Chitin Nanofiber Micropatterned Flexible Substrates for Tissue Engineering[†]

Pegah Hassanzadeh,^{‡a} Mahshid Kharaziha,^{‡b,c} Mehdi Nikkhah,^{b,c} Su Ryon Shin,^{b,c,d} Jungho Jin,^a Simeiqi He,^a Wei Sun,^a Chao Zhong,^a Mehmet R. Dokmeci,^{b,c,d} Ali Khademhosseini,^{*b,c,d} and Marco Rolandi^{*a}

^a Department of Materials Science and Engineering, University of Washington, Seattle, WA, 98195, USA,

^b Center for Biomedical Engineering, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA

^c Harvard-MIT Division of Health Sciences and Technology, Massachusetts Institute of Technology, Cambridge, MA 02139, USA

^d Wyss Institute for Biologically Inspired Engineering, Harvard University, Boston, MA 02115, USA

* E-mail: <u>alik@rics.bwh.harvard.edu</u>, <u>rolandi@uw.edu</u>

‡ These authors contributed equally to this work.

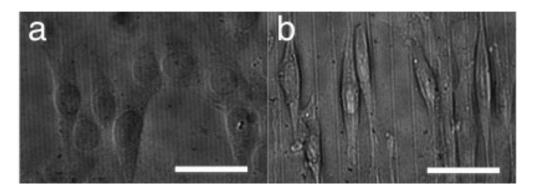


Fig. S1: Phase contrast Images of the cells attached on (a) G1 and (b) G2 micropatterned substrates after 5 days of culture. Scale bars represent 50 μ m.

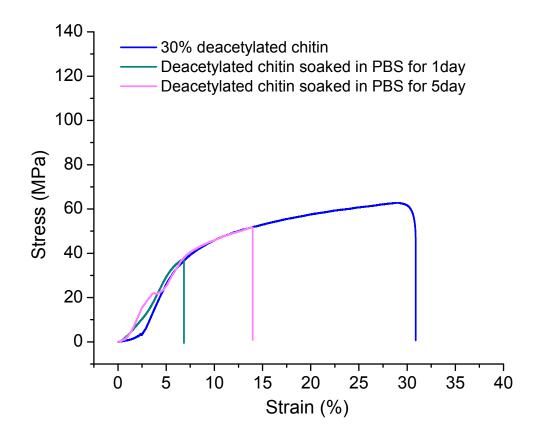


Fig. S2: Tensile test on 30% deacetylated chitin substrates dry and after immersion in PBS for 1 day and for 5 days.