Electronic Supplementary Material (ESI) for Biomaterials Science.

Supplementary Information

3D Cell Printing-fabricated HepG2 Liver Spheroid Model for High-content *In Situ* Quantification of Drug-induced Liver toxicity

*Sera Hong and Joon Myong Song**

College of Pharmacy, Seoul National University, Seoul 08826, South Korea.

*Corresponding author. Email: jmsong@snu.ac.kr

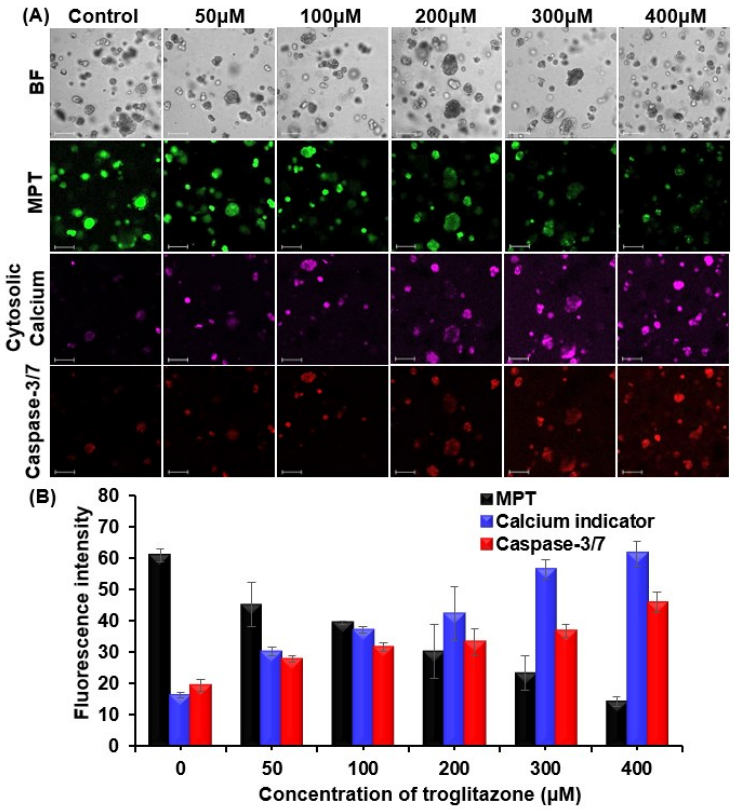

Fig. S1. High-content monitoring of troglitazone-induced hepatotoxicity in 3D hydrogel constructs. (A) 3D embedded HepG2 spheroids treated with 0, 50, 100, 200, 300, 400 μM troglitazone. Scale bars, 100 μm. The upper, upper middle, lower middle, and bottom figures correspond to confocal bright-field, MPT, cytosolic calcium, and caspase-3/7 images. (B) Fluorescence intensities were plotted as a function of drug concentration. MPT, cytosolic calcium increase, and caspase-3 formation were clearly observed.