RETRACTION NOTE

Retraction Note: Hispidulin mediates apoptosis in human renal cell carcinoma by inducing ceramide accumulation

Hui Gao^{1,2}, Ming-quan Gao¹, Jian-jun Peng², Mei Han¹, Kai-li Liu¹ and Yan-tao Han³*Acta Pharmacologica Sinica* (2022) 43:1622; <https://doi.org/10.1038/s41401-021-00731-3>

Retraction to: *Acta Pharmacologica Sinica* <https://doi.org/10.1038/aps.2017.154>, published online 9 November 2017

The Editor-in-Chief has retracted this article. Concerns were raised regarding a number of figures, specifically:

- Figure 5C: two panels (SKI-II and SphK1 siRNA for Caki-2) appear to be nearly identical
- Figure 5C: the Caki-2 Control panel appears to be nearly identical to the ACHN SKI-II panel.
- Figure 5C: the Caki-2 panel for His (20 μ mol/l) appears to be nearly identical to the ACHN panel for His+SKI-II.
- Figure 5C: the Caki-2 panel for His+SKI-II appears to be nearly identical to the ACHN panel for His-SphK1 siRN.
- Figure 5C appears to partially overlap with Figure 5G of [1].
- Figure 6C: the TUNEL/Control, TUNEL/His (40 mg/kg) panels and the p-JNK1/2/His (40 mg/kg) panels appear to have been

previously published as the TUNEL/Control, TUNEL/His (40 mg/kg) and cleaved PARP/His (40 mg/kg) panels of Figure 4C of [2].

The Editor-in-Chief therefore no longer has confidence in the reliability of the data reported in the article.

REFERENCES

1. Pan X, Wang H, Tong D, Wang C, Sun L, Zhao C, et al. Physcion induces apoptosis in hepatocellular carcinoma by modulating miR-370. *Am J Cancer Res.* 2016;6:2919–31.
2. Gao MQ, Gao H, Han M, Liu KL, Peng JJ, Han YT. Hispidulin suppresses tumor growth and metastasis in renal cell carcinoma by modulating ceramide-sphingosine 1-phosphate rheostat. *Am J Cancer Res.* 2017;7:1501–14. (Retraction published *Am J Cancer Res.* 2020 Jun 01;10(6):1921).

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