Response to Reviewers

Dear Editors and Reviewers:

Thank you for your letter and for the reviewers' comments concerning our manuscript entitled "Protective effect of liraglutide on the myocardium of type 2 diabetic rats by inhibiting polyadenosine diphosphate-ribose polymerase-1" (ID: 80080). Those comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significance to our research. We have studied comments carefully and have made correction which we hope meet with approval. Revised portions are marked in red in the paper. The main corrections in the paper and the responds to the reviewer's comments are as following:

Reviewer #1

Recommendation: Minor revision

Comments:

I am really grateful to review this manuscript. In my opinion, this manuscript can be published once some revision is done successfully. This study used animal experiment and univariate analysis to examine the effects of liraglutide intervention on type-2 diabetic rats. I would argue that this is a great achievement. However, an increasing amount of literature employs deep learning to investigate the effects of intervention in animal experiment. I would like to suggest the authors to address this issue in Discussion.

Author reply: This is a valuable comment. We have added the description of deep learning in animal experiments in Discussion Section. As follows: "In animal experiments, the current intelligent animal experiment method based on deep learning can obtain the adaptation degree of animals in various environments and the posture and state of animals after intervention according to the adaptability of each experimental area, which is more conducive to the establishment of animal models and the prediction and evaluation of the effects of drug intervention. This technology belongs to the frontier field at present. It is very helpful for the follow-up research of

this experiment. In the future, large-scale in-depth research on animal intervention experiments will be carried out."

Reviewer #2

Recommendation: Minor revision.

Comments:

Dear authors, Thank you very much for the opportunity to read and comment on your manuscript. I have no comments regarding the composition of the manuscript. However, I have some comments that would increase the quality of your work.

1．You are missing Introduction section title. It should be on the new page. I recommend adjusting the manuscript style according to the Baishideng Publishing Group Inc. requirements (e.g., key words, brackets, titles, subtitles, references, etc.). You can check previous review articles published in the World Journal of Diabetes.

Author reply: Thank you for this comment. We have added Introduction section title.

2．Please adjust abbreviations (uppercase and lowercase) once mentioned in the manuscript. e.g. Parp-1 into PARP-1. Also please explain abbreviations when you use them first time in the text (e.g., SPF male SD rats, LSD, TC, TG, LDL-C etc).

Author reply: Thank you for this comment. We have revised inappropriate abbreviations and explained abbreviations when we use them first time in the text.

3．Lalu peptid stands for what? Can you explain?

Author reply: Thank you for this comment. We have revised Lalu peptid into liraglutide.

4．Please explain abbreviations used in the Tables and Figures. I recommend adjusting the manuscript style according to the Baishideng Publishing Group Inc. requirements (e.g., key words, brackets, titles, subtitles, references, etc.). You can check previous review articles published in the World Journal of Diabetes.

Author reply: Thank you for this comment. I have explained.

5． **Can you rephrase sentence to be more understandable "Compared with the that in normal…"**

Author reply: Thank you for this comment. I have rephrased.

6．I suggest to define endpoints (primary, secondary, etc.) of experiment in the Methods section. It is not clear what are endpoints of a trial.

Author reply: Thank you for this comment. I have added endpoints to "Finally, Secondly, Finally" in the Methods section.

7．I suggest to retype Chinese into English description of figures (e.g., pathology results etc.)

Author reply: Thank you for this comment. I have retyped.

8．I suggest to retype "Many studies at home and abroad have shown…." into Many studies have shown…

Author reply: Thank you for this comment. I have retyped.

Response to Editor

- Thank you for editorial office's comments. We have revised all comments according to your suggestion. We have provided decomposable Figures (in which all components are movable and editable), organize them into a single PowerPoint file.

We tried our best to improve the manuscript and made some changes in the manuscript. These changes will not influence the content and framework of the paper. And here we did not list the changes but marked in red in revised paper.

We appreciate for Editors/Reviewers' warm work earnestly, and hope that the correction will meet with approval.

Once again, thank you very much for your comments and suggestions.