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The following articles and research were discussed in this lecture.

Rawicz, W. et al. "Effect of Chain Length and Unsaturation on Elasticity of Lipid Bilayers." *Biophysical Journal* 79 (July 2000) 328-339. See Figure 1.

Evan, E. and W. Rawicz. "Entropy-driven tension and bending elasticity in condensed-fluid membranes." *Physical Review Letters* 64: 2094-2097 (1990). See Figure 2.

$$\underbrace{\frac{\Delta A^*}{A_0}}_{\text{relative change in projected area}} = \underbrace{\frac{kT}{8\pi k_B} \ln\left(1 + \frac{NA_0}{\pi^2 k_B}\right)}_{\text{damping of fluctuations (1)}} + \underbrace{\frac{N}{KA}}_{\text{extension of membrane (2)}}$$

Evans, E. and A. Yeung. "Cortical shell-liquid core model for passive flow of liquid-like spherical cells into micropipets." *Biophysical Journal* 56(1):139-49 (July 1989).

Research on Neutrophils by R.M. Hochmuth, Duke University. See his website at duke.edu.

Schmidtke, D.W. and S. L. Diamond. "Direct Observation of Membrane Tethers Formed during Neutrophil Attachment to Platelets or P-selectin under Physiological Flow." *Journal of Cell Biology*, 149(3): 719-730 (May 1, 2000). See Figure 1 and full article at <http://www.jcb.org/cgi/content/full/149/3/719>.

Cortical networks in erythrocytes

