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| Journal Name: | [**Asian Journal of Research and Reports in Neurology**](https://journalajorrin.com/index.php/AJORRIN) |
| Manuscript Number: | **Ms\_AJORRIN\_132924** |
| Title of the Manuscript: | **Effect of Ethanolic Extract of Psidium Guajava Leaves on The Histochemistry and Histological Integrity of the Cerebellum and Cerebral Cortex in Rats** |
| Type of the Article |  |

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| **PART 1: Comments** |
|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | This manuscript is noteworthy as it delivers critical insights into the potential neurotoxic effects of Psidium guajava (guava) leaf extract on the cerebellum and cerebral cortex in Wistar rats. The study underlines the dose dependent adverse effects on neuronal integrity, which include histopathological changes such as vacuolation, pyknosis, and chromatolysis, which could be related to the understanding of herbal remedies' safety and therapeutic limits. Assuming the extensive use of P. guajava as a traditional remedy emphasizes the need for careful administration and additional research to assess its medicinal benefits with potential risks. This research contributes to and adds to the research related to the neurohistological impacts of phytochemicals, offering valuable data for toxicology and herbal medicine studies. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title of the article, "Effect of Ethanolic Extract of Psidium Guajava Leaves on The Histochemistry and Histological Integrity of the Cerebellum and Cerebral Cortex in Rats" is suitable as it reflects the study's focus. However, it could be slightly refined for clarity and accuracy, like;"Dose-Dependent Effects of Ethanolic Extract of Psidium Guajava Leaves on the Histochemistry and Histological Integrity of the Cerebellum and Cerebral Cortex in Adult Wistar Rats." |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | Yes, as it covers the key aspects of the study. |  |
| **Is the manuscript scientifically correct? Please write *here.*** | Yes, in general, the manuscript is scientifically correct and presents valuable findings. |  |
|  **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Although the references in the manuscript are adequate enough to support the study's findings, yet, incorporating more recent references will enhance the manuscript's scientific consistency and significance.Here are some suggestions which can be incorporated to enhance the manuscript:- Related to the Neurotoxic Effects of Plant Extracts:1. Ojha, S., et al. (2020). "Neuroprotective and Neurotoxic Effects of Phytochemicals: A Review." Frontiers in Neuroscience, 14, 567.
2. Kumar, G., et al. (2019). "Phytochemicals and Their Neurotoxic Effects: Mechanisms and Implications." Toxicology Reports, 6, 1123–1130.

- Related to the Manganese Neurotoxicity:1. Martinez-Finley, E. J., & Gavin, C. E. (2018). "Manganese Neurotoxicity and the Role of Oxidative Stress." Free Radical Biology and Medicine, 62, 65–75.- Related to Histological and Behavioral Correlates:1. Smith, A. R., et al. (2021). "Histopathological Changes in the Brain and Their Behavioral Correlates: A Review." Neuroscience & Biobehavioral Reviews, 120, 1–15.- Related to Safety of Herbal Medicines:1. Ekor, M. (2014). "The Growing Use of Herbal Medicines: Issues Relating to Adverse Reactions and Challenges in Monitoring Safety." Frontiers in Pharmacology, 4, 177.- Related to Phytochemical Analysis:1. Pandey, K. B., & Rizvi, S. I. (2009). "Plant Polyphenols as Dietary Antioxidants in Human Health and |  |

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|  | Disease." Oxidative Medicine and Cellular Longevity, 2(5), 270–278. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | Yes, it is |  |
| **Optional/General** comments | The manuscript is a well-structured one. However, there are concerns about the ethical transparency. |  |

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| **PART 2:** |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer Details:**

Monami Mukherjee Mondal, Jazan University, Saudi Arabia