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| Journal Name: | [**Journal of Advances in Biology & Biotechnology**](https://journaljabb.com/index.php/JABB) |
| Manuscript Number: | **Ms\_JABB\_137255** |
| Title of the Manuscript: | **Character association and path coefficient analysis in spanish bunch groundnut (Arachis hypogaea L.)** |
| 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** (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.** | Good research, however it is based on only **one year data** thus can be consider for **short research paper/short communication**. Minimum two year/season data requires for a confirmation result in correlation study. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Correlation and path coefficient analysis in spanish bunch groundnut (*Arachis hypogaea* L.)** |  |
| **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.** | No.Nothing mention about experimental materials and recommendations. The first line not required. It may from second line as follows:An experiment was conducted (include How many genotypes) in Randomized Block Design (RBD) design during 2022-23 in *Kharif* season, for studying the correlation between yield and its contributing traits. Correlation analysis identified traits such as number of primary branches per plant, number of mature pods, 100-pod weight, kernel yield per plant, 100-kernel weight, sound mature kernel, biological yield per plant, harvest index, oil content, and chlorophyll content at 30, 60, and 90 DAS as strong and consistent positive contributors to pod yield per plant, highlighted their importance in selection for yield improvement in Spanish bunch groundnut. Kernel yield per plant, biological yield per plant and harvest index had positive direct effects, along with significantly positive correlations in genotypic path; however, in phenotypic path, all the traits except days to 50% flowering, days to maturity, plant height and shelling percentage had positive direct effects with significantly positive correlations, indicating the importance of selecting these traits for pod yield improvement in Spanish bunch groundnut due to true relationship recognized.…………….Addition of 2-3 lines on the recommendations for utilization of the study analysis in crop improvement or for researcher on this aspect is essential |  |
| **Is the manuscript scientifically, correct? Please write here.** | O.K |  |
| **Are the references sufficient and recent? If you have****suggestions of additional references, please mention them in the review form.** | No.At least 8-10 references from last 5-7 years |  |

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| **Is the language/English quality of the article suitable for scholarly communications?** | Require to improve |  |
| **General comments** | * Data based **on one season**. Thus suitable for short communication.
* **Materials & Method**: Incomplete. No information about materials
	1. Which genotypes taken for this experiment and their source and pedigree?
	2. Description of procedure followed for oil content , chlorophyll content study must mention with proper citation
	3. Proper citation of all the software and methods used (oil content , chlorophyll content, Shelling percentage, )
	4. : either write percentage or use symbol %
* **Result:** The analysis of variance (ANOVA) table missing. Without ANOVA result how the experiment considered as significant
	1. Require to add ANOVA, MEAN, VARIANCE & COVARIANCE data(Table)
	2. Figure require to add: Circular heatmap of correlation matrix (R or by any software )
* **Conclusion:** mention in 3-4 lines how the result is beneficial to *Arachis spp* improvement and useful to scientific community
* **References:** More latest reference require to add. At least 8-10 references from last 5-7 years
* **Abstract:** Addition of 2-3 lines on the recommendations for utilization of the study result in crop improvement or for researcher on this aspect
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| **PART 2:** |
|  | **Reviewer’s comment** | **Author’s Feedback** (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:**

**Tapas Ranjan Das, India**