Erratum to: Overexpression of Human E46K Mutant α -Synuclein Impairs Macroautophagy via Inactivation of JNK1-Bcl-2 Pathway

Jia-Qing Yan · Yu-He Yuan · Yan-Na Gao ·
Ju-Yang Huang · Kai-Li Ma · Yan Gao ·
Wan-Qing Zhang · Xiao-Feng Guo · Nai-Hong Chen

Published online: 1 June 2014
© Springer Science+Business Media New York 2014

Erratum to: Mol Neurobiol
DOI 10.1007/s12035-014-8738-1

The original version of the article unfortunately contains mistake on Fig. 2a as the upper image should be from the GFP group cells. This correction does not change the conclusion of the article. The authors are hereby correcting this figure as shown.

The online version of the original article can be found at <http://dx.doi.org/10.1007/s12035-014-8738-1>.

J.-Q. Yan · Y.-H. Yuan · Y.-N. Gao · J.-Y. Huang · K.-L. Ma ·
Y. Gao · W.-Q. Zhang · N.-H. Chen (✉)
State Key Laboratory of Bioactive Substances and Functions of
Natural Medicines, Department of Pharmacology, Institute of
Materia Medica, Chinese Academy of Medical Sciences and Peking
Union Medical College, 1 Xiannongtan Street, Xicheng District,
100050 Beijing, People's Republic of China
e-mail: chennh@imm.ac.cn

Y.-N. Gao · W.-Q. Zhang
Tianjin University of Traditional Chinese Medicine, Tianjin,
People's Republic of China

Y.-N. Gao
Beijing Key Laboratory of New Drug Mechanisms and
Pharmacological Evaluation Study, Beijing,
People's Republic of China

X.-F. Guo
Shanxi University of Traditional Chinese Medicine, Taiyuan,
People's Republic of China

Fig. 2 Overexpression of E46K mutant α -synuclein inhibits autophagy induction. **(a)** PC12 cells stably overexpressing E46K mutant α -synuclein GFP were labeled with 50 nM of LysoTracker for 2 h and then visualized using a confocal microscopy. Scale bar 10 μ m. PC12 cells stable overexpression of E46K mutant α -synuclein GFP **(b)** or PC12 and HEK293 cells transfected with E46K mutant α -synuclein **(c)** for 48 h were harvested, and protein extracts were immunoblotted for LC3. **(d)** Immunostaining of endogenous LC3 positive puncta in PC12 cells stably transfected with E46K mutant α -synuclein GFP. Scale bar 10 μ m. **(e)** Analysis of autophagosome (indicated with a red arrow) numbers in PC12 cells stably overexpressing E46K mutant α -synuclein GFP by

EM. Scale bar 500 nm. **(f)** PC12 cells stably and HEK293 cells transiently transfected with E46K mutant α -synuclein were lysed and immunoblotted with an anti-Atg 4B antibody. **(g)** PC12 cells stably overexpressing E46K mutant α -synuclein GFP were treated with and without 100 μ M CQ for 2 h and then lysed and subjected to SDS-PAGE. **(h)** CHO cells stably expressing GFP-LC3 were transfected with E46K mutant α -synuclein or an empty vector for 48 h followed by 2 h of incubation with and without 100 μ M CQ. GFP fluorescence intensity was assessed using flowcytometry. For all of the graphs, data were shown as means $\pm$ SD for three independent experiments performed in triplicate. * P < 0.05; ** P < 0.01; *** P < 0.001 by two-tailed Student's t test