

Erratum

O.G. Berg and C. Blomberg, Association kinetics with coupled diffusion III. Ionic-strength dependence of the lac repressor-operator association, *Biophys. Chem.* 8 (1978) 271.

Eq. (3.10) has lost a factor ρ^{-1} in both integrals; they should read:

$$\frac{\dots \int_{\rho}^{R_c} \rho^{-1} \exp \dots}{\dots \int_b^{R_c} \rho^{-1} \exp \dots} \quad (3.10)$$

Eq. (4.2), the last equality should have λ substituted by Λ giving:

$$k_a = \dots = \frac{1}{1 + n_0/K_c} \frac{\Lambda}{K_c} [(\Lambda L^2/D_1)^{1/2} \coth(\Lambda L^2/D_1)^{1/2} - 1]^{-1}. \quad (4.2)$$

Eq. (4.3) has lost a power -1 at the end. It should read:

$$\Lambda = \dots = \lambda \left\{ bk \exp[-V(b)/k_B T] \int_b^{R_c} \rho^{-1} \exp[V(\rho)/k_B T] d\rho + 1 \right\}^{-1}. \quad (4.3)$$

Moreover, some statements in the paragraph following eq. (4.4) are inaccurate: The increase in the screening length *does not* provide a more efficient reflection in the potential and thereby it *cannot* provide a more efficient channelling along the chain, in contrast to the statements made. However, it remains true that: decreasing ionic strength decrease the value of the integral in eq. (4.4). This effect increases the unspecific dissociation rate Λ , eq. (4.3), which in turn increases the specific association rate k_a , eq. (4.2).