



Supplementary Materials: Bone Morphogenic Protein 2-Loaded Porous Silicon Carriers for Osteoinductive Implants

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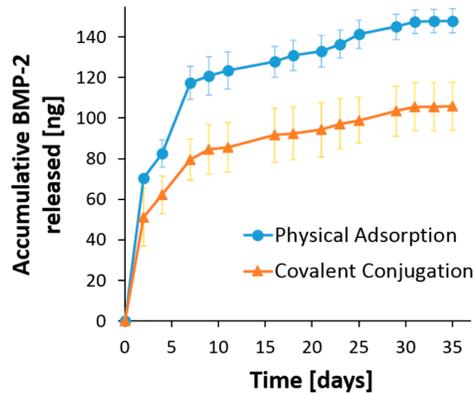


Figure 1. BMP-2 release from PSiO₂ carriers that were loaded by physical adsorption vs. covalent attachment of the protein, expressed as the accumulative BMP-2 mass released over time.

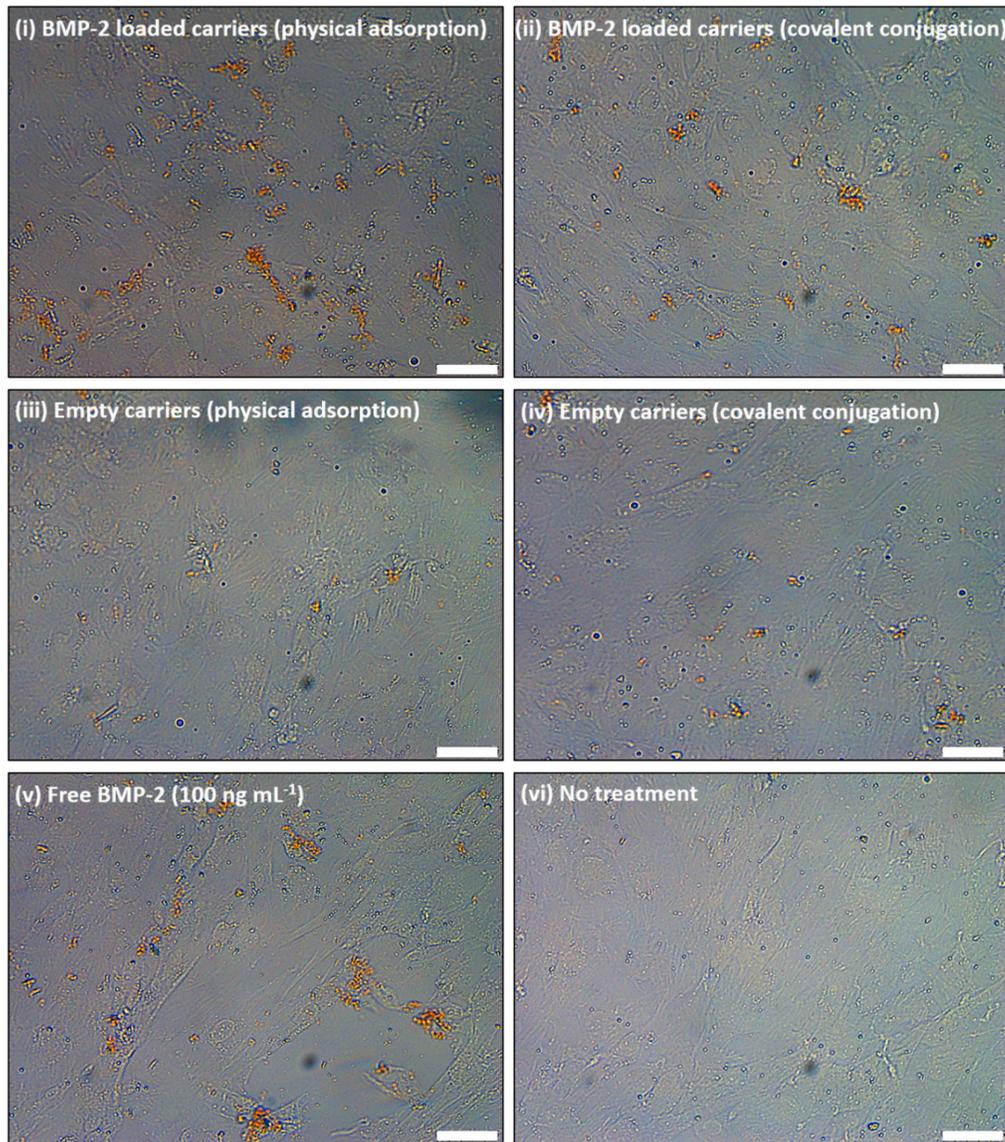


Figure S2. ALP staining of differentiated BM-MSCs after 14 days. Representative light micrographs of cells exposed to (i) BMP-2-loaded P_{SiO}₂ carriers via physical adsorption, (ii) BMP-2-loaded P_{SiO}₂ carriers via covalent conjugation, (iii) empty P_{SiO}₂ carriers, (iv) empty chemically-modified P_{SiO}₂ carriers, (v) free BMP-2 solution (100 ng mL⁻¹) and (vi) no treatment (control, cells only). Scale bar = 75 μm.