

Fig. 5. Cytotoxicity of pnPNP and pnNP. Cell viability of (A) 4T1 cells treated with pnPNP, (B) 4T1 cells treated with pnNP, (C) HeLa cells treated with pnPNP or (D) HeLa cells treated with pnNP in the presence or absence of light irradiation by MTT assay. (E) Flow cytometry analysis, (F) CLSM images (cells stained by Annexin V-FITC/PI, scale bar: 100 μ m), (G) CLSM images (cell nucleus stained by Hoechst 33342, scale bar: 10 μ m) and (H) the inverted microscope images (cells stained by trypan blue, scale bar: 100 μ m) of 4T1 cells after treatment with pnPNP or pnNP in the presence or absence of light irradiation. 4T1 cells without any treatments were used as the blank control.

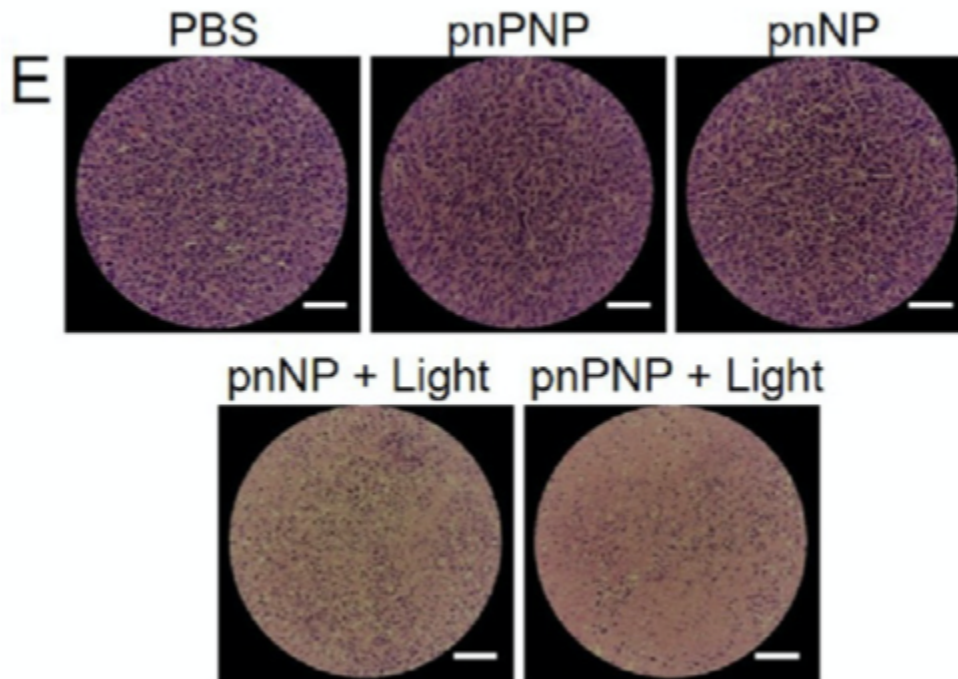


Fig. 7. *In vivo* anti-tumor study against 4T1 tumor-bearing mice via intravenous injection. (A) Relative tumor volume and (B) relative body weight changes in 15 days after treatment with pnPNP or pnNP in the presence or absence of light irradiation. The 4T1 tumor-bearing mice treated with PBS were used as the negative control. (C) The tumor weight, (D) representative tumor image and (E) H&E staining of the sacrificed tumor tissues on the 15th day. (F) Alanine aminotransferase (ALT), (G) aspartate transaminase (AST), (H) blood urea nitrogen (BUN), and (I) uric acid (UA) analysis in the serum of the mice on the 15th day. (J) Hematological parameters of the mice on the 15th day. * $P < 0.05$ and ** $P < 0.01$ were tested via a Student's *t*-test.