

## Bioinformation Editorial Erratum

Paul Shapshak<sup>1,2</sup>

<sup>1</sup>Division of Infectious Disease and International Health, Department of Medicine and Department of Psychiatry and Behavioral Medicine, USF Morsani School of Medicine, Tampa General Hospital, 1 Tampa Gen Circle, Room G318, Tampa FL 33606; <sup>2</sup>Deputy Chief Editor, Bioinformation; Paul Shapshak - Email: pshapshak@gmail.com

Received November 20, 2012; Accepted November 20, 2012; Published February 06, 2013

An error was detected in the article, NRF2 molecule of the month [1]. This error is subsequent to the confusion in a few databases that do not distinguish between capital and lower case letters. For the interested reader, it is important to note that there are two different genes termed NRF2 and Nrf2. One NRF2 gene is also known as NFE2L2 that is not a GA binding protein. The other Nrf2 gene is nuclear respiratory factor 2 that is related to GABPA, a different protein. There was a distinction between the two genes that should have been indicated in the publication [1]. The first reference in the publication [1] was reexamined [http://www.sabiosciences.com/pathwaymagazine/minireview/oxidativestress.php?utm\\_content=PR120906+Oxidative+Stress+Review\\_us&utm\\_campaign=PR120906+Oxidative+Stress&utm\\_source=iPost&utm\\_medium=email](http://www.sabiosciences.com/pathwaymagazine/minireview/oxidativestress.php?utm_content=PR120906+Oxidative+Stress+Review_us&utm_campaign=PR120906+Oxidative+Stress&utm_source=iPost&utm_medium=email).

This reference was searched for; however, it is no longer accessible as of 11-15-2012. Moreover, not all databases clearly distinguish between the two NRF2 and Nrf2 labels. There is also a typographical error in the 7th line of the article text where NFR2 should be stated as NRF2 [1]. In addition, similar information should be pointed out in regards to the two figures [1].

Searches at the SABiosciences, STRING (Search Tool for the Retrieval of Interacting Genes/Proteins), HUGO Gene Nomenclature Committee (HGNC), and GeneCards web sites did not distinguish between NRF2 and Nrf2 as of 11-18-2012 [2, 3, 4, 5, 6]. Searches for both NRF2 and Nrf2 at the SABiosciences web site revealed the following information [2].  
NFE2L2 (Human) Gene Name: NRF2  
Refseq IDs: NM\_006164, NM\_001145412, NM\_001145413  
Description: Nuclear factor (erythroid-derived 2)-like 2

And GABPA (Human) Gene Name: E4TF1-60, E4TF1A, NFT2, NRF2, NRF2A Refseq IDs: NM\_002040, NM\_001197297.  
Description: GA binding protein transcription factor, alpha subunit 60kDa

Additionally, some literature correctly portrays the information on Nrf2 in the publications [7]. For example, in this paper, the protein Nrf2 is defined as Nuclear factor (erythroid-derived 2)-like 2 (Nrf2) which is a reactive oxygen species (ROS)-regulated transcription factor involved in the induction of Phase II detoxifying proteins.

### Acknowledgment:

There are no financial conflicts. Many thanks go to Professor S.R. Konjeti (Vanderbilt University, Nashville, TN) for providing information and pointing out the needed corrections and for pointing out problems associated with the monthly molecule review.

### References:

- [1] Shapshak P, *Bioinformation*. 2012 **8**: 846 [PMID: 23144538]
- [2] <http://www.sabiosciences.com/search.php?src=pmc&prodlines=all&species=0&keyword=Nrf2>
- [3] <http://string.embl.de/>
- [4] Szklarczyk D *et al. Nucleic Acids Res.* 2011 **39**: D561 [PMID: 21045058]
- [5] <http://www.genenames.org/>
- [6] <http://www.genecards.org/>
- [7] Rachakonda G *et al. Oncogene.* 2010 **29**: 3703 [PMID: 20440267]

**Citation:** Shapshak, *Bioinformation* 9(3): 168-168 (2013)

**License statement:** This is an open-access article, which permits unrestricted use, distribution, and reproduction in any medium, for non-commercial purposes, provided the original author and source are credited