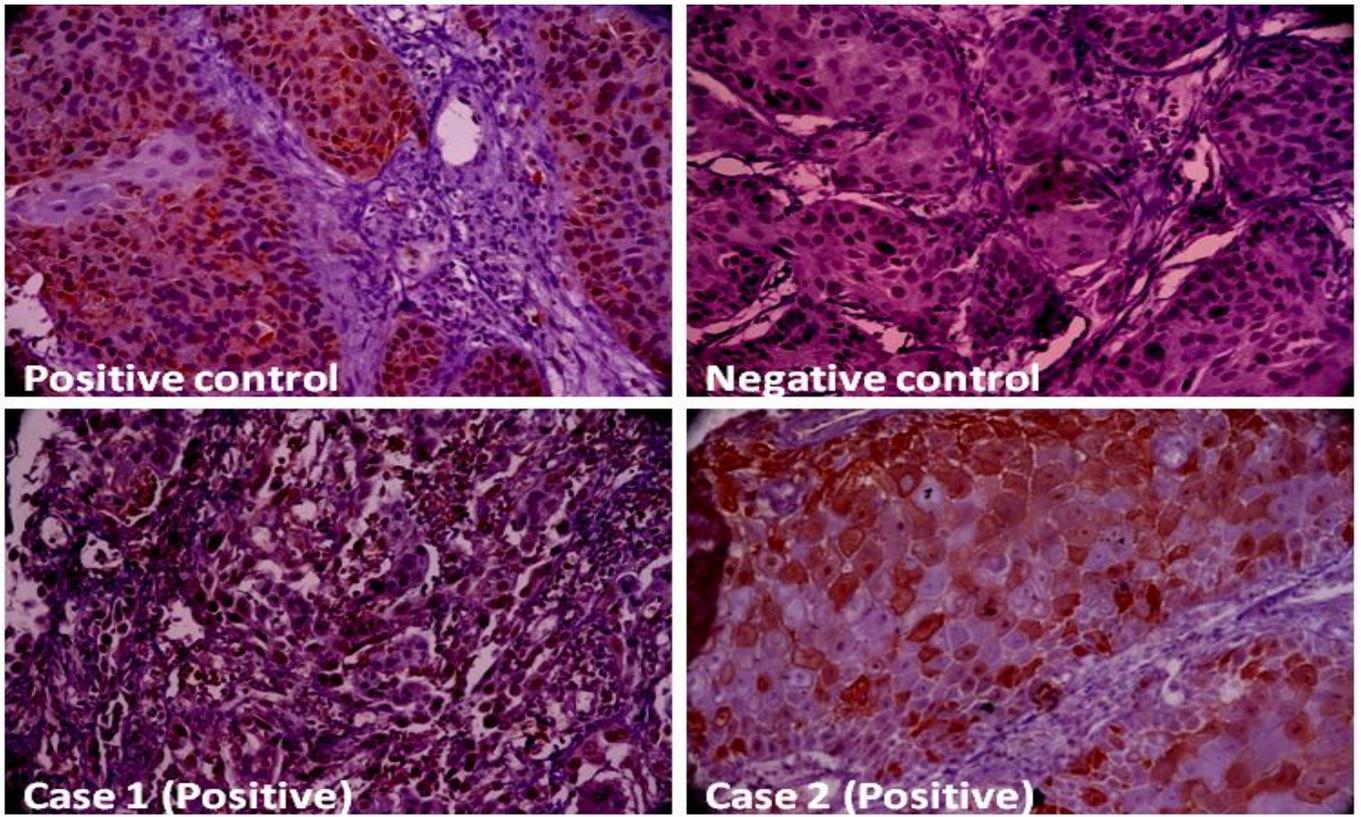
