Reviewer's report

Title: Matrix metalloproteinase-10 promotes tumor progression through regulation of angiogenic and apoptotic pathways

Version: 1 Date: 25 February 2014

Reviewer: Satoshi Anai

Reviewer's report:

Discretionary Revisions

<Summary>
MMP10 is one of members of matrix metalloproteases (MMP) family. It is thought to be associated with cancer invasion and metastasis through degradation of extracellular matrix (collagen, elastin and laminin). This study performed lots of work to investigate mechanisms underlying a role for MMP10 in tumorigenesis and progression. MMP10 can facilitate cancer cells not only to migration, invasion and endothelial cell tube formation but also to increase a resistance to apoptosis. In vivo MMP10-inhibition experiments using siRNA was carried out to verify the clinical potential as a target for cancer therapy. The finding demonstrated targeting MMP10 may be a promising for novel strategy for various types of malignancy.

<Comments>
The authors used staurosporine to induce cell apoptosis. Different apoptosis inducers present different mechanisms. What if other apoptosis inducers are used?

Figure 6B. Authors should use different colors for different lines to make them easier to see.

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:
'I declare that I have no competing interests'