Corrections

MEDICAL SCIENCES

Correction for "NF-κB inhibits osteogenic differentiation of mesenchymal stem cells by promoting β-catenin degradation," by Jia Chang, Fei Liu, Min Lee, Benjamin Wu, Kang Ting, Janette N. Zara, Chia Soo, Khalid Al Hezaimi, Weiping Zou, Xiaohong Chen, David J. Mooney, and Cun-Yu Wang, which appeared in issue 23, June 4, 2013, of *Proc Natl Acad Sci USA* (110:9469–9474; first published May 20, 2013; 10.1073/pnas.1300532110).

The authors note that Fig. 1 appeared incorrectly. The corrected figure and its legend appear below. This error does not affect the conclusions of the article.

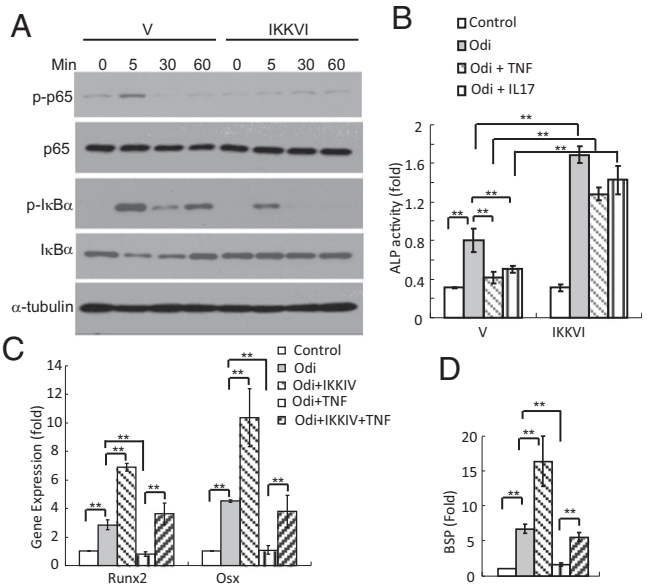

Fig. 1. The IKKβ small molecule inhibitor, IKKVI, promotes osteogenic differentiation by inhibiting NF-κB. (*A*) IKKVI inhibited IKK activities induced by TNF in mMSCs. Cells were pretreated with IKKVI or vehicle control for 30 min and then treated with TNF for the indicated times. The phosphorylation and degradation of IκBα and p65 phosphorylation were examined by Western blot. (*B*) IKKVI overcame TNF and IL-17 inhibition of ALP in mMSCs by inhibiting NF-κB. The results are the average value from three independent experiments and presented as mean ± SD. **P < 0.01. Odi, osteogenic differentiation-inducing media. (*C*) IKKVI attenuated TNF inhibition of Runx2 and Osx by inhibiting NF-κB in mMSCs, as assessed by Real-time RT-PCR. P < 0.01. (*D*) IKKVI attenuated TNF inhibition of BSP induction by inhibiting NF-κB in mMSCs.

www.pnas.org/cgi/doi/10.1073/pnas.1313266110

NEUROSCIENCE

Correction for "Aβ induces astrocytic glutamate release, extrasynaptic NMDA receptor activation, and synaptic loss," by Maria Talantova, Sara Sanz-Blasco, Xiaofei Zhang, Peng Xia, Mohd Waseem Akhtar, Shu-ichi Okamoto, Gustavo Dziewczapolski, Tomohiro Nakamura, Gang Cao, Alexander E. Pratt, Yeon-Joo Kang, Shichun Tu, Elena Molokanova, Scott R. McKercher, Samuel Andrew Hires, Hagit Sason, David G. Stouffer, Matthew W. Buczynski, James P. Solomon, Sarah Michael, Evan T. Powers, Jeffery W. Kelly, Amanda Roberts, Gary Tong, Traci Fang-Newmeyer, James Parker, Emily A. Holland, Dongxian Zhang, Nobuki Nakanishi, H.-S. Vincent Chen, Herman Wolosker, Yuqiang Wang, Loren H. Parsons, Rajesh Ambasudhan, Eliezer Masliah, Stephen F. Heinemann, Juan C. Piña-Crespo, and Stuart A. Lipton, which appeared in issue 27, July 2, 2013, of *Proc Natl Acad Sci USA* (110:E2518–E2527; first published June 17, 2013; 10.1073/pnas.1306832110).

The authors note that their conflict of interest statement was omitted during publication. The authors declare that "S.A.L. is the inventor on world-wide patents for the use of memantine and NitroMemantine for neurodegenerative disorders; Y.W. is also a named inventor on the patents for NitroMemantine. Per Harvard University guidelines, S.A.L. participates in a royalty-sharing agreement with his former institution Boston Children's Hospital/Harvard Medical School, which licensed the drug memantine (Namenda) to Forest Laboratories, Inc."

www.pnas.org/cgi/doi/10.1073/pnas.1313546110

STATISTICS

Correction for "Using distance correlation and SS-ANOVA to assess associations of familial relationships, lifestyle factors, diseases, and mortality," by Jing Kong, Barbara E. K. Klein, Ronald Klein, Kristine E. Lee, and Grace Wahba, which appeared in issue 50, December 11, 2012, of *Proc Natl Acad Sci USA* (109:20352–20357; first published November 21, 2012; 10.1073/pnas.1217269109).

The authors note that: "The phrase 'non-Euclidean pedigree dissimilarity'" on page 20355, right column, first paragraph, line 3, is not correct. As a result of the error, the text from page 20355, right column, line 1 to page 20365, right column, line 7, and Figs 3 and 4 are superfluous and should be omitted.

"The pedigree dissimilarity in the article is in fact Euclidean, a consequence of the fact that the matrix of kinship coefficients $\{\varphi_{ij}\}$ is positive definite, a fact that has been long since known. Thus, there is no reason to invoke the pedigree embedding by regularized kernel estimation (RKE), and the striking similarity between *Upper* and *Lower* of Fig. 3, and also between Figs. 2 and 4, is not surprising. In theory, they should be identical. The very minor differences can be explained by the small amount of regularization applied here in the RKE method. The rest of the paper, including results and discussion, is not affected. We thank Daniel Gianola and Gustavo de los Campos for pointing out the mistake."

www.pnas.org/cgi/doi/10.1073/pnas.1313265110