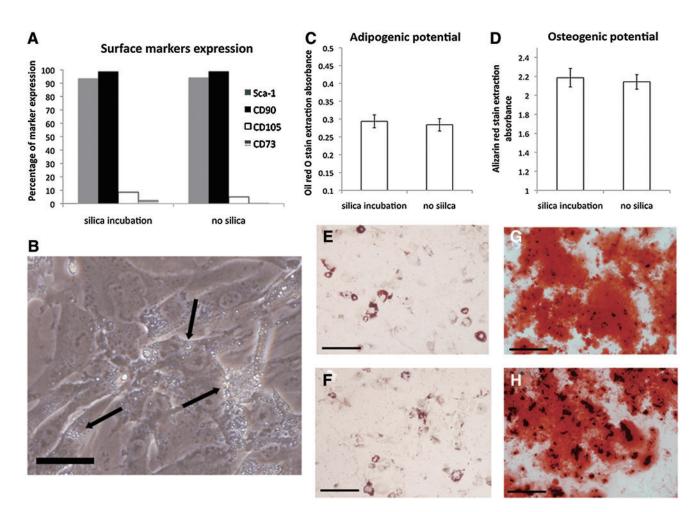
Supplementary Data



SUPPLEMENTARY FIG. S1. Minimal influence of silica microbeads incubation on BMSCs' surface markers expression and differentiation abilities. Passage 7 NS-BMSCs were incubated overnight with $100 \,\mu$ g/mL silica microbeads. Surface markers expression and differentiation potentials were tested after overnight incubation. (A) Comparison of surface markers expression between silica incubation group and control group. (B) BMSCs engulfing silica microbeads after incubation (*black arrows*). (C) Comparison of oil red O stain extraction absorbance of silica incubation group and nonincubation control group after 7 days' adipogenic differentiation. (D) Comparison of alizarin red stain extraction absorbance of silica incubation group and control group after 3 weeks' osteogenic differentiation. (E, F) Oil red O staining of 7 days' differentiated BMSCs with (F) or without (E) silica microbeads incubation. (G, H) Alizarin red staining of 3 weeks' differentiated BMSCs with (H) or without (G) silica microbeads incubation. Scale bars: (B) = 50 μ m; (E–H) = 500 μ m. BMSCs, bone marrow stromal cells.