

Review of: "[Review Article] Green Strategies for the Synthesis of Quinolone Derivatives"

Ranga rajan

Potential competing interests: No potential competing interests to declare.

Comments:

The paper titled "Green Strategies for the Synthesis of Quinolone Derivatives" by Ahmed and Akter presents a review of recent advancements in green chemistry methods to access quinolone derivatives that require substantial improvements before publishing elsewhere.

1. *"Abstract: Background: even stopping the synthesis of hazardous by-products from minimizing"*, Actually, chemists do not attempt to synthesize the by-products; they are, unfortunately, formed under reaction conditions. So this sentence needs to be improved accordingly. Better to provide the actual definition instead.
2. *"Objective: Nalidixic acid has been synthesized and developed into derivatives known as quinolones."* Sentence is not clear. A clear objective of the work should be provided.
3. Methods: need to be revised. Maybe the information given in the conclusion is suitable for methods. Methods, results, and conclusion need a revision.
4. Chemical structures drawn here seem to be deformed. The author can use the ACS style of drawing.
5. Introduction is more about quinolones and their pharmacology and SAR, which is not in accordance with the objective of the paper and the title-*"Green Strategies for the Synthesis of Quinolone Derivatives"* Only one paragraph of 6 lines was given for green chemistry.
6. Why did the author concentrate on pharmacology rather than green chemistry?
7. This paper did not discuss much about the research articles and gave only a few lines like the abstract. More discussion on works and derivatives should be shown.
8. Temperature should be given in an acceptable and uniform format - For ex., 120°C.