

Table 1
Estimated parameter values

Radius of round cell	$R_0 = 7 \pm 1 \mu\text{m}$	Thoumine et al. (1999)
Cytoplasmic viscosity	$\eta = 1 - 2 \times 10^4 \text{Ns/m}^2$	Thoumine and Ott (1997); Thoumine et al. (1999)
Cortical tension	$\tau = 2 - 4 \times 10^{-4} \text{N/m}$	Thoumine et al. (1999)
Adhesion energy	$w_a = 0.5 - 8 \times 10^{-4} \text{J/m}^2$	Tözeren et al. (1989); Evans et al. (1991); Moy et al. (1999)

Evans, E., 1995. Physical actions in biological adhesion. In: Lipowsky, R., Sackmann, E. (Eds.), *Handbook of Biological Physics Series, vol 1b. Structure and Dynamics of Membranes*. Elsevier, Amsterdam, pp. 723–1754.

Moy, V.T., Jiao, Y., Hillmann, T., Lehmann, H., Sano, T., 1999. Adhesion energy of receptor-mediated interaction measured by elastic deformation. *Biophysical Journal* 76, 1632–1638.

Thoumine, O., Ott, A., 1997. Time scale dependent viscoelastic and contractile regimes in fibroblasts probed by microplate manipulation. *Journal of Cell Science* 110, 2109–2116.

Thoumine, O., Cardoso, O., Meister, J.-J., 1999. Changes in the mechanical properties of fibroblasts during spreading: a micro-manipulation study. *European Biophysics Journal* 28, 222–234.

Tözeren, A., Sung, K.-L.P., Chien, S., 1989. Theoretical and experimental studies on cross-bridge migration during cell disaggregation. *Biophysical Journal* 55, 479–487.