

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Ex vivo micro CT evaluation of mouse subcutaneous bone induced by engineered hMSC condensate tubes by week 3. Representative 3-D micro CT reconstructions (rotating around x-axis) of hMSC tube explants containing TGF- β 1-loaded (left), BMP-2-loaded (middle), or TGF- β 1 + BMP-2-loaded (right) microparticles, selected based on mean bone volume

File Name: Supplementary Movie 2

Description: Ex vivo micro CT evaluation of mouse subcutaneous bone induced by engineered hMSC condensate tubes by week 6. Representative 3-D microCT reconstructions (rotating around x-axis) of hMSC tube explants containing TGF- β 1-loaded (left), BMP-2-loaded (middle), or TGF- β 1 + BMP-2-loaded (right) microparticles, selected based on mean bone volume.

File Name: Supplementary Movie 3

Description: Ex vivo microCT evaluation of rat femoral defect healing induced by engineered hMSC condensate tubes and sheets by week 12. Representative 3-D microCT defect reconstructions (rotating around x-axis), implanted with hMSC tubes (left) or sheets (right) containing TGF- β 1 + BMP-2-loaded microparticles, selected based on mean bone volume, with virtual transaxial sectioning until mid-shaft.

File Name: Supplementary Data 1

Description: Source data underlying all Figures and Supplementary Figures.