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Authors: Peng Huang, Zhaoyang Dong, Weiliang Huang, Chuying Zhou, Weichao Zhong, Peiqian Hu, Ge Wen, Xuegang Sun, Heyu Hua, Huihui Cao, Lei Gao, Zhiping Lv



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# Voluntary wheel running ameliorates depression-like behaviors and brain blood oxygen level-dependent signals in chronic unpredictable mild stress mice

Peng Huang<sup>a,1</sup>, Zhaoyang Dong<sup>b,1</sup>, Weiliang Huang<sup>a</sup>, Chuying Zhou<sup>a</sup>, Weichao Zhong<sup>a</sup>, Peiqian Hu<sup>c</sup>, Ge Wen<sup>d</sup>, Xuegang Sun<sup>a</sup>, Heyu Hua<sup>e</sup>, Huihui Cao<sup>a</sup>, Lei Gao<sup>a,\*</sup>, and Zhiping Lv<sup>a,\*</sup>

<sup>a</sup> School of Traditional Chinese Medicine, Southern Medical University, Guangzhou, Guangdong, China

<sup>b</sup> School of Nursing, Guangzhou University of Chinese Medicine, Guangzhou, Guangdong, China

<sup>c</sup> Zhujiang Hospital, Southern Medical University, Guangzhou, Guangdong, China

<sup>d</sup> Nanfang Hospital, Southern Medical University, Guangzhou, Guangdong, China

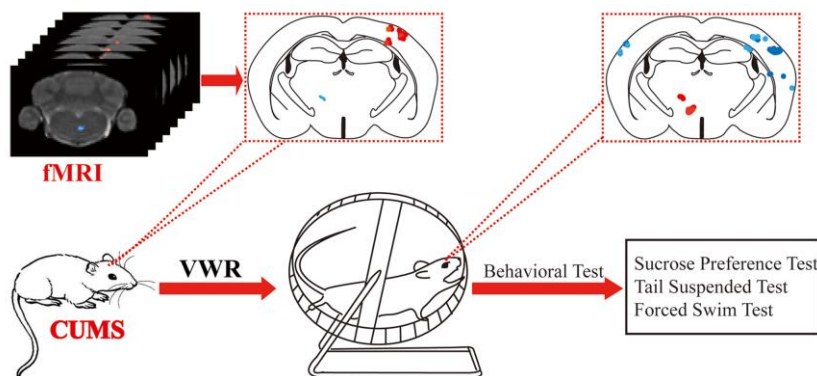
<sup>e</sup> School of Chinese Medicine, The Chinese University of Hong Kong, Hong Kong, China

\* Corresponding author at: School of Traditional Chinese Medicine, Southern Medical University, Guangzhou, Guangdong, China.

Electronic address: lzp48241@126.com, raygaolei@smu.edu.cn

<sup>1</sup> These authors have contributed equally to this article.

**Graphical Abstract:** A model depicting the physical activity by wheel running ameliorated depression-like behavior and improves brain BOLD signals in CUMS induced depression mice.



## Highlights

- Few animal imaging studies have been undertaken to address the impact of physical activity on brain function of depression.
- BOLD-based fMRI was used to examine the brain functional changes induced by physical activity in CUMS animal models.

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