Author's response to reviews

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

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

Dear Prof. Melissa Norton, MD

Recently, the role of CysLTR2 gene has been highlighted in the pathogenesis of asthma, especially aspirin intolerance in asthma. In this manuscript, we described the functional evidence of single nucleotide polymorphisms in CysLTR2 gene which is a receptor for cysteinyl leukotriene, an important molecule in modulating inflammation. Our results demonstrate that the sequence variants on the promoter and on the 3’-UTR of CYSLTR2 affect the efficiency of its transcription and the stability of its mRNA, resulting in the alteration of protein expression of CysLTR2. As such, this manuscript provides new information on genetic polymorphism of CysLTR2 nucleotide polymorphism and aspirin hypersensitivity in asthmatics at the level of gene function. We trust that the functional SNP of CysLTR2 would be of high interest to asthma researchers, human genetic communities and general audience. This manuscript is original, and has not been submitted for publication elsewhere. The authors declare that they have no competing interests. We hope that our results would fulfill high standards of “BMC Medical Genetics”.

With my best regards,

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