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EDUCATION

- Ph.D. Department of Chemical Engineering / Program in Polymer Science and Technology, Massachusetts Institute of Technology (9/2001 ~ 6/2006).
- B.S. Department of Chemical Engineering, Seoul National University (3/1995 ~ 2/1999)

PROFESSIONAL CAREER

- Assistant Professor, Associate Professor, and Professor, I-Bio/Department of Mechanical Engineering, POSTECH (2/2008 ~ present).
- Postdoctoral Researcher, Department of Pathology, University of California at San Francisco (9/2006 ~ 1/2008).

SELECTED PUBLICATIONS

Books

- Junsang Doh, Daniel Fletcher, Matthieu Piel, Microfluidics in Cell Biology Part A-C, *Methods in Cell Biology* **146-148** (2018).

Journal articles

1. J. Lee, K.H. Song, T. Kim, and J. Doh^{*}, Endothelial cell focal adhesion regulates transendothelial migration and subendothelial crawling of T cells, *Front. Immunol.* **9**, 48 (2018).
2. E. Yeon, H.M. Kim, J.H. Park, W. Choi, J. Doh, and S.J. Lee, Microfluidic system for monitoring temporal variations of hemorheological properties and platelet adhesion in LPS-injected rats, *Sci. Rep.* **7**, 1801 (2017).
3. S. Kweon, K.H. Song, H. Park, J.-C. Choi, and J. Doh^{*}, Dynamic micropatterning of cells on nanostructured surfaces using a cell-friendly photoresist, *ACS Appl. Mater. Interfaces* **8**, 4266 (2016).
4. M. Kim, S.J. Yeo, C. Highley, P.J. Yoo, J.A. Burdick, J. Doh^{*}, and D. Lee^{*}, One-step generation of multi-functional polyelectrolyte microcapsules via nanoscale interfacial complexation in emulsion (NICE), *ACS Nano* **9**, 8269 (2015).
5. K.H. Song, S.J. Park, D.S. Kim^{*}, and J. Doh^{*}, Sinusoidal wavy surfaces with various wavelengths for curvature-guided migration of T lymphocytes, *Biomaterials* **51**, 151 (2015).
6. J.-C. Choi and J. Doh^{*}, High-throughput quantitative imaging of cell spreading dynamics by multi-step microscopy projection photolithography based on a cell-friendly photoresist, *Lab Chip* **12**, 4964 (2012).
7. K.W. Kwon, H. Park, K. H. Song, J.-C. Choi, H. Ahn, M.J. Park, K.-Y. Suh^{*}, and J. Doh^{*}, Nanotopography-guided migration of T cells, *J. Immunol.* **189**, 2266 (2012).
8. C.A. Sabatos[#], J. Doh[#], S. Chakravarti, P.G. Pandurangi, R.S. Friedman, A.J. Tooley and M.F. Krummel, A synaptic basis for paracrine interleukin-2 signaling in activating T cells. *Immunity* **29**, 238 (2008)
9. J. Doh and D.J. Irvine, Immunological synapse arrays: Patterned protein surfaces that modulate immunological synapse structure formation in T cells, *Proc. Natl. Acad. Sci. USA* **103** (15), 5700 (2006).
10. J. Doh and D.J. Irvine, Photogenerated polyelectrolyte bilayers from an aqueous-processible photoresist for multicomponent protein patterning., *J. Am. Chem. Soc.* **126** (30), 170 (2004).

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