

Electronic Supplementary Information (ESI) for:

**Osteoconductive Surfaces Generated From Peptide
Functionalized Poly(2-Hydroxyethyl Methacrylate-co-2-
(Methacryloyloxy)Ethyl Phosphate) Brushes[†]**

Dusko Paripovic,¹ Heike Hall-Bozic^{2,±} and Harm-Anton Klok^{1,}*

¹École Polytechnique Fédérale de Lausanne (EPFL), Institut des Matériaux and Institut des Sciences et
Ingénierie Chimiques, Laboratoire des Polymères, Bâtiment MXD, Station 12, CH-1015 Lausanne,
Switzerland

²ETH Zürich, Cells and BioMaterials, Department of Materials, CH-8093 Zurich, Switzerland

dusko.paripovic@epfl.ch, heike.hall@mat.ethz.ch, harm-anton.klok@epfl.ch

* Corresponding author: Email: harm-anton.klok@epfl.ch; Fax: + 41 21 693 5650; Tel.: + 41 21 693

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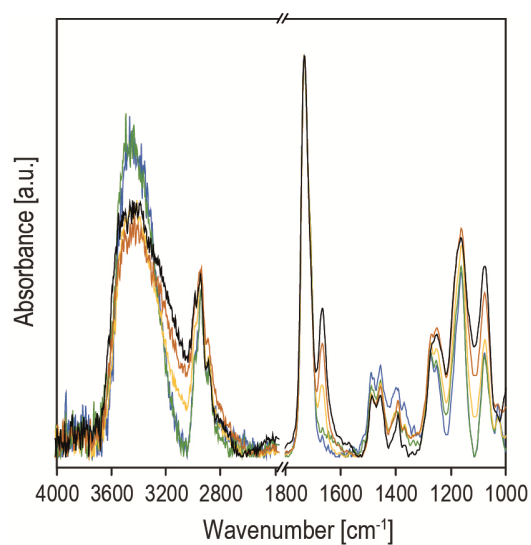


Figure S1. FTIR spectra of non-GGGRGDS modified PHEMA (blue), P(HEMA-co-MEP₄) (green), P(HEMA-co-MEP₈) (yellow), P(HEMA-co-MEP₂₃) (amber) and P(HEMA-co-MEP₃₄) (black) brushes.

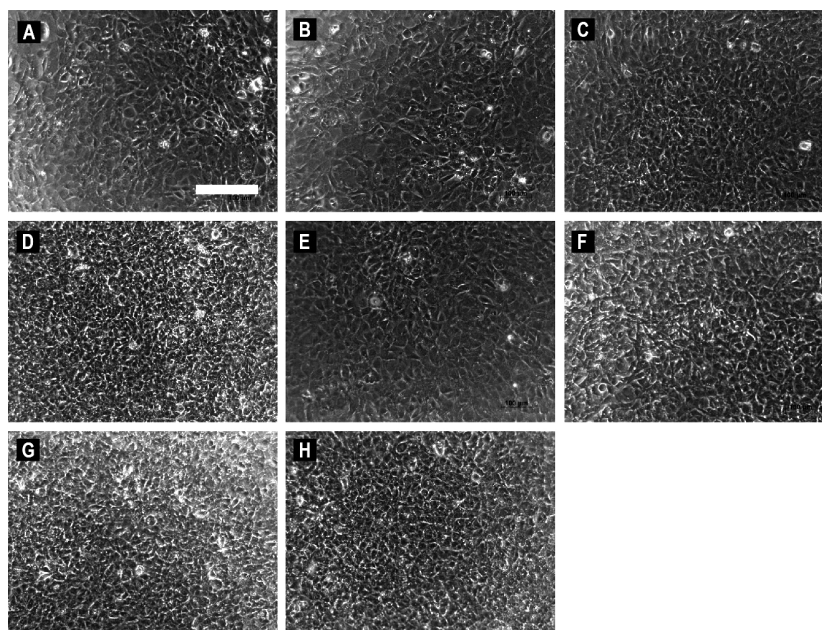


Figure S2. Phase contrast micrographs of cells that were cultured for two weeks in osteogenic medium (rhBMP-2 and β -glycerophosphate) seeded over (A) PHEMA • RGD, (B) P(HEMAco-MEP₄) • RGD, (C) P(HEMA-co-MEP₈) • RGD, (D) P(HEMA-co-MEP₂₃) • RGD, (E) P(HEMA-co-MEP₃₄) • RGD, (F) TCP, (G) P(HEMA-co-MEP₂₃) and (H) P(HEMA-co-MEP₃₄). Scale bar = 100 μ m.

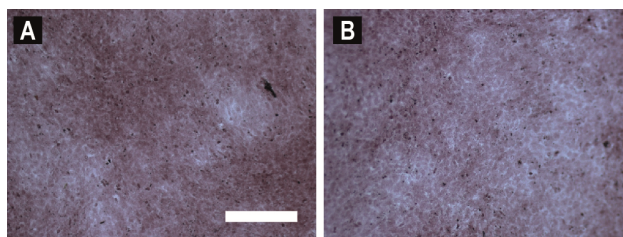


Figure S3. Optical micrographs of Alizarin red stained cells that were cultured two weeks over (A) P(HEMA-co-MEP₂₃) and (B) P(HEMA-co-MEP₃₄) surfaces in an osteogenic medium containing rhBMP-2 and β -glycerophosphate. Scale bar = 200 μ m.