ABSTRACT BOOK ABSTRACTS



A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

ATOPIC ECZEMA/DERMATITIS

A COMMON VARIANT ON CHROMOSOME 11Q23.3 IS ASSOCIATED WITH SUSCEPTIBILITY TO ATOPIC DERMATITIS IN CHINESE HAN POPULATION

Yang Li⁽¹⁾

Institute Of Dermatology And Department Of Dermatology, No.1 Hospital, Anhui Medical University, Institute Of Dermatology And Department Of Dermatology, No.1 Hospital, Anhui Medical University, China⁽¹⁾

Background Genome-wide association studies (GWASs) have revealed a large number of genetic risk loci for many immune-mediated diseases. One clear finding emerging from the published genetic studies of immune-mediated diseases is that different immune-mediated diseases share susceptibility loci. Recent evidence has demonstrated that 11q23.3 locus was associated with multiple immune-mediated diseases.

Objective The aim of this study was to explore the association between 11q23.3 locus single-nucleotide polymorphisms(SNPs) and atopic dermatitis in Chinese Han population.

Methods In total, sixteen 11q23.3 locus SNPs were genotyped using TaqMan genotyping assays in Chinese Han population (1,012 Cases and 1,362 controls). Among these SNPs, we selected the SNP rs638893 with association values of $p < 5 \times 10-2$ for AD in the TaqMan genotyping assays data for further replication in the independent Chinese replication samples (1,288 cases and 1,380 controls) using a Sequenom MassARRAY system. We combined the association results in two stages using meta-analysis.

Results We found that rs638893 on 11q23.3 showed association with AD (P=1.58×10-3, OR=1.22).

Conclusion These results showed that a common variant on 11q23.3 is associated with susceptibility to AD. Further fine mapping and functional studies will be required to identify true susceptibility gene(s) at 11q23.3 and its exact role in the pathogenesis of AD.





