

Review Form 3

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| Journal Name:            | South Asian Research Journal of Natural Products  |
| Manuscript Number:       | Ms_SARJNP_130292  |
| Title of the Manuscript: | Karyotype and Phytochemical Analysis of Four Zingiberaceae Species and Their Taxonomic Relevance in Systematic Botany |
| Type of the Article      | Original Research Article   |

PART 1: Comments

|  | Reviewer’s comment   | 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) |
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| 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. | <b>Introduction</b><br><br>1. As a biology student, I would point out that the scientific names of plants should always be written in italics. This is a fundamental principle of botanical nomenclature, ensuring clarity and consistency in scientific communication.  | DONE   |
| Is the title of the article suitable? (If not please suggest an alternative title)   | 2. Please rewrite the title to be concise and attractive.  | DONE   |
| 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.      | <b>Abstract</b><br><br>1. Additionally, I have noticed numerous spelling errors and instances of combined words throughout the text. It is crucial to thoroughly proofread the manuscript to ensure all words are correctly written and separated where necessary.   | TAKEN CARE OF  |
| Is the manuscript scientifically, correct? Please write here.  | <b>Materials and methods</b><br>1. Since the study involves phytochemical analysis of the selected Zingiberaceae family, the authors should provide details on the extraction process, including the solvent used and the specific extraction method employed. This information is crucial for understanding the methodology and ensuring the reproducibility of the results.<br><br>2. The standard protocol for qualitative phytochemical analysis should be clearly described and supported with an appropriate reference.<br><br><b>Materials and methods</b><br>3. Since the study involves phytochemical analysis of the selected Zingiberaceae family, the authors should provide details on the extraction process, including the solvent used and the specific extraction method employed. This information is crucial for understanding the methodology and ensuring the reproducibility of the results.<br><br>4. The standard protocol for qualitative phytochemical analysis should be clearly described and supported with an appropriate reference.<br>5. | DONE   |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.                              |  |  |

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| Is the language/English quality of the article suitable for scholarly communications? |  |  |
| <u>Optional/General</u> comments  | 1. The statement regarding the presence of oleic acid in <i>C. longa</i> , <i>E. cardamomum</i> , and <i>Z. officinale</i> indicating a closer relationship than with <i>E. cardamom</i> needs clarification, as it lacks sufficient evidence. Furthermore, the claim that the presence of terpenes and fatty acids places the four samples in the same family with shared common ancestry is not well-supported and appears baseless. Oleic acid is a common compound found in many plants, not just the selected species, and cannot be used as a definitive marker for taxonomic relationships. The authors should provide stronger evidence or revise these conclusions. | Reference added with more explanations |

PART 2:

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|  | 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? | <u>(If yes, Kindly please write down the ethical issues here in details)</u> | NO  |