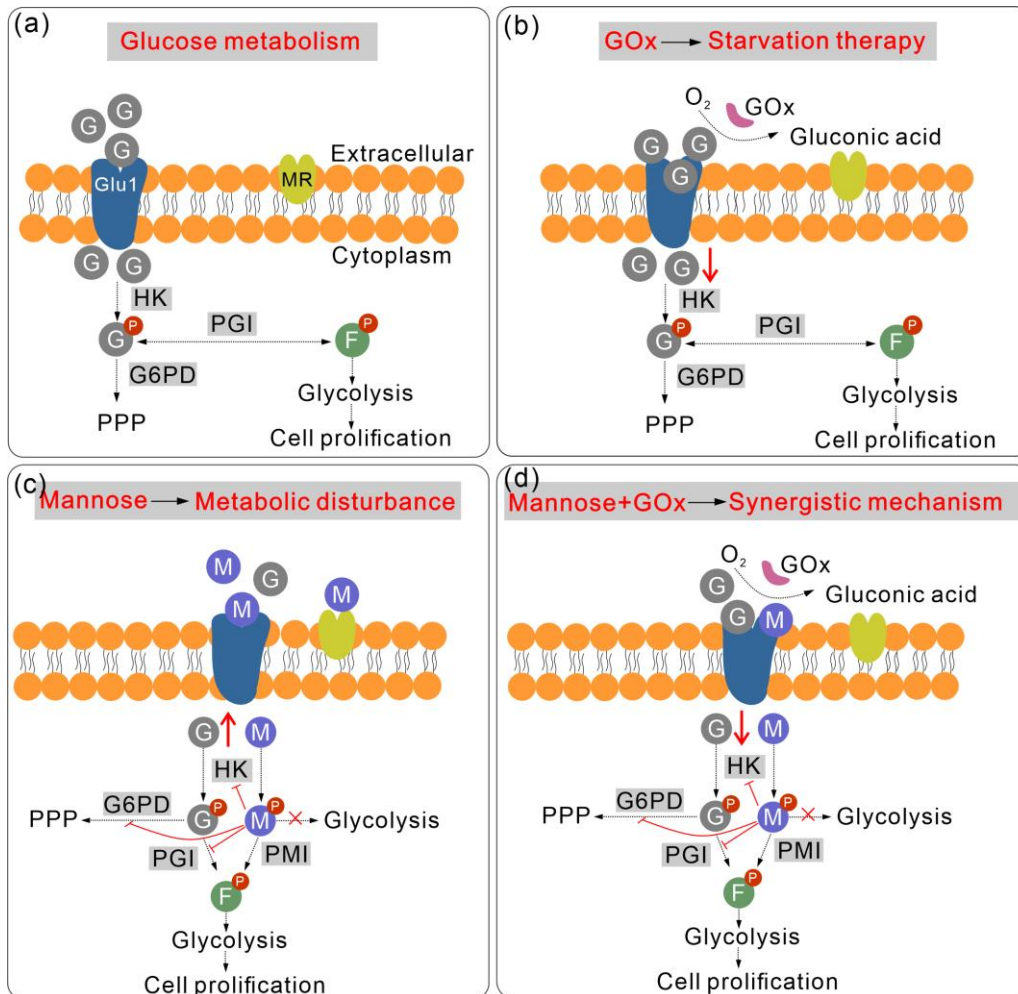# Supplementary Figures

Fig. S1 Schematic descriptions of glucose metabolism (**a**) and GOx for tumor starvation by glucose consumption (**b**). Schematic descriptions of mannose for metabolic disturbance (**c**) and synergistic glycolysis inhibition through mannose plus GOx (**d**)
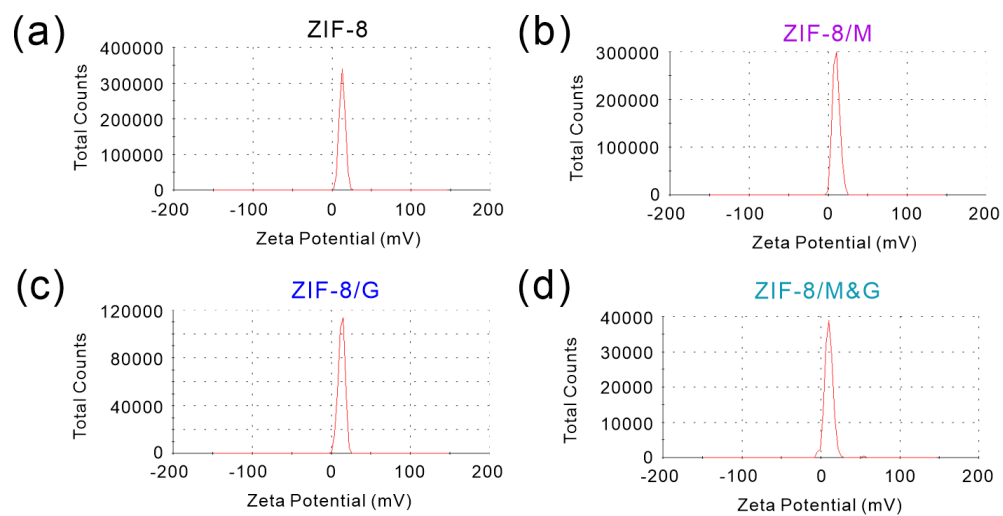
Fig. S2 Zeta potential of ZIF-8 (**a**), ZIF-8/M (**b**), ZIF-8/G (**c**), and ZIF-8/M&G (**d**) nanoparticles
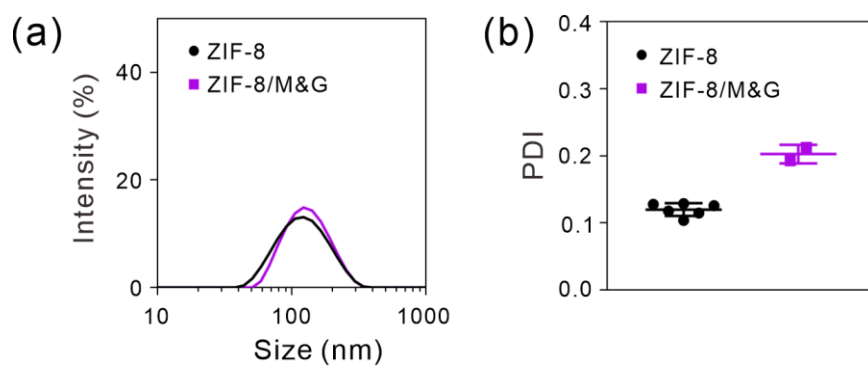

Fig. S3 (**a**) Hydrodynamic size of ZIF-8 and ZIF-8/M&G. (**b**) PDI of ZIF-8 and ZIF-8/M&G
