

# Accepted Manuscript

High glucose forces a positive feedback loop connecting ErbB4 expression and mTOR/S6K pathway to aggravate the formation of tau hyperphosphorylation in differentiated SH-SY5Y cells

Sheng-Dan Nie, Xin Li, Can-E. Tang, Fang-Yuan Min, Xia-Jie Shi, Liang-Yan Wu, Shan-Lei Zhou, Zi Chen, Jing Wu, Tao Song, Zhi-Jie Dai, Jiao Zheng, Jia-jia Liu, Shan Wang

PII: S0197-4580(18)30101-5

DOI: [10.1016/j.neurobiolaging.2018.03.023](https://doi.org/10.1016/j.neurobiolaging.2018.03.023)

Reference: NBA 10203

To appear in: *Neurobiology of Aging*

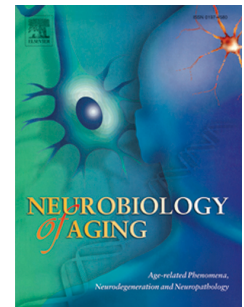
Received Date: 26 October 2017

Revised Date: 14 February 2018

Accepted Date: 17 March 2018

Please cite this article as: Nie, S.-D., Li, X., Tang, C.-E., Min, F.-Y., Shi, X.-J., Wu, L.-Y., Zhou, S.-L., Chen, Z., Wu, J., Song, T., Dai, Z.-J., Zheng, J., Liu, J.-j., Wang, S., High glucose forces a positive feedback loop connecting ErbB4 expression and mTOR/S6K pathway to aggravate the formation of tau hyperphosphorylation in differentiated SH-SY5Y cells, *Neurobiology of Aging* (2018), doi: 10.1016/j.neurobiolaging.2018.03.023.

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.



**High glucose forces a positive feedback loop connecting ErbB4 expression and mTOR/S6K pathway to aggravate the formation of tau hyperphosphorylation in differentiated SH-SY5Y cells**

Sheng-Dan Nie<sup>1\*#</sup>, Xin Li<sup>2\*</sup>, Can-E Tang<sup>3</sup>, Fang-Yuan Min<sup>2</sup>, Xia-Jie Shi<sup>4</sup>, Liang-Yan Wu<sup>4</sup>, Shan-Lei Zhou<sup>4</sup>, Zi Chen<sup>4</sup>, Jing Wu<sup>4</sup>, Tao Song<sup>5</sup>, Zhi-Jie Dai<sup>6</sup>, Jiao Zheng<sup>1</sup>, Jia-jia Liu<sup>2</sup>, Shan Wang<sup>2#</sup>

<sup>1</sup>Institute of Clinical Medicine, Hunan provincial people's hospital, the first affiliated hospital of Hunan Normal University, Changsha, China

<sup>2</sup>Dept of Pharmaceutical Engineering, College of Chemistry and Chemical Engineering, Central South University, Changsha, China

<sup>3</sup>Institute of Medical Sciences, Xiangya Hospital, Central South University, Changsha, China

<sup>4</sup>Dept of Endocrinology, Xiangya Hospital, Central South University, Changsha, China

<sup>5</sup>Dept of Neurosurgery, Xiangya Hospital, Central South University, Changsha, China

<sup>6</sup>Institute of Metabolism and Endocrinology, The Second Xingya Hospital, Central South University, Changsha, China

\*These authors contributed equally to this work and should be considered co-first authors.

#Correspondence: Shan Wang (wangshancsu0717@163.com), Dept of Pharmaceutical Engineering, College of Chemistry and Chemical Engineering, Central South University, P.O. Box 108, Changsha, 410083, China, Tel: 0086-073188570405; Sheng-Dan Nie ([nieshengdan@163.com](mailto:nieshengdan@163.com)), Institute of Clinical Medicine, Hunan provincial people's hospital, the first affiliated hospital of Hunan Normal University, Changsha, China.

Download English Version:

<https://daneshyari.com/en/article/6802933>

Download Persian Version:

<https://daneshyari.com/article/6802933>

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