Reviewer's report

Title: Relationship between Cyclooxygenase 8473T>C Polymorphism and Risk of Lung Cancer: a case-control study

Version: 1 Date: 1 December 2005

Reviewer: Wei Zhou

Reviewer's report:

General

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Major Compulsory Revisions (that the author must respond to before a decision on publication can be reached)

1. Although the overall sample size is moderate, the number of patients is small in the subgroup analyses. Have the authors perform any power calculation before they perform the subgroup analyses by age, gender, and smoking for adenocarcinoma patients, and report the differences of different subgroups?

2. Are there any strong biological data suggest that the effects of COX-2 are stronger for adenocarcinoma patients? If so, the authors should summarize them in the Introduction Section.

3. The authors need to present the crude odds ratios before they present the adjusted results.

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Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)

1. The genotyping method is standard and I don’t think that such details are needed. One interesting point is that the authors used “6% acrylamide gel” instead of “3% or 4% agarose gel”, which is cheaper and easier and should be able to differentiate the 23bp difference of the DNA bands. Is there particular reason for this?

2. Table 1 and 2 should be combined, and Table 3 and 4 should be combined or just presented in the text.

3. The name of genotypes should be “Italic”.

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Discretionary Revisions (which the author can choose to ignore)

What next?: Accept after minor essential revisions

Level of interest: An article whose findings are important to those with closely related research interests
Quality of written English: Acceptable

Statistical review: Yes

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