Supplementary Information for

Cryomilling for the fabrication of doxorubicin-containing-silica nanoparticle/polycaprolactone nanocomposite film

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Figure S1. Representative scanning electron microscope image of (A) Mesoporous silica nanoparticles. PCL pellets (B) before and (C) after cryomilling.

Figure S2. FTIR spectrum of SiO$_2$ nanoparticles, PCL, cPCL/Si-Dox (cryomilled), and nPCL/Si-Dox film (non-cryomilled). The IR bands at 1088 and 1168 cm$^{-1}$ are assigned to the TO and LO modes of Si-O-Si asymmetric stretching vibrations.
**Figure S3.** Representative scanning electron microscope image of PCL film fabricated by heat pressing of cryomilled PCL fine powder.

**Figure S4.** Cumulative release profile of doxorubicin from cPCL/Si-Dox film in 50 days. Release profile of cPCL/Si-Dox films averaged over three random areas on the film (R1, R2, R3).