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Distribution of glucosylcerebrosidase (GBA) polymorphisms in oral cancer patients and possible functional implications of the SNPs

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The prevalence of the major polymorphisms in normal and oral cancer patients was investigated and analysed the data in a site specific way. The SNPs examined are; 1) G129T (Val394Leu), 2) G1497T (Val460Val), 3) G1342C (Asp409His), 4) IVS 2+1 G>A, 5) A1226G (Asn370Ser), 6) c.1263-1317 del 55, 7) T1448C (Lys444Pro) and 8) G1604A (Arg496His). Analysis of the data revealed differential distribution of the polymorphisms in tongue and buccal cancer subjects and exhibited gender variations. In addition, it was also studied plausible implications of the SNP(s) on the structure and function of the GBA, using bioinformatics' tools.

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