HST.410J/6.07J **Lecture 8**

March 6, 2007

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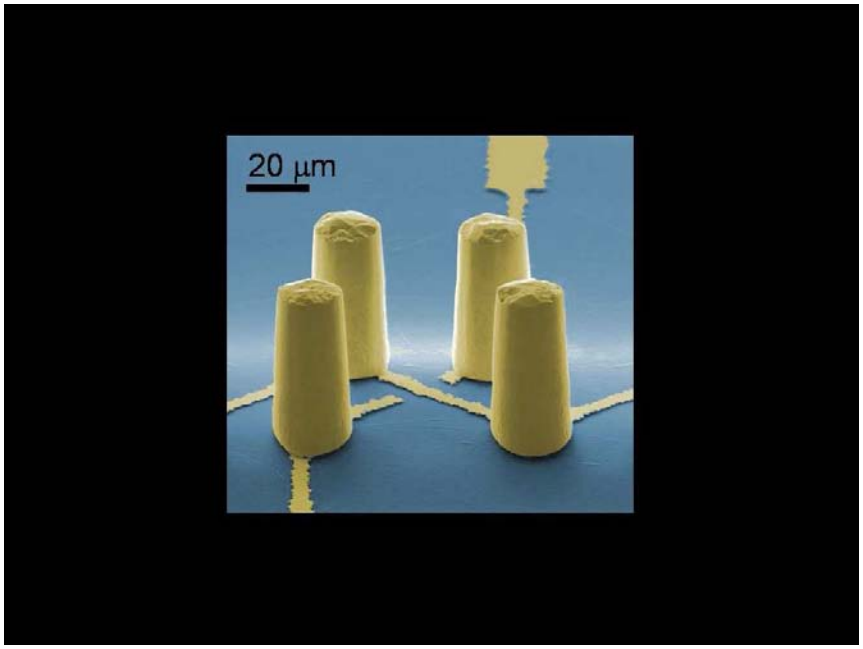
Please see figures 2 and 6 in Li, Xiujun, and Paul C. H. Li. "Microfluidic selection and retention of a single cardiac myocyte, on-chip dye loading, cell contraction by chemical stimulation, and quantitative fluorescent analysis of intracellular calcium." *Analytical Chemistry* 77 (2005): 4315-4322.



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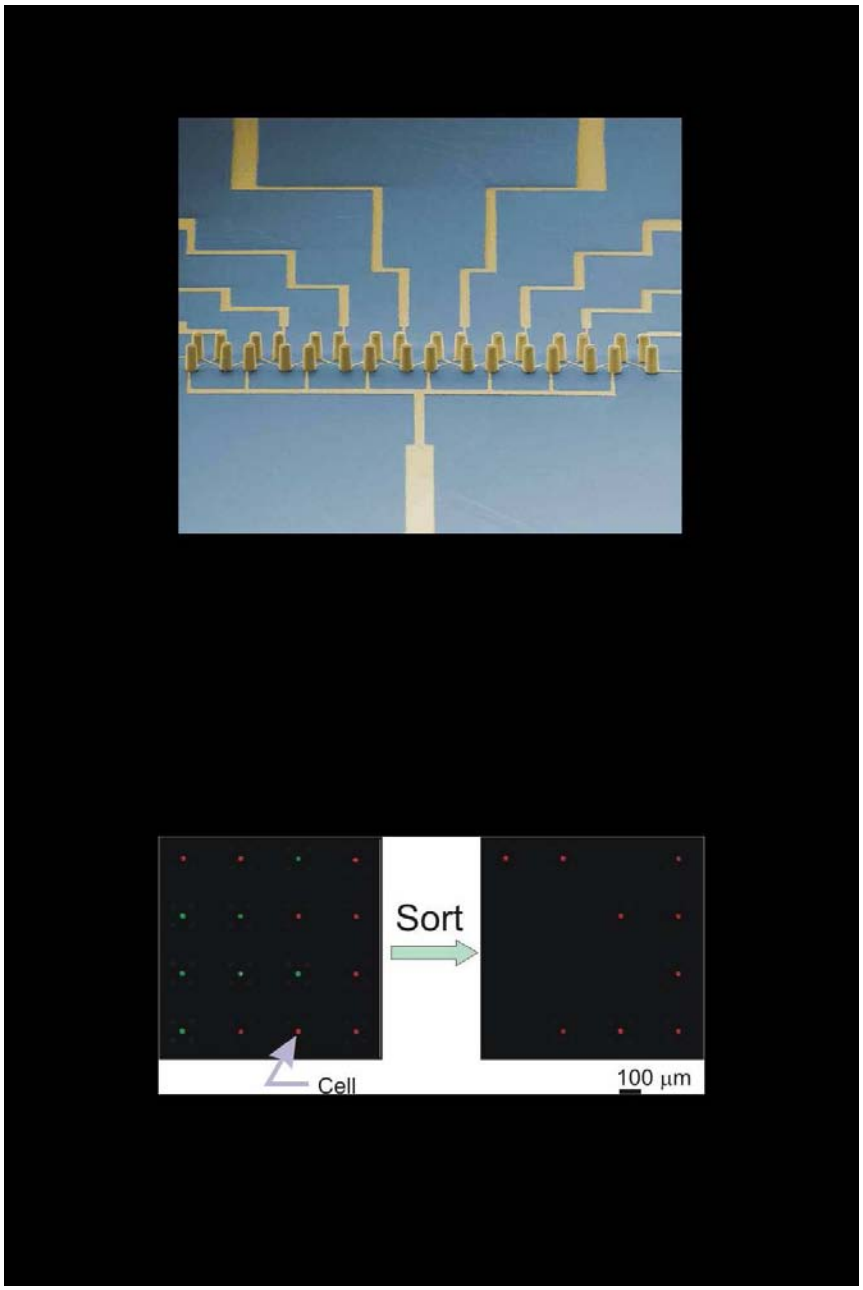

