

Review of: "Synthesis of 1, 2-Disubstituted Benzimidazoles at Ambient Temperature Catalyzed by 1-Methylimidazolium Tetrafluoroborate ([Hmim] BF₄) and Investigating Their Anti-ovarian Cancer Properties Through Molecular Docking Studies and Calculations"

M^a Ángeles Farrán Morales¹

¹ Universidad Nacional de Educación a Distancia

Potential competing interests: No potential competing interests to declare.

I have read with interest the paper entitled Synthesis of 1,2-disubstituted benzimidazoles at ambient temperature catalyzed by 1-methylimidazolium tetrafluoroborate and investigating their anti-ovarian cancer properties through molecular docking studies and calculations.

My first comment regards the use of the English language. The title is not grammatically correct; it should say (my suggestion), **1-methylimidazolium tetrafluoroborate-catalyzed synthesis of 1,2-disubstituted benzimidazoles and docking studies with 6LAD ovarian cancer protein.**

2. I have read Lee Pinsky's law all over the manuscript. It should be Lipinsky's Rule of Five. The word Lipinsky is badly spelled.

3. In the experimental procedure, it says, "After the completion of the reaction, as indicated by TLC, the reaction mixture was cooled to room temperature," how can that be if the reaction was carried out at room temperature?

The experimental method described offers advantages comparedto reported experimental methods, but I see no mention of ball milling, which offers a lot of advantages and very good yields (*Green Chem.*, 2015,**17**, 4263-4270), or microwave irradiation. The yields reported are better, and ball milling offers the advantage of being a solvent-free method. Microwave irradiation might shorten reaction times.

The paper is well-documented (72 references), and although the work is not extremely original, it describes a new application of these compounds and opens a potential for development of new drugs against ovarian cancer.

I recommend revision of the English language.

