

**SUPPLEMENTARY FIG. S4.** Scanning electron microscopic (SEM) images of the cross section of HDF-encapsulating hydrogels with varied *E* of 0.7 (**A**) and 1.6 kPa (**B**). The images were captured after 7 days of cell culture in the hydrogel. Both of two gels displayed interconnected collagen fibers in which the HDFs were entrapped.