Reviewer's report

Title: Genetic Integrity of the human Y chromosome exposed to groundwater arsenic

Version: 2 Date: 31 March 2010

Reviewer: Maria E. Gonsebatt

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Discretional revisions:
Chromosomal damage such as deletions have been observed in populations exposed to arsenic (see Mutation Research special issue published in 2007). Both in vitro an in vivo arsenic induces chromosome deletions and also acts as an aneuploidogenic agent. Authors should discuss the induction of aneuploid cells (cells lacking Y chromosome) in ther exposed subject. This information coincides with in vitro data and is important.

Level of interest: An article of limited interest

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