Reviewer's report

Title: Kisspeptin and GPR54 immunoreactivity in a cohort of 518 patients defines favourable prognosis and clear cell subtype in ovarian carcinoma

Version: 3 Date: 17 August 2007

Reviewer: Danny Welch

Reviewer's report:

The manuscript has been revised and the authors have addressed the major issues previously raised. However, in re-reviewing the manuscript I noticed that the band for GPR54 was much higher molecular weight in the paper published by Muir et al. (JBC (2001) 276:28969 – they called it AXOR12). This discrepancy needs to be addressed in the revised version.

- Minor Essential Revisions
  - The manuscript should also cite the paper from the Xu lab (Clinical and Experimental Metastasis (2005) 22:369) in which they show that KISS1 suppressed ovarian carcinoma metastasis in an experimental model. Citing their work shows further premise for the study and connects the findings to experimental models, both which strengthen the impact of this manuscript.
  - Although I believe the statistics are sufficiently robust, a qualified statistician should review the statistics.

- Discretionary Revisions
  - The authors argue that useful information can be gleaned from antibodies/antisera which are not ideal with regard to specificity using immunoblots etc. From a clinical perspective, that assertion is correct. However, a great deal of confusion arises because of failure to explicitly state the problems in the text. It would be appreciated if the authors added a single sentence to address this point. It is noted, however, that the competition studies presented are VERY compelling, which is why this issue is relegated to a discretionary revision.

Which journal?

The manuscript is appropriate for BMC Medicine; however, I can see the point of the other reviewer who thought it might be better suited for BMC Cancer. I am inclined to accept in BMC Medicine; however, would not oppose a decision for BMC Cancer.

RECOMMENDATION
  - Accept for publication in BMC Medicine after discretionary revisions (which the authors can choose to ignore)
  - The major revision requested is compulsory, but I trust that the authors can add
the mandated sentence. The other discretionary revisions can be handled by the editorial office and authors.

Quality of written English
- Acceptable

Statistical review
- Yes

Declaration of competing interests
- I declare that I have no competing interests.