

Corrigendum

Corrigendum to “Simulating Radiotherapy Effect in High-Grade Glioma by Using Diffusive Modeling and Brain Atlases”

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In the article titled “Simulating Radiotherapy Effect in High-Grade Glioma by Using Diffusive Modeling and Brain Atlases” [1], there was a typographic error in formula number (11). We would like to thank Borasi and Nahum [2] for identifying this error. However, the correct formula should be as follows.

$f(c)$

$$= \begin{cases} \left(\rho * \left(1 - e^{-aR(t) - \beta R(t)r(t)} \right) \right) c \frac{c_m - c}{c_m}, & t \in \text{therapy}, \\ \rho c \frac{c_m - c}{c_m}, & t \notin \text{therapy}. \end{cases} \quad (11)$$

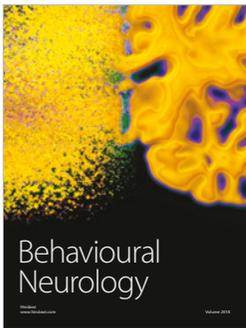
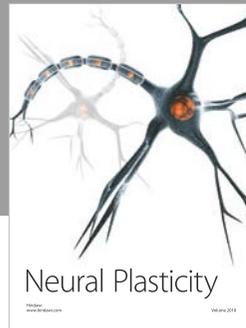
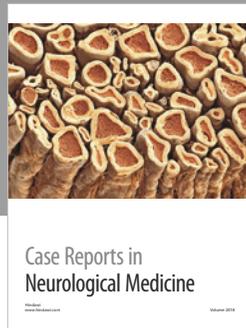
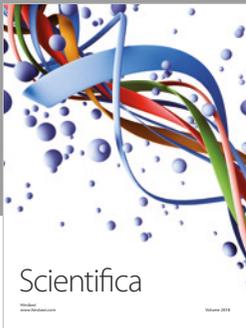
In addition, we would like to differentiate our work from the strict definition of the Linear Quadratic model. Therefore, we propose changing the name of our model from “Linear Quadratic” model to “Modified Linear Quadratic” model as presented in Wahl et al. [3] cited in the article as reference [43] or we can use the term “ α - β model.” Therefore, the model name should be changed throughout the article.

References

- [1] A. Roniotis, K. Marias, V. Sakkalis, G. C. Manikis, and M. Zervakis, “Simulating radiotherapy effect in high-grade glioma by using diffusive modeling and brain atlases,” *Journal of Biomedicine and Biotechnology*, vol. 2012, Article ID 715812, 9 pages, 2012.
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and brain atlases,” *BioMed Research International*, vol. 2015, Article ID 801057, 1 page, 2015.

- [3] S. Wahl, T. D. C. Foletto, and G. Feldmann, “A mathematical model for the estimation of treatment cost in cancer radiotherapy,” in *Proceedings of the 2009 3rd Southern Conference on Computational Modeling, MCSUL 2009*, pp. 77–81, November 2009.



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