

LIST OF ABBREVIATIONS

AJCC	: American joint committee on cancer
AKP	: Alkaline phosphatase
APS	: Ammonium persulphate
Bax	: BCL2-associated X protein
Bcl-2	: B-cell CLL/lymphoma 2
BPB	: Bromophenol blue
BSA	: Bovine serum albumin
BWB	: Boiling water bath
CaCl₂	: Calcium chloride
CAT	: Catalase
CBB-R 250	: Coomassie brilliant blue r-250g
CDNB	: 1-chloro-2, 4-dinitrobenzene
CIS	: Carcinoma <i>in situ</i>
CR	: Complete responders
CuSO₄	: Copper sulphate
D.D.W	: Double distilled water
DMSO	: Dimethyl sulphoxide
DNA	: Deoxy ribonucleic acid
DNP	: 4-dinitrophenyl glutathione
DTNB	: 5, 5'-dithiobis-2-nitobenzoic acid
ECL	: Enhanced chemiluminescence
ECM	: Extra cellular matrix
EDTA	: Ethylene diamine tetra acetic acid
ELISA	: Enzyme linked immunosorbent assay
EMSA	: Electrophoretic mobility shift assay
F.C.Reagent	: Folin ciocalteau phenol reagent
G	: Tumor's grade
GCRI	: The gujarat cancer research & insitute
GCS	: Gujarat cancer society
GPx	: Glutathione peroxidase
GR	: Glutathione reductase
GSH	: Oxidized glutathione
GSSG	: Reduced glutathione
GST	: Glutathione s- transferase
H₂O₂	: Hydrogen peroxidase
H₂SO₄	: Sulfuric acid
Hb	: Hemoglobin
HCl	: Hydrochloric acid
HClO₄	: Perchloric acid
HIO₄ 2H₂O	: Periodic acid
HPV	: Human papilloma virus
Hsp-70	: 70 kda heat shock protein
IB	: Immunoblotting
ICD	: International classification of diseases
IEN	: Intra epithelial neoplasia

IL-8	: Interleukin-8
iNOS	: Inducible nitric oxide synthase
int-2	: Intron -2
Kda	: Kilodalton
LN-	: Lymph node negative
LN+	: Lymph node positive
LOH	: Loss of heterozygosity
LSA	: Lipid associated sialic acid
μM	: Micro molar
M	: Malignant
MMP-2	: Matrix metalloproteinase-2
MMP-9	: Matrix metalloproteinase-9
MoAb	: Monoclonal antibody
MP	: Mucoïd protein
MTP	: Microtitre plates
N	: Adjacent normal
Na₂CO₃	: Sodium carbonate
Na-K Tartarate	: Sodium potassium tartarate
NaN₃	: Sodium azide
NANA	: N-acetyl neuraminic acid
NaOH	: Sodium hydroxide
NBT	: Nitroblue tetrazolium
NED	: No evidence of disease
NFκB p65	: Nuclear factor kappa b-cells p65
NG	: Nuclear grade
NHT	: No habit of tobacco
NNAL	: 4 – methyl nitrosamino – 1 (3 pyridyl) – 1 – butanol
NNK 4	: Methylnitrosamino) -1 (3-pyridyl) – 1 butanone
NNN	: N – nitrosomonicotine
NP-40	: Non-iodet 40
NR	: Non responders
NS	: Non-significant
OSCC	: Oral squamous cell carcinoma
p53	: 53 kilo dalton protein
PAHs	: Polycyclic aromatic hydrocarbons
PBS-Tween 20	: Phosphate buffered saline
PMS	: Phenazonium methosulphate
PMSF	: Phenyl methazone sulfonyl chloride
pNPP	: p nitro phenyl phoshate
PT	: Untreated oral cancer patients
PTA	: Phosphotungstic acid
R.T	: Room temperature
Rb	: Retinoblastoma
RBC	: Red blood cells
RNS	: Reactive nitrogen species
ROC	: Receiver's Operating Characteristic Curve
ROS	: Reactive oxygen species
S.E.M.	: Standard error mean

SCC	: Squamous cell carcinomas
SDS-PAGE	: Sodiumdodecyl sulphate polyacrylamide gel electrophoresis
SEER	: Surveillance, epidemiology, and end results
-SH	: Thiol compounds
SMF	: Sub-mucous fibrosis
SOD	: Superoxide Dismutase
SPSS	: Statistical package for social sciences
SPTs	: Second primary tumours
SRL	: Sisco research laboratory
T	: Tumor size or depth
TBA	: Thio-barbituric acid
TBS	: Tris buffered saline
TCA	: Trichloroacetic acid
TEMED	: N, N, N', N' tetramethylene diamine
TGF-β	: Tumor growth factor-alpha
TIMP-1	: Tissue inhibitor of metalloproteinase-1
TIMP-2	: Tissue inhibitor of metalloproteinase-2
TMB	: 3-3',5-5' tetramethylbenzidine
TNM	: Tumor nodal metastasis
TRC	: Tobacco related cancers
TSA	: Total sialic acid
TSNA	: Tobacco specific nitrosamines
U.S.A	: United State of America
UK	: United Kingdom
UV	: Ultra violet
WHO	: World Health Organization
WHT	: With the habit of tobacco
ZnCl₂	: Zinc chloride