Reviewer's report

Title: 5-allyl-7-gen-difluoromethoxychrysins enhances TRAIL-induced apoptosis in human lung carcinoma A549 cells

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Reviewer: Xu Dong Zhang

Reviewer's report:

The manuscript by Xie et al. reports that AFMC sensitizes NSCLC A549 cells to TRAIL-induced apoptosis by up-regulation of DR5 expression. In general, the paper is well-presented and will be of interest to readers of the Journal, but there are a few issues need to be addressed.

1. Fig 3A , how long were the cells treated with different doses AFMC?
2. Fig 4A, How does the DR5/Fc fusion protein decrease the expression of DR5 in A549 cells?
3. Figs 4B, C and D, Control values with the DR5/Fc fusion protein should also be shown.
4. More cell lines, preferentially, primary cell lines, should be included in the study, to show that if up-regulation of DR5 by AFMC in general applies to NSCLC cells.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

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

Declaration of competing interests:

declare that I have no competing interests.