

Review of: "Synthesis and Antibacterial Screening of Cefradine Schiff Bases and Their Metal Salts"

Ahmet Kilic¹

¹ Harran University

Potential competing interests: No potential competing interests to declare.

Evaluation of proposal entitled **"Synthesis and Antibacterial Screening of Cefradine Schiff Bases and Their Metal Salts"** submitted by Ali and co-workers. The proposal submitted by Ali et al. describes the study on the synthesis and antibacterial screening of cefradine Schiff Bases and their metal salts. This article presents a series of Schiff base-based derivatives, their characterization with anti-bacterial screening. The manuscript is suitable for the Qeios. But, some revisions are needed in the present form. The required corrections are listed below.

1. In order to better understand the fluency and importance of the article, quantitative information should be given in the abstract. Especially regarding the antimicrobial and antioxidant results.
2. Throughout the article, "FT-IR and mL" should be written instead of "IR and ml". For many corrections like this, the article should be revised from the beginning. The bacterial name "S. aureus" have been changed as "S. Aureus" The entire section should be re-checked.
3. The introduction part seems like routine theoretical information. It would be appropriate to highlight the originality of this work a little more.
4. What is the contribution of this work to the literature comparing with previous publication? This point should be discussed more clearly.
5. It is not clear what the mechanism of action is in anti-bacterial screening. This issue should be discussed.
6. Although there are many similar compounds in this study, what is the reason for choosing cefradine Schiff Bases and their metal salts?
7. Spectroscopic techniques used for characterization should be enriched if possible and if the device is available.
8. Anti-bacterial screening of synthesized compounds should be given as percentage, mean and standard error of the mean.