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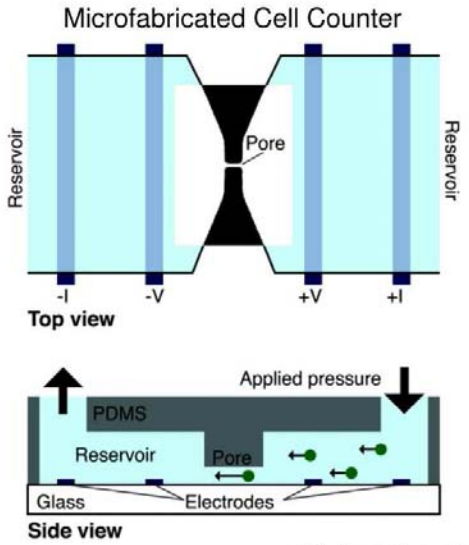
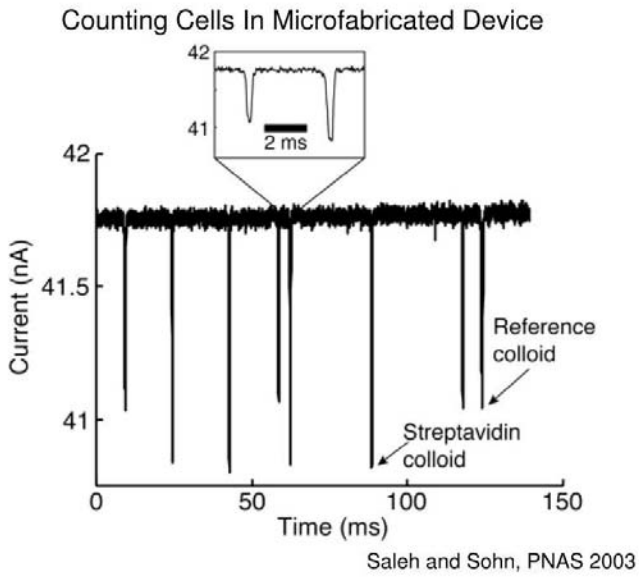


