



Review Report

Final Title: Anticancer Activity of *Allium cepa* through the Inactivation of NF-κB Pathway: A Literature-based Study

Submission Title: Anticancer activity of *Allium cepa* through the inactivation of NF-KB pathway: a mini review

Submission Date: March 3, 2025

Initial Editorial Assessment: March 3, 2025

Sent for Review: March 3, 2025

Review Completed: April 2, 2025

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Round 1

Reviewer 1 Name: Anonymous Conflict of Interest: None Date of Reviewer's Comments: March 12, 2025 Date of Author Response: April 1, 2025	
Reviewer 1 Comments	Author Response
Reviewer Recommendation: Revision required Overview: The manuscript provides a concise and well-organized summary of the anticancer potential of <i>Allium cepa</i> through the inactivation of NF-κB pathway. The structured approach makes it informative and valuable to readers. While the manuscript aligns well with the journal's scope, some revisions are necessary before acceptance.	Thank you for your feedback. We have revised the manuscript according to your comments.
The introduction should clearly define the aim of the study to provide better context for the research	Thank you for your feedback. We have clarified it.
The notation NF-κB should be consistently formatted throughout the manuscript.	Thank you. Done.
The discussion should further elaborate on the results and address future research perspectives to strengthen the manuscript's impact.	Thank you for your feedback. We have revised it.
It is recommended that Table 1 be organized alphabetically based on cancer type for better readability.	Thank you for your feedback. We have organized it.
The manuscript mentions two <i>in vivo</i> studies, but the route of administration is not specified. This information should be included.	Thank you. Done.
Several errors are present in the reference section. The references should be revised to comply with the journal's formatting guidelines.	Thank you for your feedback. We have fixed it.
The manuscript contains multiple grammatical errors. A thorough revision of the language is required to improve clarity and readability.	Thank you for your feedback. We have fixed it.
These revisions will enhance the quality of the manuscript and improve its suitability for publication.	Thank you for your feedback.
Reviewer 2 Name: Md Shimul Bhuiya ORCID: 0000-0002-6179-9720 Conflict of Interest: None Date of Reviewer's Comments: March 18, 2025 Date of Author Response: April 1, 2025	
Reviewer 2 Comments	Author Response
Reviewer Recommendation: Revision Required Overview: The study entitled "Anticancer activity of <i>Allium cepa</i> through the inactivation of NF-KB pathway: a mini review" demonstrating the anticancer potential of <i>Allium cepa</i> . There are remarkable significance of the <i>Allium cepa</i> 's therapeutic impact in the health science area.	Thank you for your feedback.
According to the journal study area- the author should add a separate section of phytochemicals in the Results and Discussion Section providing the heading-	Thank you for your feedback. We have added it.
-Primary Phytochemicals	
Another section should be	Thank you. Done.
-Anticancer Mechanism through NF-κB	

A short paragraph on the clinical aspect also should be added before the conclusion section	Thank you for your feedback. We have added it.
The author mismatches the "K" and " κ". Please correct and use κ	Thank you. Done.
Rewrite the abstract and incorporate the key findings	Thank you for your feedback. We have revised it.
Provide the objective of this study in the introduction section	Thank you for your feedback. We have added it.
Table 1, in the column of sources- what is the meaning of a natural antioxidant? You provided sources of <i>Allium cepa</i> , but also provided another plant name. Could you please explain or correct it?	Thank you for your feedback. We have corrected it.
Table 1 and manuscript what do you mean zero concentration? Does zero concentration have anticancer activity?	Thank you for your feedback. We have removed the zero concentration from the table as zero concentration does not show anticancer activity.
Editor (Editor in Chief) Name: Muhammad Torequul Islam ORCID: 0000-0001-6392-3820 Conflict of Interest: None Date of Reviewer's Comments: March 18, 2025 Date of Author Response: April 1, 2025	
Editor's Comments	Author Response
Provide the orcid ID of all authors	Thank you. We have added it.
Provide the short biography of the first author and corresponding authors	Thank you. We have added it.
Also, declare a conflict of interest (COI)	Thank you for your feedback. We have fixed it.

Round 2

Reviewer 1 Name: Anonymous Conflict of Interest: None Date of Reviewer's Comments: April 2, 2025 Date of Author Response: Not required	
Reviewer 1 Comments	Author Response
Reviewer Recommendation: Accept Submission	-
Reviewer 2 Name: Md Shimul Bhuiya ORCID: 0000-0002-6179-9720 Conflict of Interest: None Date of Reviewer's Comments: April 2, 2025 Date of Author Response: Not required	
Reviewer 2 Comments	Author Response
Reviewer Recommendation: Accept Submission	-