Reviewer’s report

Title: Influences of polymorphic variants of DRD2 and SLC6A3 genes, and their combinations on smoking in Polish population

Version: 2 Date: 15 July 2009

Reviewer: Marcus Munafo

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The authors have partially responded to the comments I raised in the previous round.

However, it is an unavoidable fact that statistically significant findings in the context of low power are very likely to be false.

The following article describes this apparently paradoxical conclusion (many people think low power results in a risk of false negatives) very nicely:

Sifting the evidence-what's wrong with significance tests?
Sterne JA, Davey Smith G.

The authors may wish to make more of this point, although they do acknowledge these limitations somewhat in the current discussion.

The framing of their data as hypothesis-generating, rather than confirmatory, is certainly helpful in this respect.

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

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