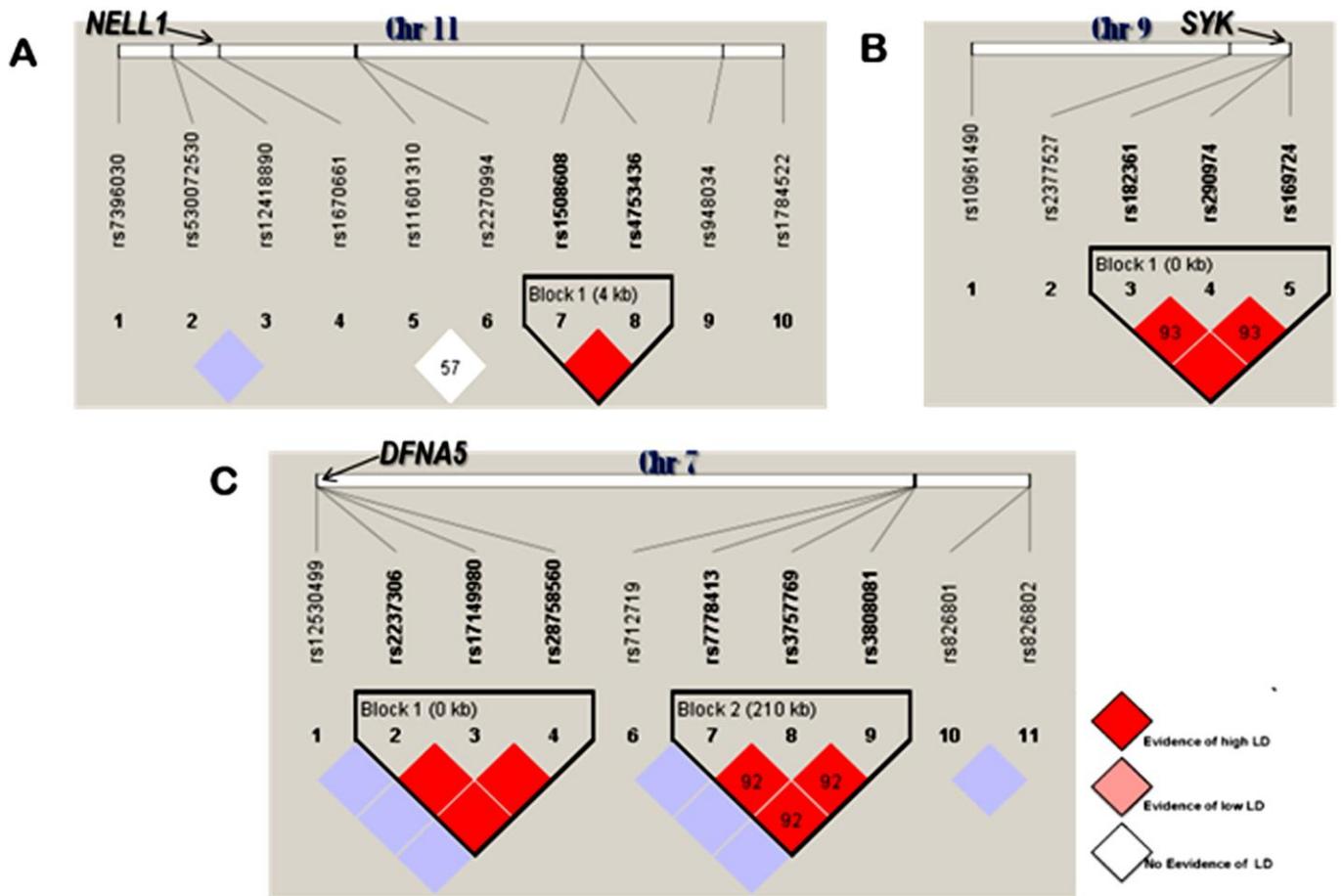


