Reviewer’s report

Title: Serum uric acid distribution according to SLC22A12 W258X genotype in a cross-sectional study for a Japanese general population

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Reviewer: Yasuharu Tabara

Reviewer’s report:

The authors investigated an association between SLC22A12 W258X polymorphism and serum uric acid levels in a Japanese general population. Results showed markedly lower UA levels in subjects with nonsense mutation. Since serum UA levels of heterozygotic subjects were widely distributed, the authors suggested that other genetic traits may be involved in the UA levels. However, it has been well documented that the nonsense mutation was a significant determinant of UA levels in Japanese. Further, trans-ethnic associations of SNPs derived from European UA-GWAS, e.g. SLC2A9, ABCG2, have also been confirmed in Japanese. Novel findings that attract reader’s interest dose not observed in this study.

Level of interest: An article of limited interest

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

Statistical review: No, the manuscript does not need to be seen by a statistician.