

Supporting Information

Nano-scale clustering of integrin-binding ligands regulates endothelial cell adhesion, migration, and endothelialization rate: novel materials for small diameter vascular graft applications

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Fig. S1. (A) ^1H NMR spectrum of acrylate-PEG-peptide monomer in deuterated water, and (B) ^1H NMR spectrum of MMA/PEGMA polymer in deuterated chloroform.

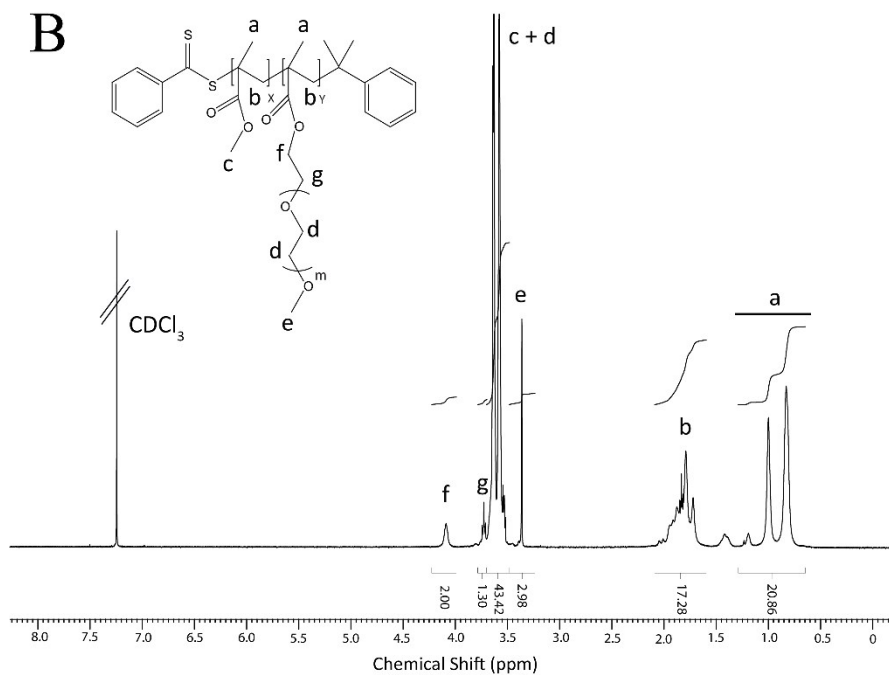
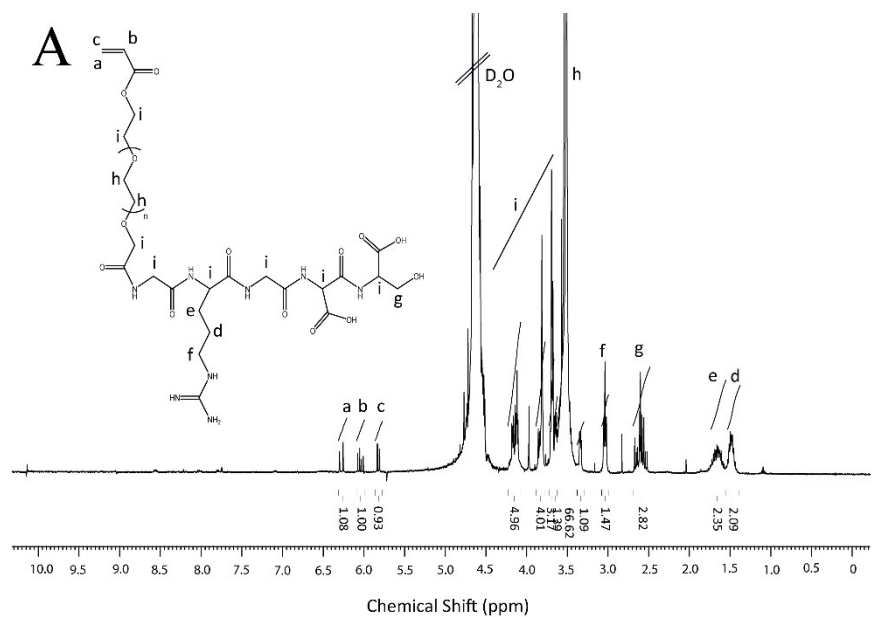


