Reviewer's report

Title: Genistein inhibits tumor invasion by suppressing multiple signal transduction pathways in human hepatocellular carcinoma cells

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Reviewer: Min-Hsiung Pan

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The authors present some interesting findings about dealing with the effects of genistein protect TPA-induced cell invasion and cytosolic MMP-9 production in human hepatoma cells. In the present paper, the authors provide a carefully performed series of experiments that genistein exert its inhibition of multiple signal transduction pathways can control the invasiveness and metastatic potential of HCC. This is an extensive and complete study. However, there are a few aspects of the manuscript should be reconsidered and revised as follows:

Major points:

(1) The authors should clarify the role of PKC in TPA-induced signal transduction?

(2) Figure 6, TPA could induced the expression of PI3K, the authors should clarify whether genistein inhibited the TPA-induced phosphorylation of PI3K associated with the inhibition of protein expression?

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.