Saleh and Sohn, PNAS 2003



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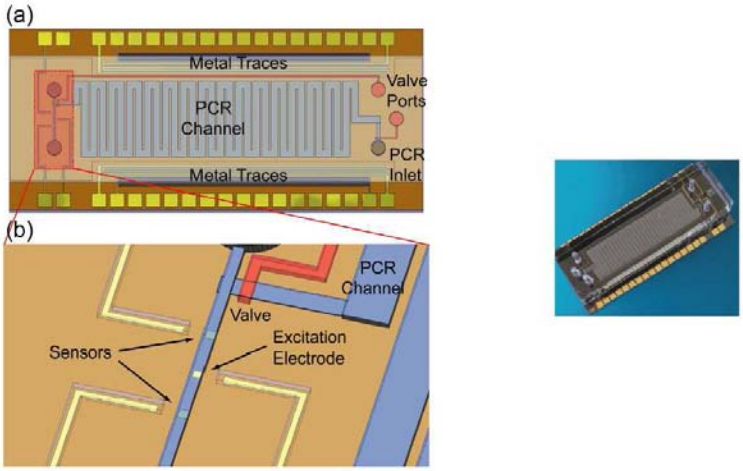
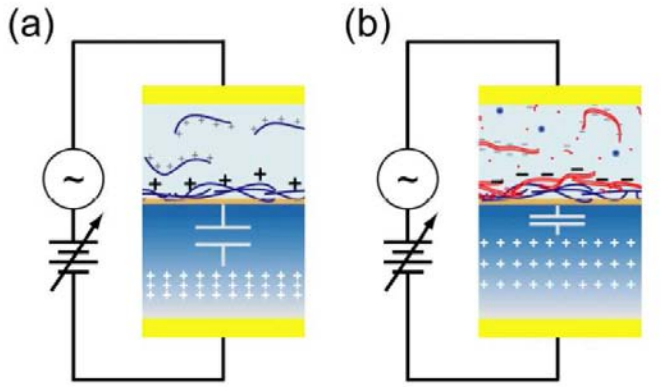
Please see figure 3 in Jeon, et al. "Neutrophil Chemotaxis in Linear and Complex Gradients of Interleukin-8 formed in a Microfabricated Device." *Nature Biotechnology* 20 (2002): 826-830.



Johnson Hou and Prof. Scott Manalis

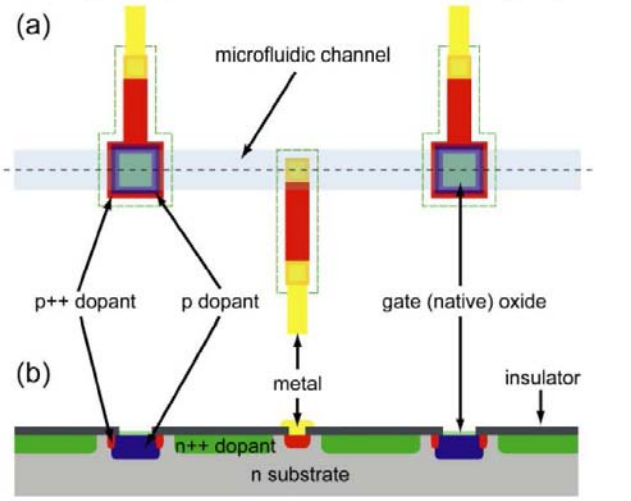
Johnson Hou MIT PhD thesis, 2007

DNA Sensor (eletrolyte-insulator-semiconductor (EIS) sensor)



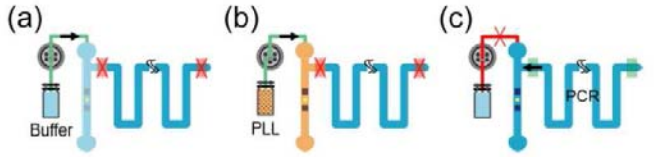
Johnson Hou, MIT PhD 2007

DNA Sensor (eletrolyte-insulator-semiconductor (EIS) sensor)



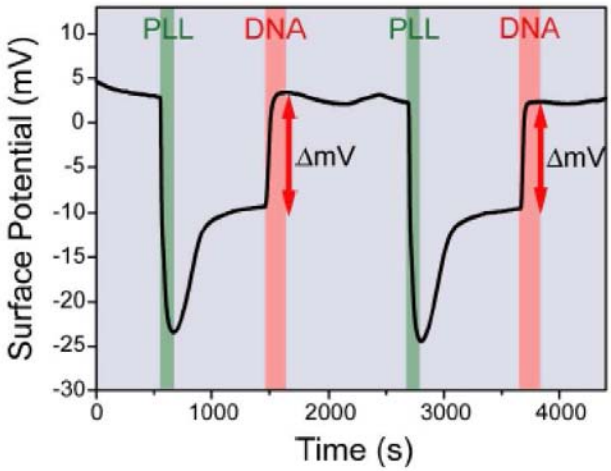
Johnson Hou, MIT PhD 2007

DNA Amplifier and Sensor: Protocol



Johnson Hou, MIT PnD 2007

DNA Amplifier and Sensor: Results



Johnson Hou, MIT PhD 2007

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Figures from Wang, Y.-C., A. L. Stevens, and J. Han. "Million-fold Preconcentration of Proteins and Peptides by Nanofluidic Filter." *Analytical Chemistry* 77 (2005): 4293-4299.