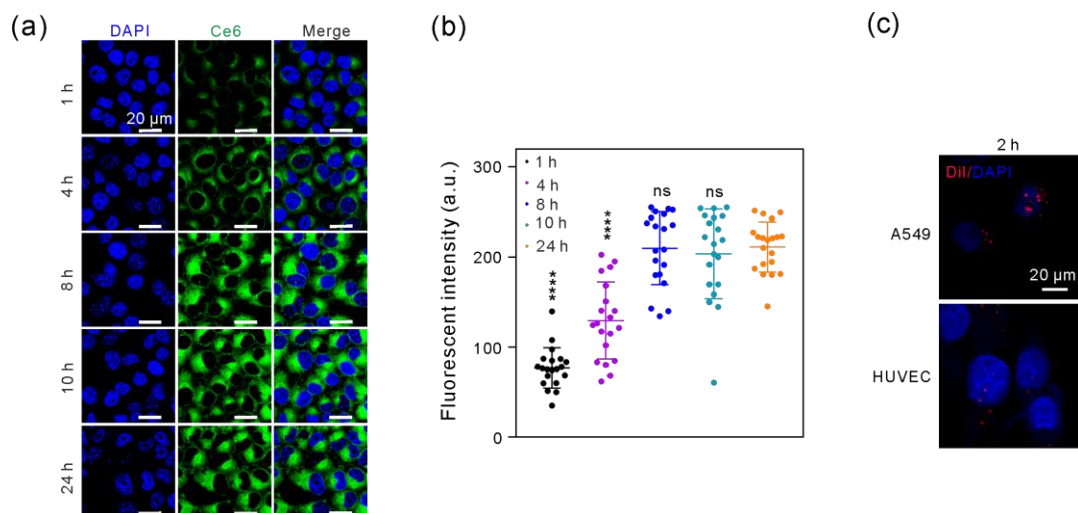
Fig. S4 (a) Fluorescent images of A549 cells incubated with ZIF-8/Ce6 for different time points. (**b**) Fluorescent intensity of A549 cells incubated with ZIF-8/Ce6 for different time points. $N = 20$, *$P < 0.05$, **$P < 0.01$, ****$P < 0.0001$ and ns: not significant ($P > 0.05$). Data represent mean ± SD. (**c**) Fluorescent images of A549 and HUVEC cells incubated with ZIF-8/Dil for 2 h
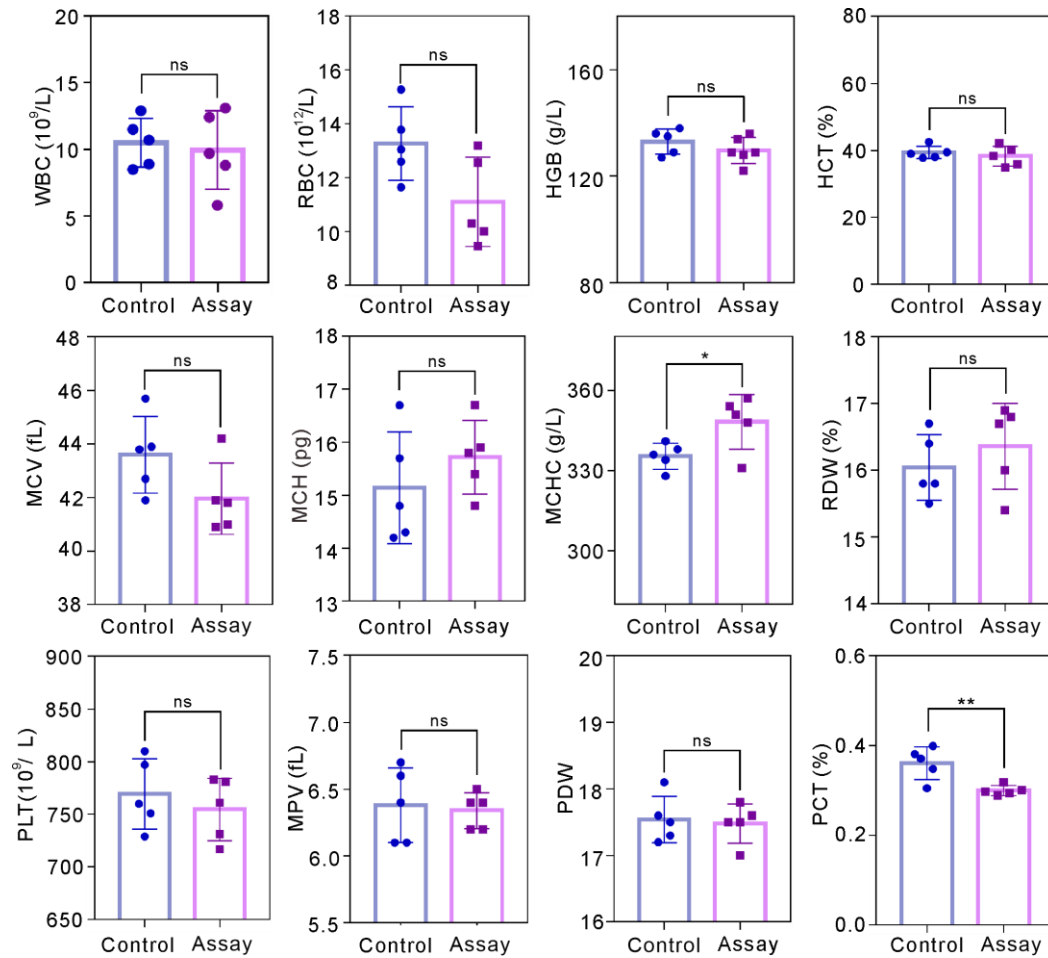
Fig. S5 Comparison of hematology data of healthy Balb/c mice at two months after intravenous injection of ZIF-8/M&G nanoparticles at a dosage of 16 mg/kg. An equal volume of PBS was used as a control. WBCs: white blood cells; RBCs: red blood cells; HGB: hemoglobin; HCT: hematocrit; MCV: mean corpuscular volume; MCH: mean corpuscular hemoglobin; MCHC: mean corpuscular hemoglobin concentration; RDW: red blood cell distribution width coefficient of variation; PLT: platelet; MPV: mean platelet volume; PDW: platelet distribution width; and PCT: procalcitonin. $N = 5$, *$P < 0.05$, **$P < 0.01$, ****$P < 0.0001$ and ns: not significant ($P > 0.05$). Data represent mean ± SD