Reviewer's report

Title: Involvement of nitric oxide synthase in matrix metalloproteinase-9- and/or urokinase plasminogen activator receptor-mediated glioma cell migration

Version: 1 Date: 15 September 2013

Reviewer: Athanassios Kyritsis

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In this study, Zhuang et al. investigated the role of alpha9beta1 integrin-iNOS pathway on invasion potential of glioma cells both in vitro and implanted in the brains of nude mice. Their results demonstrated that the migration potential of MMP-9- and/or uPAR-overexpressed glioma cells was significantly inhibited after treatment with LNAME, an inhibitor of iNOS. Furthermore, simultaneous knockdown of MMP-9 and uPAR inhibited the migratory potential of glioma cells most likely due to the reduced alpha9beta1 integrin and iNOS levels. This study was well planned and executed and the results are valid.

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