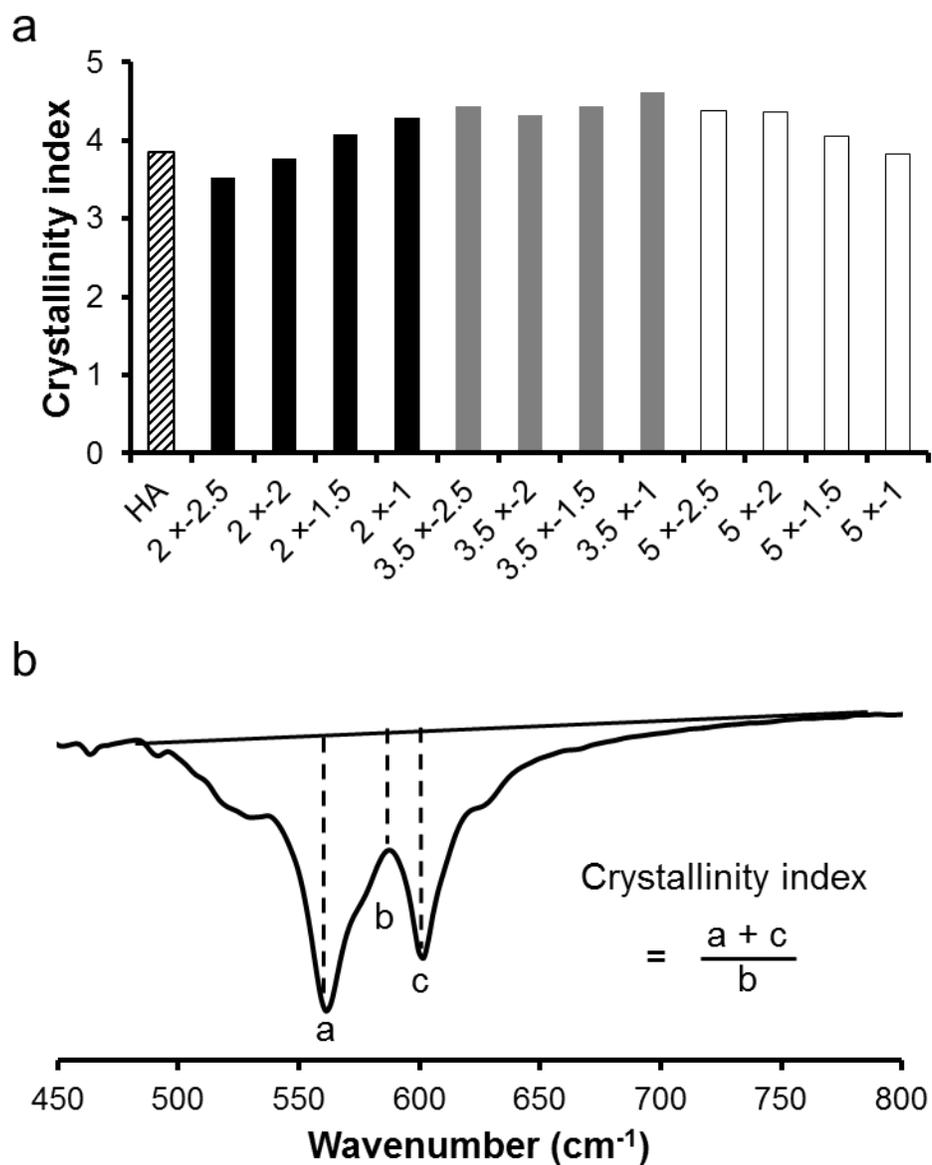


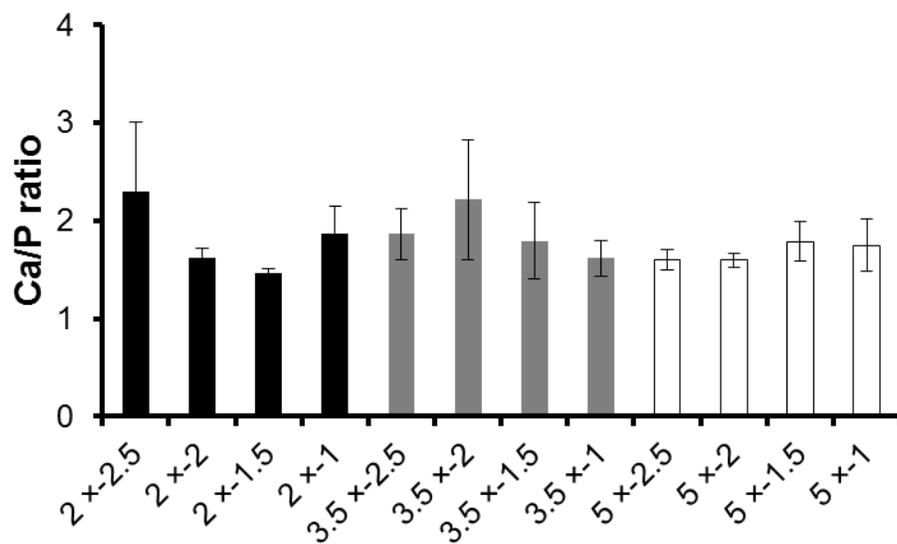
Supplementary Information

The effect of mineral coating morphology on mesenchymal stem cell attachment and expansion

