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| Journal Name: | [**Journal of Advances in Biology & Biotechnology**](https://journaljabb.com/index.php/JABB) |
| Manuscript Number: | **Ms\_JABB\_133872** |
| Title of the Manuscript: | **Genetic and Phenotypic Diversity of elite Mung bean (Vigna radiata L. Wilczek) Genotypes** |
| 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** *(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.** | * Yes, it is. I learned some things from the manuscript. Well done. * Yes, a manuscript could be important for the scientific community due to following aspects: 1) Genetic diversity, 2) crop improvement, 3) Resilience to climate change. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | * Yes, it's pretty much a standard title. It clearly communicates the study's focus: investigating the lack of high yielding varieties, due to genetic diversity and its importance on the cultivation, production and nutritional security by using genetic variability parameters and PCA analysis. |  |
| **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.** | * Abstract is good but needs lot of refinement like:   + including grammatical errors and typographical errors.   + It will be great if author mentions location of the experiment.   + Keywords are mentioned are a kind of repetitive word (Genetic). Use unique terms. |  |
| **Is the manuscript scientifically, correct? Please write here.** | * Very correct and sound. * Grammatical errors in the first sentence of the Materials and methods section. * Mention the software used for statistical analysis of genetic variability parameters. * Mention about the source of the germplasm. * Mention about the type of sowing method involved or practised. * Codes for the characters mentioned at the bottom of the table is not standard way of presentation (Should not be in table format). * Replace the term ‘Treatments’ with the term Genotypes in ANOVA table, it will be more precise. * Rare typographical errors. |  |
| **Are the references sufficient and recent? If you have**  **suggestions of additional references, please mention them in the review form.** | * The references are recent and very accurate. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | * YES |  |
| **Optional/General** comments | * Paper is good |  |

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|  | **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)* |  |

PART 2

**Reviewer Details:**

**Naderla Umamaheswar, Uttar Banga Krishi Viswavidyalaya, India**