Supplementary Material

Loss of antifouling property of oligoethylene glycol self-assembly monolayer under self-polymerized dopamine

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Modifying PDMS with Polyaniline and polypyrrole in Figure S4

We dissolved aniline (or pyrrole) (12 mM) and ammonium persulfate (APS) (12 mM) in deionized water (10 mL). We immediately immersed poly(dimethylsiloxane) stamps in the solutions. After 9 h, we took out the stamps, performed microcontact printing and seeded NIH 3T3 cells. Procedures of microcontact printing and cell seeding have been described in the main text.

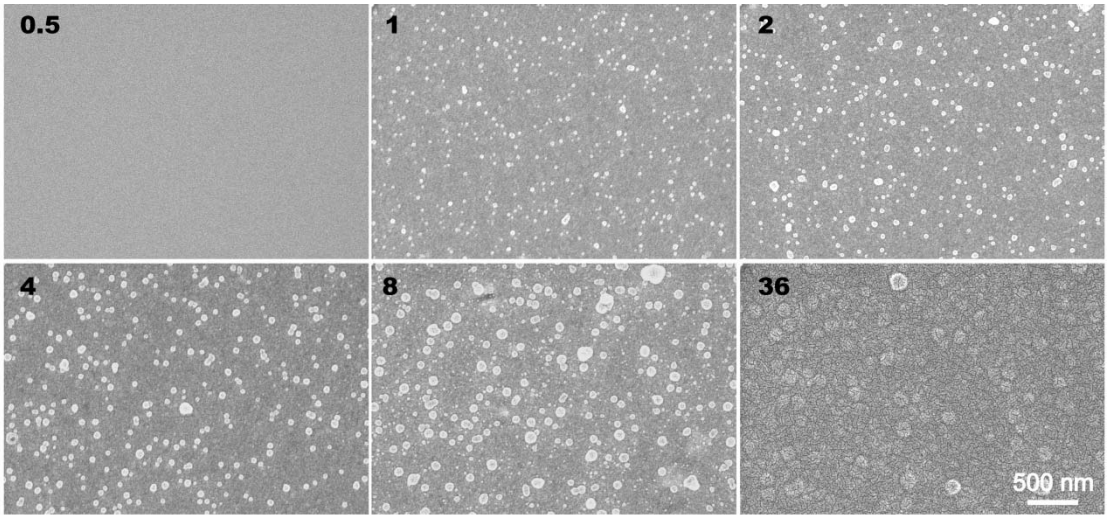

Figure S1 Growth of polymerized dopamine islands on OEG SAM after immersing for 0.5, 1, 2, 4, 8 and 36 hours.

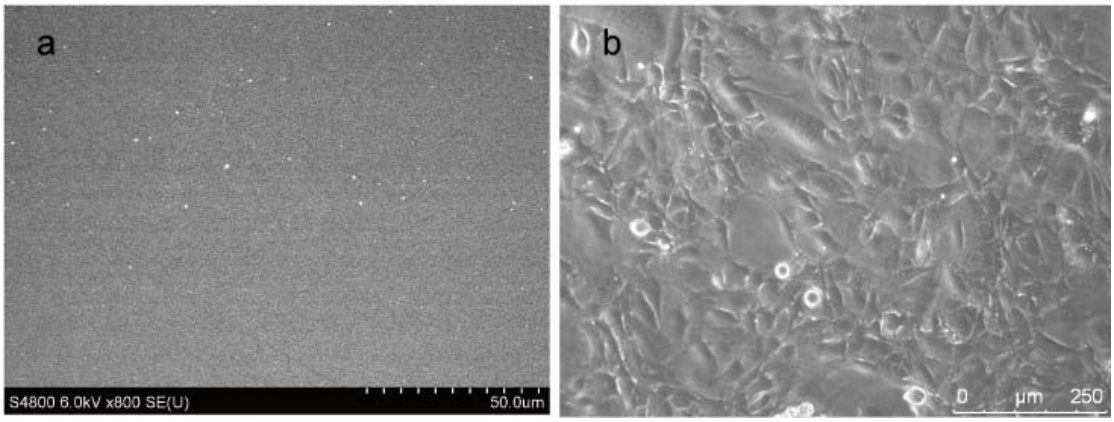

Figure S2 a) SEM characterization of OEG SAM that was immersed in dopamine solution for 5 h. The solution had been polymerized for 8 hrs and stopped by adjusting pH to 3. b) NIH 3T3 fibroblast cells adhered on the SAM prepared in the same condition as a).

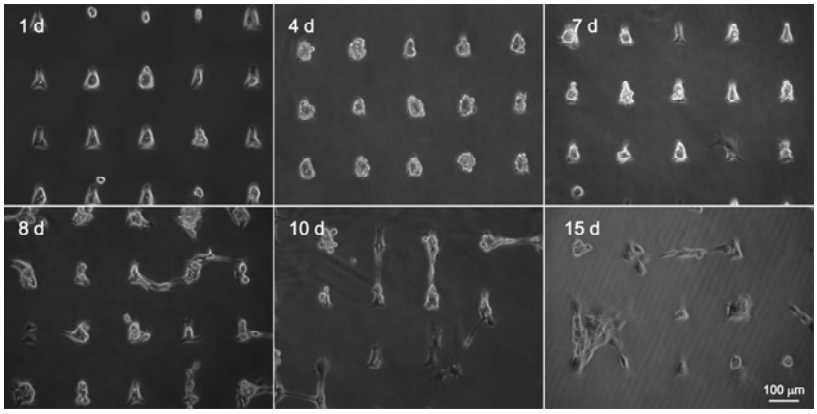

Figure S3 Long term patterning of NIH 3T3 cells on polydopamine-patterned OEG SAM.

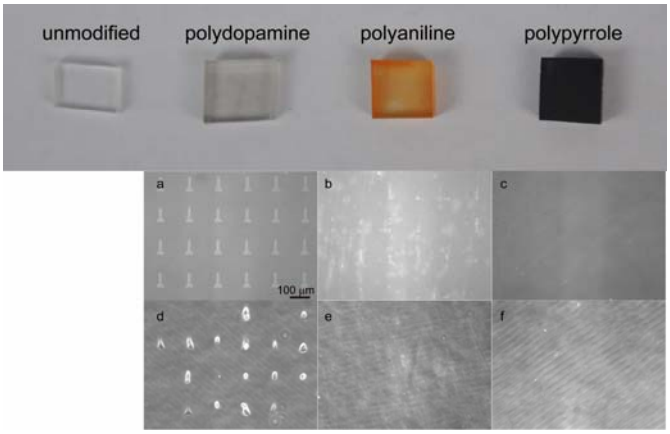

Figure S4 Microcontact printing of polydopamine, polyaniline and polypyrrole on OEG SAM. a)-c) are polydopamine patterns under microscopy in bright field mode. d)-f) are NIH 3T3 cells that are seeded on the substrates from a)-c).