

pH-Responsive Nanofiber Buttresses as Local Drug Delivery Devices

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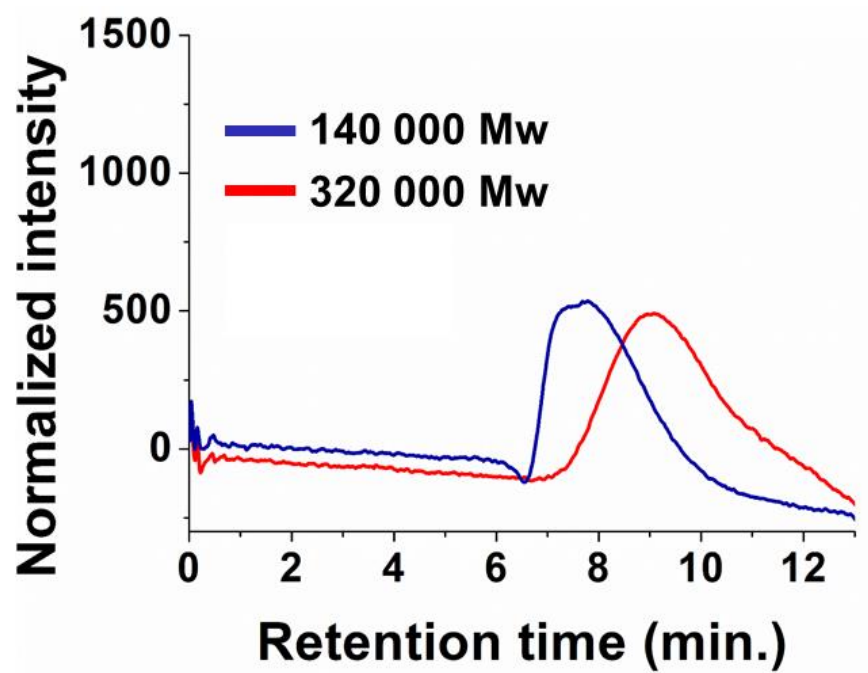


Figure S1. SEC traces of polymers (eluent: DMAC).

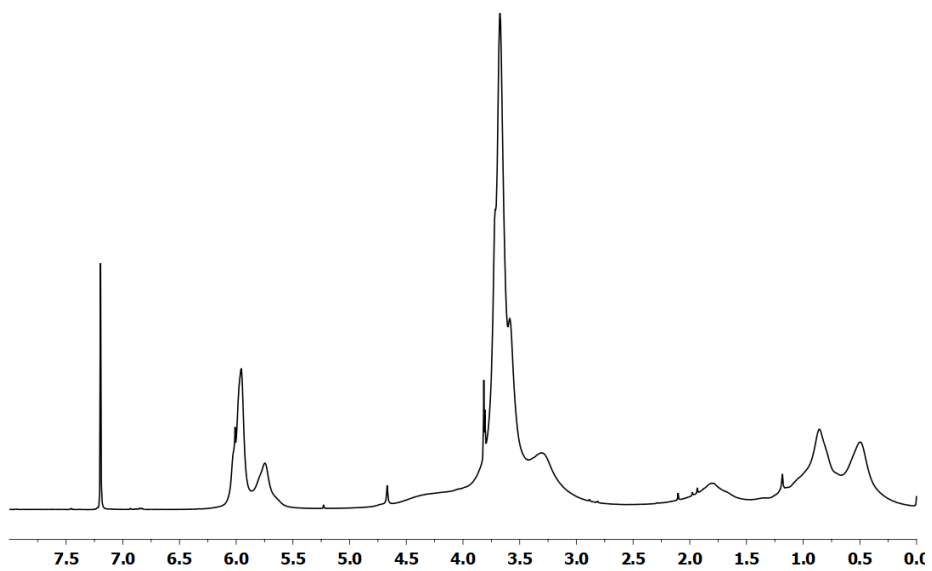


Figure S2. ^1H NMR spectrum of polymer.

