

Review Form 3

Journal Name:	Asian Journal of Advances in Agricultural Research
Manuscript Number:	Ms_AJAAR_130809
Title of the Manuscript:	Root System Architecture and Drought Tolerance in Rice: Exploring Genetic Mechanisms and Genomic Approaches for Enhancing RSA
Type of the Article	Review

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>
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.	This manuscript holds significant importance for the scientific community as it addresses the critical issue of drought tolerance in rice, a staple crop for half of the world's population. By exploring the role of Root System Architecture (RSA) in enhancing drought resilience, the paper offers valuable insights into the morphological, physiological, biochemical, and molecular mechanisms that help rice adapt to water-scarce conditions. It highlights the integration of cutting-edge genomic approaches, such as genome-wide association studies (GWAS) and CRISPR-Cas9, to improve RSA traits, thereby contributing to the development of drought-tolerant rice cultivars.	Thanks
Is the title of the article suitable? (If not please suggest an alternative title)	yes	
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 of the article provides a solid overview of the subject matter, including the significance of rice as a staple crop, the challenges posed by drought, and the role of Root System Architecture (RSA) in enhancing drought tolerance. It also touches on the molecular mechanisms and genomic approaches used to improve RSA. However, to make it more comprehensive like Objective Clarification, Key Findings, Application & Impact.	We revised the abstract to enhance its precision. Since this is a review paper, we focus on compiling and interpreting existing research rather than presenting original data. However, we have gathered information on recent advancements and innovations in this field from newly published articles.
Is the manuscript scientifically, correct? Please write here.	yes	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes sufficient	Thanks
Is the language/English quality of the article suitable for scholarly communications?	Yes	Thanks
Optional/General comments	N/A	

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