Review of: "Investigation and Synthesis of Benzothiazole-Derived Schiff Base Ligand Against Mycobacterium tuberculosis"

Tejeswara Rao Allaka[1]

1 Jawaharlal Nehru Technological University, Hyderabad, Hyderabad, India

Potential competing interests: No potential competing interests to declare.

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To

Dear Editorial board,

PLOS ONE

Sub: Comments to author – Minor Revision

Ref. No: PONE-D-24-52011

Title: Biological and Computational Investigation of Triazole Tethered Coumarin-Benzofuran

Conjugates as Anti-Breast Cancer Agents

Thank you for giving me this opportunity to complete a review of this paper. Overall, the synthesis of analogues is straightforward, and the manuscript provides good information on the biological evaluation and docking processes of the Triazole analogues. However, the manuscript is tough in its current form and requires substantial revisions. The following aspects must be addressed before the manuscript can be considered for publication after minor revision. I highly recommend that this work be **accepted** or published in PLOS ONE.

Reviewers have now commented on your paper. You will see that they are advising that you perform a major revision of your manuscript. If you decide to revise the work, please submit a list of changes or a rebuttal against each point that is being raised when you submit to the other suitable journal.

My reviewers' comments are appended below.

1. Although the Triazole Tethered Coumarin-Benzofuran Conjugates prepared in this study are novel, the authors should have at least attempted a spectral characterization study. If a characterization study (1H/13C NMR) is included, then this paper would still be good for study.
2. The authors mention that Scheme 1 needs an analysis of the NMR and mass of at least one of the most active

synthesised compounds (include section 2.1). The authors have not included the spectroscopic images in the supporting information.

3. The authors studied well-organized hybrid composites with controlled structure and composition in the manuscript, which might have wide applications in various fields. I would like to suggest that the authors cite the following articles in the introduction related to the 1,2,4-triazole studies on similar composites to enhance the literature:

https://doi.org/10.1002/cbdv.202401810; https://doi.org/10.1002/slct.202304020;

https://doi.org/10.1134/S1070363223040242.

4. Graphical abstract missing

Thank you,

Regards,

Dr. Tejeswara Rao Allaka

Research Scientist, JNTUH University,

Hyderabad, India