

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

Jian Wu¹

¹ Guizhou University

Potential competing interests: No potential competing interests to declare.

Utilizing cefradine as the lead compound, a series of cefradine metal salt derivatives with Schiff bases were synthesized and the antibacterial activity of these compounds was examined. Nevertheless, this study has some primary issues

- 1.The manuscript format is very messy, and the author should actively handle it. The text format should be aligned at both ends. Many parts of the text are missing spaces, such as Wajid Rehman 1, Muhammad Shahid2, Shumaila Shumaila 1, Hifza Khan3, etc. There are also many similar errors in the manuscript, please make sure to correct them.
- 2.It is necessary to introduce the harm caused by related bacterial diseases in the introduction section.
- 3.The nuclear magnetic resonance spectrum data of compound 3 is missing, please supplement.
- 4.Did the author not use nuclear magnetic resonance carbon spectroscopy to identify the structure of the compound? I think it is very helpful for structural identification.
- 5.The results of nuclear magnetic resonance spectroscopy and infrared spectroscopy should be placed in the Results and Discussion section, rather than the Experimental section.
- 6.In the antibacterial activity testing method, the author did not specify the repeatability of the experiment, and generally requires three parallel experiments to obtain the average value.
- 7.All tables do not have descriptive footnotes, so I am not sure what "-" in Table 4 represents?
- 8.“Compounds 18, 5, 11 and 27 show good activity against *S. aureus* while compounds 5, 26, 27, 3, 13, 18, 19 show good activity against *E. coli*.” should be changed to “Compounds 5, 11, 18 and 27 show good activity against *S. aureus* while compounds 3, 5, 13, 18, 19, 26, 27 show good activity against *E. coli*.”.
- 9.The author should provide specific activity data in the abstract for comparison with the control drug.