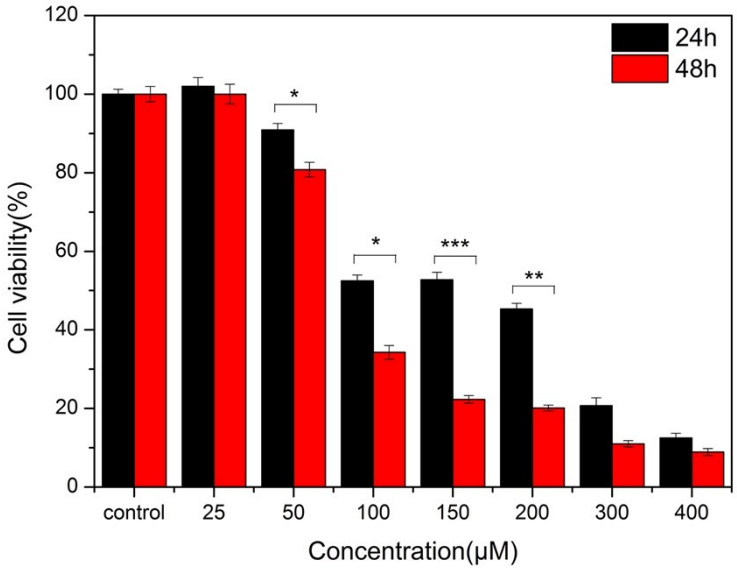

Fig. S5. Cytotoxicity test. Cell viabilities of 4T1 cells incubated with H_2O_2 at different concentrations for 24 and 48 h (n=6). (***$P<0.001$, **$P<0.01$, *$P<0.05$)

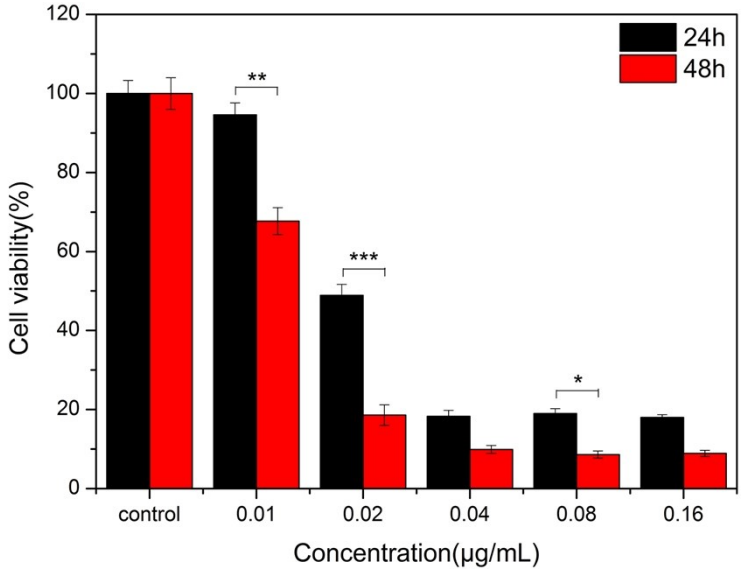

Fig. S6. Cytotoxicity test. Cell viabilities of 4T1 cells incubated with GOx at different concentrations for 24 and 48 h (n=6). (****P*<0.001, ***P*<0.01, **P*<0.05)

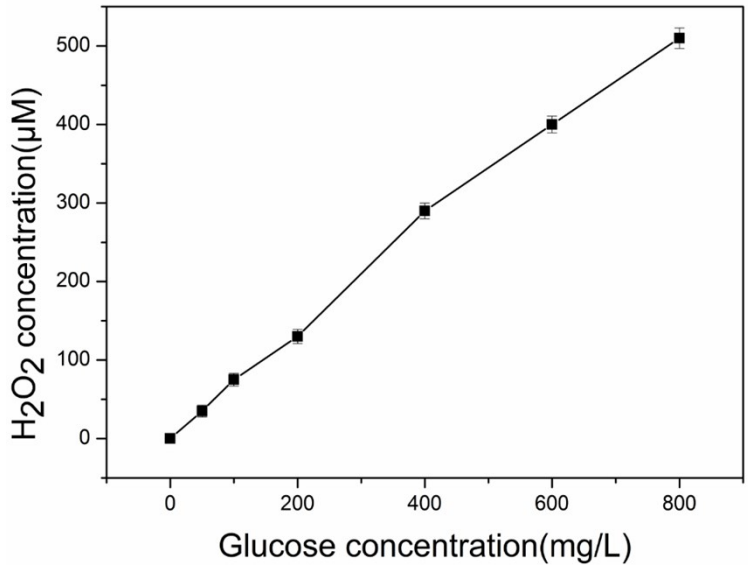

Fig. S7. H_2O_2 generation of GOx@ZIF at different concentrations of glucose.

