

**REVIEW FORUM** Corresponding Author 🔗 Need Help? Contact us

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**Green seaweeds fatty acids and heterocyclic derivatives against cancer: Opinion on future nutraceutical application**

Nurmeilita Taher, Feny Mentang, Roike Iwan Montolalu, William Ben Gunawan, Nurpudji Astuti Taslim, Nelly Mayulu and Fahrul Nurkolis\*

**Opinion, Front. Oncol. – Molecular and Cellular Oncology**

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Manuscript ID: 1145919

Research Topic: [Lipids, Lipid Oxidation, and Cancer: From Biology to Therapeutics](#)

Keywords: Green seaweed, fatty acid, Heterocyclic derivatives, Cancer, nutraceutical, functional food

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- History
- Editor Active
- Reviewer 1** Finalized
- A|R|A

**Reviewer 1**  
Independent review report submitted: 30 Jan 2023

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**Independent review report submitted:** 30 Jan 2023

**Initial recommendation to the Editor:** Minor revision is required

**EVALUATION**

**Q 1** Please list your revision requests for the authors and provide your detailed comments, including highlighting limitations and strengths of the opinion. If you have additional comments based on Q2 and Q3 you can add them as well.

**Reviewer 1** | 30 Jan 2023 | 10:07

#1

In the present opinion article Taher and colleagues argued about the role of green seaweeds fatty acids in cancer. They aimed at shedding light on the contribution of seaweed-based nutraceutical as promising tools for anti-cancer strategies, looking at possible implications of fatty acid-heterocyclic hybrids, too.

Although the topic is of interest, some issues need to be addressed before considering the manuscript suitable for publication.

**MAJOR ISSUES**

Paragraph 2: Due to the word limitation, in my opinion the paragraph 2 should be revised highlighting the anti-cancer evidence of green seaweeds rather than generally focusing on the algae. It should be named Green seaweeds and cancer

Paragraph 3: the authors should address the anti-cancer potential of marine  $\Omega 3$  fatty acids also.

Paragraph 4: this section must be improved. It would be of interest if the authors could provide more details about the contribution of green seaweeds fatty acid-heterocyclic hybrid in nutraceutical area. Innovation in strategies must emerge from the conclusion

**MINOR ISSUES**

Line 28: I suggest to update with a more recent statistic

**Q 2** Check List

**Q 2** Check List


**Reviewer 1** | 30 Jan 2023 | 10:07 #1

- a. Is the quality of the figures and tables satisfactory?  
- Yes
- b. Does the reference list cover the relevant literature adequately and in an unbiased manner?  
No answer given.
- c. Does this manuscript refer only to published data? (unpublished or original data is not allowed for this article type)  
No answer given.
- d. Is the opinion supported by evidence?  
No answer given.

**QUALITY ASSESSMENT**

<b>Q 3</b> Rigor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q 4</b> Quality of the writing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q 5</b> Overall quality of the content	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q 6</b> Interest to a general audience	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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History Editor Active Reviewer 1 Finalized A|R=A

**Handling Editor:** Marc Poirot  
**Received date:** 16 Jan 2023  
**Editorial assignment start date:** 17 Jan 2023  
**Independent review start date:** 26 Jan 2023  
**Review finalized date:** 30 Jan 2023  
**Final validation date:** 31 Jan 2023

Revision request

 **Editorial Office:** Frontiers in Oncology Editorial Office | 30 Jan 2023 | 10:07 #1

Dear Author(s),

Please consider any outstanding revision requests from all reviewers, including the reviewers who recommended rejection (if any).

You can respond to the comments in this thread and resubmit the revised manuscript. We encourage you to submit your revised manuscript with tracked changes to facilitate the review.

Thank you for your time and consideration,  
The Editorial Office

January 31, 2023

Ref No/Manuscript ID: 1145919

Title: Green seaweeds fatty acids and heterocyclic derivatives against cancer: Opinion on future nutraceutical application

**Dear Prof. Marc Poirot and Reviewer,  
Frontiers in Oncology,**

Dear Prof. Marc Poirot and Reviewer, thank you very much for taking the time to handling and review on our manuscript.

We greatly appreciate your careful assessment and insightful comments on our manuscript, as well as your recognition of the importance of our study. We have revised extensively and thoroughly, the manuscript with highlights re-submitted. We believe that the manuscript in the revised version is substantially and technically improved as well. Please find below a point-by-point response to the reviewer comments and clarify the important points of your main concerns.

Responses to reviewer comments and suggestions:

In the present opinion article Taher and colleagues argued about the role of green seaweeds fatty acids in cancer. They aimed at shedding light on the contribution of seaweed-based nutraceutical as promising tools for anti-cancer strategies, looking at possible implications of fatty acid-heterocyclic hybrids, too.

Although the topic is of interest, some issues need to be addressed before considering the manuscript suitable for publication.

**# Thank you for allocating your time to review our manuscript. We fully consider your input to further improve the quality of this manuscript.**

MAJOR ISSUES

Paragraph 2: Due to the word limitation, in my opinion the paragraph 2 should be revised highlighting the anti-cancer evidence of green seaweeds rather than generally focusing on the algae. It should be named Green seaweeds and cancer.

**#We have revised and clarify this part by adding the following details:**

**"Green seaweeds are a member of algae which is also known as Chlorophyta. They are less common than brown and red algae and exhibit greenish-yellow to dark green coloration"**

**Because basically, Green seaweeds are a member of algae.**

**Next, we have changed the subtitle in point 2 to "2 Green seaweeds and anticancer properties". Thank**

**MAJOR ISSUES**

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**Because basically, Green seaweeds are a member of algae.**

**Next, we have changed the subtitle in point 2 to "2 Green seaweeds and anticancer properties". Thank you, we appreciate your inputs.**

Paragraph 3: the authors should address the anti-cancer potential of marine  $\Omega 3$  fatty acids also.

**#Thank you for your input. We have discussed the anticancer potential of marine  $\Omega 3$  fatty acids using term n-3 PUFAs. But to make it clearer, we have added "Through selective cytotoxicity, Omega-3 polyunsaturated fatty acids (n-3 PUFAs;  $\Omega 3$  fatty acids) can cause cancer cells to undergo apoptosis"**

Paragraph 4: this section must be improved. It would be of interest if the authors could provide more details about the contribution of green seaweeds fatty acid-heterocyclic hybrid in nutraceutical area. Innovation in strategies must emerge from the conclusion

**# Thank you for your great suggestions. We have revised this part accordingly.**

**MINOR ISSUES**

Line 28: I suggest to update with a more recent statistic

**# Thank you, we have revised this part accordingly. We appreciate your input.**

We believe these actions address the deficiencies and comments noted by the reviewer. We hope that you will be pleased with this revision and that the revised manuscript will better meet the requirements of the 'Frontiers in Oncology' for publication. If any changes need to be made, don't hesitate to contact us again.

Your kind help in this submission is highly appreciated!

Your decision is much appreciated!

Kind Regards,

**Dr. Nurmeilita Taher**