

RETRACTION NOTE

Open Access



Retraction Note: Curcumin synergizes with 5-fluorouracil by impairing AMPK/ULK1-dependent autophagy, AKT activity and enhancing apoptosis in colon cancer cells with tumor growth inhibition in xenograft mice

Pan Zhang¹, Ze-Lin Lai¹, Hui-Fen Chen², Min Zhang³, An Wang⁴, Tao Jia⁵, Wen-Qin Sun², Xi-Min Zhu¹, Xiao-Feng Chen^{4*}, Zheng Zhao^{1*} and Jun Zhang^{2,3*}

Retraction Note: *J Exp Clin Cancer Res* 36, 190 (2017)
<https://doi.org/10.1186/s13046-017-0661-7>

The Editor-in-Chief is retracting this article. Concerns have been raised about the welfare of the mice used in this study. The Editor-in-Chief has not been able to obtain clarification on whether the tumour volume and the humane endpoints in the experiments described were approved by the institutional animal ethics committee. None of the authors has responded to correspondence from the Publisher about this retraction.

Author details

¹Key Laboratory of Brain Functional Genomics (East China Normal University), Ministry of Education, School of Life Sciences, East China Normal University, Shanghai 200062, China. ²Department of Clinical Laboratory, Shanghai First Maternity and Infant Hospital, Tongji University School of Medicine, Shanghai 201204, China. ³Department of Clinical Laboratory, Shanghai Public Health Clinical Center Affiliated to Fudan University, Shanghai 201508, China. ⁴Department of Thoracic Surgery, Huashan Hospital, Fudan University, Shanghai 200040, China. ⁵INSERM-UGA U1209, CNRS UMR5309, Institute for Advanced Biosciences, F-38700 La Tronche, France.

Published online: 10 June 2022

Publisher's Note

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

The original article can be found online at <https://doi.org/10.1186/s13046-017-0661-7>.

*Correspondence: dr_chenxiaofeng@126.com; zzhao@brain.ecnu.edu.cn; zhangjun@51mch.com

¹ Key Laboratory of Brain Functional Genomics (East China Normal University), Ministry of Education, School of Life Sciences, East China Normal University, Shanghai 200062, China

³ Department of Clinical Laboratory, Shanghai Public Health Clinical Center Affiliated to Fudan University, Shanghai 201508, China

⁴ Department of Thoracic Surgery, Huashan Hospital, Fudan University, Shanghai 200040, China

Full list of author information is available at the end of the article



© BioMed Central_BMCE 2022. **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.