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| Journal Name: | [**Asian Journal of Biochemistry, Genetics and Molecular Biology**](https://journalajbgmb.com/index.php/AJBGMB) |
| Manuscript Number: | **Ms\_AJBGMB\_138573** |
| Title of the Manuscript: | **Chemical Composition, Genotoxic and Cytotoxic Activities of Methanol Fruit Extract of African Spice Tetrapleura tetraptera** |
| Type of the Article | **Original Research 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** (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 important for the scientific community in the following ways: 1. The study will help to identify and characterize the chemical constituents of *Tetrapleura tetraptera*, contributing to the growing database of plant-derived bioactive compounds with potential pharmaceutical, nutraceutical, or agrochemical applications. 2. By assessing the genotoxic and cytotoxic effects of the methanol fruit extract, the study will provide crucial data on the safety profile of the plant, which is widely used in traditional medicine and cuisine. This is essential for risk assessment and safe dosage formulation.  3. The study will also offer scientific evidence supporting or challenging the traditional use of *T. tetraptera* in African medicine. This evidence will in turn help to bridge the gap between traditional knowledge and modern science, fostering biocultural preservation and innovation. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | I want to suggest an alternative title as "Evaluation of the Genotoxicity, Cytotoxicity, and Chemical Constituents of the African Spice Tetrapleura tetraptera" |  |
| 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. | The abstract is comprehensive enough. However, two additional keywords should be added. |  |
| Is the manuscript scientifically, correct? Please write here. | I think the manuscript is scientifically sound and relevant and the results are quite informative. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are sufficient but are not quite recent. More than 50% of the references are older than 2015 (10 years back). I therefore suggest that more recent references should be added. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The article contains negligible grammatical errors. The English quality of the article is to a large extent, suitable for scholarly communications. |  |
| Optional/General comments | Nil |  |

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| **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Victor Zabbey, Nigeria**