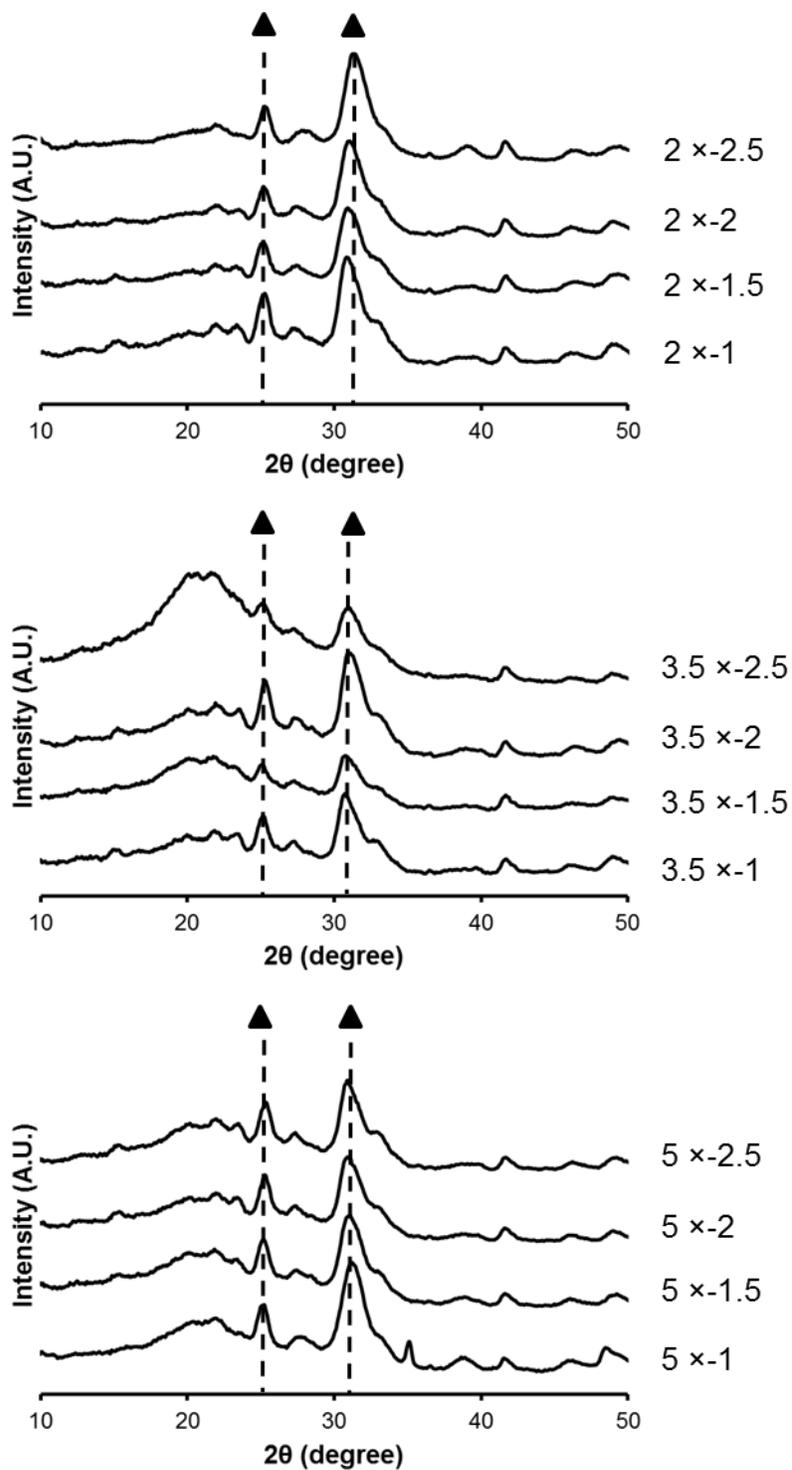
Siyoung Choi and William L. Murphy



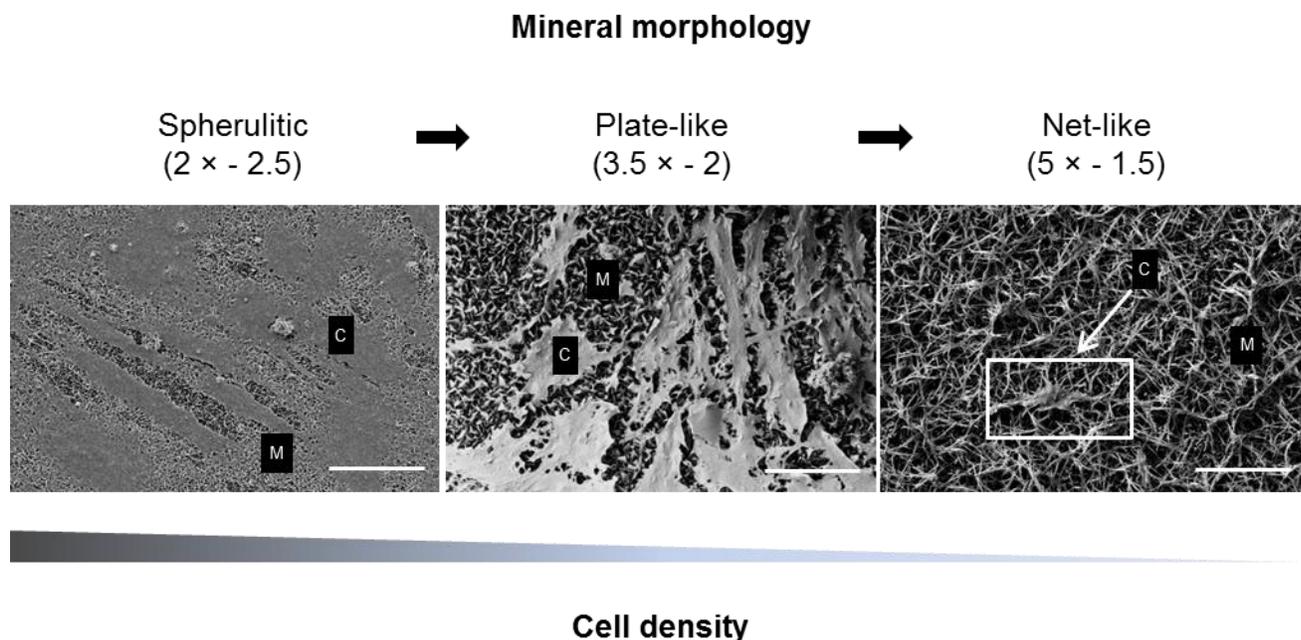
Supplementary Fig. 1 (a) Crystallinity index of mineral coatings compared with hydroxyapatite (HA). (b) Schematic representation of calculating crystallinity index. The heights of the absorption peaks at 603 cm⁻¹ and 565 cm⁻¹ from baseline are summed and divided by the height of the valley between them.



Supplementary Fig. 2 Calcium/Phosphorous (Ca/P) ratio of mineral coatings.



Supplementary Fig. 3 XRD patterns of mineral coatings. The peaks at 26° and 31° correspond to the planes of hydroxyapatite (\blacktriangle).



Supplementary Fig. 4 SEM images of hMSC after a 4 day incubation on 2 × -2.5 (left), 3.5 × - 2 (middle), and 5 × 1.5 (right) mineral coatings. Scale bar = 50 μm. C and M indicate hMSC and CaP mineral respectively.