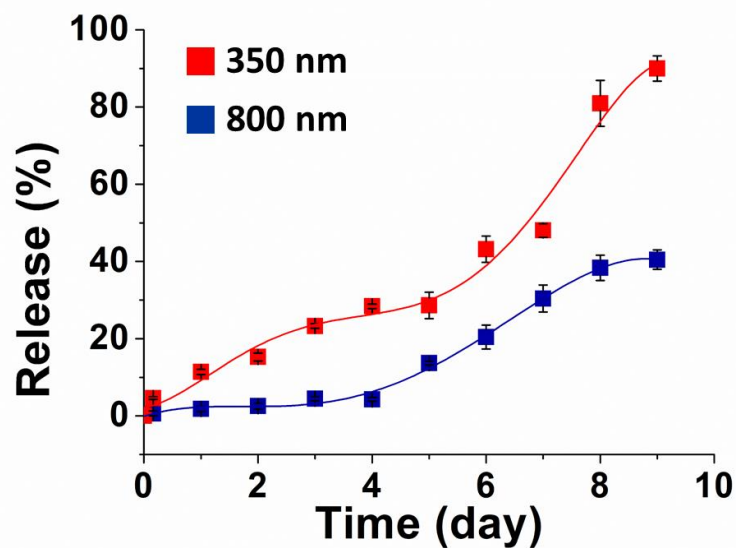


Figure S3. The release of fluorescein amine from nanofiber buttresses as a function of fiber diameter and time while incubated in pH 7.4 aqueous buffer (N=3).

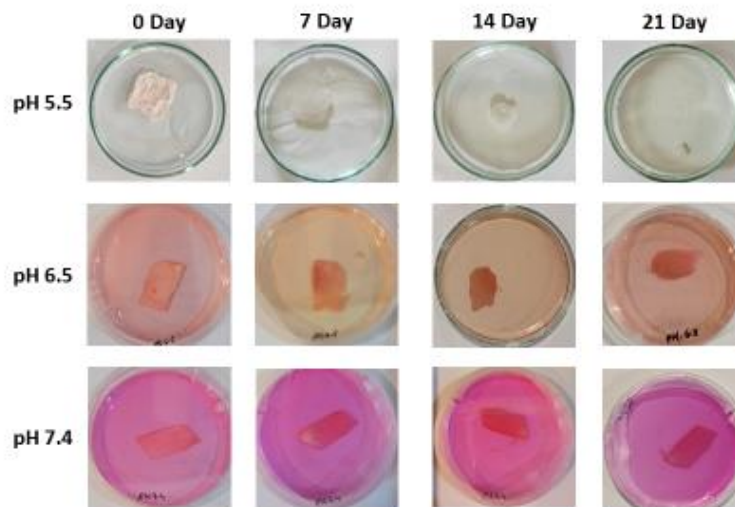


Figure S4. Digital images of doxorubicin loaded nanofiber buttresses before and after release at pH 5.5 (acetate buffer), 6.5 and 7.4 in RPMI-HEPES cell medium.

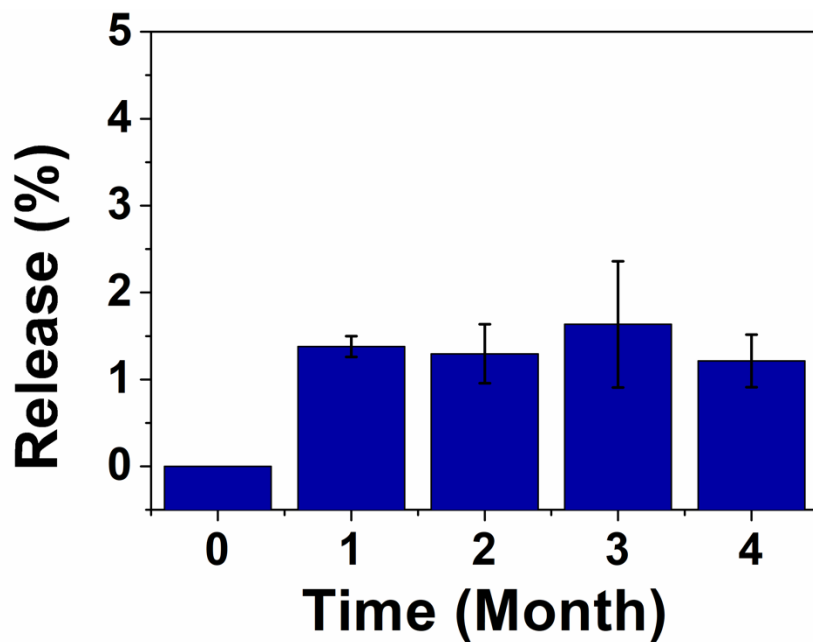


Figure S5. Long term release of doxorubicin from nanofibers incubated at pH 7.4.

