Reviewer’s report

Title: Establishment and characterization of a new human pancreatic adenocarcinoma cell line with high metastatic potential to the lung.

Version: 1 Date: 3 February 2010

Reviewer: Stefan Eser

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In this manuscript Kalinina and Güngör et al. provide an in depth characterization of a new human pancreatic cancer cell line derived from a primary tumor. They delineate the new cell line in terms of proliferation and resistance to chemotherapy, gene expression which is verified on protein level and give a detailed analysis of the cell lines’ complex karyotype. Additionally they provide in vivo data about the high metastatic potential of this cell line in pfp/rag2 mice.

Given the need for new well-characterized human pancreatic cancer cell lines, with which to study the biology of pancreatic cancer this work is of importance. This new cell line is suitable for studying various aspects of pancreatic cancer such as metastasis as this cell line is able to metastasize to the lungs even from subcutaneously growing primary tumors. Furthermore this cell line is highly resistant to conventional as well as targeted chemotherapeutic drugs and can thus serve as a model for studying the mechanisms underlying this clinically relevant issue.

- Discretionary Revisions

In the discussion the authors state that only a few cell lines have been found to metastasize in implantation models. In this context the article by Panayiotis Loukopoulos in Pancreas 2004 should be cited and discussed.

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.'