

## Accepted Manuscript

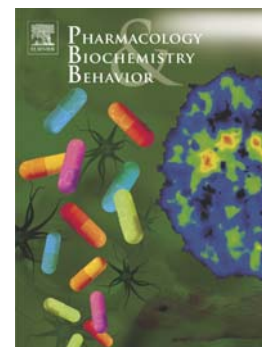
*Ginkgo biloba* and vitamin E ameliorate haloperidol-induced vacuous chewing movement and brain-derived neurotrophic factor expression in a rat tardive dyskinesia model

Jing Shi, Yun Long Tan, Zhi Ren Wang, Hui Mei An, Jia Li, Yue Chan Wang, Meng Han Lv, Shao Xiao Yan, Jing Qin Wu, Jair C. Soares, Fu De Yang, Xiang Yang Zhang

PII: S0091-3057(16)30103-4  
DOI: doi: [10.1016/j.pbb.2016.06.003](https://doi.org/10.1016/j.pbb.2016.06.003)  
Reference: PBB 72372

To appear in: *Pharmacology, Biochemistry and Behavior*

Received date: 9 January 2016  
Revised date: 30 May 2016  
Accepted date: 1 June 2016



Please cite this article as: Shi Jing, Tan Yun Long, Wang Zhi Ren, An Hui Mei, Li Jia, Wang Yue Chan, Lv Meng Han, Yan Shao Xiao, Wu Jing Qin, Soares Jair C., De Yang Fu, Zhang Xiang Yang, *Ginkgo biloba* and vitamin E ameliorate haloperidol-induced vacuous chewing movement and brain-derived neurotrophic factor expression in a rat tardive dyskinesia model, *Pharmacology, Biochemistry and Behavior* (2016), doi: [10.1016/j.pbb.2016.06.003](https://doi.org/10.1016/j.pbb.2016.06.003)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Ginkgo biloba and vitamin E ameliorate haloperidol-induced vacuous chewing movement and brain-derived neurotrophic factor expression in a rat tardive dyskinesia model**

**Jing Shi<sup>a,1</sup>, Yun Long Tan<sup>a,1</sup>, Zhi Ren Wang<sup>a</sup>, Hui Mei An<sup>a</sup>, Jia Li<sup>a</sup>, Yue Chan Wang<sup>a</sup>, Meng Han Lv<sup>b</sup>, Shao Xiao Yan<sup>b</sup>, Jing Qin Wu<sup>c</sup>, Jair C. Soares<sup>d</sup>, Fu De Yang<sup>a</sup>, Xiang Yang Zhang<sup>a,b,d</sup>**

<sup>a</sup> *Psychiatry Research Center, Beijing HuiLongGuan Hospital, Peking University, Beijing, China*

<sup>b</sup> *Department of Chinese Integrative Medicine, Beijing HuiLongGuan Hospital, Peking University, Beijing, China*

<sup>c</sup> *School of Biomedical Sciences and Pharmacy, Faculty of Health, the University of Newcastle, New South Wales, Australia*

<sup>d</sup> *Department of Psychiatry and Behavioral Sciences, The University of Texas Health Science Center at Houston, Houston, Texas, USA*

<sup>1</sup> Jing Shi and Yun Long Tan contributed equally to the study. They should be regarded as joint First Authors.

**Corresponding Authors:** Xiang Yang Zhang, M.D., Ph.D., Department of Psychiatry and Behavioral Sciences, The University of Texas Health Science Center at Houston; 1941 East Road, Houston, TX 77054, USA. Email: xiang.y.zhang@uth.tmc.edu

Fu De Yang, MD, Beijing HuiLongGuan Hospital, ChangPing District, Beijing, 100096, PR China. Tel: +86-10-62715511ext 6251; Email: yfd200@126.com

**Running title:** EGb761 and BDNF

**Acknowledgment:** This study was supported by grants from the National Natural Science Foundation of China (81371477, 30770782, 81071086, and), the Beijing Municipal Natural Science Foundation (7132063 and 7072035), and Beijing TCM Technology Project Foundation (JJ2014-03).

Download English Version:

<https://daneshyari.com/en/article/2012650>

Download Persian Version:

<https://daneshyari.com/article/2012650>

[Daneshyari.com](https://daneshyari.com)