# **Accepted Manuscript**

Activation of  $\alpha 7$  nicotinic acetylcholine receptors protects astrocytes against oxidative stress-induced apoptosis: implications for Parkinson's disease

Yuan Liu , Xiaoning Zeng , Yujian Hui , Chenlei Zhu , Jie Wu , Devin H. Taylor , Juan Ji , Weimin Fan , Zuhu Huang , M.D., Ph.D., Jun Hu , M.D., Ph.D.

Neuro pharmacology

PII: S0028-3908(14)00444-4

DOI: 10.1016/j.neuropharm.2014.11.028

Reference: NP 5676

To appear in: Neuropharmacology

Received Date: 26 June 2014

Revised Date: 26 November 2014 Accepted Date: 28 November 2014

Please cite this article as: Liu, Y., Zeng, X., Hui, Y., Zhu, C., Wu, J., Taylor, D.H., Ji, J., Fan, W., Huang, Z., Hu, J., Activation of α7 nicotinic acetylcholine receptors protects astrocytes against oxidative stress-induced apoptosis: implications for Parkinson's disease, *Neuropharmacology* (2015), doi: 10.1016/j.neuropharm.2014.11.028.

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.

#### ACCEPTED MANUSCRIPT

Activation of  $\alpha 7$  nicotinic acetylcholine receptors protects astrocytes against oxidative stress-induced apoptosis: implications for Parkinson's disease.

**Running title:** Nicotine protects astrocytes against apoptosis by α7-nAChRs

Yuan Liu<sup>2#</sup>, Xiaoning Zeng<sup>3#</sup>, Yujian Hui<sup>1</sup>, Chenlei Zhu<sup>1</sup>, Jie Wu<sup>4</sup>, Devin H. Taylor<sup>4</sup>, Juan Ji<sup>3</sup>, Weimin Fan<sup>1</sup>, Zuhu Huang<sup>2\*</sup>, Jun Hu<sup>1\*</sup>

<sup>1</sup>Department of Orthopedics, the First Affiliated Hospital of Nanjing Medical University, Nanjing 210029, China.

<sup>2</sup>Department of Infectious Diseases, the First Affiliated Hospital of Nanjing Medical University, Nanjing 210029, China.

<sup>3</sup>Department of Respiratory Medicine, the First Affiliated Hospital of Nanjing Medical University, Nanjing 210029, China.

<sup>4</sup>Division of Neurology, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, Phoenix, AZ 85013, USA.

## \* Corresponding authors:

Zuhu Huang M.D., Ph.D. & Jun Hu, M.D., Ph.D.

Department of Orthopedics, the First Affiliated Hospital of Nanjing Medical University, Guang Zhou Road 300, Nanjing, 210029, China.

Tel: +86 83714511; Fax: +86 25 83711066

E-mail: <u>junhu89@vip.sina.com</u> (J. Hu)

<sup>#</sup>These two authors contributed equally to this work.

### Download English Version:

# https://daneshyari.com/en/article/5813917

Download Persian Version:

https://daneshyari.com/article/5813917

<u>Daneshyari.com</u>