



Retraction Note to: LPS Pretreatment Provides Neuroprotective Roles in Rats with Subarachnoid Hemorrhage by Downregulating MMP9 and Caspase3 Associated with TLR4 Signaling Activation

Ting-Hua Wang¹ · Liu-Lin Xiong¹ · Shuai-Fen Yang¹ · Chao You¹ · Qing-Jie Xia¹ · Yang Xu¹ · Piao Zhang² · Shu-Fen Wang³ · Jia Liu^{1,2}

© The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2024

Retraction Note to: *Mol Neurobiol* (2017) 54:7746–7760
<https://doi.org/10.1007/s12035-016-0259-7>

The Editor in Chief has retracted the article. Concerns were raised regarding Figure 5D. Specifically the panel for SAH+LPS / DAPI partially overlaps with Figure 2B, Sham / DAPI. Upon further investigation concerns were identified with other figures, specifically:

- Figure 2B: the sham panels appear to be highly similar to the sham panels in Figure 4D.
- Figure 3B: the beta-actin 48h panel appears to be highly similar to the SAH+ vehicle panel of figure 4A.
- Figure 6: there appear to be unexpected similarities in the backgrounds between figures 6C and 6E.
- Figure 6: it appears that the controls have been used multiple times without declaration.

The Editor-in-Chief therefore no longer has confidence in the results and conclusions of this article.

The authors did not respond to correspondence from the Publisher about this retraction.

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/s12035-016-0259-7>.

✉ Shu-Fen Wang
wsf66@hotmail.com

✉ Jia Liu
liujiaaixuexi@126.com

Ting-Hua Wang
tinghua_neuron@263.net

¹ Institute of Neurological Disease, and Department of Neurosurgery, Translational Neuroscience Center, the State Key Laboratory of Biotherapy, West China Hospital, Sichuan University, Chengdu 610041, People's Republic of China

² Animal Zoology Department, Institute of Neuroscience, Kunming Medical University, Kunming 650000, China

³ Yunnan Key Laboratory of Stem Cells and Regenerative Medicine, Institute of Molecular and Clinical Medicine, Kunming Medical University, Kunming 650000, China