



# Corrigendum: HDAC1 Silence Promotes Neuroprotective Effects of Human Umbilical Cord-Derived Mesenchymal Stem Cells in a Mouse Model of Traumatic Brain Injury via PI3K/AKT Pathway

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### Specialty section:

This article was submitted to  
Cellular Neuropathology,  
a section of the journal  
Frontiers in Cellular Neuroscience

Received: 12 June 2019

Accepted: 26 August 2019

Published: 09 September 2019

### Citation:

Xu L, Xing Q, Huang T, Zhou J, Liu T,  
Cui Y, Cheng T, Wang Y, Zhou X,  
Yang B, Yang GL, Zhang J, Zang X,  
Ma S and Guan F (2019)  
Corrigendum: HDAC1 Silence  
Promotes Neuroprotective Effects of  
Human Umbilical Cord-Derived  
Mesenchymal Stem Cells in a Mouse  
Model of Traumatic Brain Injury via  
PI3K/AKT Pathway.  
Front. Cell. Neurosci. 13:408.  
doi: 10.3389/fncel.2019.00408

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**Keywords:** histone deacetylase 1, human umbilical cord derived mesenchymal stem cells, traumatic brain injury, neuroprotection, PI3K/AKT

## A Corrigendum on

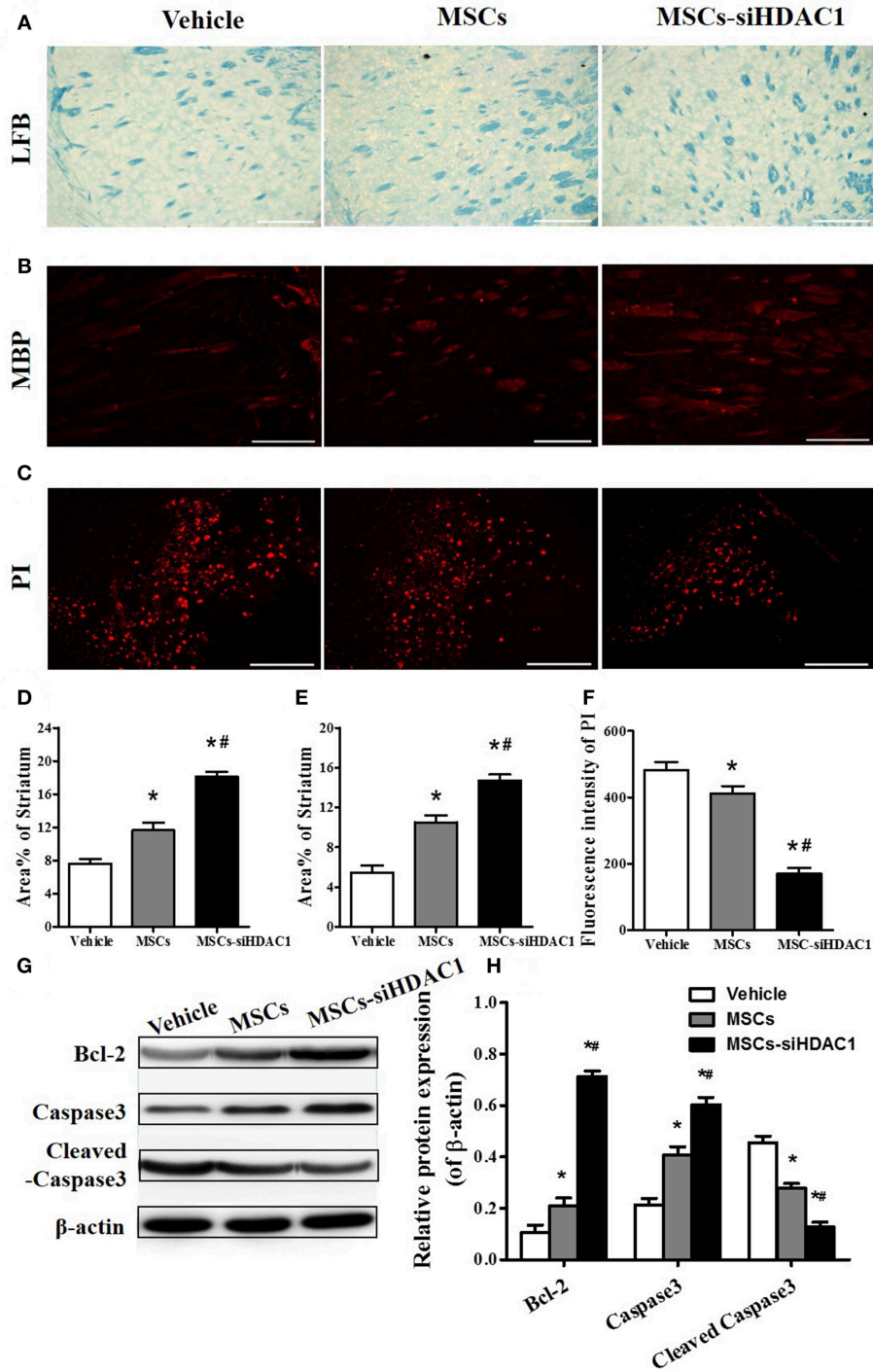
**HDAC1 Silence Promotes Neuroprotective Effects of Human Umbilical Cord-Derived Mesenchymal Stem Cells in a Mouse Model of Traumatic Brain Injury via PI3K/AKT Pathway** by Xu, L., Xing, Q., Huang, T., Zhou, J., Liu, T., Cui, Y., et al. (2019). *Front. Cell. Neurosci.* 12:498. doi: 10.3389/fncel.2018.00498

In the original article, there was a mistake in **Figure 5C** as published. The representative propidium iodide (PI) staining photo of the MSC-siHDAC1 group is incorrect. This photo was incorrectly chosen in the process of combining the figure.

At the same time, we also reanalyzed the fluorescence intensity of PI. And, the results showed that MSCs-siHDAC1 more significantly decreased PI fluorescence intensity than that in the original article. The corrected **Figure 5** appears below.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

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**FIGURE 5 |** HDAC1-silenced MSCs alleviated white matter injury and reduced cell death after TBI. **(A)** Representative images of luxol fast blue (LFB) staining. Scale bars = 100 μm. **(B)** Myelin basic protein (MBP) staining (red). Scale bars = 200 μm. **(C)** Representative propidium iodide (PI) staining (red) at 3 days after TBI. Scale bars = 100 μm. **(D)** Average area of LFB at 28 days after TBI. **(E)** Average area of MBP. **(F)** Quantitative analysis of PI fluorescence intensity in the injured cortex. **(G)** Western blotting and **(H)** densitometry measurement of Bcl-2, Caspase 3, and Cleaved caspase 3 in the lesion boundary zone of each group at 3 days post-injury. Data are presented as mean ± SEM. \**p* < 0.05 vs. Vehicle, #*p* < 0.05 vs. MSCs.