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Preparation of dual-drug conjugated polymeric micelles with synergistic anti-cancer efficacy in vitro

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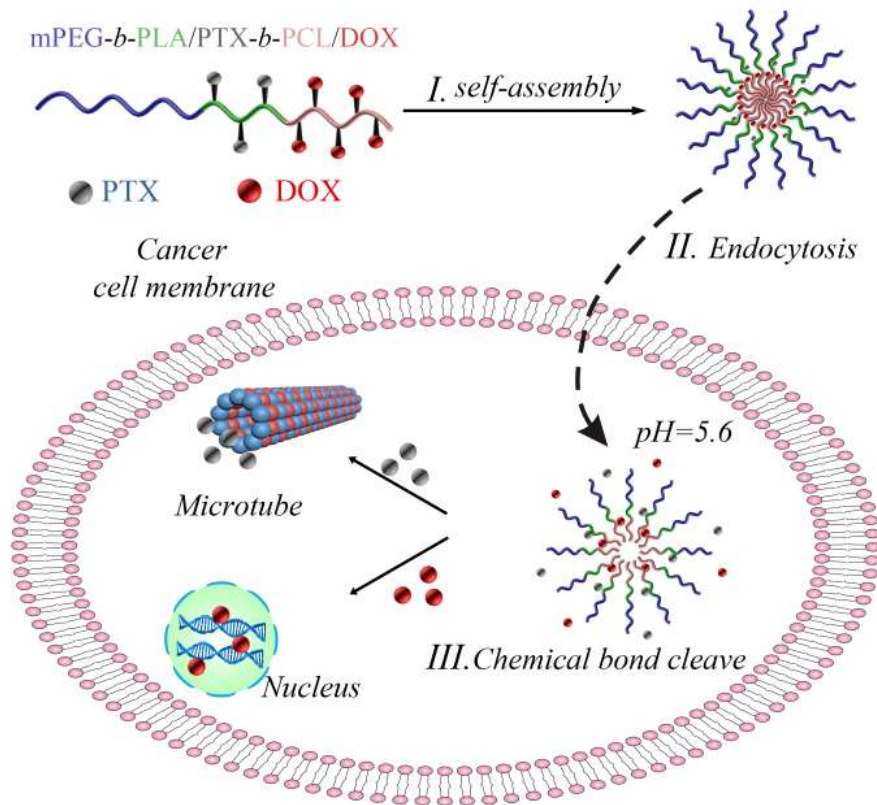
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Graphical abstract

The P-PTX-DOX polymer-drug conjugates self-assembled into micelles and arrive at cancer tissues by long blood circulation and EPR effect, then the micelle enter into cancer cells by endocytosis and release drugs by chemical bond cleavage. Finally, PTX acts on microtubules while DOX acts on DNA in the nucleus. Cytotoxicity study indicated synergistic effects of P-PTX-DOX self-assembled micelles in suppression of proliferation of A549 cancer cells.



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