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HLA C Allele Associations in Mumbai Psoriasis Patients

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ABSTRACT Psoriasis is a common autoimmune disorder characterized by T cell mediated keratinocyte hyperproliferation known to be associated with the presence of certain specific HLA alleles. In this study our aim was to evaluate distribution of HLA Cw susceptible allele of psoriasis from patients in Western India. The study included 84 Psoriasis patients and 91 normal individuals from same geographical region. HLA-C was typed using high resolution PCR-SSOP (Sequence Specific Oligonucleotide Probes) technique. The study revealed significant increase in frequencies of Cw*0202 (OR-6.508, $P < 0.0001$) and Cw*0604 (OR-17.710, $P = 0.0153$) when compared to controls while Cw*1502 (OR-0.130, $P = 0.0490$) were significantly decreased in psoriasis patients. Our study shows a strong association of HLA Cw*0202 and Cw*0604 alleles with psoriasis conferring to its susceptibility to psoriasis patients from Western India.