

Assessment of Association of *ITLN1* SNPs rs2274907A>T and rs2274908 G>A with Coronary Artery Disease in People from Punjab

Navdeep Kaur¹, S. M. S. Chahal^{1,*} and R. S. Singh²

¹*Department of Human Genetics, ²Department of Biotechnology, Punjabi University,
Patiala 147002, Punjab, India*

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ABSTRACT The objectives of the present study were to determine the genotype and allele frequency distributions of rs2274907 and rs2274908 SNPs of the *ITLN1* gene in CAD cases (n=206) and controls (n=206) inhabiting the state of Punjab in northwest India and to seek association, if any, of these SNPs with CAD. Age, lifestyle patterns, dietary habits and various biochemical traits (CHOL, TG, HDL, LDL and VLDL) were examined for possible association with the studied SNP genotypes in CAD cases. Statistically significant differences were found between CAD cases and controls in physical activity (OR=0.27, p<0.0001), alcohol intake (OR=0.67, p=0.04), smoking (OR=1.93, p=0.001), diet type (OR=1.76, p=0.011) and fruit intake (OR=2.62, p<0.0001). All biochemical trait differences were also found to be highly statistically significant (p<0.0001). The present case-control study revealed that both the SNPs at *ITLN1* locus were statistically significantly associated with the occurrence of CAD in the people of Punjab.