

RESEARCH ARTICLE

Integrating zinc/silicon dual ions with 3D-printed GelMA hydrogel promotes *in situ* hair follicle regeneration

Supplementary file

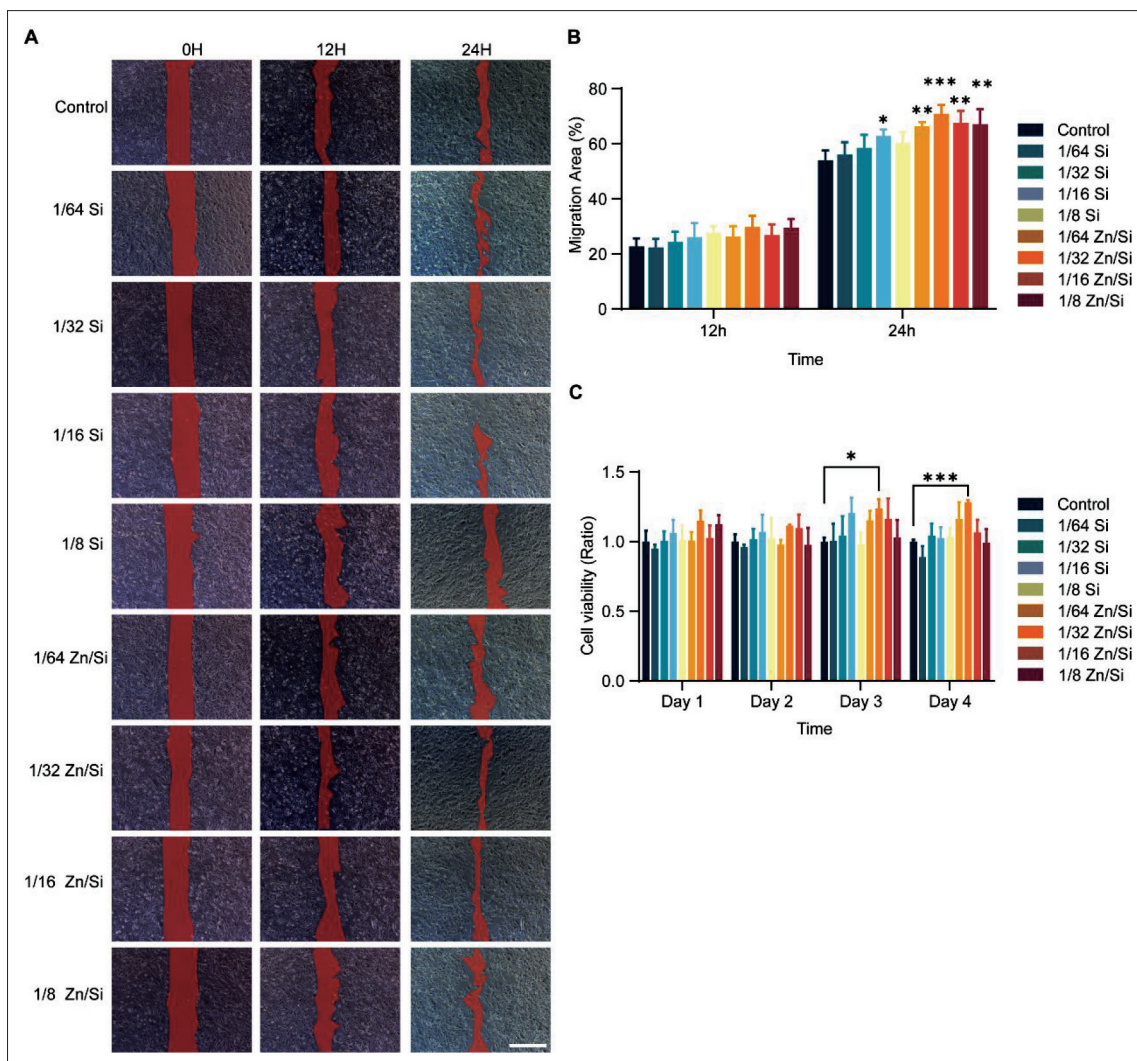


Figure S1. Synergistic effect of various concentration of ions on migration of DP cells. (A) Typical images of DP cells treated with various concentration of ions. (B) Quantitative analysis of scratch wound areas. (C) Percent of the viability of DP cells co-cultured with different concentration of ions. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, **** $P < 0.0001$. $N = 3$ for each time point. All the analyses were performed with two-way ANOVA. Scale bar = 500 μm .

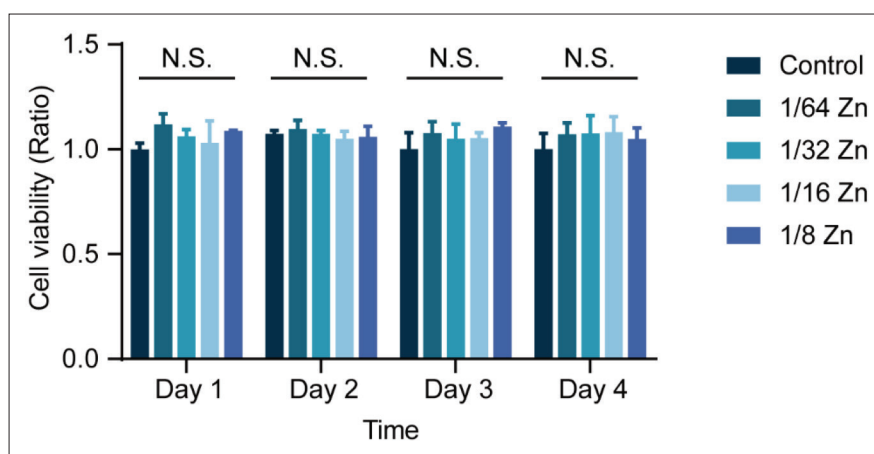


Figure S2. Percent of the viability of HSFs co-cultured with different concentrations of Zn ion solution. N = 3 for each time point. All the analyses were performed with two-way ANOVA.

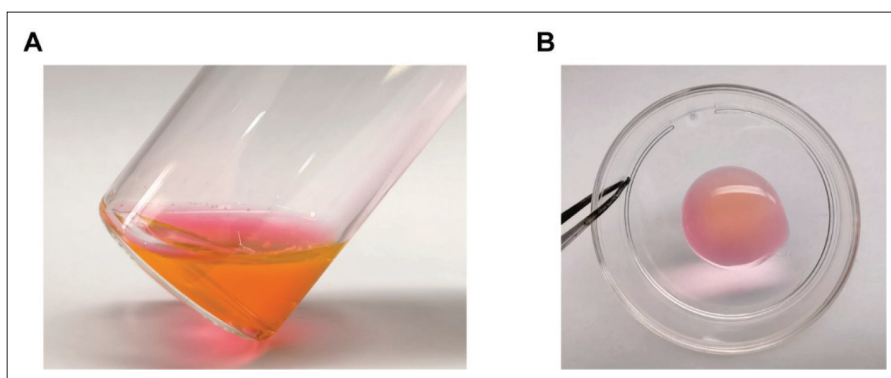


Figure S3. Images of hydrogel. (A) Solution of GelMA-Zn/Si hydrogel. (B) GelMA-Zn/Si hydrogel crosslinked by white light.