

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Microbiology</a>
Manuscript Number:	Ms_JAMB_127744
Title of the Manuscript:	Climate Change and Insect Ecology: Impacts on Pest Populations and Biodiversity
Type of the Article	Review Article

#### **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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#### **Important Policies Regarding Peer Review**

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**Review Form 3**

**PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <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>	The manuscript titled "Climate Change and Insect Ecology: Impacts on Pest Populations and Biodiversity" provides an extensive review of how climate change affects insect populations, focusing on pest species and biodiversity. The importance of this manuscript lies in its comprehensive analysis of the implications for agriculture, ecosystem services and biodiversity conservation. It highlights the challenges of pest management, the decline in pollinators and the role of emerging technologies in mitigation, making it a valuable contribution to the scientific community.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	Yes, the title is suitable as it succinctly captures the core focus of the manuscript. No changes are required.	
<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, but a brief mention of the practical implications of emerging technologies like remote sensing and genomics could enhance its clarity.	
<b>Is the manuscript scientifically, correct? Please write here.</b>	Yes, the manuscript is scientifically robust, with accurate descriptions of ecological and physiological processes. The integration of climate factors and their impacts on insect ecology is well-documented.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	The references are sufficient and include recent works. Adding studies that focus specifically on the role of citizen science in biodiversity monitoring could provide more depth.	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language quality is excellent and suitable for scholarly communication. Minor edits for conciseness and clarity in some sections could further improve readability.	
<b>Optional/General</b> comments	The manuscript effectively bridges knowledge gaps and suggests actionable strategies, such as interdisciplinary approaches and policy integration. It would benefit from a dedicated section on case studies showcasing successful mitigation strategies in pest management and biodiversity conservation.	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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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