Reviewer's report

Title: The association of TCF7L2 gene and diabetes

Version: 2 Date: 7 April 2007

Reviewer: John Todd

Reviewer's report:

General
(1) Can the authors please use a much larger sample size since the current one is statistically powered to detect only quite large effects. The new sample set would need to be larger than the previously published study of TCF7L2 in T1D (Diabetologia). Negative studies are only interesting if the dataset is very large and has good power to detect very small effects, otherwise the claim "TCF7L2 is not associated with T1D" may not be that informative.

(2) Can the authors please make clear what the new insight into the association of the TCF7L2 gene in T2D brings to the analysis of this gene in T2D? Have the authors performed any fine mapping of the TCF7L2 region? Which is the most associated SNPs/DIPs? Is there any association between SNP genotypes and expression of TCF7L2?

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

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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)

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Discretionary Revisions (which the author can choose to ignore)

What next?: Reject because too small an advance to publish

Level of interest: An article of insufficient interest to warrant publication in a scientific/medical journal

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

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