Reviewer’s report

Title: Protective and restorative effects of the traditional Chinese medicine Jitai tablet against methamphetamine-induced dopaminergic neurotoxicity

Version: 0 Date: 08 Jun 2017

Reviewer: Sung-Ting Chuang

Reviewer’s report:

This manuscript entitled "Protective and restorative effects of the traditional Chinese medicine Jitai tablet against methamphetamine-induced dopaminergic neurotoxicity" used immunohistochemical staining and autoradiography staining and stereotyped behavior rating scale to investigate the effects of JTT on methamphetamine-induced dopaminergic neurotoxicity in rats. The results showed that pre-treatment with JTT or post-treatment with high dose JTT could attenuate and reverse METH-induced neurotoxicity. Some comments are listed below:

1. The authors indicated that the 0.290kg/g of JTT was converted from clinical dose. Did you test the doses of JTT on 0.029kg/g and 0.290kg/g with pre-treatment? Why you just tested these doses with post-treatment? It would be better to explain in detail in materials and methods section.

2. Although authors provided some staining evidence to support their conclusion, it would be more powerful to investigate what mechanism is involved in this effect of JTT?

3. Please add the scale bar in all photographs and describe the original magnification of photographs in figure legends.

4. Please check the statistical symbol correctly in figure 3a. Authors wrote "post-treatment with JTT attenuated D2R reduction in a dose-dependent manner, with D2R at 95.3% ± 5.1 of the control level for the group post-treated with medium dose of JTT (JTT-M vs. METH, p<0.05)" in result section. According to this statement, the symbol must be shown "*" rather than "#" in the bar chart of JTT-M in figure 3a.

Are the methods appropriate and well described? If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls? If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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