



Retraction Note: Chrysophanol suppresses growth and metastasis of T cell acute lymphoblastic leukemia via miR-9/PD-L1 axis

Junjie Yin^{1,2} · Qingsong Yin¹ · Bo Liang² · Ruihua Mi¹ · Hao Ai¹ · Lin Chen¹ · Xudong Wei¹

Published online: 28 November 2020

© Springer-Verlag GmbH Germany, part of Springer Nature 2020

The Editor in Chief retracted this article (Yin et al., 2020) because of significant concerns regarding a number of Figures presented in this work, which question the integrity of the data. After publication, overlap was detected with figures in articles submitted and published within a close time frame.

Figure 1C appears to contain similarities to Fig. 2G in an unrelated article by other authors (Sun et al., 2020)

Figure 4K image labeled as TALL-104 cells appears to be similar to that published previously in unrelated articles with different labels: Fig. 2E (Zhang et al., 2020) labeled as A549 cells; and Fig. 3E [4, now retracted] labeled as HT29 cells

Figure 6K appears to contain images that have been published previously (Zhang et al., 2020) and also labeled as a different cell type

The authors were unable to provide raw data and stated that the figures were obtained through a commercial lab hired to perform some of the experiments for this study.

All authors agree to this retraction.

References

- Yin J, Yin Q, Liang B, Mi R, Ai H, Chen L, Wei X (2020) Chrysophanol suppresses growth and metastasis of T cell acute lymphoblastic leukemia via miR-9/PD-L1 axis. *Naunyn Schmiedeberg's Arch Pharmacol* 393:273–286. <https://doi.org/10.1007/s00210-019-01778-0>
- Sun Y, Lv B, Zhang X (2020) Knock-down of LncRNA-XIST induced glioma cell death and inhibited tumorigenesis by regulating miR-137/SLC1A5 axis-mediated ROS production. *Naunyn Schmiedeberg's Arch Pharmacol*. <https://doi.org/10.1007/s00210-020-01831-3>
- Zhang J, Wang Q, Wang Q, Guo P, Wang Y, Xing Y, Zhang M, Liu F, Zeng Q (2020) Chrysophanol exhibits anti-cancer activities in lung cancer cell through regulating ROS/HIF-1 α /VEGF signaling pathway. *Naunyn Schmiedeberg's Arch Pharmacol* 393:469–480. <https://doi.org/10.1007/s00210-019-01746-8>
- Retracted article: Liu, K. et al. (2018) Hispidulin suppresses cell growth and metastasis by targeting PIM 1 through JAK 2/STAT 3 signaling in colorectal cancer *Cancer Science*. <https://doi.org/10.1111/cas.13575>

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

The online version of the original article can be found at <https://doi.org/10.1007/s00210-019-01778-0>

✉ Qingsong Yin
yinqingsong12@126.com

¹ Department of Hematology, The Affiliated Cancer Hospital of Zhengzhou University, Zhengzhou City 450008, Henan Province, China

² Department of Hematology, The Central Hospital of Xinxiang, Xinxiang City 453002, Henan Province, China