

ABBREVIATIONS

ALP	-	Alkaline Phosphatase
ATP	-	Adenosine Triphosphate
<i>bax</i>	-	Bcl-2-associated X protein
BBN	-	Berberine chloride
<i>bcl2</i>	-	B-cell lymphoma 2
CASP	-	Comet Assay Software Programme
<i>caspase</i>	-	cysteine-aspartic proteases
cdk	-	cyclin dependent kinase
cdki	-	cyclin dependent kinase inhibitors
cDNA	-	Complementary DNA
Cisplatin	-	Cis – Diamminedichloroplatinum
CK-MB	-	Creatine Kinase-MB
CK-NAC	-	N-acetyl-cystein-activated creatine kinase
<i>cox2</i>	-	Cyclooxygenase 2
CT	-	Threshold cycle
CuSO ₄	-	copper sulphate
DLA	-	Dalton's Lymphoma Ascites
DMEM	-	Dulbecco's Modified Eagle Medium
DMSO	-	Dimethyl Sulphoxide
DNA	-	Deoxy Ribonucleic Acid
dNTP	-	Deoxynucleotide
DOX	-	Doxorubicin
DPPH	-	1,1-diphenyl 2-picryl hydrazyl
DTT	-	Dithiothreitol
<i>egfr</i>	-	epidermal growth factor receptor
EtBr	-	Ethidium Bromide
FBS	-	Foetal Bovine Serum
FeCl ₂	-	Ferrous chloride
FeCl ₃	-	Ferric chloride
FTIR	-	Fourier transform Infra Red spectroscopy

<i>gapdh</i>	-	glyceraldehyde-3-phosphate dehydrogenase (gene)
GPx	-	Glutathione Peroxidase
GSH	-	Reduced Glutathione
GSSG	-	Oxidised Glutathione
H ₂ O ₂	-	Hydrogen Peroxide
H ₂ SO ₄	-	Sulphuric acid
HCl	-	Hydrochloric Acid
<i>hif-1α</i>	-	hypoxia-inducible factor – 1alpha
HOCL	-	Hypoclorous Acid
hr(s)	-	hour(s)
KCl	-	Pottassium Chloride
KH ₂ PO ₄	-	potassium dihydrogen phosphate
LDH	-	Lactate Dehydrogenase
MDA	-	Malondialdehyde
min	-	minute
ml	-	millilitre
MMLV	-	Moloney Murine Leukemia Virus
<i>mmp2</i>	-	matrix metalloproteinases
MRI	-	Magnetic Resonance Imaging
Na ₂ CO ₃	-	sodium carbonate
Na ₂ HPO ₄	-	disodium hydrogen phosphate
NaCl	-	Sodium Chloride
NaN ₃	-	Sodium Azide
NBT	-	Nitroblue Tetrazolium
NO	-	nitric oxide
NP	-	Nanoparticle
PBS	-	Phosphahate Buffered Saline
POES	-	Polyoxyethyl stearate
PEG	-	Poly Ethylene Glycol
qRT-PCR	-	Quantitative real time polymerase chain reaction

RNA	-	Ribonucleic Acid
RT	-	room temperature
RT-PCR	-	Reverse transcriptase polymerase chain reaction
SABS	-	Small Animal Breeding Section
SAN	-	Sanazole
SD	-	standard deviation
sec	-	second
SGOT	-	Serum Glutamate Oxaloacetate Transaminase
SGPT	-	Serum Glutamate Pyruvate Transaminase
SOD	-	Superoxide Dismutase
Taq	-	<i>Thermus aquaticus</i>
TBA	-	Thiobarbituric acid
TCA	-	Trichloroacetic acid
TEM	-	Transmission Electron Microscopy
TME	-	Tumor microenvironment
<i>tnf- α</i>	-	tumor necrosis factor – alpha
<i>vegf</i>	-	vascular endothelial growth factor
XRD	-	X-Ray diffraction
μl	-	microliter
μm	-	micrometer