**Author's response to reviews**

**Title:** Effects and mechanism of dexmedetomidine on neuronal cell injury induced by hypoxia-ischemia

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**Version:** 2 **Date:** 07 Aug 2017

**Author's response to reviews:**

Dear editors:

Thanks very much for your letter and for the comments concerning our manuscript entitled “Effects and mechanism of dexmedetomidine on neuronal cell hypoxia induced by hypoxia-ischemia” (ID: BANE-D-17-00119R1). All the comments are valuable and constructive for revising and improving our paper. We have studied the comments carefully and revised the manuscript accordingly which we hope meet with approval. We would like to re-submit this revised manuscript, and hope it is acceptable for publication in the journal. Please do not hesitate to contact us with any additional questions or concerns.

The responses to the comments and corrections in the paper were stated point-by-point as follows.

1. Source of cells. Please provide the source of the cells used in this study in Methods section

   Response: Many thanks for the professional and helpful comments. PC12 cells used in the study were purchased from American Type Culture Collection (ATCC, Manassas, VA, USA), which had been supplemented in the Methods Section.

2. Formatting.

   - Abstract

   The abstract should include Background, Methods, Results and Conclusions. Please revise accordingly.
Response: Many thanks for the kind comments. Accordingly, “Aim” in the Abstract Section has been revised as “Background”.

- Main text

Please rename the heading 'Introduction' to 'Background'

Response: Many thanks for the kind comments. Accordingly, “Introduction” in the main text has been revised as “Background”.

3. List of abbreviations. As abbreviations are used throughout the paper, we ask that you include a list of abbreviations (before the declarations section) for reference and ease of reading. All abbreviations should still be defined in the text at first use.

Response: Thank you very much for the professional and serious comments. Accordingly, a list of abbreviations has been supplemented in the manuscript before the declarations section.

4. Consent for publication. For all manuscripts that include details, images, or videos relating to an individual person, written informed consent for the publication of these details must be obtained from that person (or their parent or legal guardian in the case of children under 18).

As your manuscript doesn't contain any details of an individual person, please state "Not applicable" in this section.

Response: Thank you very much for the professional and serious comments. Accordingly,

5. Availability of data and materials. Thank you for providing the statement - 'All of the data and materials are available'. However, please state clearly in which means all of the data and materials will be available.

Please note: Availability of Data and Materials refers to the raw data-set upon which the summary statistics in the manuscript are based.

For your information: Here are some examples of Availability of Data and Materials statements that you may choose to adapt if you wish:

- The datasets generated during and/or analysed during the current study are available in the [NAME] repository, [PERSISTENT WEB LINK TO DATASETS]

- The datasets during and/or analysed during the current study are available from the corresponding author on reasonable request.
• The datasets generated during and/or analysed during the current study are not publicly available due [REASON WHY DATA ARE NOT PUBLIC] but are available from the corresponding author on reasonable request.

• The datasets generated during the current study are not publicly available due [REASON WHY DATA ARE NOT PUBLIC].

Response: Thank you very much for the professional and serious comments. Accordingly,

6. Authors’ contributions. Please represent authors' names using their initials, not their full names in this section.

Response: Thank you very much for the professional and serious comments. Accordingly,

7. Acknowledgements. Please only use this section to acknowledge anyone who contributed towards the article who does not meet the criteria for authorship including anyone who provided professional writing services or materials. Authors should obtain permission to acknowledge from all those mentioned in the Acknowledgements section. If no acknowledgements are necessary then please state 'None'

Response: Thank you very much for the professional and serious comments. Accordingly,

8. Clean copy. Please ensure that when you upload your revised submission that it is in the final form for publication. Please remove any tracked changes or highlighting and include only a single clean copy of the manuscript (and please ignore any automated requests to show tracked changes). Should you wish to respond to these revision requests, please include the information in the designated input box only.

Response: Thank you very much for the professional and serious comments. Accordingly,

We earnestly appreciate for reviewers’ warm work, and hope that the correction will meet with approval.

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

Sincerely,

Dr. Wei-Fu Lei