

Review Form 1.7

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| Journal Name: | Asian Journal of Pediatric Research |
| Manuscript Number: | Original Manuscript_AJPR_118003 |
| Title of the Manuscript: | Selective Phosphodiesterase 4D (PDE4D) Allosteric Inhibitors for the treatment of FMR-1 gene defects and other pediatric syndromal disorders associated with cognitive impairment |
| Type of the Article | Review Article |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalajpr.com/index.php/AJPR/editorial-policy>)

PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| <p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <p>The authors must include the following aspects to ensure comprehensive understanding of the article.</p> <ol style="list-style-type: none"> Detailed Explanation of Genetic Mutations: <ul style="list-style-type: none"> The section discussing genetic mutations associated with the syndromes is informative but could benefit from more detailed explanations. Specifically, the impact of missense mutations on protein structure and function should be elaborated on to provide a clearer picture of the molecular mechanisms involved. Application to Paediatric Disorders: <ul style="list-style-type: none"> While the focus on selective allosteric inhibitors for treating childhood brain disorders is intriguing, the article would benefit from a more detailed discussion on the current status of these treatments. Specifically, mentioning any ongoing clinical trials, preliminary results, or challenges faced in the development of these inhibitors would provide a more comprehensive perspective. Incorporation of Recent Research: <ul style="list-style-type: none"> Including more recent studies or data, particularly those published in the last few years, could enhance the article's relevance and provide readers with the latest advancements in the field. Figures and Tables: <ul style="list-style-type: none"> The addition of figures or tables summarizing key information, such as the structural features of the syndromes, specific mutations, or a summary of study | |

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| | <p>results, could greatly enhance the reader's comprehension and retention of the information.</p> <p>5. Role of PDE4D Inhibitors:</p> <ul style="list-style-type: none"> The section discussing the potential role of selective PDE4D allosteric inhibitors is minimal. Expand this section to discuss the mechanisms by which PDE4D inhibitors might affect cognitive and neurological functions in patients with these syndromes. Provide more detailed information on existing research, preclinical studies, or hypotheses. <p>6. Current Research and Future Directions:</p> <p>The article should review current research on PDE4D inhibitors, including any preclinical or clinical trials. Discuss the future research directions necessary to evaluate the efficacy and safety of PDE4D inhibitors in treating these syndromes. Highlight areas where further studies are needed to fully understand the therapeutic potential of PDE4D inhibitors and any challenges that need to be addressed.</p> | |
| Minor REVISION comments | | |
| 1. Is language/English quality of the article suitable for scholarly communications? | | |
| Optional/General comments | | |

PART 2:

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|---------------------------------------|
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