

# Review of: "Ameliorating the Impact of Climate Variability on Pesticide Dynamics and Efficacy"

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Potential competing interests: No potential competing interests to declare.

## 1. Recommendation

Minor Revision

## 2. Comments to Author

Ms. Ref. No.: Qeios ID: IK3NC2

Title: **Ameliorating the Impact of Climate Variability on Pesticide Dynamics and Efficacy**

### Overview and general recommendation

the intricate relationship between climate change and the effectiveness of pesticides in agricultural practices is anew and an important point today. Climate change has emerged as one of the most significant global challenges, disrupting weather patterns and altering ecosystems. The review addresses the importance of developing adaptive agricultural practices and integrating climate-resilient pest management strategies.

The review paper has a good sound to the reader, and I found the paper to be overall written in very good manner, and some points of it needs to be clarified. The descriptions of some very important points were inadequate. Therefore, I recommend that a minor revision be warranted. I explain my concerns in more detail below. I ask that the authors specifically address each of my comments in their response to be able to recommend this paper for publication as it stands.

### 2.1. Major comments:

1. In this part, the important points were inadequate. It would be preferable to clarify the world's greenhouse gas emissions come from deforestation.
2. Understanding these interactions between climate change and pesticide efficacy is not clear.
3. It prefers to explain and gives more examples related to how climate change can influence pesticide efficacy? in order to employ appropriate mitigation strategies to overcome these effects.
4. what the effect of climate change on pesticides toxicity and environmental fate? This point not clear in the review.

5. Authors could be explaining the application Rate and the appropriate application method is crucial for achieving effective pest control.
6. it prefers to begin with 2.1. The Impact of Climate Change on The Ecosystem.
7. How Climate change can influence the rate at which pesticides degrade? Explain it.
- 8.Highlight this point in a good manner “4.1.1. Integrated Pest Management (IPM) Practices.
9. How climate change can alter pest populations, their behavior, and geographical distribution? Clarify.
10. what about the further study that is necessary to complete the picture?
11. Ensure that the references are according to journal reference style.