

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_102362
Title of the Manuscript:	Exploitation of Novel Protocol for R-gene Transfer in Common Bread Wheat (Triticum aestivum L.)
Type of the Article	Review Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

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PART 1: Review Comments

	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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ul style="list-style-type: none"> ○ The review tends to describe the transfer of alien resistant gene (r gene) in wheat and also the techniques involved in it. ○ Diverse approaches both traditional ones, such as backcross, pedigree, and recurrent selection have been discussed, as well as modern ones like mutation breeding, somaclonal variation, and genetic engineering, which address both genetic gain and genetic loss. ○ Wheat is rich in calories, proteins (glutens), vitamins, minerals, and dietary fibers that help in the prevention and treatment of some digestive disorders. ○ Additionally, it may contain a number of healthy antioxidants like phenolic acid (ferulic and vanillic acids), carotenoids, tocopherol, alkylresorcinols and lignans. ○ Yes, the title of the manuscript is suitable and appropriate enough. ○ Yes, the abstract written is comprehensive. ○ Yes, they are appropriate enough addressing various significant aspects. ○ Wheat is affected by several biotic and abiotic stresses and physiological diseases besides being affected by several biotrophic fungi, necrophytic species and nematodes, along with viruses and bacteria. ○ It has been illustrated that many conventional and non-conventional techniques are applied for lessening the disease delinquent in wheat. ○ The future prospects could be illustrated as applying the Mutagenesis and genome editing in combination for the mutation of any of the wheat genome followed by the application of other approaches for revealing the biological function of mutated gene. ○ The access of bioinformatics will suggestively promote wheat functional genomics. Further, the creation of elite wheat varieties, rational design-based molecular breeding might be a promising approach that will encourage future global food security. ○ The references cited are adequate and recent enough. 	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<ul style="list-style-type: none"> ● Abstract, 7th line: such as backcross- insert a preposition. ● Introduction, 1st line: has its place- change the verb form. ● Pg. no.8, 12th line: causes a great number of grain losses- change the verb form and the quantifier. ● The usage of the English language is appropriate and well suitable for scholarly communications. 	

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Optional/General comments	○ Overall, the manuscript has been laconically authored illustrating the significant aspects by reviewing the information about R-gene, their transfer, and coding genes etc.	
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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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