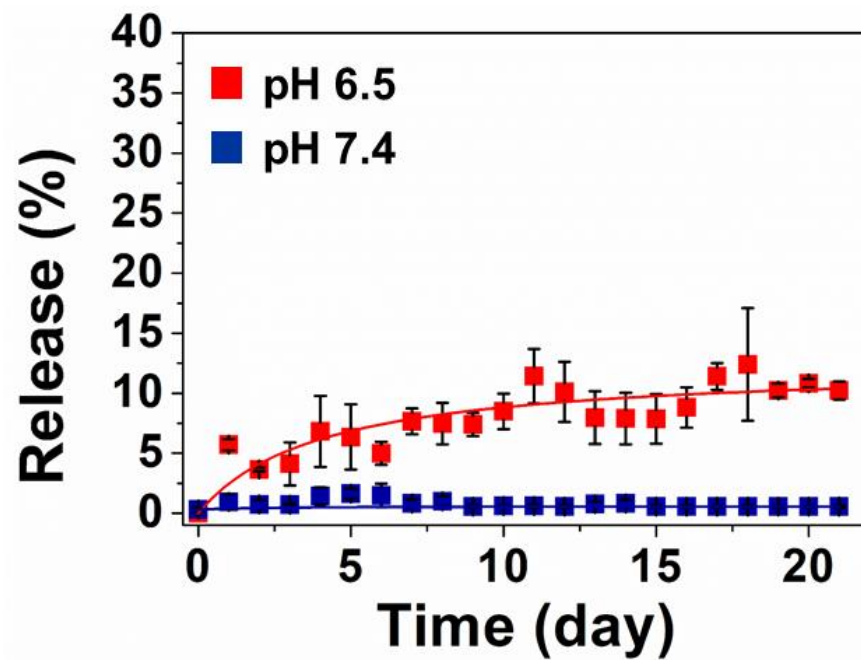


Figure S6. Doxorubicin release from nanofibers at pH 6.5 phosphate buffer.

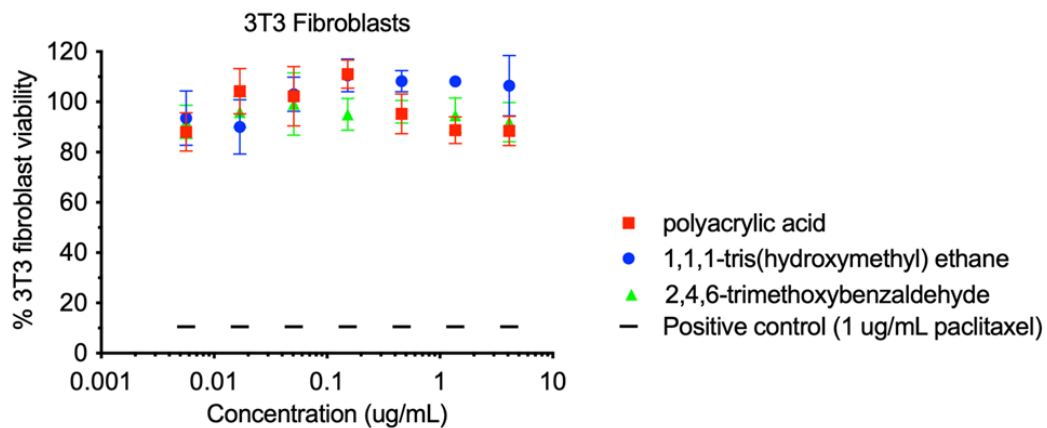


Figure S7. Cytotoxicity of buttress degradation components in 3T3 fibroblasts over three days.

Figure S8. Video showing submersion of a resected, pH-responsive nanofiber buttress reinforced, inflated, porcine-lung in water with no air leaks.