

Review of: "Thiazole Schiff Bases as Potential Breast Cancer Drugs through Design, Synthesis, and In Silico Analysis"

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Potential competing interests: No potential competing interests to declare.

The article presents suggestions for possible molecules that could act in the treatment of breast cancer. The summary and the analysis of the synthesis structure meet the parameters of a good description.

However, the in silico analyses represent a prototype of chemical docking with target proteins, without actually giving us precision tested in cells. In order for the study to be more robust, I suggest that in vitro experiments be performed with the most promising compounds mentioned (TZ6, TZ7, and TZ8, for example) in animal cells, analyzing cytotoxicity, hemolytic activity, nitric oxide levels, mitochondrial activity, and plasma membrane permeability. These factors should be added to the proteins and hormones targeted by the study. Consequently, testing in cancer cells with all parameters analyzed once again. Finally, performing the final in silico test to confirm the findings. This way, the work will have greater replicability and data security.

The points described leave much to be desired with little theoretical basis. I would have liked to have read about the actions of the target groups in the face of cancer and, if there is one, the Schiff group in this pathogenesis.

I suggest that images and graphs of the in silico and in vitro analyses be presented so that the work is complete.