

Supplementary Materials

Cellular Response to Bone Morphogenetic Proteins-2 and -7 Covalently Bound to Photocrosslinked Heparin–Diazoresin Multilayer

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1. Covalent bonds formation.

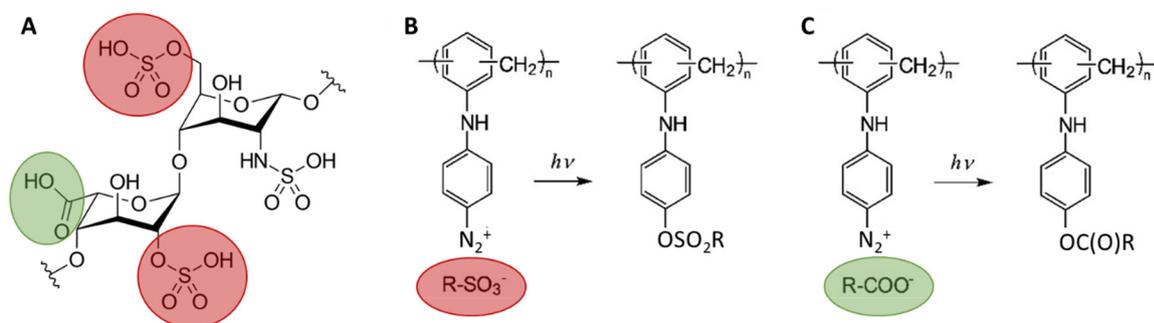


Figure S1. (A) Heparin structure with marked groups prone to photocrosslinking with DR. Photocrosslinking reaction between diazonium groups of (B) DR and sulfate and (C) carboxyl groups of HP.

2. ELISA assay

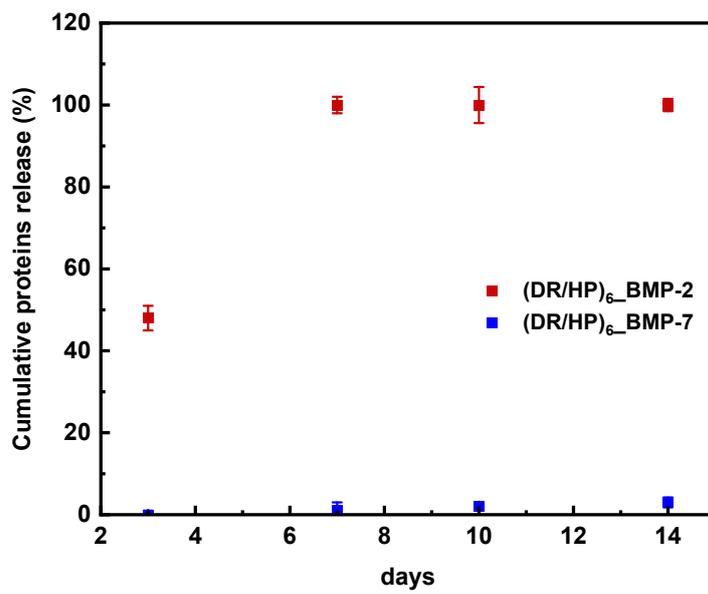


Figure S2. Release of rhBMP-2 and rhBMP-7 from (DR/HP)₆ surfaces measured with ELISA assays.

