26th of May 2023

Dear Editor,

Rebuttal Letter for Publication in PeerJ

We thank the reviewers for their generous comments on the manuscript and have edited the manuscript to address their concerns.

In particular all of the code we wrote is available. We believe that the manuscript is now suitable for publication in PeerJ.

Thank you.

Yours Sincerely,

Prof. Dr. Yunus Shukor
Dept. of Biochemistry
Faculty of Biotechnology and Biomolecular Sciences
University Putra Malaysia
43400 UPM Serdang
Selangor, Malaysia.
603-9769 6722 (home)
603-8943 0913 (fax)
mohdyunus@upm.edu.my / yunus.upm@gmail.com

On behalf of all authors

All the below issues on the manuscript were addressed

Message from editor: As discussed, please address the technical issues in the manuscript. This is otherwise fine to be published.

[# PeerJ Staff Note - Please address the following:

Author Names
The author list on your manuscript Author Cover Page, does not match the list you entered online. We only use the information in the metadata provided in the submission system. To make them match, either A) [**Upload**](https://peerj.com/manuscripts/82262/files) a manuscript with a corrected Author Cover Page or B) [**Edit your online author list**](https://peerj.com/manuscripts/82262/authors).

Addressed

Authorship
Noor Azlina Masdor still needs to confirm their co-authorship using the email they received from PeerJ. Please ask them to check their spam folders.

If they did not receive the confirmation email or if you entered the wrong email address for them: [**Edit their information and 'resend' the email to them**](https://peerj.com/manuscripts/82262/authors).

NOTE: **Please ask your co-authors to confirm as soon as possible.** If your submission is accepted for publication and they have not confirmed authorship, we will not be able to move forward with publication.

All authors received emails and confirmed their authorship

Figure Permissions
Could you confirm that your Primary and Supplemental Figures A) were not created by a non-author and B) are not copyrighted? (We note you have cited other sources for Figures 1-11 images.)

Please leave a [**note in the Confidential Information for PeerJ Staff**](https://peerj.com/manuscripts/82262/declarations/#other).
- If it was A) created by a non-author OR if B) it is taken from copyrighted material, we need a copy of the written permission specifically allowing us to publish under our CC BY 4.0 license for our records. Please ask the non-author creator / copyright holder to complete our photo/video permission form found [**here**](https://peerj.com/about/author-instructions/#figure-referencing).
- Please upload the completed and signed permission form as a Supplemental File here: https://peerj.com/manuscripts/82262/files/.
- Note: Do not include this in your rebuttal letter to the Editor and reviewers.

Permissions were gotten and updated on submission

Rebuttal Letter
Thank you for providing a rebuttal letter. We note you have uploaded two files related to your rebuttal. Please combine these two files into one file and reupload the rebuttal letter in the Revision Response Files section at the next revision.

This will allow you to also upload a tracked changes manuscript at that time.

Rebuttal updated and uploaded

Tracked Changes Manuscript Source File
We note you have not provided a tracked changes manuscript. We have uploaded a computer generated tracked changes document for you.

Please could you upload the manuscript with computer-generated tracked changes to the [**Revision Response Files**](https://peerj.com/manuscripts/82262/files) section. The reviewers and Academic Editor will want to see all of the changes documented and will normally request it if some changes appear to be missing. Please use the Compare Function in Microsoft Word to track all changes made to the manuscript since the last submission.

Tracked changes uploaded

Acknowledgements
Please remove all financial and grant disclosure information from the Acknowledgements. This information is required to appear only in the Funding Statement for publication:

We acknowledge Petroleum Technology Fund, PTDF Nigeria for providing overseas scholarship for Bilal Ibrahim Dan-Iya.

This information should only be provided in the Funding statement [**here**](https://peerj.com/manuscripts/82262/declarations/#question_18).

Deleted and resolved

Figures
- Please upload your figures in EPS, PNG, or PDF (vector PDFs only). Please provide one file per figure (figures with multiple parts should be combined into one file and labeled "A", "B" etc.).

- Please combine each figure with multiple parts into single, labeled, figure files. Ex: Figs 1A and 1B should be one figure grouping the parts either next to each other or one on top of the other and only labeled "A" and "B" on the respective figure parts. Each figure with multiple parts should have alphabetical (e.g. A, B, C) labels on each part and all parts of each single figure should be submitted together in one file. The file name should be formatted as "Figure 1.png".

In this case, please combine Figure_5(i) and Figure_5(ii) in one file at the next revision.

Please provide a replacement figure measuring minimum 900 pixels and maximum 3000 pixels on all sides, saved as PNG, EPS, or PDF (vector images only) file format without excess white space around the images.

Remove Figure Legends from Figure Files
At the next revision, please remove all figure numbers, titles, and legends from the figure files. This information should not be contained in the figure file.

Please provide replacement figures measuring minimum 900 pixels and maximum 3000 pixels on all sides, saved as PNG, EPS or vector PDF file format without excess white space around the images.

Addressed

Figure Accessibility
At the next revision, please adjust the red/green colors used on your figures to make them accessible to those with color blindness OR add labels so the figures aren't solely dependent on color to differentiate between the elements. Please review our [**color blindness guidelines for figures**](https://peerj.com/about/author-instructions/#figure-style). Note: Please do **not** replace the red/green colors with patterns in your figures.

Please provide replacement figures measuring minimum 900 pixels and maximum 3000 pixels on all sides, saved as PNG, EPS or vector PDF file format without excess white space around the images.

All figures issues raised were addressed as seen indicated in the tracked changes of the manuscript uploaded

Figure/Table Citation
The submission appears to be missing a citation for Table 2, Figure 3, and Figure 7 in the text.

Please can you add a citation for Table 2, Figure 3, and Figure 7 in your manuscript at the next revision.

Note: Citations must be organized, and cited for the first time, in ascending numerical order, meaning Figure 1 must always be cited first, Figure 2 must always be cited second, and so on. The same applies to Tables.

All figures and tables issues raised were addressed as seen indicated in the tracked changes of the manuscript uploaded

Figure/Table Citation
Citations must be organized, and cited for the first time, in ascending numerical order, meaning Figure 1 must always be cited first, Figure 2 must always be cited second, and so on. The same applies to Tables.

In this case:

The citation for Figure 2 (Line 116) appears before the citation for Figure 1 (Line 143).

The citation for Figure 6 (Line 310) appears before the citation for Figure 4 (Line 310).

The citation for Figure 6(Line 310) appears before the citation for Figure 5 (Line 330).

Please edit the citations in your manuscript at the next revision.#]

All figures and tables issues raised were addressed as seen indicated in the tracked changes of the manuscript uploaded