

CORRECTION

Open Access



# Correction: Nrf2 activation rescues stress-induced depression-like behaviour and inflammatory responses in male but not female rats

Ryan T. McCallum<sup>1</sup>, Rachel-Karson Thériault<sup>1</sup>, Joshua D. Manduca<sup>1</sup>, Isaac S. B. Russell<sup>1</sup>, Angel M. Culmer<sup>1</sup>, Janan Shoja Doost<sup>1</sup>, Tami A. Martino<sup>1</sup> and Melissa L. Perreault<sup>1\*</sup>

**Correction:** *Biol Sex Differ* 15, 16 (2024)  
<https://doi.org/10.1186/s13293-024-00589-0>

Following publication of the original article [1], the authors reported an error in the methodology for calculating the discrimination ratio in the novel object recognition and object location tests.

**Incorrect:** The discrimination ratio was calculated as the time of exploration of relocated object/total object exploration time\*100.

**Correct:** For the novel object recognition test the discrimination ratio was calculated as the time exploring the novel object – the time exploring the familiar object/total exploration time.

For the object location test the discrimination ratio was calculated as the time exploring the novel location – the time exploring the familiar location/total exploration time.

The authors also report an error in sampling for original Figs. 4 and 5. Therefore, all of the original microglia data in the results and figures have been removed and Fig. 6 renumbered as Fig. 4. The associated immunohistochemistry methodologies were removed, and any associated discussion of the microglia findings deleted. References were renumbered and the Abstract and Highlights also revised to remove the microglia findings.

Published online: 03 April 2024

## References

1. McCallum RT, Thériault RK, Manduca JD, et al. Nrf2 activation rescues stress-induced depression-like behaviour and inflammatory responses in male but not female rats. *Biol Sex Differ*. 2024;15:16. <https://doi.org/10.1186/s13293-024-00589-0>.

## Publisher's Note

Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

The online version of the original article can be found at <https://doi.org/10.1186/s13293-024-00589-0>.

\*Correspondence:

Melissa L. Perreault  
perreaum@uoguelph.ca

<sup>1</sup>Department of Biomedical Sciences, University of Guelph, 50 Stone Rd. E, Guelph, ON N1G 2W1, Canada



© The Author(s) 2024. **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>. The Creative Commons Public Domain Dedication waiver (<http://creativecommons.org/publicdomain/zero/1.0/>) applies to the data made available in this article, unless otherwise stated in a credit line to the data.