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: 7 November 2008

Reviewer: Sebahat Turgut

Reviewer's report:

Authors investigated the polymorphisms in multidrug resistance 1, cyclooxygenase-2 and breast cancer resistance protein genes and risk of colorectal cancer.

1. Abstract should be rewritten and arranged as background, methods, results and conclusion. A concluding sentence should be added into Abstract.
2. Manuscript should be arranged according to the journals rules.
3. Authors should indicate that why did they this study. The aim is unclear, aim should written as clearly in background section.
4. How the controls were chosen? How were those participants referred there? Did they have any illnesses? Did the controls come from the same clinic?
5. Material method: page 9; paragraph 3, “ All participants gave verbal and written………” this paragraph should be added in subject section of Material method part.
6. Why did authors collect 30 ml blood from each participant? 2 ml blood is enough for DNA isolation. Why plasma, serum, and erythrocytes were isolated? Where were plasma, serum, and erythrocytes used?
7. Used statistical method in this research is not clear, especially for compared of genotype frequency.
8. References should be designed according to the journals rules.
9. Discussion is weak, it should be rewritten. Effects of polymorphism on CRC were discussed in this paper, but Danish diets effects on CRC were not discussed.
10. Tables are not very clear.

Level of interest: An article of limited interest

Quality of written English: Needs some language corrections before being published

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