

Review Form 3

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| Journal Name: | Journal of Advances in Biology & Biotechnology |
| Manuscript Number: | Ms_JABB_129708 |
| Title of the Manuscript: | Genetic variability, correlation and path analysis in bread wheat (<i>Triticum aestivum</i> L.) genotypes for yield and its attributing traits <i>aestivum</i> L. |
| Type of the Article | |

PART 1: Comments

| | Reviewer's comment | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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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. | | |
| Is the title of the article suitable? (If not please suggest an alternative title) | | |
| 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. | | |
| Is the manuscript scientifically, correct? Please write here. | | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | | |

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| <p>Is the language/English quality of the article suitable for scholarly communications?</p> | | |
| <p>Optional/General comments</p> | <p>The study on “Genetic variability, correlation and path analysis in bread wheat” will be an addition in wheat studies, which can better help the Plant Breeders and Agronomists for further exploration of the said crop.</p> <p>Bread wheat (<i>Triticum aestivum</i> L.) is an important crop with highest protein content and calories used worldwide.</p> <p>The said results could be helpful in future for improving quality and quantity with least cost of production.</p> <p>However, Article need through proof reading for concrete improvement in the whole write-up.</p> <p>To safeguard the present Authors can add the below current Review of literature, please.</p> <p>Ali A, Javed M, Ali M, Rahman SU, Kashif M, Khan SU (2024). Genetic variability, heritability, and genetic gain in F3 populations of bread wheat (<i>Triticum aestivum</i> L.) for production traits. <i>SABRAO J. Breed. Genet.</i> 56(2): 505-518. http://doi.org/10.54910/sabrao2024.56.2.5.</p> <p>Anwar MT, Chaki T, Sagor GHM (2024). Genetic and stability analyses for the selection of terminal heat stress- tolerant wheat (<i>Triticum aestivum</i> L.) genotypes in Bangladesh. <i>SABRAO J. Breed. Genet.</i> 56 (1) 1-17. http://doi.org/10.54910/sabrao2024.56.1.1.</p> <p>Sharadhi GP, Avinashe H, Dubey N, Danalakoti K, Ghosh S, Sachan S, Choudhary S (2023). Correlation and path analyses in F4 segregating populations of bread wheat for grain yield and its attributes. <i>SABRAO J. Breed. Genet.</i> 55(5): 1666- 1677. http://doi.org/10.54910/sabrao2023.55.5.19.</p> <p>Ammar A, Ali Z, Saddique MAB, Habib-Ur-Rahman M, Ali I (2023). Genetic analysis and expression profiling of TaHSP90A transcripts confer heat tolerance in wheat. <i>SABRAO J. Breed. Genet.</i> 55(3): 653-670. http://doi.org/10.54910/sabrao2023.55.3.5.</p> <p>Ahmad N, Rehman A, Gulnaz S, Javed A, Sultana R, Ajmal S, Ahsan A, Shamim S, Nadeem M, Shair H, Abdullah M, Ahmad J, Sarwar M (2023). Appraisal of bread wheat germplasm for quality attributes and their relationship with grain yield. <i>SABRAO J. Breed. Genet.</i> 55(2): 388-398. http://doi.org/10.54910/sabrao2023.55.2.11.</p> <p>Qulmamatova DE, Baboev SK, Buronov AK (2022). Genetic variability and inheritance pattern of yield components through diallel analysis in spring wheat. <i>SABRAO J. Breed. Genet.</i> 54(1): 21-29. http://doi.org/10.54910/sabrao2022.54.1.3</p> <p>Abdel-Lateif KS, Hewedy OA (2018). Genetic diversity among Egyptian wheat cultivars using SCoT and ISSR markers. <i>SABRAO J. Breed. Genet.</i> 50(1): 36-45.</p> <p>Al-Tamimi AJT, Al-Janabi AS (2019). Genetic diversity among bread wheat genotypes using RAPD and SSR markers. <i>SABRAO J. Breed. Genet.</i> 51(3): 325-339.</p> <p>Bhat JS, Patil BS, Hariprasanna K, Hossain F, Muthusamy V, Mukri G, Mallikarjuna MG, Zunjare R, Singh SP, Mukesh Sankar S, Singhal T, Venkatesh K, Gupta V, Chakraborti M, Chattopadhyay K, Ghagane SC, Hiremath MB, Choudhary AK (2018). Genetic enhancement of micronutrient content in cereals. <i>SABRAO J. Breed. Genet.</i> 50(3): 373-429.</p> | |

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| | <p>Mishra CN, Tiwari V, Satish-Kumar, Gupta V, Kumar A, Sharma I (2015). Genetic diversity and genotype by trait analysis for agro-morphological and physiological traits of wheat (<i>Triticum aestivum</i> L.). SABRAO J. Breed. Genet. 47(1): 40-48.</p> <p>Pal D, Bhardwaj SC, Sharma D, S. Kumari, Patial M, Vinod, Sharma P (2015). Assessment of genetic diversity and validating rust resistance gene sources using molecular markers in wheat (<i>Triticum aestivum</i> L.). SABRAO J. Breed. Genet. 47(2): 89-98.</p> <p>Singh V, Krishna R, Singh L, Singh S (2012). Analysis of yield traits regarding variability, selection parameters and their implication for genetic improvement in wheat (<i>Triticum aestivum</i> L.). SABRAO Journal of Breeding and Genetics 44(2): 370-381.</p> | |
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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) |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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| Department, University & Country | University of Agriculture, Pakistan |