Reviewer's report

Title: Epigenetic regulation of matrix metalloproteinases expression in ameloblastoma

Version: 1 Date: 29 May 2012

Reviewer: Punnya Angadi

Reviewer's report:

Major compulsory revisions:
The authors have evaluated the methylation status, protein expression and transcription of MMp-2 and 9 in ameloblastoma to assess its role in the expression of genes in ameloblastoma behavior. Though it is a novel study, the authors have concentrated more on the methylation status and have not related this to the transcription and protein expression and their relevance in detail. The discussion needs elaboration and the findings are not clearly presented. What were the histological types of ameloblastoma used, would the histological type show variation in these genes? Did the gingival samples exhibit inflammation which I assume is a distinct possibility, if so would that affect the expression? Why was protein expression not done on gingival samples? Overall the results have not been discussed clearly, make it simple concise but more clear interpretation of the results is warranted. Once answered, the article can be published.

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

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:

I declare that I have no competing interests'