Review of: "Expansion of the Experimental Antifungal Activities Through in Silico Docking Study of Compounds From Albizia Lebbeck"

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Potential competing interests: No potential competing interests to declare.

Two compounds, lebbeckisoetin A and chiakine, underwent experimental evaluation for their antimicrobial activities against five microbial strains, revealing robust antifungal effects. The presumed mechanism of action is associated with sterol 14-alpha demethylase. However, it is essential to establish the basis for asserting this connection. What evidence supports the assumption that these compounds act through sterol 14-alpha demethylase?

Similar to Silva et al. (2022), who relied on docking studies rather than experimental validation to assume CYP51 as the actual target. In the case of Lima et al. (2020), they did not explore molecules comparable to those under investigation.

Two docking score point data isn't enough data to correlate with two experiments you've carried out.

Kindly furnish additional details regarding molecules similar to quercetin found in the literature and establish more robust evidence for the hypothesized mechanism of action.