Reviewer's report

Title: Daucus carota pentane-based fractions arrest the cell cycle and increase apoptosis in MDA-MB-231 breast cancer cells

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Reviewer: Shubhankar Suman

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Manuscript titled “Daucus carota pentane-based fractions arrest the cell cycle and increase apoptosis in MDA-MB-231 breast cancer cells” aims at analyzing cytotoxicity and cell death related marker protein expression in breast cancer cells after administration of Daucus carota pentane based fractions. While this manuscript will contribute to the literature, several points need further clarification are listed below:

1. Specify the DMSO concentration used for DCOE treatment in the method section. Figure Legend-4 describes that 0.5% DMSO was used for treatment of MDA-MB-231 cells. It seems too much DMSO for cytotoxicity studies.

2. Figure-3A: Quantitation for each quadrant should be provided with mean±SEM.

3. Figure-4 is unclear. Higher magnification images should be provided to clearly demonstrate apoptotic morphology.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

No competing interests.