



**QUEEN'S
UNIVERSITY
BELFAST**

Corrigendum: Biomolecules as Model Indicators of In Vitro and In Vivo Cold Plasma Safety

Heslin, C., Boehm, D., Gilmore, B. F., Megaw, J., Freeman, T. A., Hickok, N. J., Cullen, P. J., & Bourke, P. (2021). Corrigendum: Biomolecules as Model Indicators of In Vitro and In Vivo Cold Plasma Safety. *Frontiers in Physics*, 9, Article 664663. <https://doi.org/10.3389/fphy.2021.664663>

Published in:
Frontiers in Physics

Document Version:
Publisher's PDF, also known as Version of record

Queen's University Belfast - Research Portal:
[Link to publication record in Queen's University Belfast Research Portal](#)

Publisher rights

Copyright 2021 the authors.

This is an open access article published under a Creative Commons Attribution License (<https://creativecommons.org/licenses/by/4.0/>), which permits unrestricted use, distribution and reproduction in any medium, provided the author and source are cited.

General rights

Copyright for the publications made accessible via the Queen's University Belfast Research Portal is retained by the author(s) and / or other copyright owners and it is a condition of accessing these publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy

The Research Portal is Queen's institutional repository that provides access to Queen's research output. Every effort has been made to ensure that content in the Research Portal does not infringe any person's rights, or applicable UK laws. If you discover content in the Research Portal that you believe breaches copyright or violates any law, please contact openaccess@qub.ac.uk.

Open Access

This research has been made openly available by Queen's academics and its Open Research team. We would love to hear how access to this research benefits you. – Share your feedback with us: <http://go.qub.ac.uk/oa-feedback>



Corrigendum: Biomolecules as Model Indicators of *In Vitro* and *In Vivo* Cold Plasma Safety

Caitlin Heslin¹, Daniela Boehm^{1*}, Brendan F. Gilmore², Julianne Megaw², Theresa A. Freeman³, Noreen J. Hickok³, P. J. Cullen^{1,4} and Paula Bourke^{1,5,6*}

¹School of Food Science and Environmental Health, Technological University Dublin, Dublin, Ireland, ²School of Pharmacy, Queens University Belfast, Belfast, United Kingdom, ³Department of Orthopaedic Surgery, Sidney Kimmel Medical College, Jefferson University, Philadelphia, PA, United States, ⁴School of Chemical and Biomolecular Engineering, University of Sydney, Sydney, NSW, Australia, ⁵School of Biological Sciences, Queens University Belfast, Belfast, United Kingdom, ⁶Plasma Research Group, School of Biosystems and Food Engineering, University College Dublin, Dublin, Ireland

Keywords: cold atmospheric plasma, cytotoxicity, mutagenicity, safety, *in vivo* toxicity

A Corrigendum on

Biomolecules as Model Indicators of *In Vitro* and *In Vivo* Cold Plasma Safety

by Heslin C, Boehm D, Gilmore BF, Megaw J, Freeman TA, Hickok NJ, et al. *Front Phys* (2021) 8: 613046. doi:10.3389/fphy.2020.613046

In the original article, the reference for [16] was incorrectly written as “Khlyustova A, Jarzina F, Brinckmann S. Important parameters in plasma jets for the production of RONS in liquids for plasma medicine: a brief review. *Front Chem Sci Eng* (2019) 13:238–52. doi: 10.1007/s11705-019-1801-8.”

This should be “Khlyustova A, Labay C, Machala Z, Ginebra MP, Canal C. Important parameters in plasma jets for the production of RONS in liquids for plasma medicine: a brief review. *Front Chem Sci Eng* (2019) 13:238–52. doi: 10.1007/s11705-019-1801-8.”

Further, the reference for [17] was incorrectly written as “Labay C, Shimizu T, Thomas HM, Morfill GE. Enhanced generation of reactive species by cold plasma in gelatin solutions for selective cancer cell death. *ACS Appl Mater Interfaces* (2020) 12(42):47256–69. doi: 10.1021/acsami.0c12930.”

This should be “Labay, C, Roldán, M, Tampieri, F, Stancampiano, A, Escot Bocanegra, P, Ginebra, MP, Canal, C. Enhanced generation of reactive species by cold plasma in gelatin solutions for selective cancer cell death. *ACS Appl Mater Interfaces* (2020) 12(42):47256–69. doi: 10.1021/acsami.0c12930.”

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

REFERENCES

16. Khlyustova A, Labay C, Machala Z, Ginebra M-P, Canal C. Important parameters in plasma jets for the production of RONS in liquids for plasma medicine: a brief review. *Front Chem Sci Eng* (2019) 13:238–52. doi:10.1007/s11705-019-1801-8
17. Labay C, Roldán M, Tampieri F, Stancampiano A, Bocanegra PE, Ginebra MP, et al. Enhanced generation of reactive species by cold plasma in gelatin solutions for selective cancer cell death. *ACS Appl Mater Inter* (2020) 12(42):47256–69. doi:10.1021/acsami.0c12930

Copyright © 2021 Heslin, Boehm, Gilmore, Megaw, Freeman, Hickok, Cullen and Bourke. 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) 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.

OPEN ACCESS

Approved by:

Frontiers Editorial Office, Frontiers
Media SA, Switzerland

*Correspondence:

Paula Bourke
paula.bourke@ucd.ie
Daniela Boehm
daniela.boehm@tudublin.ie

Specialty section:

This article was submitted to
Plasma Physics,
a section of the journal
Frontiers in Physics

Received: 05 February 2021

Accepted: 08 February 2021

Published: 14 April 2021

Citation:

Heslin C, Boehm D, Gilmore BF,
Megaw J, Freeman TA, Hickok NJ,
Cullen PJ and Bourke P (2021)
Corrigendum: Biomolecules as Model
Indicators of *In Vitro* and *In Vivo* Cold
Plasma Safety.
Front. Phys. 9:664663.
doi: 10.3389/fphy.2021.664663