



Correction to: Kir6.2 Deficiency Promotes Mesencephalic Neural Precursor Cell Differentiation via Regulating miR-133b/GDNF in a Parkinson's Disease Mouse Model

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Dear Editor-in Chief,

I am the first author of the article titled “Kir6.2 Deficiency Promotes Mesencephalic Neural Precursor Cell Differentiation via Regulating miR-133b/GDNF in a Parkinson's Disease Mouse Model” which published in Molecular Neurobiology.

I am writing this letter on behalf of the corresponding author of this article to correct the mistake we made in Fig. 1 of this article. The errors in the Fig. 1 are “Fig. 1a Kir6.2^{-/-} Saline image was the same as presented in Fig. 1c for Kir6.2^{+/+}” and “Fig. 1a Kir6.2^{+/+} Saline

image was similar to Fig. 1c Kir6.2^{-/-} MPTP/p”. These unintentional mistakes were made because the incorrect picture pasting occurred during the repeated image layout and modification process. Although we made an error in picture editing, this didn't affect the conclusions of our work that deficiency of Kir6.2 restrained the susceptibility of SNc DA neurons to MPTP/p induced neurotoxicity which were presented in Fig. 1. In this work, we have conducted many repeated experiments and obtained many figures. We have checked our original data again and found that we uploaded the wrong figures when editing image files by mistake. We have provided all our raw data to Research Integrity Specialist Dr. Greta Sharpe of Springer Nature Research Integrity Group for validation.

Now we put the corrected picture in the attachment (**Corrected Fig. 1**) for your review. In corrected Fig. 1, the images presented in Kir6.2^{-/-} Saline group of Fig. 1a and Kir6.2^{-/-} MPTP/p group of Fig. 1c were replaced which are marked with red frames. Meanwhile, we provide the full set of raw data of Fig. 1 in the attachment (**Fig. 1 raw data**) for your confirmation. The legend of Fig. 1 is also provided in the attachment (**Fig. 1 legend**) while unchanged.

Although these corrections do not affect the overall conclusion of this article, we take responsibility for the unintentional errors and apologize to the editor, reviewers and readers for any inconvenience that caused by this unintentional misplacement. Sorry again for our mistake and if you have any questions, please do not hesitate to contact us!

Sincerely yours,

Yan Zhou

The original article can be found online at <https://doi.org/10.1007/s12035-018-1005-0>.

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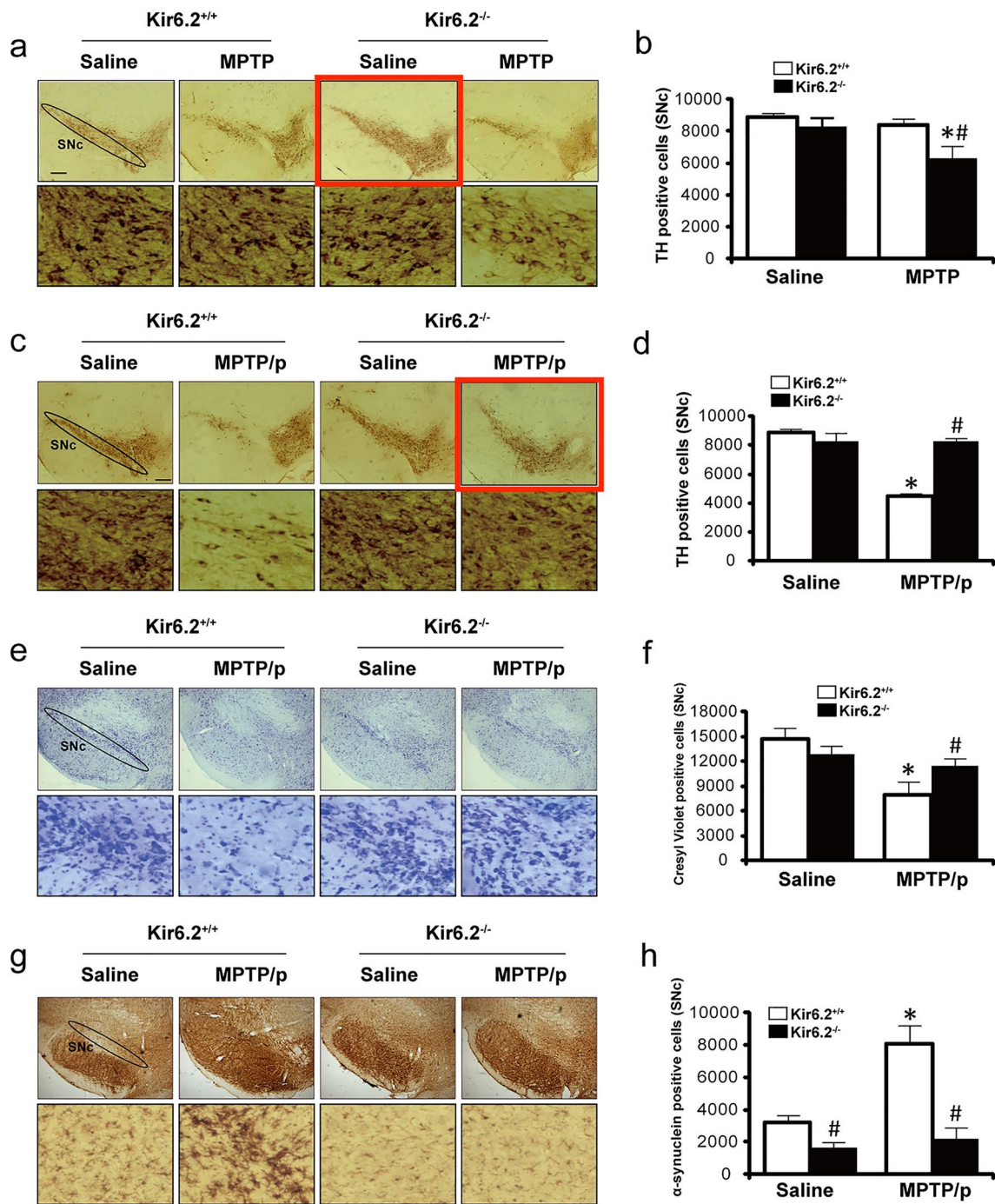


Fig. 1 Rescued the loss of SNc DA neurons and reduced the accumulation of α -synuclein in Kir6.2^{-/-} mice Immunohistochemical staining (a) and quantitative data (b) for TH in the SNc of Kir6.2^{+/+} and Kir6.2^{-/-} mice 3.5 days after a single treatment of saline or MPTP/p are shown. Immunohistochemical staining and quantitative data for TH (c and d), Nissl (e and f) and α -synuclein (g and h)

in the SNc of Kir6.2^{+/+} and Kir6.2^{-/-} mice administrated with either saline or MPTP/p for 5 week are shown. Data are expressed as mean \pm s.e.m. (n=4); two-way ANOVA. *, p<0.05 vs. corresponding saline group; #, p<0.05 vs. corresponding Kir6.2^{+/+} group. Circles indicate the substantia nigra pars compacta (SNc). Scale bars: 200 μ m