Response to reviewers' comments

(Manuscript ID: ijms-2566341)

Dear Reviewer,

Thank you very much for your recognition of our research work and we really appreciate your precious time. We have revised the manuscript carefully according to your comments. We listed our responses and revisions as follows. The changes in the revised manuscript have been marked in red color.

Reviewers' Comments:

Reviewer #2:

The review of Hubert Grel and coauthors "Mitochondrial Dynamics in Neurodegenerative Diseases: Unraveling the Role of Fusion and Fission Processes" describes the processes of fusion and fission in mitochondria in the context of neurodegenerative diseases. The authors discuss the complex interactions that underlie the development of neurodegenerative diseases. The aim of the review is to find targeted interventions and therapeutic strategies that will ultimately improve the quality of life of patients with neurodegenerative diseases. The paper is well presented and well written. The review consists of 9 parts. Each part is informative.

There is no doubt that this review should be published in the journal.

There are some comments on submitting the article.

1) Line 84… APOE gene … I think that it is necessary to decipher the abbreviation, or since this term is used once, write it in full as apolipoprotein E.

Response:

Thank you! We have made corresponding adjustments to the article in accordance with your comment:

„Moreover, the apolipoprotein E (APOE) gene is a significant genetic risk factor for sporadic AD, impacting both susceptibility to and progression of the disease [17]."

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2) Lines 263, 355… remove italics [3] and [95].

Response:

Thank you for pointing out the errors. The entire article has been reviewed and corrected for citations.

3) Line 427… Ca2+ replace with Ca2+.

Response:

Thank you! We have made corresponding adjustments to the article in accordance with your comment:

„In addition to these effects, Mdivi-1 has been found to exhibit other neuroprotective properties, such as reducing cytosolic Ca^{2+} concentration and calpain activation [142,143,145]."

Yours sincerely,
Sławomir Jakieła

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