3. Cell migration

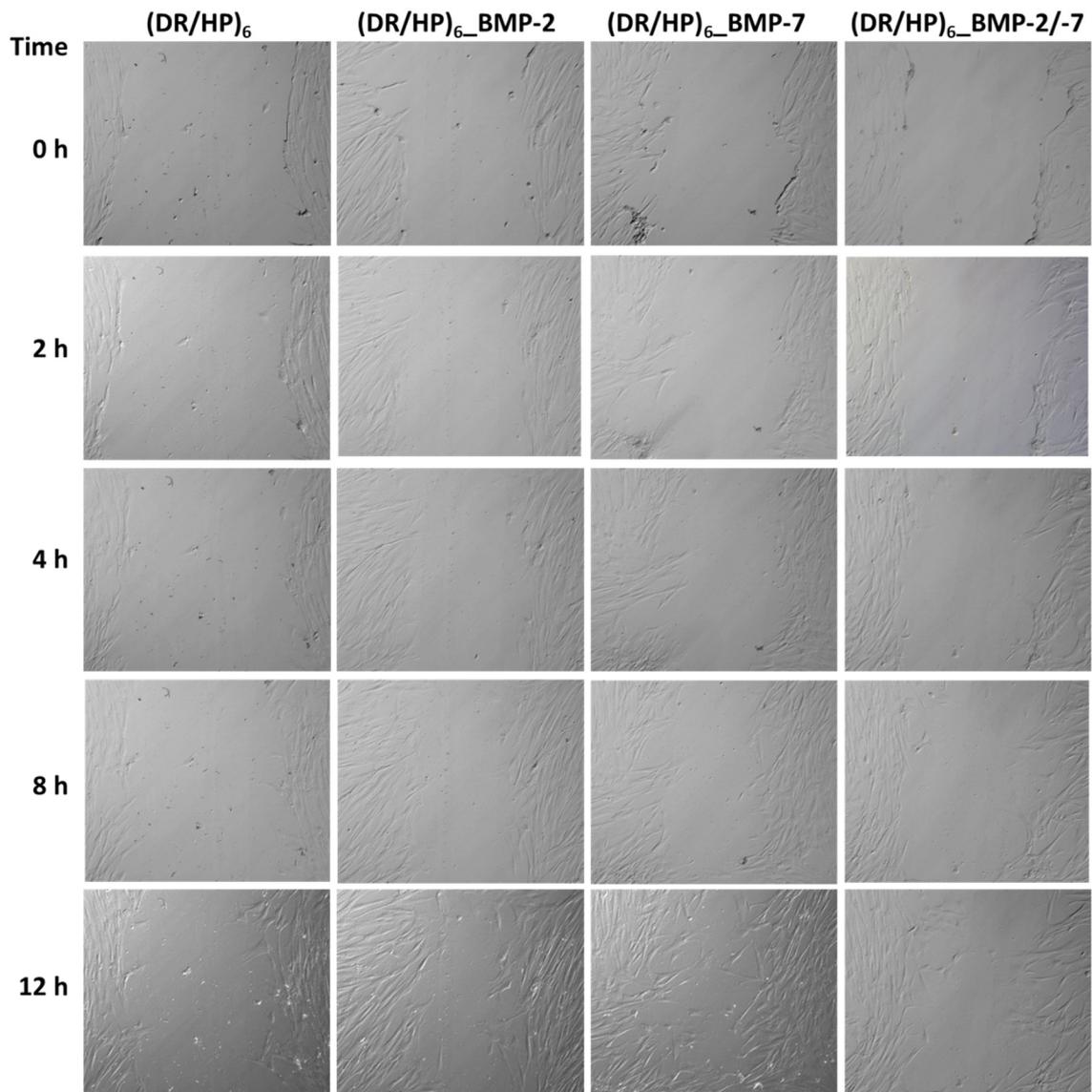


Figure S3. Micrographs of hUC-MSC migrating into the scratched cell-free areas taken immediately after “the injury”, after 2, 4, 8 and 12 h of continuous cell migration into the wound.

4. Real-time PCR

Table S1. Primer list and primer sequences that were used in quantitative real-time PCR analysis of transcripts involved in osteogenic differentiation. F - forward sequence; R - reverse sequence.

Primer Name	Sequence
Human GAPDH -F	CTTTTGCGTCGCCAG
Human GAPDH -R	TTGATGGCAACAATATCCAC
Human ALPL -F	CTATCCTGGCTCCGTGCTCC
Human ALPL -R	TTAACTGATGTTCCAATCCTGCG
Human OCN -F	GACTGTGACGAGTTGGCTGA
Human OCN -R	CTGGAGAGGAGCAGAACTGG
Human RunX2 -F	GGAGTGGACGAGGCAAGAGTTT
Human RunX2 -R	AGCTTCTGTCTGTGCCTTCTGG