

Mineralization of 3D Osteogenic Model Based on Gelatin-Dextran Hybrid Hydrogel Scaffold Bioengineered with Mesenchymal Stromal Cells: A Multiparametric Evaluation

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Table S1. Overview of the phospholipid species identified by in situ MALDI-MS/MS LID-LIFT™ fragmentation. Lipid identification was obtained by cross-referencing the product ion spectra with lipids listed in the METLIN, HMDB, and Lipid Maps databases.

Precursor m/z	m/z product ions	Lipid ID
885.57	601, 599, 581, 419, 303, 283, 241, 153, 97, 79	PI(18:0/20:4)
863.57	599, 581, 419, 283, 281, 241, 153, 97, 79	PI(18:0/18:1)

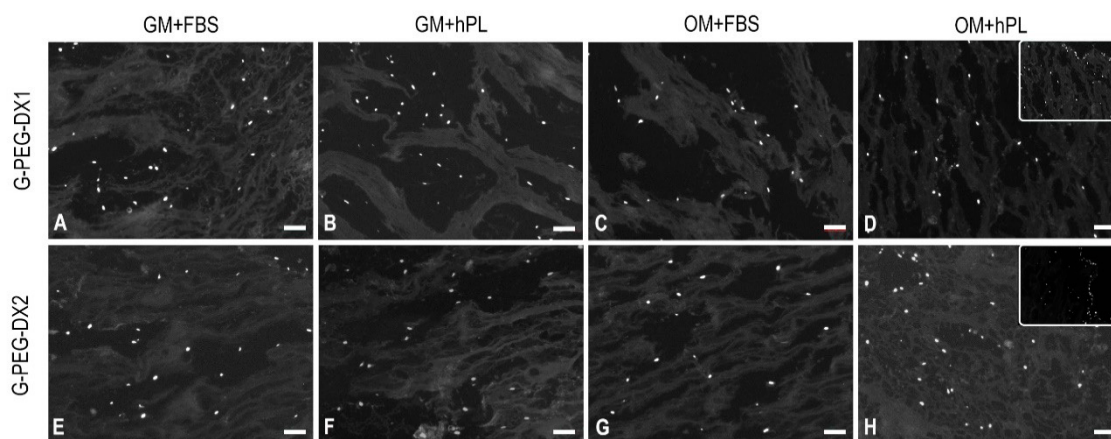


Figure S1. Microphotographs of DAPI positive cell nuclei for cell colonization. Microphotographs of G-PEG-Dx1 (A–D) and G-PEG-Dx2 (E,H) under the different culture conditions: GM+FBS (A,E), GM+hPL (B,F), OM+FBS (C,G), OM+hPL (D,H). Scale bar: 500 µm.

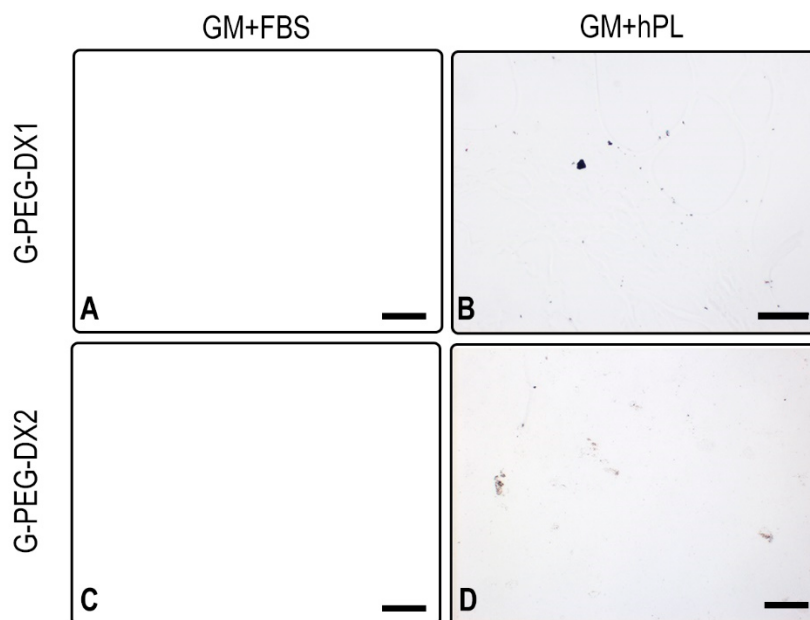


Figure S2. Calcium deposit distribution in hydrogels using Von Kossa stain. Microphotographs of G-PEG-Dx1 (A,B) and G-PEG-Dx2 (C,D) under GM-FBS (A,C) and GM-HPL (B,D). Scale bar (A,B,C) 100 µm and scale bar (B) 20 µm. A,C appears without deposits.