Fig. S2. Fibrinogen adsorption on MMA/PEGMA with different percentages of PEG in the polymer composition. * $P < 0.05$ (n=8)

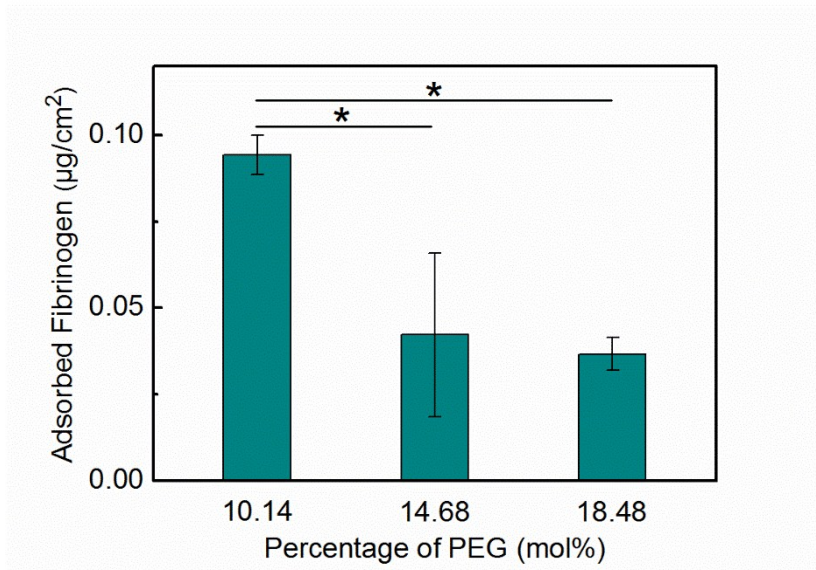


Fig. S3. HUVEC adhesion on MMA/PEGMA with (A) 10.14 mol% (B)14.68 mol%, and (C)18.48 mol% of PEG-containing repeat units in the polymer at day 1. Scale bar represents 100 μm , and applies to all images.

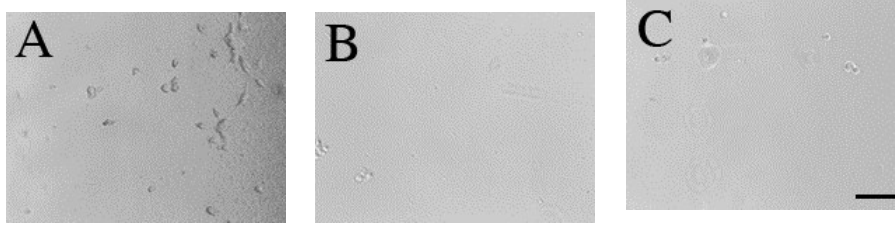


Fig. S4. Adsorption of human plasma fibrinogen on various biomaterial surfaces. Asterisk (*) represent statistical difference where $p < 0.05$, (n=8).

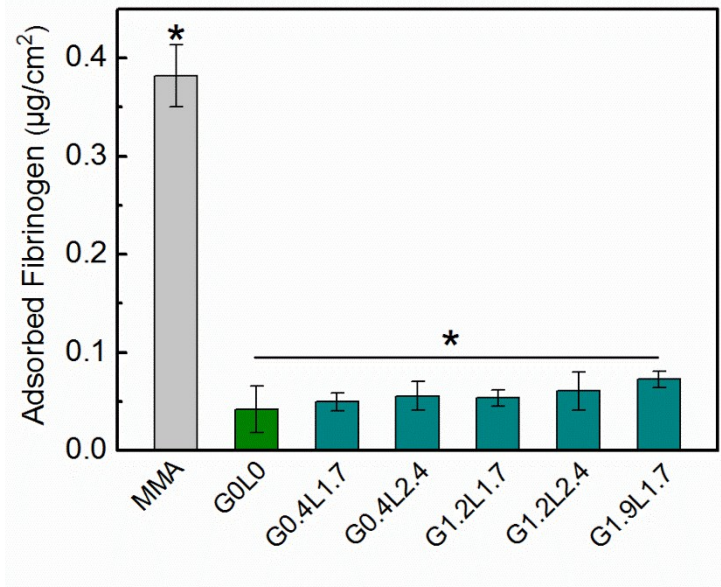


Fig S5. Proliferation of HUVECs on various random and clustered surfaces over 7 days.

