

RETRACTION NOTE

Open Access



Retraction Note: LNCAROD enhances hepatocellular carcinoma malignancy by activating glycolysis through induction of pyruvate kinase isoform PKM2

Guizhi Jia^{1,2†}, Yan Wang^{1,2†}, Chengjie Lin^{1,2†}, Shihui Lai^{1,2}, Hongliang Dai^{1,2}, Zhiqian Wang^{1,2}, Luo Dai^{1,2}, Huizhao Su^{1,2}, Yanjie Song^{3,4}, Naiwen Zhang^{3,4}, Yukuan Feng^{3,4*} and Bo Tang^{1,2*}

Retraction Note: J Exp Clin Cancer Res 40, 299 (2021)
<https://doi.org/10.1186/s13046-021-02090-7>

The Editor in Chief has retracted this article. After publication, concerns were raised about an apparent partial overlap between the leftmost SNU-449 migration panel in Fig. 2C and the top LNCAROD+2-DG panel in Fig. 4G. The authors were unable to provide a satisfactory set of raw data on request. Additionally, the issues

regarding the provenance of cell lines were not completely resolved in the published version of the article. The editor, therefore, has lost confidence in the integrity of the findings of this article. The authors have not explicitly stated that they agree to this retraction.

Published online: 02 March 2023

[†]Guizhi Jia, Yan Wang and Chengjie Lin contributed equally to this work.

The original article can be found online at <https://doi.org/10.1186/s13046-021-02090-7>

*Correspondence:

Yukuan Feng
fengyukuan@163.com
Bo Tang
dr_sntangbo@163.com

¹ Department of Hepatobiliary Surgery, The First Affiliated Hospital of Guangxi Medical University, 530021 Nanning, Guangxi, People's Republic of China

² Key Laboratory of Basic and Clinical Application Research for Hepatobiliary Diseases of Guangxi, 530021 Nanning, Guangxi, People's Republic of China

³ Department of Pancreatic Cancer, Key Laboratory of Cancer Prevention and Therapy, Tianjin Medical University Cancer Institute and Hospital, National Clinical Research Center for Cancer, 300060 Tianjin, People's Republic of China

⁴ Key Laboratory of Heilongjiang Province for Cancer Prevention and Control, School of Basic Medicine, Mudanjiang Medical University, 157011 Mudanjiang, People's Republic of China

Publisher's Note

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



© BioMed Central 2023. **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.