

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_122422
Title of the Manuscript:	Inheritance of bacterial leaf blight resistance in rice (<i>Oryza sativa</i> L.) for major genes
Type of the Article	

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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>The manuscript is found to be important as Rice is used as a staple food for more than 3.5 billion people around the world, across many countries, and the present study addresses the pressing issue of bacterial leaf blight (BLB), a severe threat to rice that causes global loss every year. The research studied the genetic inheritance of resistance to BLB through marker-assisted selection. It not only identified the set of three BLB resistant genes and their segregation pattern, but also developed durable, resistant rice cultivars. Such insights can definitely aid in the efficient pyramiding of resistance genes, thereby enhancing global rice production and food security in the changing climatic conditions.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Title could be made more attractive, some suggestions are, "Inheritance and Segregation Pattern of genes Xa21, xa5 and xa13 causing Bacterial Leaf Blight (BLB) resistance in Rice (<i>Oryza sativa</i> L.)"</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>Abstract is well written and comprehensive.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Subsections and structure of the manuscript are correct.</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's is well written but a few scientific and grammatical adjustments are needed for clarity and accuracy,</p> <ol style="list-style-type: none"> 1. The abstract could be started with a more explicit statement, such as, "The present study aims to investigate the genetic inheritance of resistance to bacterial leaf blight (BLB) in rice by analyzing the segregation of major resistance genes viz. xa5, xa13, and Xa21 in two specific crosses." 2. Explain in detail how molecular markers are used in the study and their validation process in early generations. 3. The sentence "true plants were evaluated for segregation analysis" could be rephrased to "segregation analysis was performed on true breeding plants." 4. The sentence " showed 7(Resistant):9(Susceptible) segregation ratio" can be rephrased as " showed a 7:9 segregation ratio (Resistant: Susceptible)." 	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Yes</p>	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Overall Language quality is good.	
Optional/General comments		

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>	

Reviewer Details:

Name:	Debashree Kakati
Department, University & Country	Mangaldai College, India