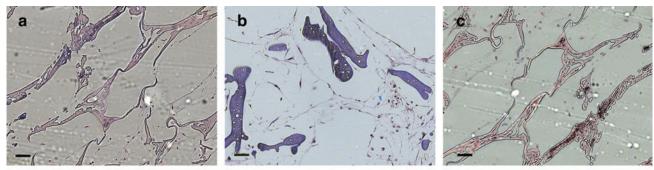


SUPPLEMENTAL FIG. S1. Scanning electron microscopy images of the different treatment groups cultured with human mesenchymal stem cells at week 2. Figure 1 (a), (b), (c), and (d) shows the presence of cells within scaffolds in groups 1 (control), 2 ($5 \times$ lysine and proline), 3 (low oxygen), and 4 (combined effect of low oxygen, $5 \times$ lysine and proline), respectively, at $200 \times$ (scale bars = 100μ m).



50 um

SUPPLEMENTAL FIG. S2. Images of (a) collagen type I immunostaining, (b) hematoxylin and eosin staining, and (c) von Kossa staining of the groups at week 2, under light microscope at $20 \times$. All scale bars = $50 \,\mu$ m. The image shows less collagen (brown) and calcium (black) deposition at week 2 than at week 7 (Fig. 2).