



SUPPLEMENTARY FIG. S2. TBI permits transplanted BMSC engraftment and subsequent new bone formation in a cell dose-dependent fashion. Representative three-dimensional reconstructions of microcomputed tomography (μ CT) images 4 weeks post-transplantation (side, coronal, and transverse view; region of interest: starting immediately beyond the epiphyseal plate and extending 2 mm distally by transaxial tracing for 135 cuts). (**A–E**) Nonirradiated and (**F–J**) irradiated animals. (**A, F**) Vehicle-transplanted (right) tibiae and BMSC-transplanted (left) tibiae at (**B, G**) 1.32×10^5 (1%), (**C, H**) 1.32×10^6 (10%), (**D, I**) 6.60×10^6 (50%), or (**E, J**) 1.32×10^7 cells/mL (100%) (EP: epiphyseal plate, side view: scale bar 1 mm, coronal and transverse views: scale bar 500 μ m, $n=7$ animals per group).