Reviewer's report

Title: Methyl jasmonate abolishes the migration, invasion and angiogenesis of gastric cancer cells through down-regulation of matrix metalloproteinase 14

Version: 1 Date: 27 November 2012

Reviewer: Keishiro Aoyagi

Reviewer's report:

The authors reported that sub-cytotoxic methyl jasmonate (MJ), a plant stress hormone suppresses the migration, invasion, and angiogenesis of gastric cancer cells through attenuating the expression of MMP-14 via decreasing the SP1 expressing and its binding on MMP-14 promoter.

This is first report about MJ exhibiting the anti-cancer activity on gastric cancer. It is interesting paper and important report in this field.

Major Compulsory Revision

#1. The author should explain about gastric cancer cell line MKN-45 and SGC-7901 in detail.

#2. The author reported that MJ attenuated the expression of MMP-14 via decreasing transcription factor SP1. If so, the author should give proof of that theory using EMSA (Gel Shift Assay).

Level of interest: An article of outstanding merit and interest 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:

I declare that I have no competing interests.