Author's response to reviews

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

Authors:

Jeong-Ah Shin (jamies01@empal.com)
Hun Soo Chang (intron@korea.ac.kr)
Se-Min Park (emadoonge@hotmail.com)
An-Soo Jang (jas877@chollian.net)
Sung Woo Park (swpark@schbc.ac.kr)
Jong Sook Park (newstart1221@naver.com)
Soo-Taek Uh (emadoonge@hanmail.net)
Gune Il Lim (guneil@yahoo.co.kr)
Taiyoun Rhim (xodus@schbc.ac.kr)
Mi-Kyeong Kim (kimmk@chungbuk.ac.kr)
Inseon S. Choi (ischoi@chonnam.ac.kr)
Il Yup Chung (iychu@hanyang.ac.kr)
Byung Lae Park (blpark@snp-genetics.com)
Hyoung Doo Shin (emadoonge@empal.com)
Choon-Sik Park (mdcspark@unitel.co.kr)

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

Dear Prof. Melissa Norton, MD

Thanks, I really appreciate that BMC Medical Genetics will publish my manuscript.

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. We hope that our results would fulfill high standards of “BMC Medical Genetics”.

With my best regards,

Choon-Sik Park
Division of Allergy and Respiratory Medicine,
Soonchunhyang University Bucheon Hospital,
1174, Jung Dong, Wonmi Ku
Bucheon, Gyeonggi Do
420-021, Korea
Tel: 82-32-621-5105
Fax: 82-32-621-5023
Email: mdcspark@unitel.co.kr