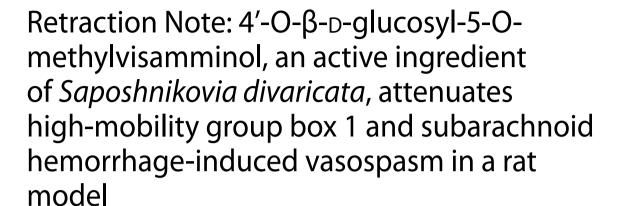
RETRACTION NOTE

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Retraction to: Behavioral and Brain Functions (2015) 11:28

https://doi.org/10.1186/s12993-015-0074-8.

The Editor-in-Chief has retracted this article. After publication, concerns were raised regarding similarities between the figures presented in this article and the authors' other publications that were either published earlier, or submitted and published within a similar time frame, specifically:

- Figure 1e appears highly similar to Fig. 1a of [1].
- Figure 5 GAPDH appears highly similar to b-actin in [2].

- Figure 7b appears highly similar to Fig. 1b in [3] and Fig. 2b in [4].
- Figure 7c appears highly similar to Fig. 1f in [5].

Additionally, Fig. 6 is stated to represent PCR results, but the authors are assessing the levels of activated (cleaved) proteins; and all error bars appear to be the same within figures or within groups.

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

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

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Reference

- Chang CZ, Wu SC, Kwan AL, et al. Magnesium lithospermate B alleviates the production of endothelin-1 through an NO-dependent mechanism and reduces experimental vasospasm in rats. Acta Neurochir. 2011;153:2211–7. https://doi.org/10.1007/s00701-011-1082-6.
- Chang CZ, Wu SC, Lin CL, et al. Valproic acid attenuates intercellular adhesion molecule-1 and E-selectin through a chemokine ligand 5 dependent mechanism and subarachnoid hemorrhage induced vasospasm in a rat model. J Inflamm. 2015;12:27. https://doi.org/10.1186/s12950-015-0074-3.
- Chang CZ, Wu SC, Lin CL, Kwan AL. Curcumin, encapsulated in nano-sized PLGA, down-regulates nuclear factor kB (p65) and subarachnoid hemorrhage



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- induced early brain injury in a rat model. Brain Res. 2015;1608:215–24. https://doi.org/10.1016/j.brainres.2015.02.039.
- Chang CZ, Wu SC, Kwan AL, Lin CL, Rhinacanthin-C. A Fat-Soluble Extract from Rhinacanthus Nasutus, modulates high-mobility Group Box 1-Related neuro-inflammation and Subarachnoid Hemorrhage-Induced Brain apoptosis in a rat model. World Neurosurg. 2016;86:349–60. https://doi.org/10.1016/j .wneu.2015.08.071.
- Chang CZ, Wu SC, Kwan AL. A purine antimetabolite attenuates toll-like receptor-2, -4, and subarachnoid hemorrhage-induced brain apoptosis. J Surg Res. 2015;199(2):676–87. https://doi.org/10.1016/j.jss.2015.06.011.

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