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## The associations of HLA-DP locus with Posner-Schlossman syndrome in Southern Chinese Han population

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**Objective:** To study the correlation of HLA-DPA1 and DPB1 polymorphisms with Posner Schlossman syndrome (PSS) in Guangdong Han population.

**Methods:** 82 patients with PSS were randomly selected as study group and 106 healthy donors were randomly selected as control group from Guangdong Han population. All the blood samples were subjected to sequencing-based typing (PCR-SBT) at exon 2 of HLA-DPA1 and DPB1 genes in both directions. The allelic frequencies of HLA-DPA1 and DPB1 loci and the haplotype frequencies of HLA-DPA1-DPB1 were respectively compared between the two groups by  $X^2$  test.

**Results:** 6 HLA-DPA1 alleles were identified in the study group and 4 HLA-DPA1 alleles in the control group. The allele frequency of HLA-DPA1\*02:01 was 4.4% in the study group and 12.1% in the control group ( $P=0.013<0.05$ ,  $OR=0.334$ ). The allele frequency of HLA-DPB1\*14:01 was 0.7% in the study group and 4.7% in the control group ( $P=0.038<0.05$ ,  $OR=0.151$ ). 21 HLA-DPA1-DPB1 haplotypes were identified in the study group and 24 HLA-DPA1-DPB1 haplotypes in the control group. The haplotype frequency of HLA-DPA1\*02:01~DPB1 \*14:01 was 0.7% in the study group and 4.3% in the control group ( $P=0.051$ ,  $OR=0.165$ ).

**Conclusions:** HLA-DPA1 \*02:01 and DPB1 \*14:01 loci could provide considerable protection for PSS and the haplotype of HLA-DPA1 \*02:01-DPB1 \*14:01 might decrease the risk for PSS.

### Biography

Jun Zhao has completed his PhD in ophthalmology from Jinan University, China. With 23 years of experience as an ophthalmologist, he is the Vice-president of Shenzhen Eye Hospital as well as Vice-chief Committee Member of Ophthalmology Committee, Shenzhen Medical Association. He has published more than 20 papers in reputed journals.

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