Scale bar represents 100 μm .

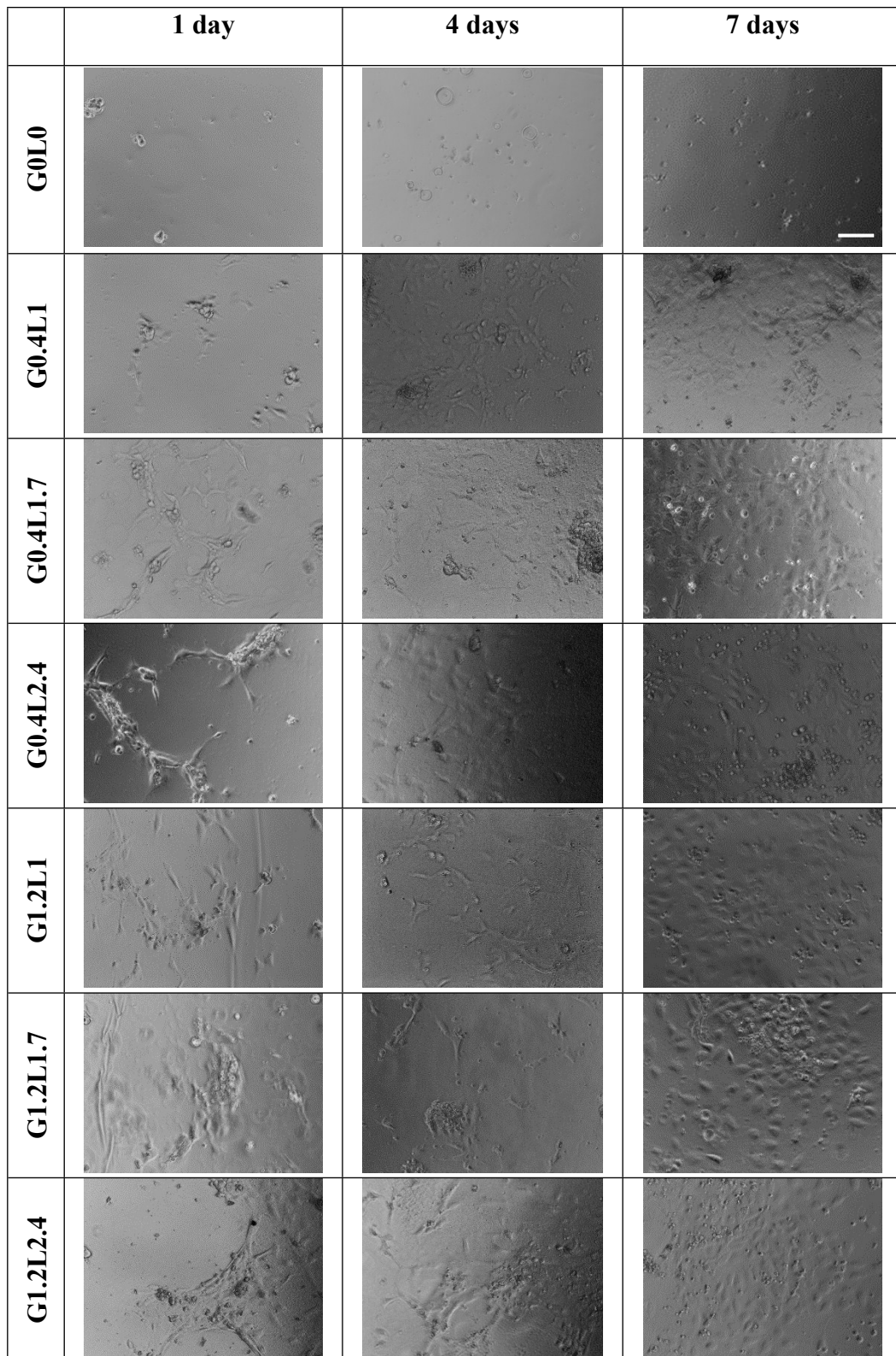


Fig. S6. Representative phase contrast images of HUVECs on glass, G1.9L1, G1.9L1.7, and G1.9L2.4 surfaces at 4, 16, and 28 h after seeding. Scale bar represents 50 μm .

