

# Review of: "Synthesis of 1, 2-Disubstituted Benzimidazoles at Ambient Temperature Catalyzed by 1-Methylimidazolium Tetrafluoroborate ([Hmim] BF<sub>4</sub>) and Investigating Their Anti-ovarian Cancer Properties Through Molecular Docking Studies and Calculations"

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Potential competing interests: No potential competing interests to declare.

Title of the manuscript: Synthesis of 1, 2-Disubstituted Benzimidazoles at Ambient Temperature Catalyzed by 1-Methylimidazolium Tetrafluoroborate ([Hmim] BF<sub>4</sub>) and Investigating Their Anti-Ovarian Cancer Properties Through Molecular Docking Studies and Calculations

## Comments

**Abstract:** The abstract is quite meaningful. i) But at the beginning, in the sentence "An environmentally benign method for the synthesis of...." the word "benign" can be replaced with a better word. The research work is related to cancer, and somehow the word "benign" is not a suitable word, in my opinion, while describing any synthetic method. ii) In the sentence "All the synthesized compounds bind to an agonist at the active site of the.." it is misleading to the readers. It can be simply mentioned that all the compounds bind well at the active site.

## Introduction section:

Introduction can be replaced with the latest literature available on the title compounds. The information given in the introduction section is very primitive related to heterocyclics, cancer, and synthetic procedures. As per my suggestion, at least one paragraph needs to be provided giving recent work on benzimidazoles.

**Methodology:** In schemes 3a-I and 4a-I, there is no clarity about the final compounds. Are 4a-I impurities? Mention this clearly in the experimental procedure.

## Results and discussion:

Lipinski's rule is mistakenly written as Lee Pinsky's rules in the sentence "The results according to Lee Pinsky's rules (rules of medication) are given below." Authors are suggested to follow good articles to write the manuscript to avoid rejection.

## Conclusion

As per my suggestion, it needs to be rewritten by correcting the grammatical mistakes. Authors have mentioned that “the method suffers form ..... Several advantages.” Correct usage of vocabulary is suggested.