



# **Corrigendum: Non-linear leak** currents affect mammalian neuron physiology

Shiwei Huang \*, Sungho Hong and Erik De Schutter

Computational Neuroscience Unit, Okinawa Institute of Science and Technology Graduate University, Tancha, Japan

Keywords: Goldman-Hodgkin-Katz equation, passive membrane properties, ionic concentration-dependence, time constant and input resistance, cerebellar Purkinje neurons

### A corrigendum on

#### Non-linear leak currents affect mammalian neuron physiology

by Huang, S., Hong, S., and De Schutter, E. (2015). Front. Cell. Neurosci. 9:432. doi: 10.3389/fncel.2015.00432

In this article, Equation (6) of Figure 1 was incorrectly written as (1), where the subscript of absolute

## **OPEN ACCESS**

Edited and reviewed by:

Andrea Nistri, Scuola Internazionale Superiore di Studi Avanzati, Italy

\*Correspondence:

Shiwei Huang shiweihuang@outlook.com

Received: 14 November 2015 Accepted: 23 November 2015 Published: 10 December 2015

#### Citation:

Huang S, Hong S and De Schutter E (2015) Corrigendum: Non-linear leak currents affect mammalian neuron physiology. Front. Cell. Neurosci. 9:475. doi: 10.3389/fncel.2015.00475

$$G_{K} = P_{ratio} P_{K} z_{Cl}^{2} \frac{VF^{2}}{RT} \frac{[K]_{i} - [K]_{o} exp(-z_{k}VF/RT)}{1 - exp(-z_{k}VF/RT)} \div (E_{Rest} - E_{K}^{Nernst})$$
(1)

The correct equation is

$$G_{K} = P_{ratio}P_{Cl}z_{K}^{2} \frac{VF^{2}}{RT} \frac{[K]_{i} - [K]_{o}exp(-z_{k}VF/RT)}{1 - exp(-z_{k}VF/RT)} \div (E_{Rest} - E_{K}^{Nernst})$$
(2)

**Conflict of Interest Statement:** The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

Copyright © 2015 Huang, Hong and De Schutter. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) or licensor are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.