

Review Form 3

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_122502
Title of the Manuscript:	A review on Integrating Bioinformatics Tools in Modern Plant Breeding
Type of the Article	Review

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PART 1: Review Comments

Compulsory REVISION 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)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This review paper is crucial for the scientific community as it synthesizes a vast array of research on a pivotal topic, providing a comprehensive overview of current knowledge and identifying key areas for future investigation. However, the review could benefit from a more balanced discussion of conflicting viewpoints, which would enhance its utility as a reference for both new and seasoned researchers. Despite this, its contribution to consolidating existing knowledge and highlighting research gaps is highly commendable.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title "Integrating Bioinformatics Tools in Modern Plant Breeding" is generally clear and informative. It suggests that the article discusses how bioinformatics tools are being applied in the field of plant breeding, which is a relevant and timely topic.	
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 should succinctly summarize the key findings and contributions of the paper. Consider revising the abstract to accurately reflect the content of the paper.	
Are subsections and structure of the manuscript appropriate?	Yes	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript is scientifically robust and technically sound as it accurately highlights the crucial role of bioinformatics in modern plant breeding, drawing from well-established research and real-world applications. The integration of bioinformatics tools, such as genomic selection, marker-assisted selection, and phenomics, is thoroughly detailed, demonstrating an understanding of both the biological and computational aspects of plant breeding. Additionally, the manuscript presents relevant examples of how bioinformatics can accelerate breeding programs, improve crop yield, and enhance disease resistance, supported by current studies and methodologies.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The use of up-to-date references and reliable data sources further strengthens the scientific integrity of the work.	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	Yes	
Optional/General comments	Need to add figures and comparison tables to clearly indicate each methods and its features.	

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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