

Review Form 3

Journal Name:	Asian Research Journal of Agriculture
Manuscript Number:	Ms_ARJA_122016
Title of the Manuscript:	Integrating Genomics and Phenomics in Agricultural Breeding: A Comprehensive Review
Type of the Article	Comprehensivereview paper

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PART 1: Review Comments

Compulsory REVISION 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>
<p>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.</p>	<p>This manuscript is of significant importance to the scientific community as it offers a comprehensive overview of the integration of genomics and phenomics in agricultural breeding—a crucial area of research for ensuring global food security and sustainable agriculture. The detailed analysis of advanced techniques like high-throughput phenotyping, genomic selection, and the application of artificial intelligence provides valuable insights into the future of crop improvement strategies. The discussion of challenges such as data standardization, ethical concerns, and resource constraints adds depth, emphasizing the need for innovative solutions in this rapidly evolving field. The manuscript effectively highlights the transformative potential of these technologies, making it a valuable contribution to ongoing research and discussions in agricultural science.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The current title, "Integrating Genomics and Phenomics in Agricultural Breeding: A Comprehensive Review," is quite suitable as it accurately reflects the content of the article.</p>	
<p>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.</p>	<p>The abstract is generally comprehensive, covering the main themes of the paper, including the integration of genomics and phenomics, its implications for crop breeding, and the associated challenges and opportunities. However, there are some areas where the abstract could be enhanced for clarity and completeness: Clarify Key Concepts, Mention of Technologies and Techniques, Discuss Ethical and Data Challenges.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure and subsections of your manuscript appear to be well-organized and appropriate for a comprehensive review on integrating genomics and phenomics in agricultural breeding.</p>	
<p>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.</p>	<p>The manuscript appears to be scientifically robust and technically sound, as it provides a comprehensive review of the integration of genomics and phenomics in agricultural breeding, a critical area for improving crop productivity and sustainability. The manuscript effectively highlights key advancements in genomics, such as CRISPR/Cas9, and in phenomics, such as high-throughput phenotyping, which are well-established and widely recognized in the scientific community for their transformative impact on crop breeding. Additionally, the discussion on challenges, including data standardization, ethical concerns, and resource constraints, reflects a nuanced understanding of the current limitations in the field. The manuscript is well-supported by references to relevant studies, ensuring that the conclusions drawn are based on established research and sound methodologies.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =</p>	<p>The manuscript's references are generally sufficient, incorporating more recent studies and addressing some emerging trends could further enrich the review. This would also ensure that the manuscript provides the most up-to-date insights into the integration of genomics and phenomics in agricultural breeding.</p>	
<p>Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The content of the manuscript is strong, but the language needs refinement for it to be suitable for scholarly communications. I recommend a thorough review focusing on sentence structure, grammar, clarity, and vocabulary to ensure that the manuscript meets the standards expected in academic writing.</p>	
<p>Optional/General comments</p>	<p>Write based on original research with results.</p>	

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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>	

Reviewer Details:

Name:	Gaddam Tarun
Department, University & Country	Guru Kashi University, India