Reviewer’s report

Title: The multidrug resistance 1 (MDR1) gene polymorphism G-rs3789243-A is not associated with disease susceptibility in Norwegian patients with colorectal adenoma and colorectal cancer; a case control study.

Version: 1 Date: 26 December 2008

Reviewer: TOMOMITSU TAHARA

Reviewer’s report:

General comment

The authors investigated the association between the MDR1 intron 3 G-rs3789243-A and risk of colorectal carcinomas and adenomas in the Norwegian population was assessed using a case-control study of 167 carcinomas, 990 adenomas, and 400 controls. No association was found between the MDR1 polymorphism (G-rs3789243-A) and colorectal low-risk adenomas, high-risk colorectal adenomas, or colorectal cancer. The reviewer thinks that this study show important finding although it is a negative study. This study is well designed and manuscript is well written. The reviewer also don’t have any specific concern about this data because it is a negative one. But, following points should be addressed.

Discretionary Revisions

1) To show that the sample size in this study is sufficient, the reviewer suggest that the author will describe the statistical power of this study assessed through the sample size and allele frequency of the SNP.
2) It is better to add a data of association between control and over all neoplasia (colorectal low-risk adenomas + high-risk colorectal adenomas + colorectal cancer).

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'