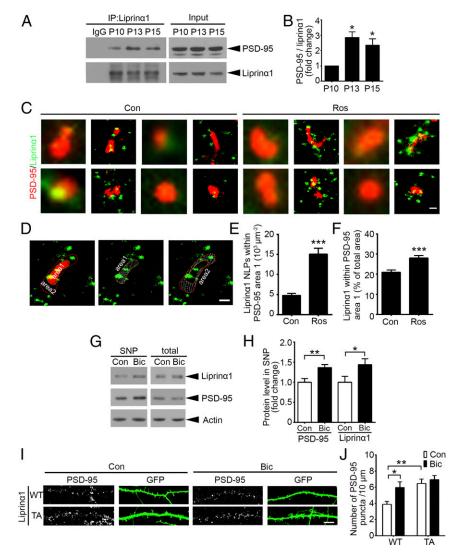
## Correction

## NEUROSCIENCE

PNAS PNAS

Correction for "Cdk5-dependent phosphorylation of liprinα1 mediates neuronal activity-dependent synapse development," by Huiqian Huang, Xiaochen Lin, Zhuoyi Liang, Teng Zhao, Shengwang Du, Michael M. T. Loy, Kwok-On Lai, Amy K. Y. Fu, and Nancy Y. Ip, which was first published July 31, 2017; 10.1073/pnas.1708240114 (*Proc Natl Acad Sci USA* 114:E6992–E7001).

The authors note that Fig. 3 appeared incorrectly. The corrected figure and its legend appear below.



**Fig. 3.** Reduction of liprin $\alpha$ 1 phosphorylation enhances liprin $\alpha$ 1–PSD-95 binding and promotes PSD-95 synaptic localization. (*A* and *B*) Coimmunoprecipitation of liprin $\alpha$ 1 and PSD-95 in mouse brains at P10–P15. (*A*) Representative Western blot. (*B*) Quantification of PSD-95 bound to liprin $\alpha$ 1. PSD-95 normalized to immunoprecipitated liprin $\alpha$ 1. \**P* < 0.05 vs. P10, one-way ANOVA with the Student–Newman–Keuls test; *n* = 3 independent experiments. (*C–F*) Roscovitine (Ros) treatment increased liprin $\alpha$ 1 localization density and percentage within the PSD-95 region. Neurons were treated with DMSO as control (Con) or Ros (25 µM) for 2 h and then stained with liprin $\alpha$ 1 and PSD-95 after fixation. (*C*) Individual synapses showing the distribution of liprin $\alpha$ 1 (green) surrounding PSD-95 (red) in the Con and Ros groups. (Scale bar: 200 nm.) (*D*) Representative images of the defined PSD-95 region (with yellow outline, area 1) and the surrounding region (red outline, area 2); both regions are indicated by dotted slashes. (Scale bar: 200 nm.) (*E* and *F*) Quantification of the localization points (NLPs) of liprin $\alpha$ 1 percentage of liprin $\alpha$ 1 within area 1 vs. the total area (area 1 plus area 2). \*\*\**P* < 0.001, Student's *t* test; *n* = 5 independent experiments. (*I* and *J*) Bic treatment or overexpressing VT or TA liprin $\alpha$ 1 TA mutant alone increased PSD-95 puncta density. (*I*) Representative images of PSD-95 puncta density. (*I*) Representative images of PSD-95 punct adensity. (*I*) Representative Western blot. (*I*) Quantification of protein level change of liprin $\alpha$ 1 and PSD-95 in the synaptosome. \**P* < 0.05; \*\**P* < 0.01, Student's *t* test; *n* = 5 independent experiments. (*I* and *J*) Bic treatment or overexpressing VT or TA liprin $\alpha$ 1 TA mutant alone increased PSD-95 puncta density. (*I*) Representative images of PSD-95 puncta density. \**P* < 0.05; \*\**P* < 0.01 vs. WT Con, one-way ANOVA with the Student–Newman–Keuls test; *n* = 9, 12, 8, and 9 neurons for WT Con, WT Bic, TA Con, and TA Bic condi

Published under the PNAS license.

www.pnas.org/cgi/doi/10.1073/pnas.1717049114