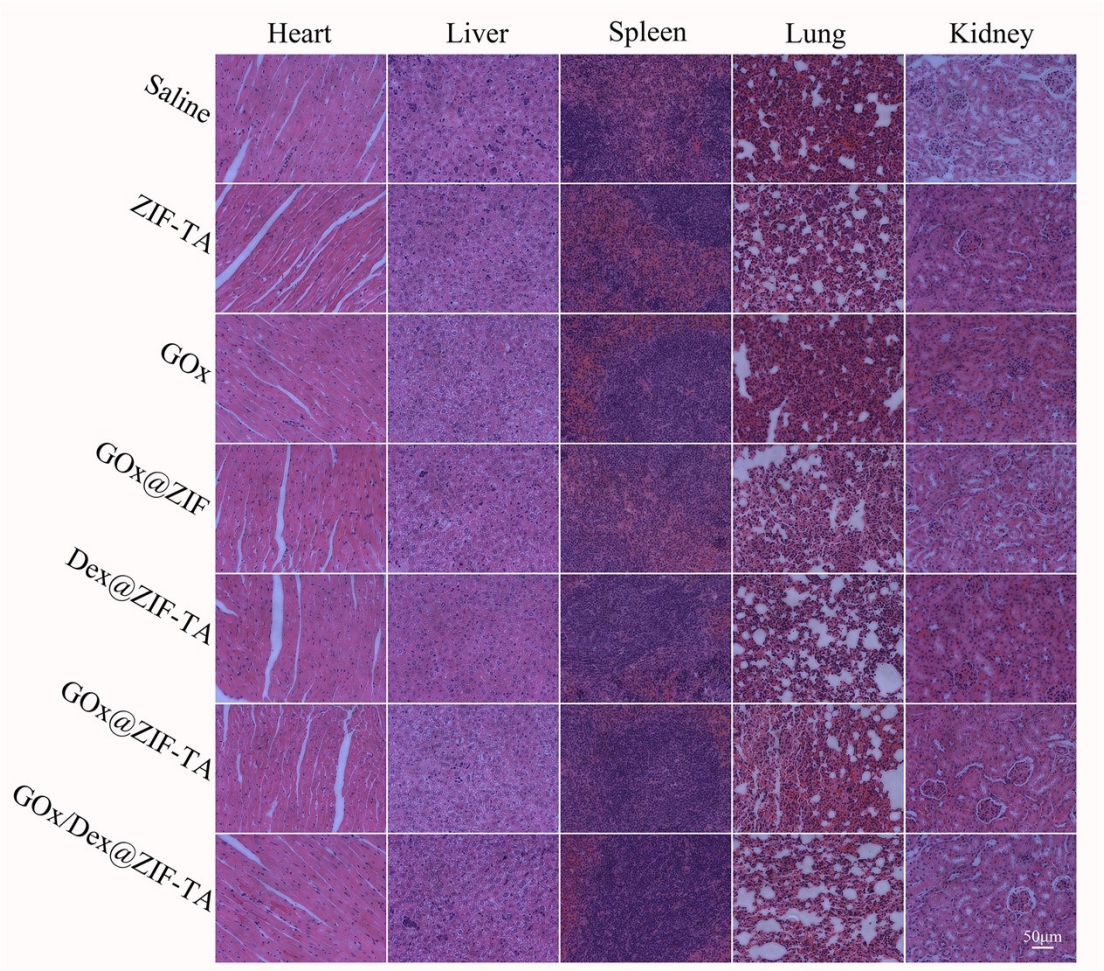

Fig. S8. H&E staining of major organs in different groups. The scale bar of insert images was 50 μm.

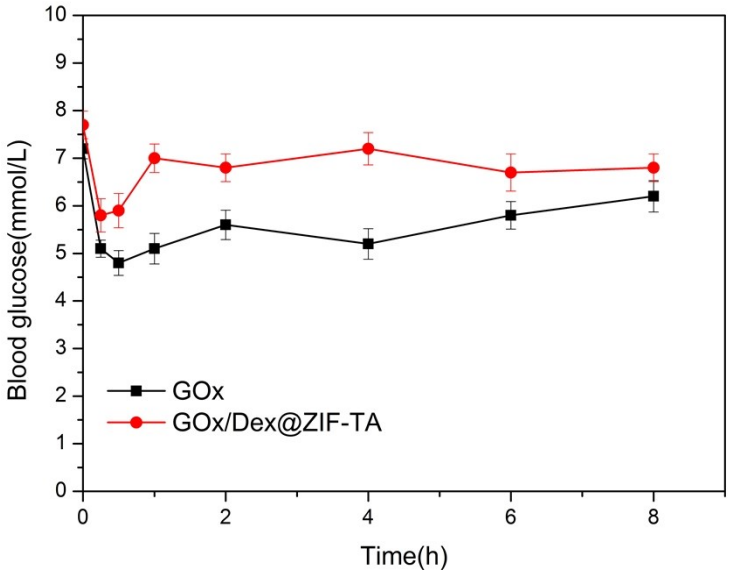

Fig. S9. Changes in blood glucose of different preparations in tumor-bearing mice (n=3).