Erratum: “On the precision of quasi steady state assumptions in stochastic dynamics” [J. Chem. Phys. **137**, 044105 (2012)]

Animesh Agarwal,^{1,2} Rhys Adams,³ Gastone C. Castellani,⁴ and Harel Z. Shouval¹

¹*Department of Neurobiology and Anatomy, University of Texas Medical School, Houston, Texas 77030, USA*

²*Department of Biomedical Engineering, University of Texas, Austin, Texas 78712, USA*

³*Department of Systems Biology, The University of Texas MD Anderson Cancer Center, Houston, Texas 77030, USA*

⁴*Dipartimento di Fisica, and National Institute of Nuclear Physics, University of Bologna, Bologna, Italy*

(Received 19 December 2013; accepted 22 December 2013; published online 7 January 2014)

[<http://dx.doi.org/10.1063/1.4861248>]

There was a typo in Eq. (23) of the original publication.¹

Equation (23) as it originally appeared in the paper:

$$\sigma_{11} = \Omega \frac{E \cdot S}{E + S + K_m + k_3/k_1} \cdot \left(1 + \frac{(K_n - K_m)^2 + (S + K_n)(S + K_m) \frac{k_2}{k_{-1} + k_2}}{(E + k_3/k_1)(S + K_n) - (S + K_n)E} \right).$$

The error is that one of the K_n parameters in the denominator should have been a K_m .

The corrected version of Eq. (23) is:

$$\sigma_{11} = \Omega \frac{E \cdot S}{E + S + K_m + k_3/k_1} \cdot \left(1 + \frac{(K_n - K_m)^2 + (S + K_n)(S + K_m) \frac{k_2}{k_{-1} + k_2}}{(E + k_3/k_1)(S + K_m) - (S + K_n)E} \right).$$

¹A. Agarwal, R. Adams, G. C. Castellani, and H. Z. Shouval, *J. Chem. Phys.* **137**, 044105 (2012).