

Thinkful of Icariin Induces Triple-Negative Breast Cancer Cell Apoptosis and Suppresses Invasion by Inhibiting the JNK/c-Jun Signaling Pathway [Response to Letter]

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Dear editor

Regarding the dose discussion proposed by Mariya et al¹ prior to our study, we used the cck-8 method to repeatedly explore how to set the optimal dosage for drugs.

CKK-8 reagent kit is a fast and highly sensitive detection kit widely used for cell proliferation and cytotoxicity based on WST-8. WST-8 is a compound similar to MTT that can be reduced to form orange yellow water-soluble formazan in the presence of electron coupling reagent 1-Methoxy PMS. Under the enzyme-linked immunosorbent assay, the absorbance values of each well can be measured, ultimately obtaining the cell proliferation rate.

We used 10 μ M-60 μ M Eight different doses of ICA drugs were used for pre-experimental detection of TNBC cells, and combined with the guidance of existing research,² the doses in the article were comprehensively determined.

This study emphasis on basic research, and the cell experiment has achieved our initial goals. In our recent research, we have detected changes in the expression of a large number of genes such as BAX/Bcl2, and the results are encouraging. We are conducting animal experiments to further prove our conclusions, and we appreciate the valuable suggestions provided by Mariya et al.¹

Disclosure

The authors report no conflicts of interest in this communication.

References

1. Mariya SS, Rinendyaputri R, Nikmah UA. Thinkful of icariin induces triple-negative breast cancer cell apoptosis and suppresses invasion by inhibiting the JNK/c-jun signaling pathway [letter]. *Drug Des Devel Ther*. 2023;17:1245–1246. doi:10.2147/DDDT.S414046
2. Song L, Chen X, Mi L, et al. Icariin-induced inhibition of SIRT6/NF- κ B triggers redox mediated apoptosis and enhances anti-tumor immunity in triple-negative breast cancer. *Cancer Sci*. 2020;111(11):4242–4256. doi:10.1111/cas.14648

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