

Review of: "Residual characteristics and safety assessment of the insecticides spiromesifen and chromafenozide in lettuce and perilla"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

This is a clear study that determine the residual characteristics and safety assessment of two insecticides in lettuce and perilla. It analyzed the dissipation pattern and half-lives of spiromesifen and chromafenozide in these tow minor crops. Due to adequate economic return of pesticides in minor crops, few studies were conducted to evaluate the potential health risk of existing or unregistered pesticides. Therefore, this study provides a scientific basis for assessing the residual characteristics and safety of pesticide residues in leaf vegetables.

There are a number of concerns with this study which include the following:

- 1. Matrix effect was very important information for pesticide, but this study failed to design this part of experiment.
- 2. Storage stability of spiromesifen and chromafenozide in lettuce and perilla were not presented in the study. In other words, how do the authors verify that the levels of active ingredients of the pesticides applied have not changed. If this cannot be assured, the validity of the final residue test data is questionable.
- 3. The safety assessment was calculated according to average adult body weight, which should be carried out for different populations, such as infant, youth or the old. Thus, the sensitive population will be identified.

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