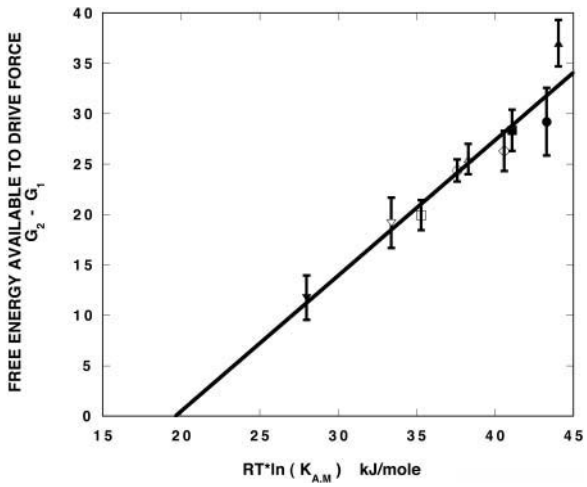
Corrections

Karatzaferi, Christina, Marc K. Chinn, and Roger Cooke. 2004. The force exerted by a muscle cross-bridge depends directly on the strength of the actomyosin bond. *Biophys. J.* 87:2532–2544.

Fig. 5 printed incorrectly. The correct figure is below.



doi: 10.1529/biophysj.104.900114

Nikolov, Emil N., and Tatyana Ivanova-Nikolova. 2004. Functional characterization of a small conductance GIRK channel in rat atrial cells. *Biophys. J.* 87:3122–3136.

The doi was incorrect in the printed version. (It was correct in the BioFAST version.) The correct doi is 10.1529/biophysj.103.039487.

doi: 10.1529/biophysj.104.900115

Dickinson, R. B., L. Caro, and D. L. Purich. 2004. Force generation by cytoskeletal filament end-tracking proteins. *Biophys. J.* 87:2838–2854.

A number of items in this article were printed incorrectly. Corrections appear as follows:

Fig. 1 legend: $\Delta G_{\text{hydrolysis}} \sim -22\ kT$.

Table 1: Units of K_p should be in mM. $[M_D]_{(-)\text{-crit}}$ should be defined as ''M_D addition to minus ends'' for both actin and tubulin.

Table 2: For mechanism-B, the equilibrium dissociation constants should be primed, appearing as $K'_1\ K'_2/K'_3$.

Page 2481, left-hand column: Units of $\Delta G^{o}_{\text{hydrolysis}}$ should be ''pN-nm''.

Page 2849: Units of persistent length should be ''μm''.

Equation in Fig. 4 legend should read: $K'_2 = K'_{2,0}e^{\text{Fd/2kT}}$.

Word reversal, page 2843, right-hand column: For Mechanism-A, the symbol ρ should be defined as the probability of the end-tracking unit being bound to the *penultimate* subunit, is and $(1 - \rho)$ the probability of it being bound to the *terminal* subunit. ρ should be correspondingly defined as such for Mechanism-A in Table 3.

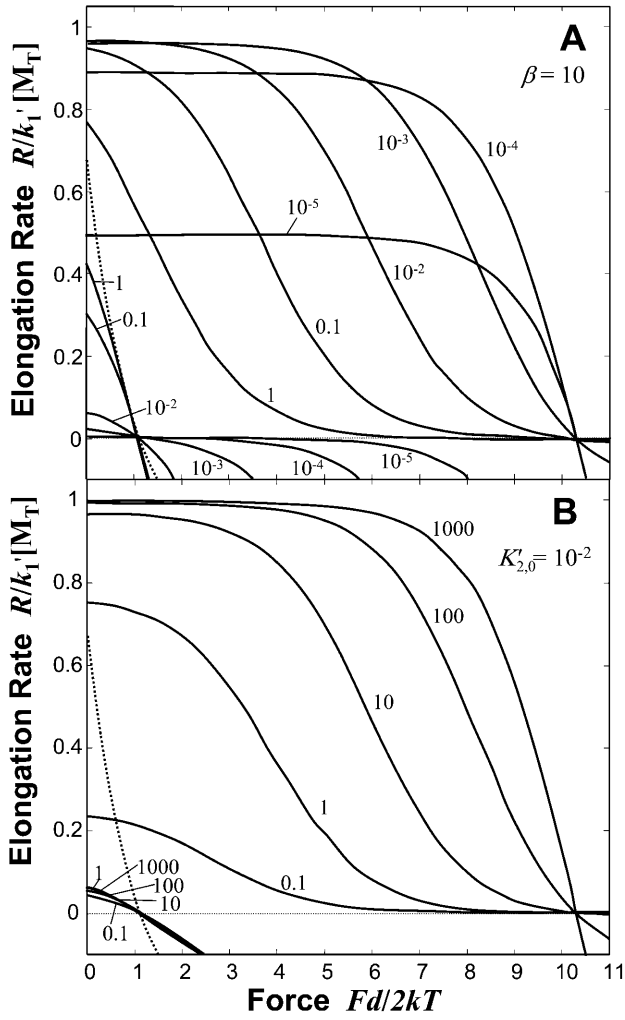
Omissions in legends for Figs. 3 and 4: Dashed lines represent the free-filament elongation model (Eq. 11) with $[M_T] = 0.3$ μM and $[M_T]_{(+)\text{-crit}} = 0.1$ μM. The value $\gamma = 1$ was used for calculations in Fig. 4. The units of K'_1 are μM.

Mechanism-B, kinetic Eqs. 12 and 13: Because only one tracking unit was assumed to operate per subfilament, the states represented by probabilities u and ρ are mutually exclusive; therefore, the factors of $(1 - \rho)$ appearing in the second-order terms in Eqs. 12 and 13 should not have been included. The corrected equations are:

$$du/dt = 0 = k'_1[M_T](1 - u - \rho) - k'_{-1}u - k'_{-2}u + k'_{-2}\rho \tag{12}$$

$$d\rho/dt = 0 = k'_2u - k'_{-2}\rho + k'_3(1 - u - \rho) - k'_{-3}\rho. \tag{13}$$

These equations, now allow linear in u and ρ, yield an analytical solution for the elongation rate, R, which is replotted here as a replacement to Fig. 4 (below). The differences with the original results in Fig. 4 are minor and in no way affect the conclusions of the article.



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