

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

Konstantin Krolenko

Potential competing interests: No potential competing interests to declare.

The topic, picked up by the authors, is very important since the resistance of bacteria to existing drugs is a tremendous challenge to the modern pharmaceutical industry.

The research conducted by the authors needs more theoretical reasoning behind it. Were there earlier precedences in the literature that Schiff-base derivatives increase the potency of antibiotics? The paper would benefit from computer-aided modelling of the interactions the amino-group is involved in, and answer why it is important to modify that particular part of cefradine.

Like with the synthesis of Schiff bases, the reasoning behind producing corresponding salts is not clear either. Was it addressing the ADME properties of the resulting compounds?

In my opinion, this work needs more theoretical background and more of a knowledge-driven approach.