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Corrigendum: Neural mechanism underlies CYLD modulation of morphology and synaptic function of medium spiny neurons in dorsolateral striatum

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KEYWORDS

CYLD, AMPAR, GluA1, GluA2, K63-linked ubiquitination, synaptic transmission, long-term depression, dorsolateral striatum

A corrigendum on

Neural mechanism underlies CYLD modulation of morphology and synaptic function of medium spiny neurons in dorsolateral striatum

by Tan, S.-y., Jiang, J.-x., Huang, H.-x., Mo, X.-p., Feng, J.-r., Chen, Y., Yang, L., and Long, C. (2023). *Front. Mol. Neurosci.* 16:1107355. doi: 10.3389/fnmol.2023.1107355

In the published article, there was an error in the legend for “Figure 1” as published. “(H) Bar graphs showing more stubby spines and varicosity, but fewer mushroom spines and filopodia, in *Cyld*^{-/-} MSNs than in *Cyld*^{+/+} MSNs.” The corrected legend appears below.

“(H) Bar graphs showing more stubby spines and varicosity, but fewer mushroom spines, in *Cyld*^{-/-} MSNs than in *Cyld*^{+/+} MSNs.”

In the published article, there was an error. “P-value error for the main effect of distance in Figure 1E.”

A correction has been made to section 3. Results, “3.1. CYLD affects the morphology and physiological features of MSNs,” [Paragraph 1]. This sentence previously stated:

“main effect of distance, $F_{(3,202,153.3)} = 202.200, p = 0.188$ ”

The corrected sentence appears below:

“main effect of distance, $F_{(3,202,153.3)} = 202.200, p < 0.0001$ ”

In the published article, there was an error. “Misspelling on a word “GluA2”.”

A correction has been made to section 4. Discussion, “The last paragraph.” This sentence previously stated:

“CYLD deficiency causes an increase in K63-linked ubiquitination of GluA1 and GluA2, resulting in reduced GluA1 and GluA1 surface levels and therefore reduced AMPAR-dependent synaptic transmission in MSNs, which is associated with altered DHPG- and HFS-LTD.”

The corrected sentence appears below:

“CYLD deficiency causes an increase in K63-linked ubiquitination of GluA1 and GluA2, resulting in reduced GluA1 and GluA2 surface levels and therefore reduced AMPAR-dependent synaptic transmission in MSNs, which is associated with altered DHPG-and HFS-LTD.”

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

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