Corrigendum

Corrigendum to "Tuina Massage Improves Cognitive Functions of Hypoxic-Ischemic Neonatal Rats by Regulating Genome-Wide DNA Hydroxymethylation Levels"

Yunpeng Zhang,^{1,2} Chao Gao,³ Danmei Chen,^{1,2} Cuiting Wang,^{1,2} Long Chen,^{2,4} Yaodong Zhang,⁵ and Bing Li (1)^{1,2}

Correspondence should be addressed to Bing Li; libingbm@163.com

Received 21 April 2020; Accepted 21 April 2020; Published 11 May 2020

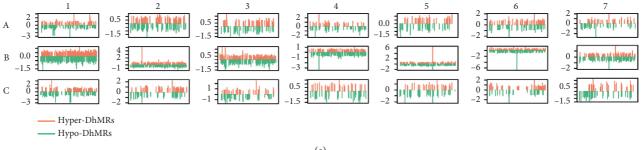
Copyright © 2020 Yunpeng Zhang et al. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

In the article titled "Tuina Massage Improves Cognitive Functions of Hypoxic-Ischemic Neonatal Rats by Regulating Genome-Wide DNA Hydroxymethylation Levels" [1], there were errors in the presentation of Figure 5 that are corrected as follows.

In Figure 5(f), mean \pm SD was used rather than mean \pm S.E.M as described in the methods. In order to be consistent, Figure 5(f) is corrected to use mean \pm S.E.M.

Figures 5(a)-5(c) were originally circle diagrams, and the lines inside the circle could not be seen clearly. A linear diagram gives a clear view of the distribution of hDMRs on each chromosome and facilitates comparison between the three groups.

The bar chart in Figures 5(d) and 5(e) showed only p values. These are replaced with a series of bubble diagrams, which can display the degree of functional



¹Research Center for Clinical Medicine, Jinshan Hospital, Fudan University, Shanghai, China

²Institute of Neurology, Academy of Integrative Medicine, Fudan University, Shanghai, China

³Department of Rehabilitation, Henan Children's Hospital, Zhengzhou University, Zhengzhou, China

⁴Department of Neurology, Jinshan Hospital, Fudan University, Shanghai, China

⁵Department of Pediatrics, Henan Children's Hospital, Zhengzhou University, Zhengzhou, China

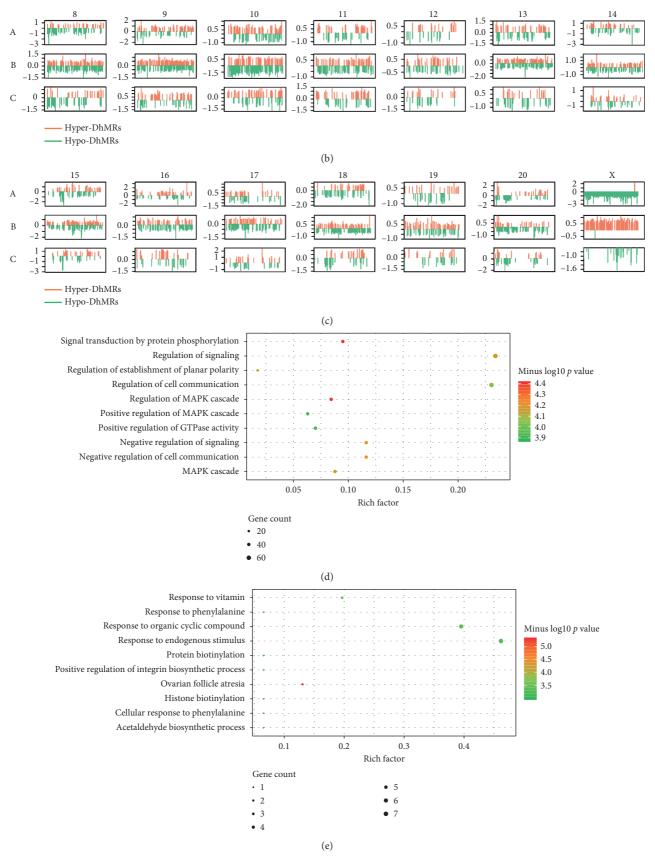
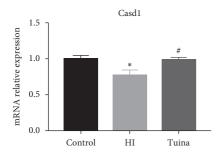
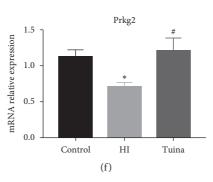


FIGURE 5: Continued.





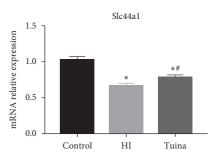


FIGURE 5: Identification and characterization of differentially hydroxymethylated regions (DhMRs). (a–c) Chromosome map of genome-wide DhMRs. (a) Control vs. HI group; (b) HI vs. tuina group; (c) control vs. tuina group. Top ten GO enrichment analysis results of HI group's higher hydroxymethylation associated DhMRs compared with the control (d) and tuina (e) group. (f) RT-PCR analysis of the mRNA levels of selected hypo-DhMRs related genes. β -Actin was used as a control. (*p < 0.05 vs. control group and *p < 0.05 vs. HI group).

enrichment from three indicators: the depth of the color corresponds to the *p* value in the original figure, the size of the point is gene count, and the Rich factor on the *x*-axis indicates the proportion of genes that falls into this GO term.

Moreover, Figures 5(d) and 5(e) originally showed the HI group's lower hydroxymethylation-associated DhMRs compared with the control 5(f) and tuina 5(e) groups. This has been changed to higher hydroxymethylation-associated DhMRs, which the authors believe is more meaningful for the subsequent MAPK signalling pathway studies. Accordingly, the result description "As shown in Figures 5(d) and 5(e), GO enrichment analysis indicated that these hypo-DhMRs..." should be replaced as follows.

As shown in Figures 5(d) and 5(e), GO enrichment analysis indicated that these hyper-DhMRs in the HI group were found highly enriched on the functional pathways related to neurodevelopment and neuronal functions, including positive regulation of MAPK cascade, regulation of signal transduction by protein phosphorylation, and the MAPK cascade itself.

References

[1] Y. Zhang, C. Gao, D. Chen et al., "Tuina massage improves cognitive functions of hypoxic-ischemic neonatal rats by regulating genome-wide DNA hydroxymethylation levels," *Evidence-Based Complementary and Alternative Medicine*, vol. 2019, Article ID 1282085, 11 pages, 2019.