Reviewer's report

**Title:** Anti-proliferative effect of extremely low frequency electromagnetic field on preneoplastic lesions formation in the rat liver

**Version:** 1  **Date:** 17 December 2009

**Reviewer:** Santi Tofani

**Reviewer's report:**

**Comments:**

the paper deals with a very important subject, the possibility for Electromagnetic Energy to become a new tool for Cancer treatment. Results reported in this manuscript if better explained and supported by more info may really be important and therefore of interest. This manuscript needs the following additional data and info before it can be accepted for publication according with this reviewer:

1. Describe how animals were held during the exposure, how many of them were contemporarily exposed or sham exposed, provide also info on the timing of the entire experimental section (s). A scheme of the experimental setup should be given with all the necessary information for “in theory” allowing a replica of the experiment. Results of all physical parameters monitored during the animal exposure as well as during sham exposure sections should also be given.

2. How and where temperature was recorded inside the coil (in respect to the animal position) and corresponding results obtained during the animal exposure as well as during sham exposure section (s) should be given.

3. About the histological and immunohistological exams please report the number of sections used for each animal and how sections were selected. Please also report results for every single animal in a table where also the number of liver sections is shown. Please provide also the timing of when these exams were performed (i.e. in different days?) for the different experimental groups. Please also report on the knowledge by the examiner of the exposure group.

**Level of interest:** An article of outstanding merit and interest in its field