

Supplemental Fig. 1: Views of a preliminary study using the CDMH where no channels were used. Initially cast as a cylinder, after 60 days, growth and matrix heterogeneities were present and constructs grew with bulges present. a top view, arrow points to crack present. **b** side view of bulged growth profile, arrow points to cracks. c cross sectional view of construct, void interior present (arrow). d Safranin-O histology (4x). Note cracking and void interior (arrow). e Picrosirius red histology (4×). Note cracking and void interior (arrow). f Safranin-O histology (20x). High cell density post scaffold contraction is evident.