

Supporting Information

Bio-printing Cell-laden Matrigel/Agarose Constructs

Rong Fan^{1¶}, Marine Piou^{1¶}, Evan Darling², Denis Cormier³, Jun Sun^{4*}, Jiandi Wan^{1*}

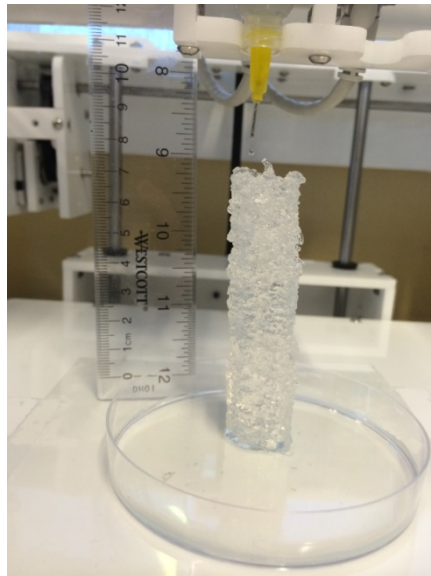


FIGURE S1. 3D printed tubular structure with a height of 8 cm using 2 wt% agarose.

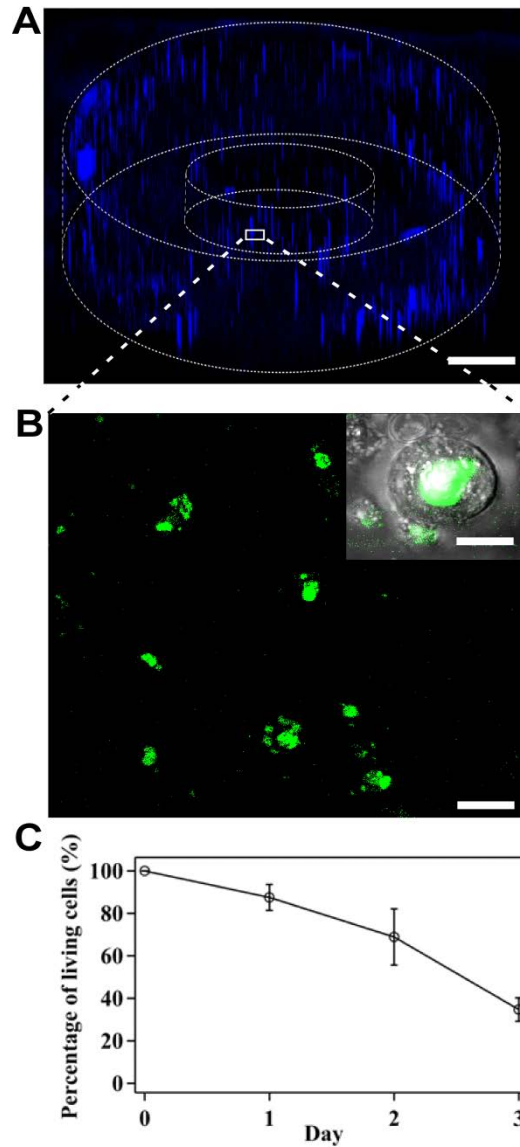


FIGURE S2. Cell growth in 3D printed agarose tubes. (A) A 3D constructed confocal image of a cell-containing agarose tube. Cells were stained with Nuc-blue after culturing for 3 days inside the tube. White dot-lines define the edges of the tube (scale bar = 2 mm). (B) A Fluorescent image of cells stained with Live/Dead assays in the agarose tube after culturing for 1 day (scale bar = 20 μ m). Inset: An image of a single cell in the agarose tube (scale bar = 5 μ m). (C) Cell viability in 3D printed tubular structures using 2 wt% agarose.

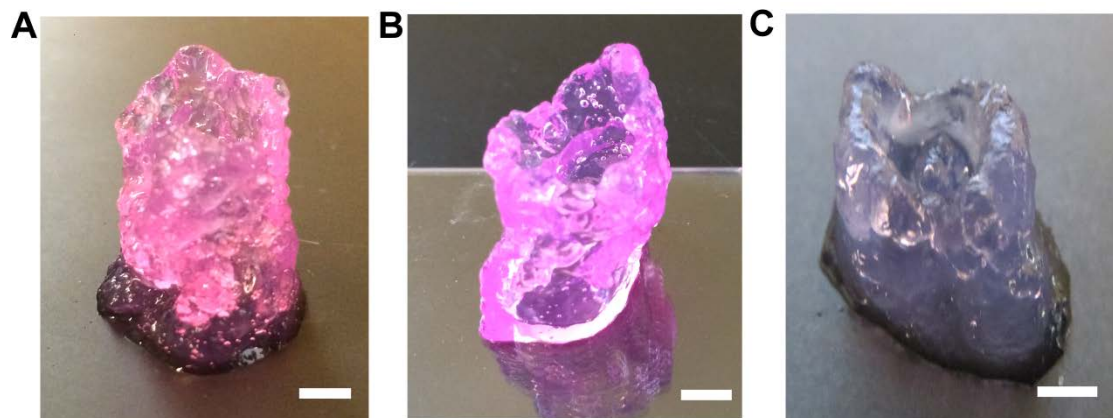


FIGURE S3. Images of tube printed using hybrid hydrogel composed of (A) 15%, (B) 30%, (C) 50% Matrigel and 2 wt% agarose (scale bar: 5 mm).