

Accepted Manuscript

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PII: S0198-8859(18)30491-9

DOI: <https://doi.org/10.1016/j.humimm.2018.07.227>

Reference: HIM 10096

To appear in: *Human Immunology*

Received Date: 24 April 2018

Revised Date: 9 July 2018

Accepted Date: 17 July 2018

Please cite this article as: Liang, T., Ting Xu, Y., Zhang, Y., Cai, P.C., Hu, L.H., Interleukin-17A and-17F single nucleotide polymorphisms associate with susceptibility of asthma in Chinese Han population, *Human Immunology* (2018), doi: <https://doi.org/10.1016/j.humimm.2018.07.227>

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Interleukin-17A and-17F single nucleotide polymorphisms associate with susceptibility of asthma in Chinese Han population

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Abstract

Interleukin 17 (IL-17) plays important roles in the progression of asthma. Genetic variants in the IL-17 may influence the immunopathogenesis of many diseases. Many studies have investigated the relevance of IL-17 polymorphism with cancers or immune diseases, including asthma. In this study, single nucleotide polymorphisms (SNPs) of IL-17 were explored by PCR-RFLP and verified by sequencing method. The frequencies of genotypes and alleles were analyzed. Haplotypes were analyzed with the SHEsis online program. The relationship between the genotypes of SNPs and IgE level was also investigated. The False Discovery Rate (FDR) correction was performed (P -adjusted <0.05). The frequencies of A allele, GA and (GA+AA) genotype of rs3748067 were significantly higher in asthma patients. As for rs763780, the C allele in patients was more frequent than healthy controls. In addition, we found C carriers (CT+CC) were significantly higher in asthma patients. We further found

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