

Haplotype analysis of XRCC2 gene polymorphisms and association with increased risk of head and neck cancer

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Supplementary Table S1: Primer sequences of five SNPs of XRCC2 gene (rs3218373, rs2040639, rs3218384, rs7802034 and rs3218536).

	<i>Sequence (5' - 3')</i>	<i>Product (bp)</i>	<i>size</i>	<i>Annealing temp.(°C)</i>
Gene XRCC2				
rs3218373				
Wild forward	TAAAGCCCATTGTTTCAAG	137bp	54	
Mutant forward	TAAAGCCCATTGTTTCAAT			
Common reverse	AAACGCTAGGAAAGAGCATA			
rs2040639				
Wild reverse	GCACACCTGTTCGTGTGACT	225bp	60	
Mutant reverse	GCACACCTGTTCGTGTGACC			
Common forward	GTTGTAAACCAGCCTAGGCAAC			
rs3218384				
Wild reverse	ACTCTACGGCCAGTCAAATG	311bp	58	
Mutant reverse	ACTCTACGGCCAGTCAAATC			
Common forward	GCCTGCTTGTGCAATACAATTA			
rs3218536				
Wild reverse	CGTTGCAAAAAGAACCAGTC	227bp	56	
Mutant reverse	CGTTGCAAAAAGAACCAGTT			
Common forward	ACTGCAGTAGTAGCACCCAC			
rs7802034				
Wild reverse	CTCCTTACAGCGTTCTATGT	220bp	60	
Mutant reverse	CTCCTTACAGCGTTCTATGC			
Common forward	GTCCTACAGAAGGGACATCA			
Beta-Actin				
Forward	CGAGAAGATGACCCAGGTGA	496bp	55	
Reverse	TACATGGCTGGGGTGTTGAA			

Supplementary Table S2: Frequency distribution analysis of selected SNPs on the basis of hospitals.

<i>Genotype / Allele</i>	<i>PIMS Hospital Cases n (%)</i>	<i>NORI Hospital Cases n (%)</i>	<i>OR (95% CI)</i>	<i>P- value</i>
<i>rs3218373</i>				
TT	91 (46.2%)	106 (53.8%)	0.73(0.49 to 1.09)	P = 0.1311
TG	45 (46.4%)	52 (53.6%)	0.74(0.42 to 1.31)	P = 0.3153
GG	48 (45.3%)	58 (54.7%)	0.68(0.39 to 1.17)	P = 0.1702
<i>rs2040639</i>				
AA	148 (49.2%)	153 (50.8%)	0.93(0.67 to 1.2)	P = 0.6836
AG	28 (46.7%)	32 (53.3%)	0.76(0.37 to 1.56)	P = 0.4655
GG	18 (46.2%)	21 (53.8%)	0.73(0.30 to 1.78)	P = 0.4973
<i>rs3218384</i>				
GG	162 (48.9%)	169 (51.1%)	0.91(0.67 to 1.24)	P = 0.5864
GC	20 (41.7%)	28 (58.3%)	0.51(0.22 to 1.14)	P = 0.1041
CC	10 (47.6%)	11 (52.4%)	0.82(0.24 to 2.77)	P = 0.7577
<i>rs7802034</i>				
AA	112 (48.3%)	120 (51.7%)	0.87(0.60 to 1.25)	P = 0.4577
AG	48 (47.5%)	53 (52.5%)	0.82(0.47 to 1.42)	P = 0.4819
GG	30 (44.8%)	37 (55.2%)	0.65(0.33 to 1.29)	P = 0.2274
<i>rs3218536</i>				
GG	110 (45.8%)	130 (54.2%)	0.71(0.5 to 1.02)	P = 0.0682
GA	30 (46.9%)	34 (53.1%)	0.77(0.38 to 1.55)	P = 0.4798
AA	45 (46.9%)	51 (53.1%)	0.77(0.44 to 1.37)	P = 0.3868

Abbreviations: N, number of samples; OR, odds ratio; CI, confidence interval;* p-value calculated by χ^2 -test.