



# Corrigendum: Lipoxin A4 Inhibits NLRP3 Inflammasome Activation in Rats With Non-compressive Disc Herniation Through the JNK1/Beclin-1/PI3KC3 Pathway

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**Keywords:** lipoxin A4, non-compressive disc herniation, NLRP3, JNK1, beclin-1, PI3KC3

## A Corrigendum on

### Lipoxin A4 Inhibits NLRP3 Inflammasome Activation in Rats With Non-compressive Disc Herniation Through the JNK1/Beclin-1/PI3KC3 Pathway

by Jin, J., Xie, Y., Shi, C., Ma, J., Wang, Y., Qiao, L., et al. (2020). *Front. Neurosci.* 14:799.  
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In the original article, there was a mistake in the legend for **Figure 6** as published. **The results were error in Figure 6A, so the legend of Figure 6 was revised**. The correct legend appears below.

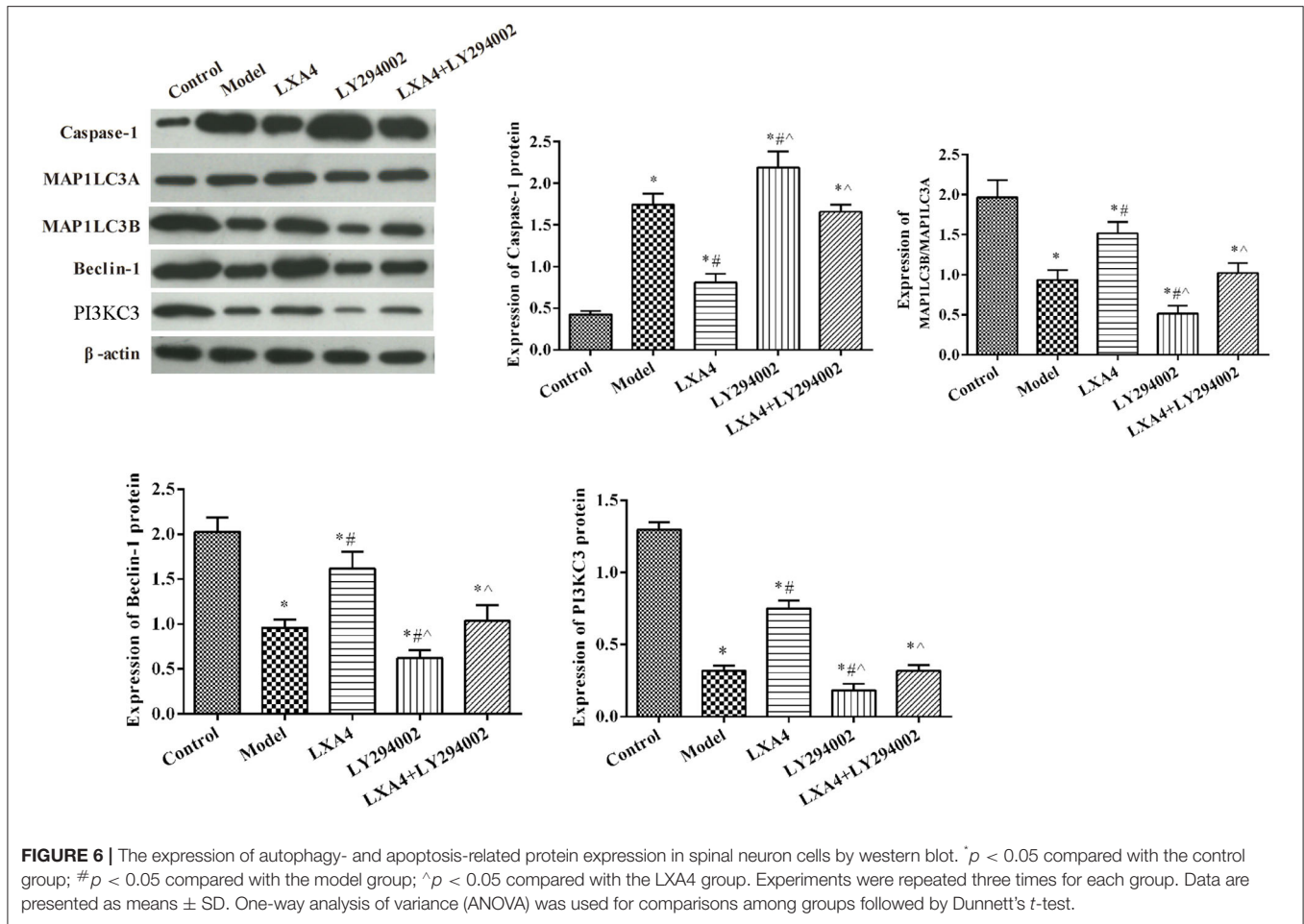
**Figure 6.** The expression of autophagy- and apoptosis-related protein expression in spinal neuron cells by western blot. \* $p < 0.05$  compared with the control group; # $p < 0.05$  compared with the model group; ^ $p < 0.05$  compared with the LXA4 group. Experiments were repeated three times for each group. Data are presented as means  $\pm$  SD. One-way analysis of variance (ANOVA) was used for comparisons among groups followed by Dunnett's  $t$ -test. \*\*

In the original article, there was a mistake in **Figure 6** as published. **The results of Figure 6A were error, so the results of Figure 6A were deleted in Figure 6**. The corrected **Figure 6** appears below.

