

Erratum to: The influence of sodium and potassium dynamics on excitability, seizures, and the stability of persistent states: I. Single neuron dynamics

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Published online: 28 April 2011
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Erratum to: J Comput Neurosci DOI 10.1007/s10827-008-0132-4

The original version of this article contains a few typographical errors. These do not affect the results and conclusions that we originally reported. However, to assist readers interested in reproducing our results, we list below several corrections in order to accurately reflect the equations that were used to generate the published figures. Some errors are consequential, and others are less so; we list them all for completeness. Code containing the correct equations is available at ModelDB (<http://senselab.med.yale.edu/modedb>).

Equation (2) should appear as follows:

$$\frac{d[K]_o}{dt} = 0.33I_k - 2\beta I_{pump} - I_{glia} - I_{diff}.$$

In the appendix, there should be no equation involving g_4 , and the equations for g_1 , g_2 , and g_3 should appear as follows:

$$g_1 = 420.0(1.0 - A_1(1.0 - B_1 \exp(-\mu_1 N_{a,i/o}))^{0.3})$$

$$g_2 = \exp(\sigma_2(1.0 - \lambda_2 K_{o/i}) / (1.94 + 1.98 \exp(-\mu_2 N_{a,i/o})))$$

$$g_3 = (1.0 / (1.0 + \exp(\sigma_3(1.0 + \mu_3 N_{a,i/o} - \lambda_3 K_{o/i}))))^5 \cdot (1.0 / (1.0 + \exp(\sigma_4(1.0 + \mu_4 N_{a,i/o} - \lambda_4 K_{o/i}))))^5.$$

Finally, two parameters were incorrectly reported. The correct values are $\sigma_2=1$ and $\alpha_K=0.94$.

The online version of the original article can be found at <http://dx.doi.org/10.1007/s10827-008-0132-4>.

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