

Supporting Information

Influence of laser-designed microstructures density on responses of epithelial cells

Anca Bonciu^{1,2}, Alixandra Wagner³, Valentina Marascu^{1,4}, Antoniu Moldovan¹, Cerasela Zoica Dinu^{3*} and Valentina Dinca^{1*}

¹National Institute for Lasers, Plasma and Radiation Physics, Atomistilor 409, Magurele, 077125, Romania

²University of Bucharest, Faculty of Physics, RO 077125, Magurele, Romania

³Department of Chemical and Biomedical Engineering, West Virginia University, Morgantown, WV, 20506, USA

⁴Université Paris Saclay, CEA, INRAE, DMTS, SCBM, F-91191 Gif-sur-Yvette, France

*Corresponding authors: valentina.dinca@inflpr.ro, cerasela-zoica.dinu@mail.wvu.edu

Figure S1.

Optical microscopy images of the surface of polycarbonate structures a) LDSU, b) MDSU, c) HDSU at 10× magnification, and d) LDSU, e) MDSU, f) HDSU at 40x magnification respectively.

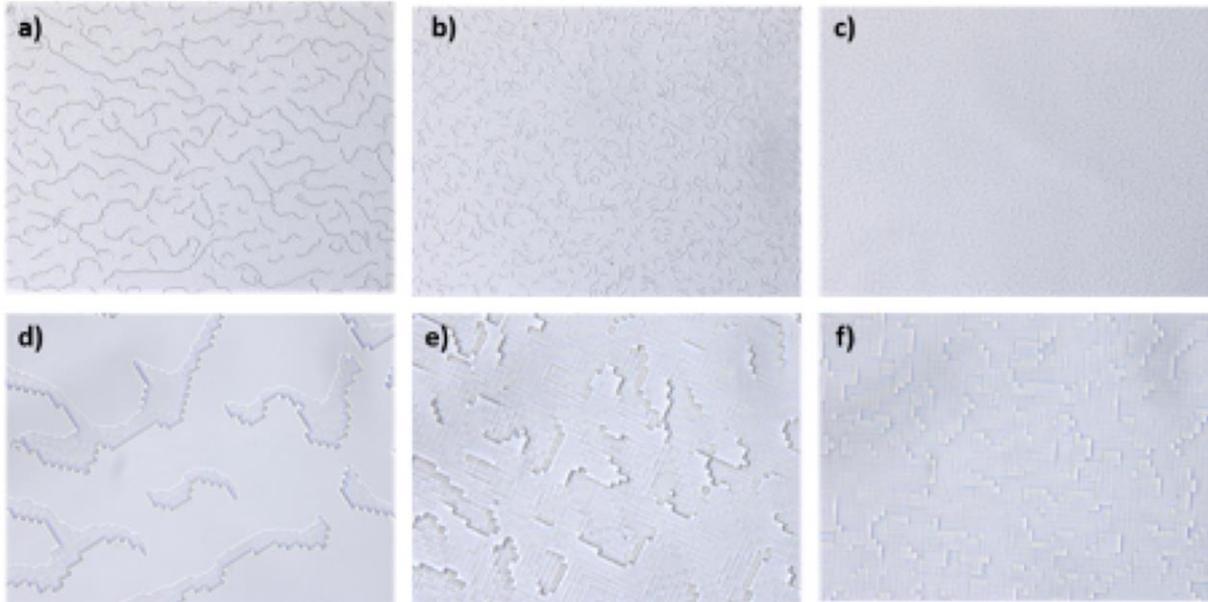


Figure S2:

Force versus distance curves recorded using contact mode AFM on PDMS replicates; analyses were performed in three zones with different heights being analyzed on a) PDMS controls, b) LDSU, c) MDSU, and d) HDSU structures respectively.

