



Retraction Note: Astaxanthin ameliorates cardiomyocyte apoptosis after coronary microembolization by inhibiting oxidative stress via Nrf2/HO-1 pathway in rats

Yugang Xue¹ · Chuang Sun¹ · Qimeng Hao¹ · Jin Cheng¹

Published online: 24 January 2024
© Springer-Verlag GmbH Germany, part of Springer Nature 2024

Retraction Note: Naunyn-Schmiedeberg's Archives of Pharmacology (2018) 392:341-348
<https://doi.org/10.1007/s00210-018-1595-0>

The Editor-in-Chief has retracted this article at the Corresponding Author's request. After publication, concerns were raised regarding high similarity of some of the images with those in previously published articles (Bi et al. 2013; Lin et al. 2015; Gao et al. 2013). Specifically:

- Fig. 2a CME+AST and CME+AST+ZnPP images appear to overlap with rotation, and are highly similar to Fig. 1b of (Bi et al. 2013).
- Fig. 2a Sham and CME images appear highly similar to Figs. 5b and 2b, respectively, of (Bi et al. 2013).
- Fig. 3a all panels appear to overlap with Fig. 4a of (Lin et al. 2015).
- Fig. 6a b-actin blot appears highly similar to Fig. 6 b-actin blots in (Gao et al. 2013).

Additionally, the authors have found that the western blot data in Fig. 4a were misused, and stated that some of the other data were presented incorrectly, which undermines the conclusions of this article.

The Editor-in-Chief therefore no longer has confidence in the presented data.

None of the authors have responded to any further correspondence from the publisher about this retraction.

References

- Bi H, Yang Y, Huang J et al (2013) Immunohistochemical detection of S100A1 in the postmortem diagnosis of acute myocardial infarction. *Diagn Pathol* 8:84. <https://doi.org/10.1186/1746-1596-8-84>
- Lin D, Ma J, Xue Y, Wang Z (2015) Penehyclidine hydrochloride preconditioning provides cardioprotection in a rat model of myocardial ischemia/reperfusion injury. *PLoS ONE* 10(12):e0138051. <https://doi.org/10.1371/journal.pone.0138051>
- Gao J, Zhang C, Fu X, Yi Q, Tian F et al (2013) Effects of targeted suppression of Glutaryl-CoA dehydrogenase by lentivirus-mediated shRNA and excessive intake of lysine on apoptosis in rat striatal neurons. *PLoS ONE* 8(5):e63084. <https://doi.org/10.1371/journal.pone.0063084>

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/10.1007/s00210-018-1595-0>.

✉ Jin Cheng
JinCheng445@163.com

¹ Department of Cardiology, Tangdu Hospital, Air Force Military Medical University, Xinsi Road, Xi'an 710000, China