Reviewer’s report

Title: Effect of staurosporine on the mobility and invasiveness of lung adenocarcinoma A549 cells: an in vitro study

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Reviewer: Caroline Heckman

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In their revised manuscript, Wang et al have added additional results including those from cell survival/proliferation assays and cell cycle plus apoptosis quantification by FACS analysis. While these results could improve the overall study, they are added to the end without any comment on how they impact findings from the other assays. These are functional results that would probably be better suited towards the beginning of the results section along with results describing changes in cell adhesion, mobility and invasion. Since the authors state that apoptosis of STS treated cells peaked at 24 h, this could mean that less invasion is observed because there are fewer cells surviving at the point when invasion was measured. In addition, without a nuclear counterstain in the images shown in Figure 5, it is impossible to determine if decreased fluorescence is due to fewer cells, particularly for the staining of MMP-9. As I stated previously, results from Western analysis would be more convincing.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

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

Declaration of competing interests:

I declare that I have no competing interests.