

Leukocyte-mimicking Pluronic-lipid Nanovesicle Hybrids Inhibit Growth and Metastasis of Breast Cancer

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● Supporting Information

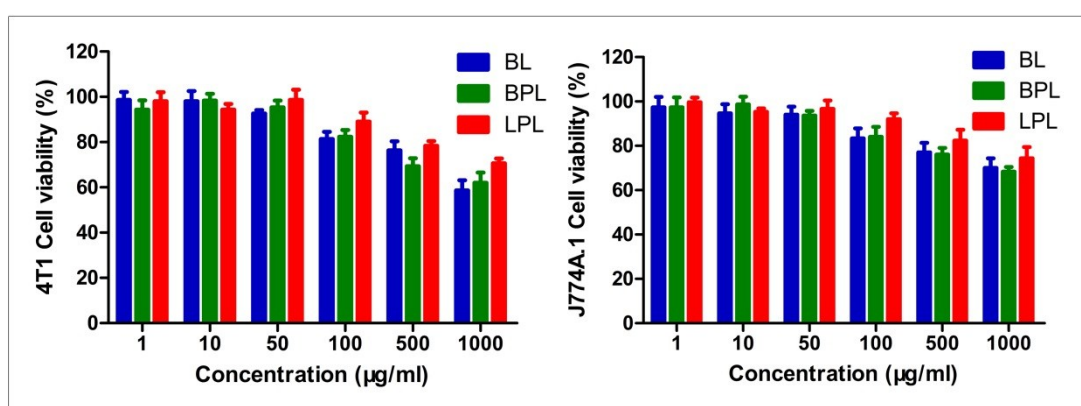


Fig. 1. Cell viability of 4T1 cells and J774A.1 cells treated with BL, BPL and LPL at the concentrations ranging from 1 µg/mL to 500 µg/mL.

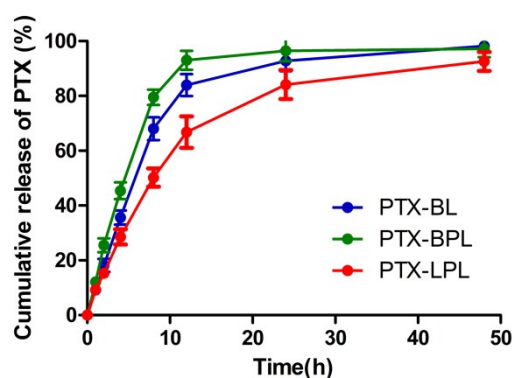


Fig. 2. *In vitro* release profiles of PTX-BL, PTX-BPL and PTX-LPL in pH 7.4 PBS containing 0.5% Tween-80. Error bars indicate \pm SD (n = 3).

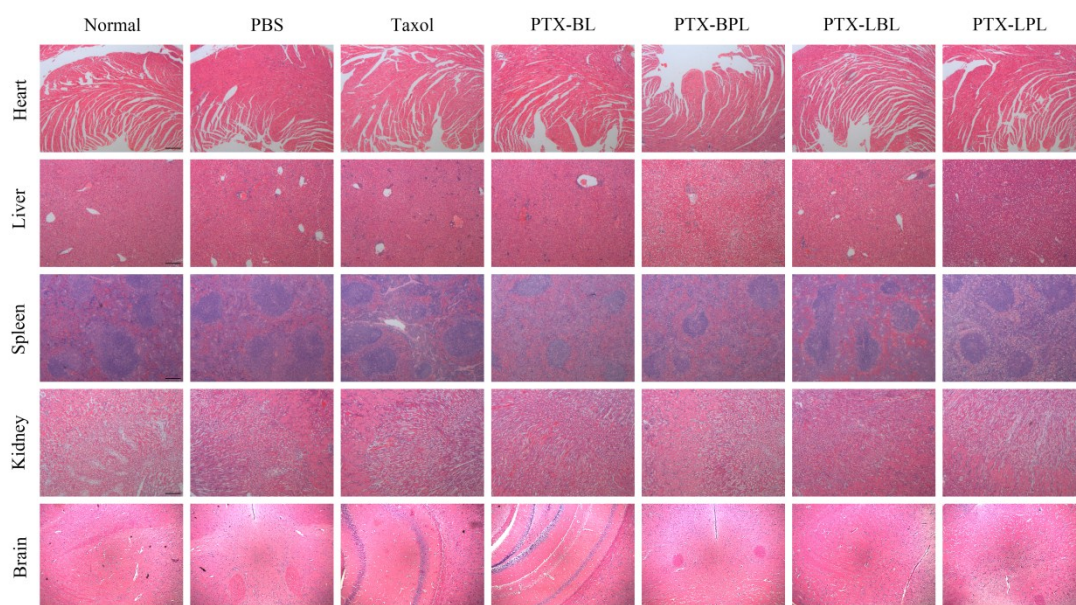


Fig. 3. *In vivo* safety evaluation of various PTX-loaded vesicles. Major organs (heart, liver, spleen, kidney and brain) were harvested at the end of the experiment and analyzed with H&E staining. Scale bar = 200 μm .

Table 1. Average size, Polydispersity Index (PDI), Zeta Potential, EE(%) and DL (%) of different PTX-loaded liposome formulations. Data were presented as mean \pm SD (n = 3).

| Vesicles | Average sizes (nm) | PdI | Zeta-potential (mV) | EE(%) | DL(%) |
|----------|-----------------------|-------------------|---------------------|----------------|-----------------|
| PTX-BL | 150.7 \pm 3.4 | 0.163 \pm 0.035 | -14.7 \pm 1.3 | 98.3 \pm 0.5 | 4.86 \pm 0.12 |
| PTX-BPL | 154.9 \pm 2.1 | 0.172 \pm 0.014 | -12.3 \pm 2.1 | 94.3 \pm 2.5 | 4.59 \pm 0.23 |
| PTX-LPL | 178.3 \pm 1.2 | 0.197 \pm 0.047 | -18.9 \pm 1.6 | 96.3 \pm 0.3 | 4.91 \pm 0.05 |