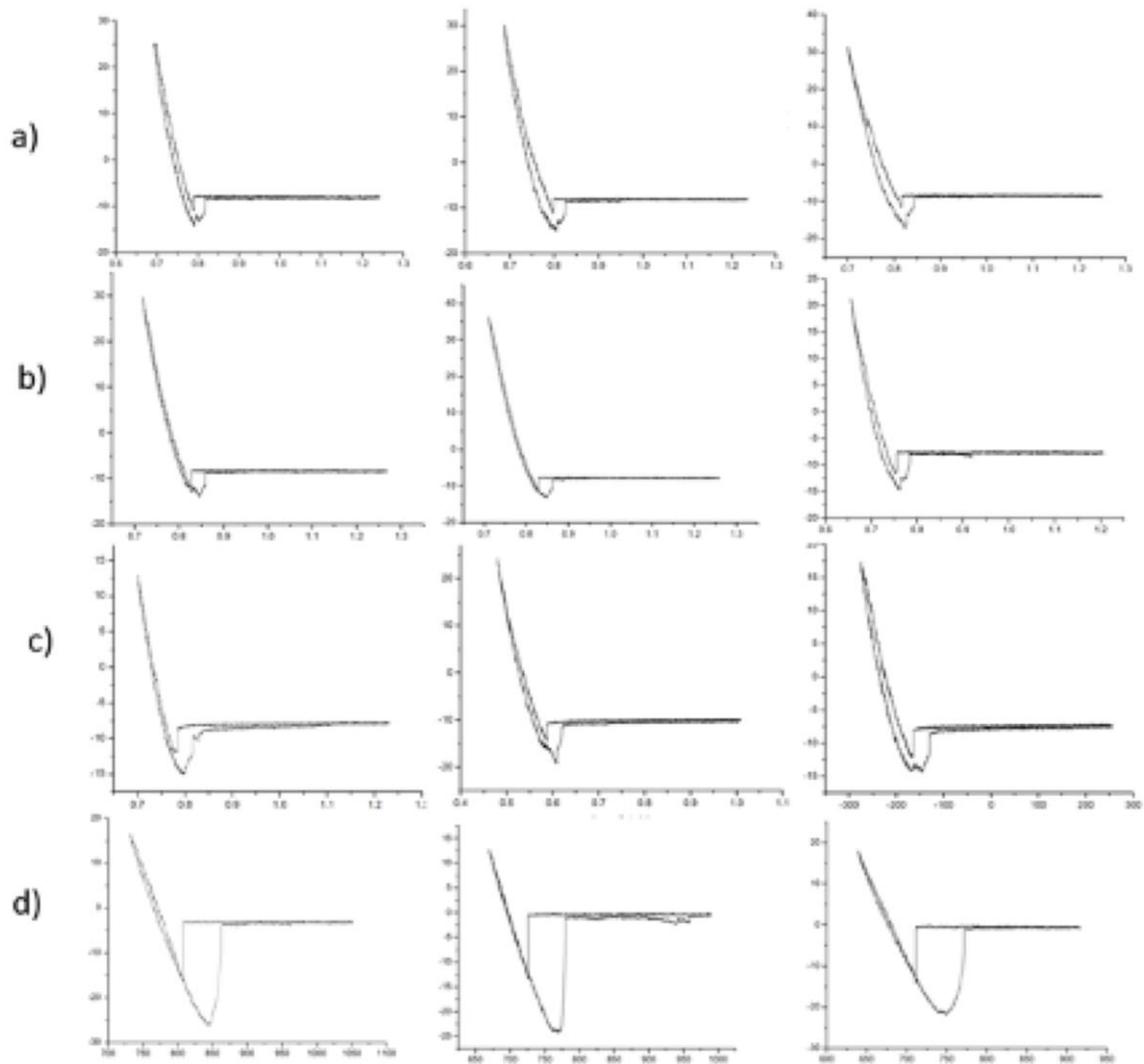


Figure S3.

Representative AFM image depicting analysis of distance between high, intermediate (red) and shallow structures (red).

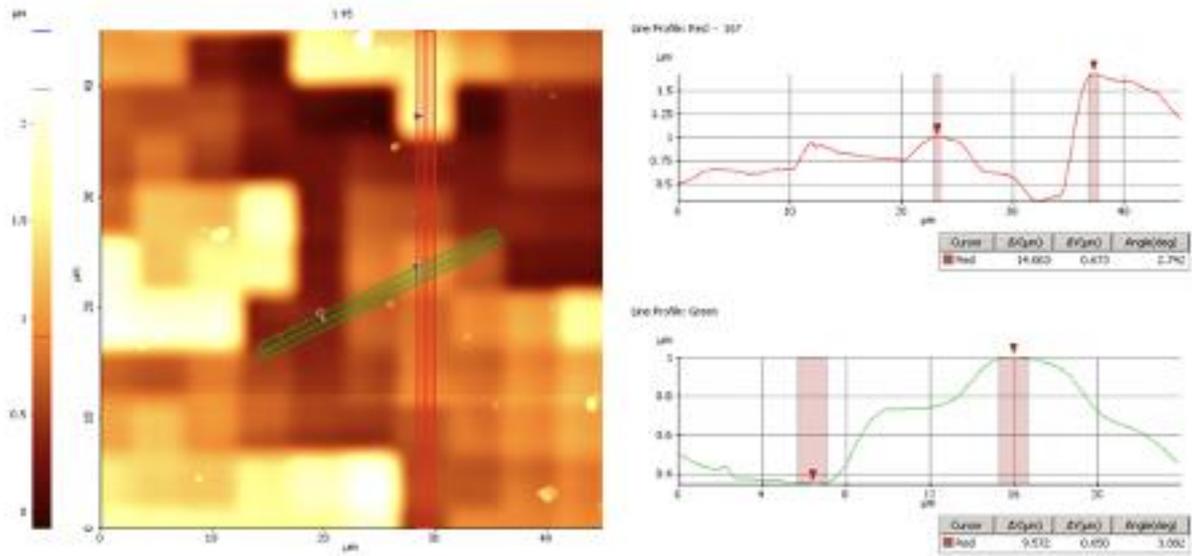


Figure S4:

Representative images at 24 h for a) control cells, b) cells on PDMS, c) cells on LDSU, d) cells on MDSU, and e) cells on HDSU respectively, taken at 10x via use of optical microscopy.

