



OPEN ACCESS

APPROVED BY
Frontiers Editorial Office,
Frontiers Media SA, Switzerland

*CORRESPONDENCE
Elizabeth A. H. Hall,
✉ eah16@cam.ac.uk

SPECIALTY SECTION
This article was submitted to Cell Death
and Survival,
a section of the journal
Frontiers in Cell and Developmental
Biology

RECEIVED 07 December 2022
ACCEPTED 08 December 2022
PUBLISHED 05 January 2023

CITATION
Wong JJY, Varga BV, Káradóttir RT and
Hall EAH (2023), Corrigendum:
Electrochemically induced *in vitro* focal
hypoxia in human neurons.
Front. Cell Dev. Biol. 10:1118466.
doi: 10.3389/fcell.2022.1118466

COPYRIGHT
© 2023 Wong, Varga, Káradóttir and
Hall. This is an open-access article
distributed under the terms of the
[Creative Commons Attribution License
\(CC BY\)](https://creativecommons.org/licenses/by/4.0/). The use, distribution or
reproduction in other forums is
permitted, provided the original
author(s) and the copyright owner(s) 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.

Corrigendum: Electrochemically induced *in vitro* focal hypoxia in human neurons

Joseph J. Y. Wong¹, Balazs V. Varga²,
Ragnhildur Thóra Káradóttir² and Elizabeth A. H. Hall^{1*}

¹Department of Chemical Engineering and Biotechnology, University of Cambridge, Cambridge, United Kingdom, ²Wellcome—MRC Cambridge Stem Cell Institute, Cambridge, United Kingdom

KEYWORDS

hypoxia, electrochemistry, microfluidic, human cortical neural progenitor, cortical neuron, axon, small vessel disease, lacunar infarct

A Corrigendum on [Electrochemically induced *in vitro* focal hypoxia in human neurons](#)

by Wong JJY, Varga BV, Káradóttir RT and Hall EAH (2022). *Front. Cell Dev. Biol.* 10:968341. doi: 10.3389/fcell.2022.968341

In the published article, there was an error in [Table 2](#) as published. This was due to a formatting error during publication causing rows to become misplaced in the final printed copy and subscript information to be lost.

The corrected [Table 2](#) and its caption Experimental design appear below.

In the published article, there was an error in [Table 3](#) as published. This was due to a formatting error during publication causing rows to become misplaced in the final printed copy.

The corrected [Table 3](#) and its caption pH and H₂O₂ concentration under eLOS oxygen scavenging appear below.

Error in Table carried over to the index figure.

In the published article, there was an error in Index figure as published. This arose as a carry-over of the error in the formatting of the table that the publishers used as index figure A corrected index figure appears below corresponding to [Figure 10](#) in the manuscript.

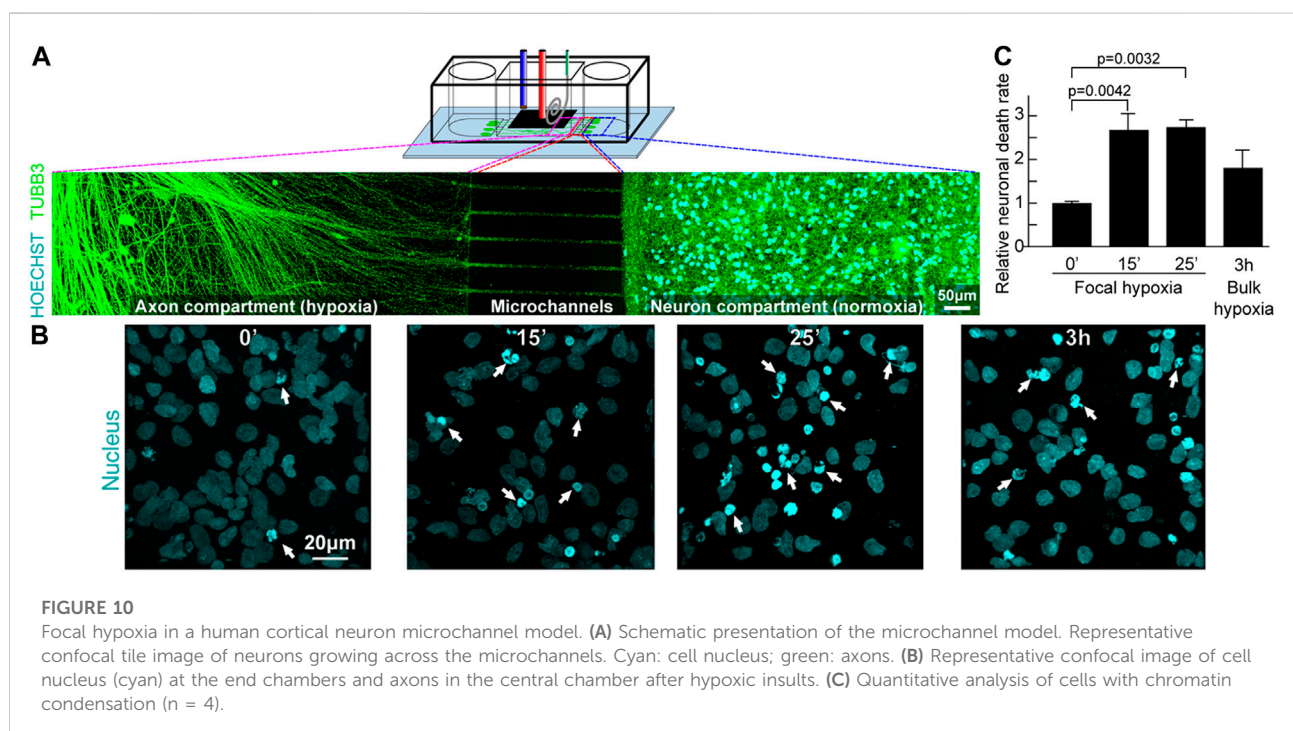
The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

