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RE: Manuscript NO: 20608-manuscript revision

Dear Dr. Ji,

Thank you for your time and consideration in review of this manuscript. On behalf of all authors, I would also like to thank the reviewers for their time in reviewing and critiquing our manuscript "*Arctic ground squirrel neuronal progenitor cells resist oxygen and glucose deprivation-induced death*". We are thankful for an opportunity to revise the manuscript and describe how our revisions address your specific comments below:

1. Several factors influence the effects of oxygen and glucose deprivation on cell viability and death. Some limitations might be occurred. 2. Please add the limitations of the study in the text.

We have highlighted the paragraph in the discussion regarding limitations by starting the paragraph with *Interpretation of a direct comparison with human NPC is limited for several reasons*. We go on to discuss why direct comparison with human NPC is problematic and emphasize that human NPC are included only as a positive control for an ischemia vulnerable species.

3. Please also change the references into the journal style.

References have been modified to match the format of the sample manuscript provided.

4. The clinical application of the study is very important. The authors should to recommend the readers to apply this knowledge into routine clinical practice.

We have elaborated on how this knowledge may apply to routine clinical practice by adding the following text to our last paragraph.

Better understanding of mechanisms sufficient to promote survival and proliferation of AGS NPCs has the potential to unveil mechanisms that will also promote proliferation of human NPCs following brain injury. AGS NPC offer a platform to investigate mechanisms of ischemia tolerance to inform development of novel therapies that target signal transduction pathways that contribute to ischemia tolerance and neurogenesis. Methods to promote neurogenesis after brain injury is expected to complement traditional neuroprotective therapies^{33, 34}.

We have completed a cross-check report and guarantee that the text is original and has not been published elsewhere except as an abstract in preliminary form as McGee et al., 2008 (cited in the manuscript).

Also, while reviewing the figures with the biostatistician we discovered an error in Fig 5C. The figures was not the correct figure. The figure has now been replaced with the correct figure.

A FINAL REMINDER: The following is a list of all required documents that authors have to submit. Please confirm that all these documents are properly prepared before submitting the revision. The documents should be named as manuscript No.-documents category, such as 20608-Revised manuscript. Please use this rule to name all the documents as listed below.

√ 1 20608-Revised manuscript

√ 2 20608-Answering reviewers

√ 3 20608-Copyright assignment

√ 4 20608-Audio core tip

NA 5 20608-Institutional review board statement

NA 6 20608-Institutional animal care and use committee statement

NA 7 20608-Animal care and use statement

√ 8 20608-Biostatistics statement

√9 20608-Conflict-of-interest statement

√10 20608-Data sharing statement

√11 20608-Google Scholar

√12 20608-CrossCheck

NA 13 20608-Language certificate