

**Supplementary Fig. 1:** Showing pairwise linkage disequilibrium (*D*′) between the four variants of *NAT2* gene, wherein pink shows the average LD and white depicts the minimum LD between the polymorphic sites.



**Supplementary Fig. 2:** The multifactor dimensionality reduction (MDR) interaction dendrogram a) overall, b) smokers, and c) non-smokers.(Note: X1- NAT2\*6 590G>A, X2- NAT2\*7 857G>A, X3- NAT2\*5 481C>T, X4- NAT2\*5 803A>G)



**Supplementary Fig. 3:** CART analysis in polymorphic *NAT2* on basis of histology, a) ADCC, b) SQCC, and c) SCLC. W= homozygous wild type genotype, M = heterozygous + homozygous variant genotype