Reviewer's report

Title: Prevalence of at-risk genotypes for genotoxic effects decreases with age in a randomly selected population in Flanders: a cross sectional study.

Version: 1 Date: 8 June 2011

Reviewer: Radim J Sram

Reviewer's report:

1) The question posed by authors is new and well defined.
2) The methods are appropriate and sufficiently described.
3) The data are sound and well controlled.
4) The discussion and conclusions are well balanced and adequately supported by the data.
5) The title and abstract accurately convey what has been found.

This ms. brings new data and specifically a new view how genetic polymorphisms may be studied. It is noteworthy that in this study was observed the most significant effect in genes affecting phase II enzymes and DNA repair genes.

It is certainly a new knowledge how risk alleles may probably affect human health at age 50-65 years.

Remark - references:
# 20 name is De Coster CS
# 24 + volume+pages

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:
'I declare that I have no competing interests'