

# Osteogenic Differentiation of Bone Marrow-Derived Mesenchymal Stem Cells in Electrospun Silica Nonwoven Fabrics

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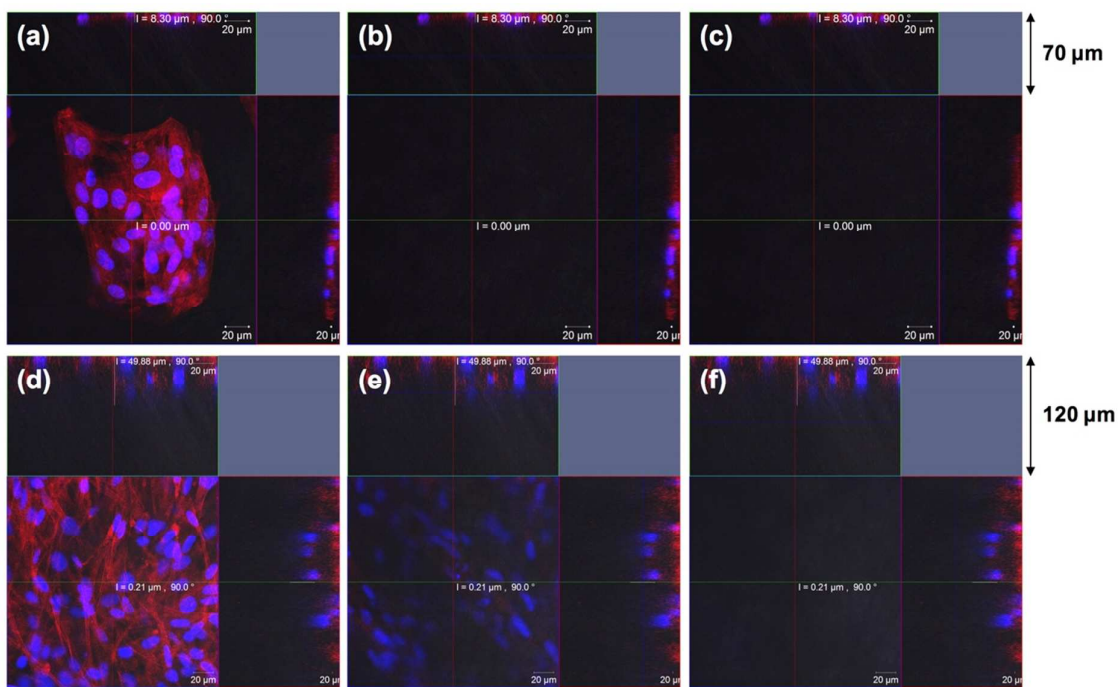
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Silica, Nonwoven Fabrics, Mesenchymal Stem Cell, Osteogenesis

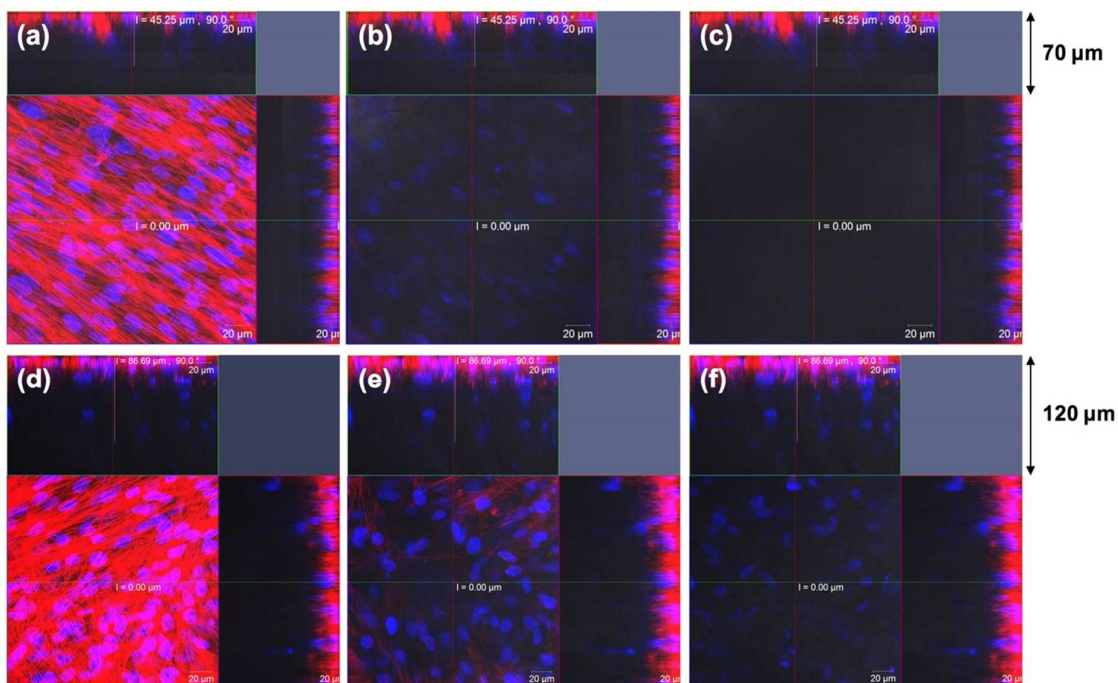
Supporting Information.

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**Figure S1.** Confocal-laser scanning microscope (CLSM) images showing proliferation of MSCs on 3D silica nonwoven fabrics 7 days (a, b, c) and 14 days (d, e, f) after seeding at cell density of  $3 \times 10^4$ . In each case, single optical slices near to the silica fabric surface (1.76  $\mu\text{m}$ , a, d), middle (36.96  $\mu\text{m}$ , b, e) and near bottom (66.87  $\mu\text{m}$ , c, f) were shown. Cellular nuclei and skeletons were stained with Hoechst 33342 (blue) and Alexa Fluor 594 phalloidin (red), respectively. Scale bars: 20  $\mu\text{m}$ .



**Figure S2.** Confocal-laser scanning microscope (CLSM) images showing proliferation of MSCs on 3D silica nonwoven fabrics 7 days (a, b, c) and 14 days (d, e, f) after seeding at cell density of  $3 \times 10^5$ . In each case, single optical slices near to the silica fabric surface (1.76  $\mu\text{m}$ , a, d), middle (36.96  $\mu\text{m}$ , b, e) and near bottom (66.87  $\mu\text{m}$ , c, f) were shown. Cellular nuclei and skeletons were stained with Hoechst 33342 (blue) and Alexa Fluor 594 phalloidin (red), respectively. Scale bars: 20  $\mu\text{m}$ .