

*Supplementary Information*

## Effects of RGD nanospacing on chondrogenic differentiation of mesenchymal stem cells

Zhenhua Li, Bin Cao, Xuan Wang, Kai Ye, Shiyu Li, Jiandong Ding\*

State Key Laboratory of Molecular Engineering of Polymers, Collaborative Innovation Center of Polymers and Polymer Composite Materials, Department of Macromolecular Science, Advanced Materials Laboratory, Fudan University, Shanghai 200433, CHINA.

\*Correspondence should be addressed to J.D. DING. Tel: 0086-21-65643506; fax: 0086-21-65640293; e-mail: [jdding1@fudan.edu.cn](mailto:jdding1@fudan.edu.cn)

*Keywords:* RGD nanospacing; Chondrogenic differentiation; Mesenchymal stem cell; Nanopattern; PEG hydrogel

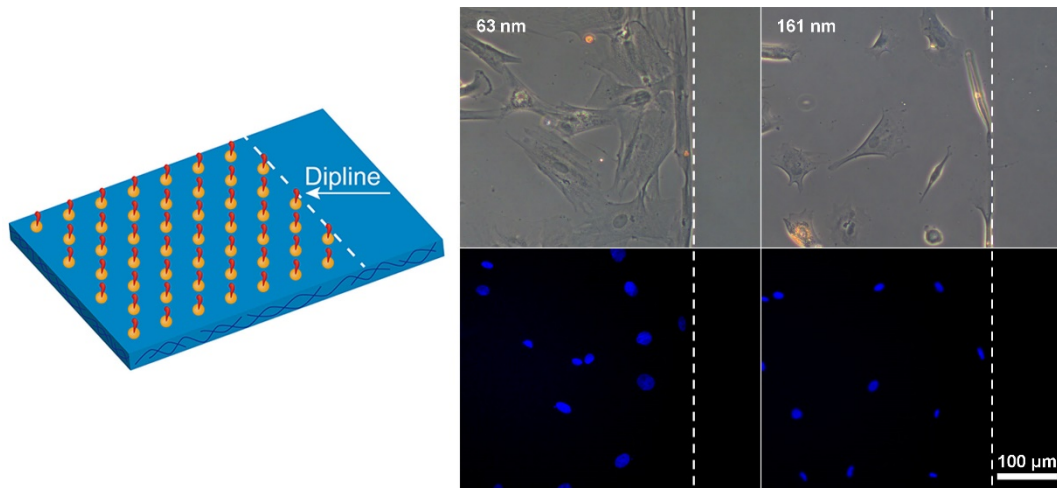


Figure S1. Demonstration of strong and persistent anti-adhesive ability of the PEG hydrogel background. Left: Schematic presentation of RGD nanopattern and dipline on the background of the PEG hydrogel. Right: Phase-contrast micrographs and fluorescence micrographs (blue: nuclei) of MSCs on RGD nanopatterns with indicated nanospacings near the dipline under the condition of chondrogenic culture for ten days.