

RETRACTION NOTE

Open Access



Retraction Note: Berberine reduces temozolomide resistance by inducing autophagy via the ERK1/2 signaling pathway in glioblastoma

Huiling Qu^{1†}, Xiaofu Song^{1†}, Zhuyin Song^{1†}, Xin Jiang¹, Xin Gao², Lijuan Bai¹, Jiao Wu¹, Li Na¹ and Zhicheng Yao^{1*} 

Retraction Note: Cancer Cell International (2020) 20:592
<https://doi.org/10.1186/s12935-020-01693-y>.

The Editor in Chief has retracted this article. Following publication concerns were raised regarding a number of figures, including but not limited to:

- The TMZ 0hr panel in Fig. 2a appears similar to the FDPs 0h panel in Fig. 3 in [1] and the BRD4-KO#1 0h panel in Fig. 2C in [2].
- The Vector and CtBP1 bands in Fig. 3B appear similar to U251 Vector and b-catenin bands in Fig. 6G in [3] and p62 and b-actin blots in Fig. 3B in [4].
- The p-62 u87/TMZ-R in Fig. 3E appears similar to the Mcl-1 CHX blot in Fig. 4C in [5] and the p-PI3K GIST430 in [2].

The Editor-in-Chief therefore no longer has confidence in the results and conclusions of this article. The authors did not state explicitly whether they agree to this retraction.

Accepted: 4 June 2024

Published online: 07 June 2024

References

1. Chen Z, Chen G, Zhao H. FDPS promotes glioma growth and macrophage recruitment by regulating CCL20 via Wnt/ β -catenin signalling pathway. *J Cell Mol Med.* 2020;24(16):9055–66. <https://doi.org/10.1111/jcmm.15542>.
2. Mu J, Sun P, Ma Z, Sun P. Bromodomain and extraterminal domain inhibitor enhances the antitumor effect of imatinib in gastrointestinal stromal tumours. *J Cell Mol Med.* 2020;24(4):2519–30. <https://doi.org/10.1111/jcmm.14945>.
3. Tian T, Guo T, Zhen W, Zou J, Li F. BET degrader inhibits tumor progression and stem-like cell growth via Wnt/ β -catenin signaling repression in glioma cells. *Cell Death Dis.* 2020;11(10):1–13. <https://doi.org/10.1038/s41419-020-03117-1>.
4. Wang Z, Zhao Y, Xu H, Liang F, Zou Q, Wang C, Lin F. CtBP1 promotes tumour-associated macrophage infiltration and progression in non-small-cell lung cancer. *J Cell Mol Med.* 2020;24(19):11445–56. <https://doi.org/10.1111/jcmm.15751>.
5. Lin L, Ding D, Xiao X, Li B, Cao P, Li S. (2020). Trametinib potentiates TRAIL-induced apoptosis via FBW7-dependent Mcl-1 degradation in colorectal cancer cells. *Journal of Cellular and Molecular Medicine*, 24(12), 6822–6832. <https://doi.org/10.1111/jcmm.15336>

[†]Huiling Qu, Xiaofu Song and Zhuyin Song contributed equally to this work.

The online version of the original article can be found at <https://doi.org/10.1186/s12935-020-01693-y>.

*Correspondence:

Zhicheng Yao
15541955888@163.com

¹Department of Neurology, The People's Hospital of Liaoning Province, 33 Wenyi Road, Shenhe District, Shenyang, Liaoning 110016, China

²Department of Laboratory Medicine, The People's Hospital of Liaoning Province, Shenyang, Liaoning, China

