Supporting Information

Inhibition of Bacterial Adhesion on Nano-Textured Stainless Steel 316L by Electrochemical Etching

Yeongseon Jang,[1,†] Won Tae Choi,[1,2,†] Christopher T. Johnson[3], Andrés J. García[4], Preet M. Singh,[2] Victor Breedveld,[1] Dennis W. Hess[1,*] and Julie A. Champion[1,*]

1. School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, 311 Ferst Drive, Atlanta, Georgia 30332, USA
2. School of Material Science and Engineering, Georgia Institute of Technology, 500 10th Street, Northwest, Atlanta, GA 30332, USA
3. Coulter Department of Biomedical Engineering, Georgia Institute of Technology and Emory University, Atlanta, GA 30332, USA
4. Woodruff School of Mechanical Engineering, Petit Institute for Bioengineering and Bioscience, Georgia Institute of Technology, 315 Ferst Drive, Atlanta, GA 30332, USA

† These authors contributed equally in this work.

* Corresponding authors: dennis.hess@chbe.gatech.edu, julie.champion@chbe.gatech.edu

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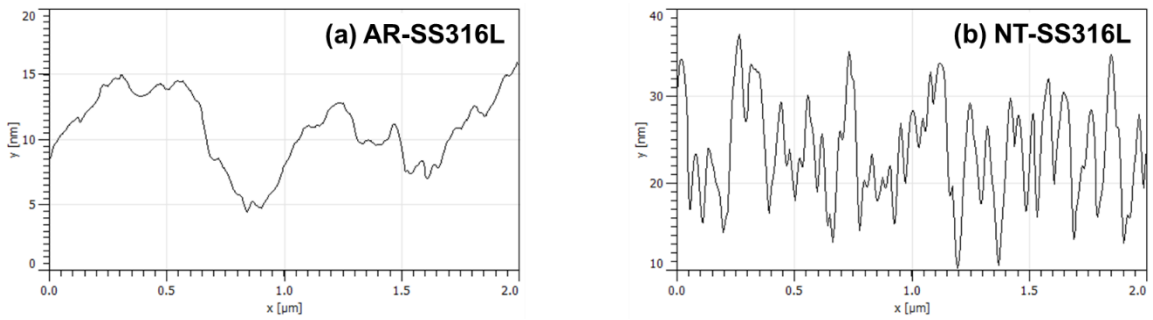

Figure S1. Surface height profiles of (a) AR- and (b) NT-SS316L obtained by AFM.

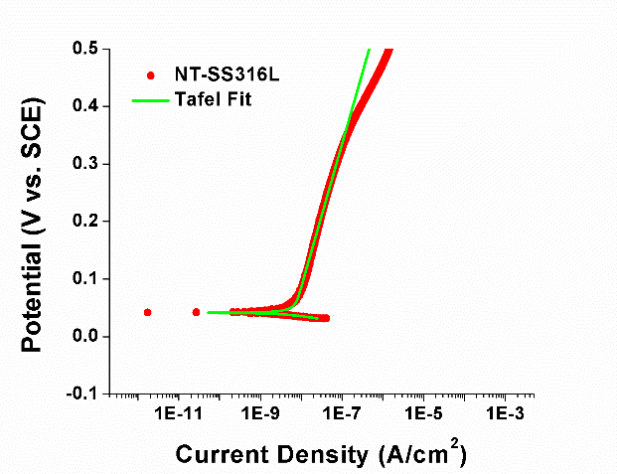

Figure S2. Tafel fitting on a representative potentiodynamic polarization curve of SS316L sample in Hank's balanced salt solution.

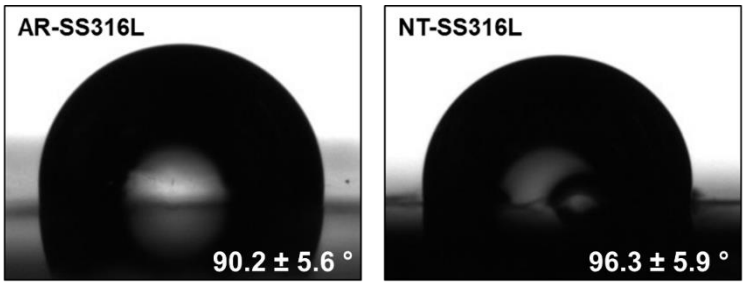

Figure S3. Water contact angles of AR- and NT-SS316L surfaces. A goniometer (Ramé-Hart-290) was used to measure contact angles. DI-water droplets (4 μL) were dispensed on SS316L sample surfaces; images were captured with CCD camera and analyzed with Ramé-Hart software.

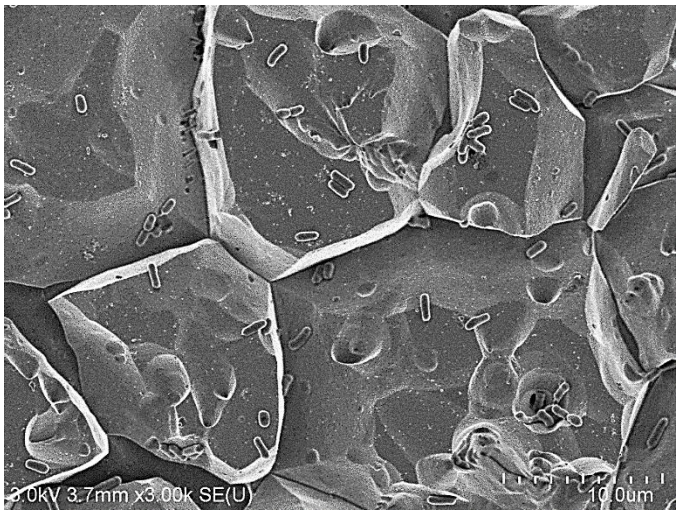

Figure S4. SEM image of bacterial (*E. coli*) adhesion on micro-textured SS316L after 24 h culture.

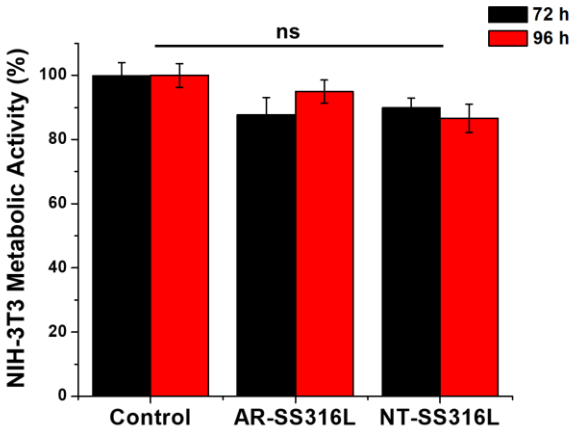

Figure S5. Cytocompatibility of AR-SS316L and NT-SS316L surfaces after 72 h and 96 h of culture of NIH-3T3 cells. Metabolic activity of NIH-3T3 fibroblast cells cultured on the AR- and NT-SS316L surfaces measured by MTT assay was compared to the PS culture dish control. Data represent mean ± SEM (N = 3, $p > 0.05$).