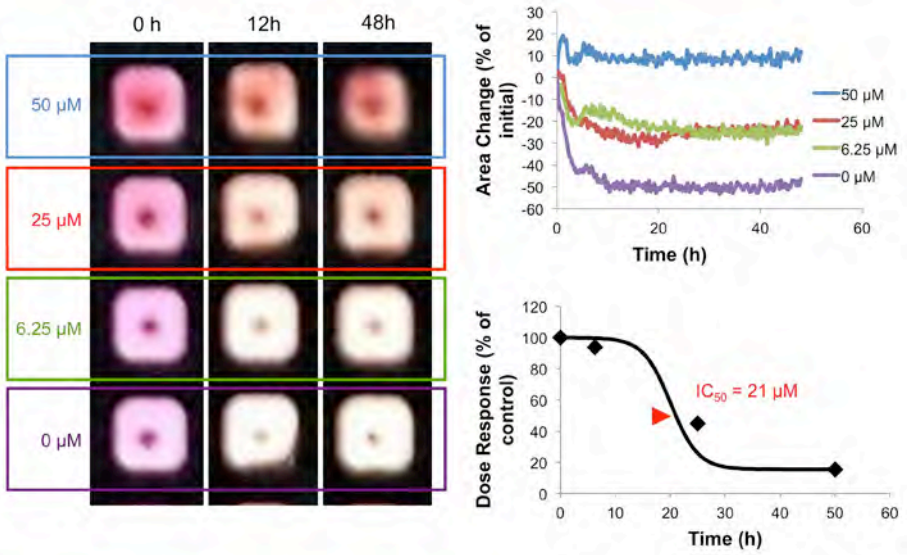
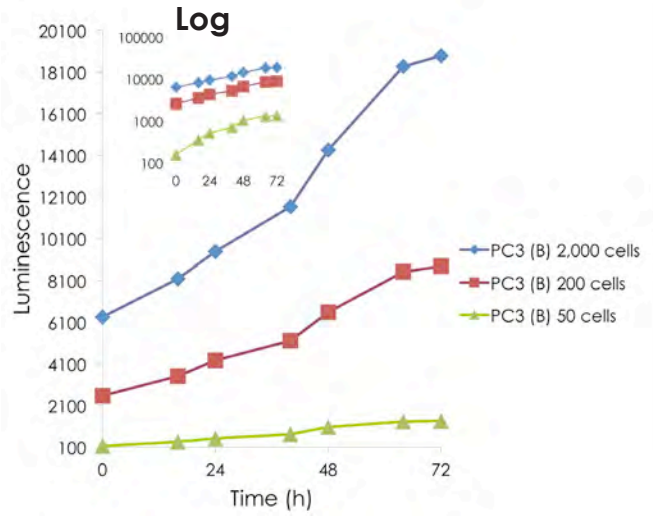
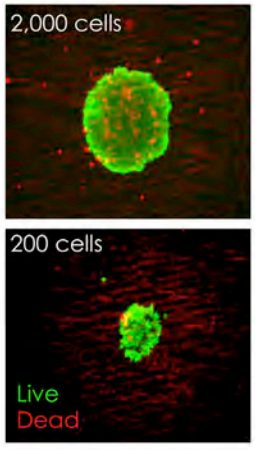
Latest Exciting Results using the 384-well Bioprinting Kit

n3D Biosciences, Inc.

Spheroid contraction of PC3 (B) spheroids exposed to varying amounts of doxorubicin. (Left) Images from the iPod demonstrate that over 48 h, PC3 (B) spheroids contracted in a dose-dependent manner, with vehicle controls contracting faster than those exposed to higher concentrations of doxorubicin. (Top right) Over the course of 48 h, there is a significant difference in the ability of spheroids to contract based on drug concentration. (Bottom right) The dose-dependent response (area change after 48 h) shows a IC50 at 21 µM.

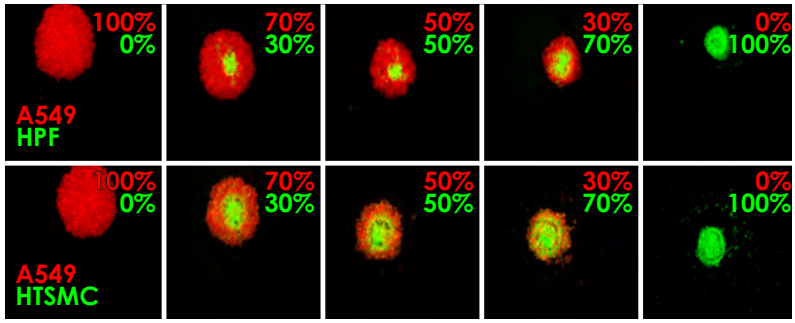






Viability of PC3 (B) spheroids. Measured using the real-time CellTiter-Glo Assay (left), the viability of PC3 (B) spheroids increased over time regardless of starting cell number, indicating that spheroid growth and viability can be tracked in real-time. Live/dead staining (right) after 72 h showed that these spheroids are indeed viable.

Co-cultures of human lung adenocarcinoma alveolar epithelial cells (A549) with either primary human pulmonary fibroblasts (HPF) or primary human tracheal smooth muscle cells (HTSMC). Co-cultures of 10,000 cells were printed using different ratios of cell types to recapitulate tumor micro-environments using magnetic 3D bioprinting that can be tracked easily with fluorescent microscopy.



3D in a 2D Workflow™

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