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## RETRACTION NOTICE

### ***Retraction of:*** **Norepinephrine Protects Cerebral Autoregulation and Reduces Hippocampal Necrosis after Traumatic Brain Injury via Blockade of ERK MAPK and IL-6 in Juvenile Pigs (DOI: 10.1089/neu.2015.4290)**

Dr. William Armstead, the corresponding author of the article entitled, “Norepinephrine Protects Cerebral Autoregulation and Reduces Hippocampal Necrosis after Traumatic Brain Injury via Blockade of ERK MAPK and IL-6 in Juvenile Pigs” (by William M. Armstead, John Riley, and Monica S. Vavilala; *J Neurotrauma* 2016;33(19):1761–1767; DOI: 10.1089/neu.2015.4290) has requested, via email, a full retraction of the published article since “*substantive questions have arisen regarding the findings, presentation and conclusions reported in the paper that could not be answered with available source data.*”

On three separate occasions, both the publisher and editor requested additional information detailing the specifics of the questions that were raised that invalidated the findings in the study, but did not receive a response from Dr. Armstead. Despite being unable to ascertain more unambiguous information, the Editor-in-Chief of the *Journal of Neurotrauma* agreed to Dr. Armstead’s request for a retraction after receiving agreements from the article’s coauthors.

Notably, Dr. Armstead also requested the retraction of two additional articles published in *Journal of Neurotrauma*,<sup>1,2</sup> making the same claim for all three papers. The two other articles are retracted separately.<sup>3,4</sup>

The editor and publisher of *Journal of Neurotrauma* is committed to preserving the accuracy of scientific literature.

#### References

1. Armstead, W.M., Riley, J., and Vavilala, M.S. (2017). Sex and age differences in epinephrine mechanisms and outcomes after brain injury. *J. Neurotrauma* 34, 1666–1675.
2. Hekierski, H., Pastor, P., Curevello, V., and Armstead, W.M. (2019). Inhaled nitric oxide protects cerebral autoregulation and reduces hippocampal neuronal cell necrosis after traumatic brain injury in newborn and juvenile pigs. *J. Neurotrauma* 36, 630–638.
3. *Retraction of:* Sex and age differences in epinephrine mechanisms and outcomes after brain injury (DOI: 10.1089/neu.2016.4770). *J. Neurotrauma* 2022;39, 894.
4. *Retraction of:* Inhaled nitric oxide protects cerebral autoregulation and reduces hippocampal neuronal cell necrosis after traumatic brain injury in newborn and juvenile pigs (DOI: 10.1089/neu.2018.5824). *J. Neurotrauma* 2022;39, 895.