Response to Reviewer 2 Comments

1. Summary

Thank you very much for taking the time to review this manuscript. Please find the detailed responses below and the corrections highlighted in the re-submitted files.

2. Questions for General Evaluation	**Reviewer's Evaluation**
Is the work a significant contribution to the field?	
Is the work well organized and comprehensively described?	
Is the work scientifically sound and not misleading?	
Are there appropriate and adequate references to related and previous work?	
Is the English used correct and readable?	

3. Point-by-point response to Comments and Suggestions for Authors

The review by Saviuk et al assessing the relationship between epilepsy occurrence and glioma as termed Glioma-Associated Epilepsies is a well written review which is highly important to the field of epilepsy and cancer biology.

Comments 1: The flow is of high importance talking about the potential role of mutations should be summarized in a table and adding a summary of the clinical studies evaluated with the references and the kind of glioma studies and their characteristics as well as the epileptic episode studied.

The review would benefit from schematics to summarize the role of the BBB, the pericellular environment, and the glioma-brain localization. this would also be helpful for the readers. The signaling pathways should be summarized in one section and be included in one table including the studies conducted in these areas.

Response 1: Thank you for your feedback. We have added a visual aid in the form of a figure titled "mTOR and HIF-1 molecular pathways in glioma-associated epilepsy" to the section "Molecular changes that trigger epilepsy associated with glioma" to clarify some of the involved molecular pathways. We have extensively elaborated on the section titled "Blood-brain barrier disorders lead to seizures" and included a corresponding figure, highlighting how the disruption of the blood-brain barrier leads to heightened excitability of neurons and ultimately results in convulsions.

Comments 2: The abstract and the introduction discussed the role of anti-tumor medications and how they can inhibit epilepsy, which would be important to expand on

these in the write-up.

Response 2: Thank you for pointing this out. During the preparation of our review, we omitted this section. However, it was inadvertently included in the summary. We have subsequently amended the abstract and conducted a thorough check for any further inconsistencies.

Minor comment: Please define the acronyms when they occur like IDH, it was defined later in the text.

Response: Thank you for figuring this out. We carefully looked at all the abbreviations and wrote down their definition the first time they were found in the text, excluding the abstract.

4. Response to Comments on the Quality of English Language

Point 1: English language fine. No issues detected

Response 1: Thank you for your assessment.