

Supplemental File Text

Cell adhesion receptors often transduce signals with other receptors such as IGF-1 or TGF- β receptor to dictate cell fate [1]. As shown in our studies, the addition of cRGD in combination of IGM-3 peptide mimetic is necessary to support MSC survival. Cell viability of MSCs encapsulated in IGM-3 only alginate exhibited significantly lower viability compared to the material presented with both cRGD and IGM-3 peptide mimetic (Fig. S1).

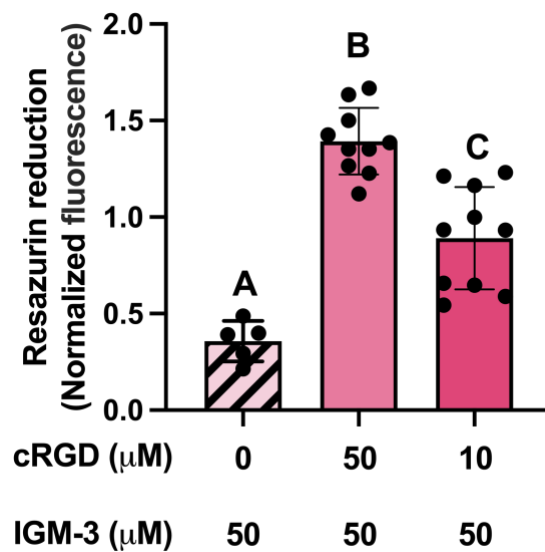


Fig. S1. Combination of cRGD and IGM-3 Peptide Mimetic Supports Cell Survival. Comparison of resazurin reduction in MSCs encapsulated in IGM-3-alginate or varied peptide density of cRGD and IGM-3 on Day 7, normalized to Day 1 values. Data points represent biological replicates with error bars indicating $\pm\text{SD}$. Statistical analyses were performed using one-way ANOVA with Tukey's multiple comparisons test; non-significant results are indicated by the same letter, while significant differences are marked with different letters at $p < 0.05$.

SI References

1. Y. Takada, Y. K. Takada, and M. Fujita, "Crosstalk between insulin-like growth factor (IGF) receptor and integrins through direct integrin binding to IGF1 HHS Public Access," *Cytokine Growth Factor Rev*, vol. 34, pp. 67–72, 2017.