In the original article, there was an error. **The levels of TNF (orb79138-480), IL-1 $\beta$  (orb79117), IL-18 (orb107403), IL-4 (orb303658), IL-10 (orb76364), and TGF- $\beta$ 1 (orb7087) (all from Biorbyt, Cambridge, United Kingdom) in the spinal dorsal horn, dorsal root ganglion, and spinal neurons were measured following the instructions of the respective ELISA kits.**\*\*

A correction has been made to **Materials and Methods**, **ELISA**, **Page 3**:

**The levels of TNF- $\alpha$  (orb452907), IL-1 $\beta$  (orb453587), IL-18 (orb107403), IL-4 (orb303658), IL-10 (orb76364), and TGF- $\beta$ 1 (orb7087) (all from Biorbyt, Cambridge, United Kingdom) in**



the spinal dorsal horn and dorsal root ganglion were measured following the instructions of the respective ELISA kits. \*\*

In the original article, there was an error. \*\*The Effect of LXA4 on the Expression of the NLRP3 Inflammasome and Autophagy-Related Proteins in TNF- $\alpha$ -Induced Neuronal Cells *in vitro*\*\*

A correction has been made to \*\*Results\*\*, \*\*The Effect of LXA4 on the Expression of the NLRP3 Inflammasome and Autophagy-Related Proteins in TNF- $\alpha$ -Induced Neuronal Cells *in vitro*\*\*<sup>\*\*</sup>, \*\*Page 9\*\*:

\*\*The Effect of LXA4 on the Expression of Autophagy-Related Proteins in TNF- $\alpha$ -Induced Neuronal Cells *in vitro*\*\*

In the original article, there was an error. \*\*The levels of proinflammatory (TNF- $\alpha$ , IL-1 $\beta$ , and IL-18) and anti-inflammatory (IL-4, IL-10, TGF- $\beta$ ) mediators are shown in Figure 6A. Compared with control group, the levels of TNF- $\alpha$ , IL-1 $\beta$ , and IL-18 clearly increased in other groups ( $p < 0.05$ ). Administration of LXA4 led to a marked reduction in the expression levels of TNF- $\alpha$ , IL-1 $\beta$ , and IL-18 compared with the model group, while the effect of LXA4 was weakened by LY294002 ( $p < 0.05$ ). Compared with control group, the levels of TNF- $\alpha$ , IL-1 $\beta$ , and IL-18 clearly obviously decreased in other groups ( $p < 0.05$ ). Meanwhile, the expression of IL-4, IL-10, and TGF- $\beta$  was significantly increased in the LXA4

group compared with the model group ( $p < 0.05$ ). Similar to the *in vivo* results, LXA4 treatment markedly upregulated the contents of anti-inflammatory factors and weakened the effect of LY294002. The expression of autophagy-related proteins were also measured *in vitro* (Figure 6B). Compared with the control group, the expression of MAP1LC3B/MAP1LC3A, Beclin-1, and PI3KC3 was significantly decreased in other groups ( $p < 0.05$ ). The expression of caspase-1 was significantly increased after TNF- $\alpha$  stimulated, compared with control group ( $p < 0.05$ ). LY294002 administration further decreased the expression levels of these proteins. Meanwhile, treatment with LXA4 significantly increased the expression of autophagy-related proteins and weakened the effect of LY294002 ( $p < 0.05$ ). \*\*

A correction has been made to \*\*Results\*\*, \*\*The Effect of LXA4 on the Expression of Autophagy-Related Proteins in TNF- $\alpha$ -Induced Neuronal Cells *in vitro*\*\*<sup>\*\*</sup>, \*\*Page 10\*\*:

\*\*The expression of autophagy-related proteins were also measured *in vitro* (Figure 6). Compared with the control group, the expression of MAP1LC3B/MAP1LC3A, Beclin-1, and PI3KC3 was significantly decreased in other groups ( $p < 0.05$ ). The expression of caspase-1 was significantly increased after TNF- $\alpha$  stimulated, compared with control group ( $p < 0.05$ ). LY294002 administration further decreased the expression levels

of these proteins. Meanwhile, treatment with LXA4 significantly increased the expression of autophagy-related proteins and weakened the effect of LY294002 ( $p < 0.05$ ). \*\*

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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