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Analyzing the Association of the Alu CD4 Gene with Various Cancer Types in the Naga Tribes of Nagaland

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ABSTRACT Cancer arises through the unchecked proliferation of cells. Some studies have shown association of cancer with Alu CD4 genotypes. In this study, the researchers investigated the association of CD4 gene analyzing different types of cancer among Naga tribes of Nagaland. This study's primary goal was to investigate the relationship between the genetic marker CD4 with the 16 cancers among the Naga Tribes and find the most prevalent type of cancer among the Naga tribes. Samples were taken from various cancer patients (n = 75), while control samples were taken from Naga tribe members who were in good condition. Polymerase chain reaction (PCR) was used for genotyping, and allele-specific primers were used. The study discovered that the II genotype was the most common genotype. Oral cancer (p=0.006*), stomach cancer (p=0.03*), and cervical cancer (p=0.00*) are all strongly associated with the II genotype.