Reviewer’s report

Title: Genetic effect of CysLTR2 Polymorphisms on its mRNA synthesis and stabilization

Version: 2 Date: 26 February 2009

Reviewer: Emiko Noguchi

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The paper by Shin et al. performed functional analysis of CYSLT2 SNPs that have been shown to be associated with aspirin hypersensitivity in asthmatics. They found that these SNPs had some influence on the transcription levels. I have following comments.

Major Compulsory Revisions

They found that haplotypes of CYSLT2 SNPs were associated with aspirin hypersensitivity. In order to investigate the effects of the haplotype, the authors should construct the vectors containing both 5’- and 3’- flanking regions of CYSLT2.

In the flow cytometric analysis, approximately half of B cell are positive for CYSLT2R and the fluorescentce intensity was significantly higher in B cells of the subjects with ht2+/+ than in those with ht1+/+. Heterogeneity of EBV-transformable human B lymphocyte populations has been reported, and not all B lymphocyte subsets are transformed equally well (Chan et al., J Immunol, 1986). Are there any characteristic features in CYSLT2 positive cells compared to these in negative cells? Please state these in the manuscript.

Minor Essential Revisions

SNP should be described as reference SNP number (rsXXX) throughout the manuscript.

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.