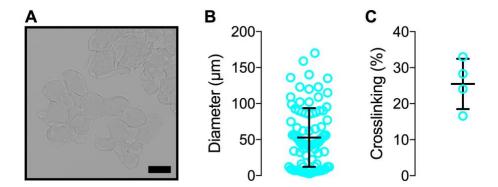
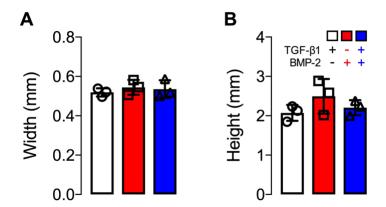
## **Supplementary Material**

Supplementary figures.



Supplemental Figure S1. Characterization of genipin-crosslinked gelatin microspheres. (A) Representative light photomicrograph; scale bar =  $50 \mu m$ , (B) diameter quantification (N = 150), and (C) crosslinking density quantification (N = 4).



Supplemental Figure S2. Characterization of 4-ring hMSC tubes with varied microparticle-mediated morphogen presentation at day 6 of fusion. (A) hMSC tube wall width and (B) height quantification using H&E-stained photomicrographs (N = 3).