TABLE 2 Experimental design.

Experimental design	Experiment	Conditions/parallel experiments	Replicates
Characterisation of Pt/C	<i>Oxygen adsorption</i>	In ambient	3
	<i>Oxygen adsorption</i>	In nitrogen	3
	<i>BET</i>	In nitrogen	3
	<i>Tafel plot</i>	In nitrogen	3
	<i>Oxygen concentration change</i>	In nitrogen	3
eLOS hypoxia 6 images randomly taken with minimum 100 cells each; minimum 1,000 cells per replicate	<i>Hypoxic response</i>	Negative control	3
	<i>Hypoxic response</i>	Time conditions	3 each
	<i>Hypoxic response</i>	Positive control (DMOG 250 μ M)	3
	<i>Acute hypoxia</i>	Negative control	3
	<i>Acute hypoxia</i>	Time conditions	3
	<i>Focal hypoxia</i>	Negative control	3
	<i>Focal hypoxia</i>	Position conditions	3
	<i>Focal hypoxia</i>	Positive control	3
Apoptosis study	<i>pH change</i>	Different solutions	3 each
	<i>H₂O₂ generation</i>	Different solutions	3 each
	<i>hNPC apoptosis</i>	Negative control	3
	<i>hNPC apoptosis</i>	H ₂ O ₂ concentrations	3 each
	<i>hNPC apoptosis</i>	Positive control (Staurosporine 100 nM)	3
Neuron focal hypoxia	<i>Hypoxia at microchannel device</i>	Positional conditions	3
	<i>Cortical neuron model</i>	Negative control	4
	<i>Cortical neuron model</i>	Focal hypoxia conditions	4 each
	<i>Cortical neuron model</i>	Bulk hypoxia	4

TABLE 3 pH and H₂O₂ concentration under eLOS oxygen scavenging.

Scavenging conditions (n = 3)	Measurand	Time (mins)		
		0	30	180
PBKCl PBKCl	pH [H ₂ O ₂]	7.3 ± 0.1 Negative	7.3 ± 0.1 0.8 ± 0.3 μM	7.3 ± 0.1 0.8 ± 0.3 μM
PBKCl with catalase PBKCl with catalase	pH [H ₂ O ₂]	7.3 ± 0.1 Negative	7.3 ± 0.1 Negative	7.2 ± 0.1 Negative
DMEM/F-12 DMEM/F-12	pH [H ₂ O ₂]	7.6 ± 0.1 Negative	7.6 ± 0.1 0.8 ± 0.3 μM	7.6 ± 0.1 Trace amount
DMEM/F-12 with catalase DMEM/F-12 with catalase	pH [H ₂ O ₂]	7.4 ± 0.1 Negative	7.4 ± 0.1 Negative	7.4 ± 0.1 Negative



Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated

organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.