

### Review Form 3

Journal Name:	<a href="#">Microbiology Research Journal International</a>
Manuscript Number:	Ms_MRJI_127741
Title of the Manuscript:	<b>Genetic Engineering in Insect Management: New Frontiers in Pest Control</b>
Type of the Article	<b>Review Article</b>

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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## Review Form 3

### 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>
<b>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.</b>	This manuscript holds significant value for the scientific community as it addresses one of the most pressing challenges in agriculture i.e sustainable and effective pest management. This work is pivotal for advancing both theoretical knowledge and practical applications, making it a valuable resource for researchers. Key reasons for its importance include Innovative Approaches to Pest Control, Environmental Sustainability, Addressing Resistance Issues, and Expanding Research Horizons.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title "Genetic Engineering in Insect Management: New Frontiers in Pest Control" is suitable as it focus on genetic engineering and has relevance to insect management. It suggests that the manuscript not only reviews existing techniques but also ventures into new possibilities, encouraging curiosity and further research.	
<b>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.</b>	The abstract is comprehensive and provides a clear overview of the topic, outlining the significance, current advancements, challenges, and future directions of genetic engineering in pest management but according to me greater emphasis should be on agricultural benefits and condense technical challenges. Start with a strong opening about the significance of pest management challenges in agriculture and public health and conclude with future research priorities and the need for international cooperation.	
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript appears to be scientifically correct, based on the provided information. It accurately describes the role of genetic engineering in pest management and highlights key technologies, such as CRISPR-Cas9, RNA interference (RNAi), and gene drives. The discussion of their applications, benefits, and limitations aligns with current scientific understanding. The scientific content is accurate but could be further strengthened by providing specific quantitative data, such as success rates of field trials or comparative efficacy of these technologies against traditional methods.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	The manuscript provides a strong foundation for discussing the role of genetic engineering in pest management. However, I would suggest that additional references be included to strengthen the arguments and provide more comprehensive support for the claims made. Incorporating recent studies, key reviews, and field trial results could enhance the credibility and depth of the discussion. For example, more citations could be included to back specific advancements in CRISPR-Cas9 applications, RNAi delivery mechanisms, and gene drive technologies. This would ensure the manuscript is well-grounded in the latest scientific literature and serves as a robust resource for readers.	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	Yes, the quality of English for the article is suitable for scholarly communications	

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

### Reviewer Details:

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