## Supplementary Figures



**Supplementary Figure S1** Immunohistochemistry study of the case1 and case2 groups.

Here, BSA was used as negative control and cervical cancer tissue specimen was considered as the positive control for the Immunohistochemistry study.

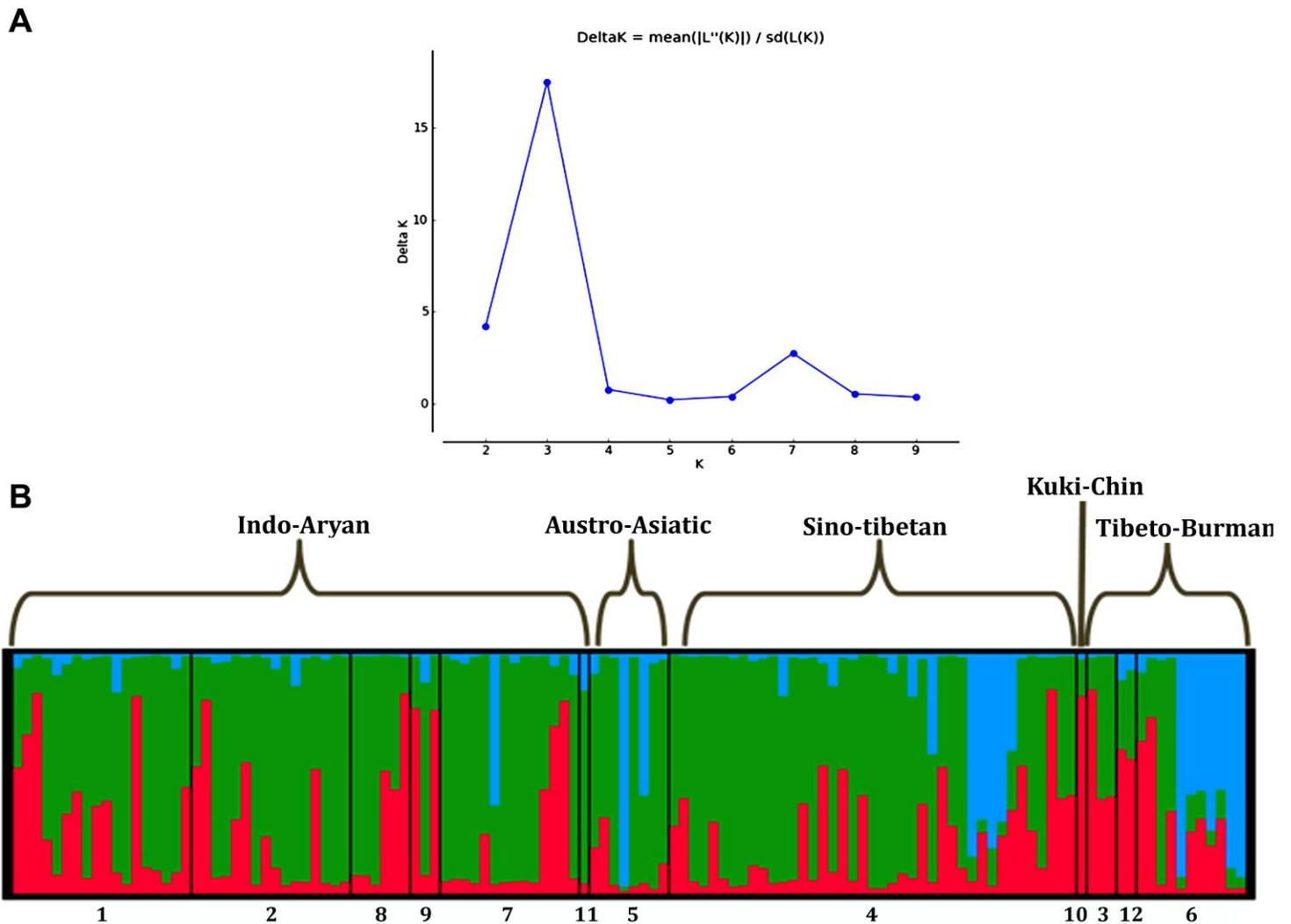


**Supplementary Figure S2** Representative LD plot from Haploview software.

(A) LD plot for chromosome 11 [ $r^2 = 0.975$  for LD Block 1],

(B) LD plot for chromosome 9 [ $r^2 > 0.8$  for LD Block 1],

(C) LD plot for chromosome 7 [ $r^2 < 0.8$  for LD Block 1 and  $r^2 \geq 0.8$  for LD Block 2]. The figure is not to scale.

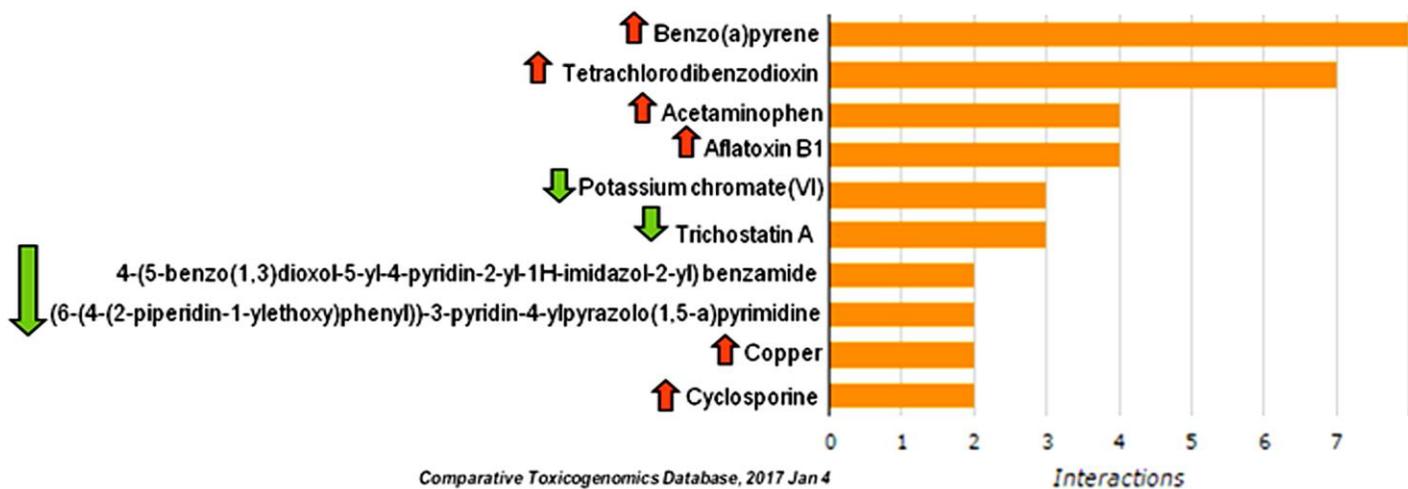


**Supplementary Figure S3** Estimated population structure for 12 Northeast Indian heterogeneous ethnic groups taken under this study.

**(A)** Estimation of the number of clusters (K) by Delta-K method (Ref. 31).

**(B)** The clustering (for K=3) was done based on major language families, which are labeled above the figure.

The individual populations are numbered below the figure.



**Supplementary Figure S4** Top 10 interacting chemicals with DFNA5 gene. The red arrow signifies the chemical results in increased expression and the green arrow signifies the chemical results in decreased expression of the gene.