

LIST OF SYMBOLS AND ABBREVIATIONS

< - Less than

>- More than

°C- Degree centigrade

5-FU - 5-fluorouracil

ACP- Acid phosphatase

AuNPs - Gold nanoparticles

AuNPI3Cs – Gold nanoparticles synthesized from indole-3-carbinol

ALP- Alkaline Phosphatase

ANOVA - Analysis of Variance

AO-EtBr – Acridine Orange - Ethidium Bromide

ATP-Adenosine tri phosphate

BCIP - 5-Bromo-4-chloro-3-indolyl phosphate

BSA- Bovine Serum Albumin

BSLT - Brine shrimp lethality test

CAT- CATALASE

CDNB- 1-Chloro- 2,4-Dinitrochlorobenzene

COCl₂- Cobalt chloride

CPCSEA - Purpose of Control and Supervision of Experiments on Animals

CuSO₄, 5H₂O- Copper Sulphate

DAPI - 4',6-diamidino-2-phenylindole

DLA - Dalton's lymphoma ascites

DMSO - Dimethyl sulfoxide

DMEM- Dulbecco's modified Eagle's medium

DNA – Deoxyribonucleic acid

DNPH- 2,4Dinitrophenylhydrazane
DPPH - 2, 2-diphenyl-1- picrylhydrazyl
DTNB- 5,5'-dithiobis-(2-nitrobenzoic acid)
DTPA - Diethylene-tri-amine-pentaacetic acid
EAC - Ehrlich ascites carcinoma
EDTA- Ethylene diaminetetraacetic acid
ELISA – Enzyme linked immunosorbent assay
EtBr - Ethidium bromide
FBS - Fetal bovine serum
FC - Folin-Ciocalteu
FeCl₃ – Ferric chloride
FITC - Fluorescein isothiocyanate
GPx- Glutathione peroxidase
GR- Glutathione reductase
GSH- Reduced Glutathione
GSSG- Glutathione di sulfide
GST- Glutathione-S-transferase
H and E - Haematoxylin and eosin
H₂DCFDA – 2', 7'-dichlorodihydrofluorescein diacetate
H₂O₂- Hydrogen peroxide
H₂SO₄- Sulphuric Acid
HAI – Head area intensity
Hb - Haemoglobin
HCL – Hydrochloric acid
HCOOH - Formic acid

HLC – Human lymphocyte cells
HOCl - Hypochlorous acid
HPV – Human papilloma virus
HRBC - Human red blood cell
IC50 – Inhibitory concentration
IMDM- Iscove's modified Dulbecco's medium
IR - Infra-red
KBr – Potassium bromide
KCl - Potassium chloride
KNO₂ - Potassium nitrite
LDH - Lactate dehydrogenase
MDA- Malondialdehyde
MLCs - Mice lymphocyte cells
MMP-Mitochondrial membrane potential
MnO₂ - Manganese dioxide
MPO - Myeloperoxide
MST - Mean survival time
MTT - 3-(4,5-dimethyl-2-thiazolyl)- 2,5-diphenyl-tetrazolium bromide
Na₂CO₃ – Sodium carbonate
Na₂HPO₄ - Di sodium hydrogen phosphate
NaCl – Sodium chloride
NADH – Nicotinamide adenine dinucleotide
NaF- Sodium fluoride
Na-K- Sodium-Potassium tartarate
NaOH- Sodium hydroxide

NBT – Nitro-blue tetrazolium

NBT-BCIP - Nitro-blue tetrazolium and 5-bromo-4-chloro-3'-indolyphosphate

NMR - Nuclear Magnetic Resonance

NO – Nitric oxide

OECD - Economic Cooperation and Development

OH - Hydroxyl radicals

ONOO- - Peroxynitrite

PBS- phosphate-buffered saline

PCV - Packed cell volume

PI - Propidium Iodide

PMS – Phenazine methosulfate

PNP- Para nitro phenol

PNPP- Paranitro phenol Phosphate

PVDF - Polyvinylidenedifluoride

RBC – Red blood cell

RIPA – Radioimmuno precipitation assay buffer

RNA – Ribonucleic acid

ROS-Reactive oxygen species

RPMI – Roswell Park Memorial Institute

SDS – Sodium dodecyl sulphate

SEM – Standard Error of Mean

SEM- Scanning electron microscope

SGOT- Serum glutamic-oxaloacetic transaminase

SGPT- Serum glutamic pyruvic transaminase

SOD- Super oxide dismutase

TAI - Tail area intensity

TBA- Thiobarbaturic acid

TBST - Tris-buffered saline (TBS) and Polysorbate 20 (tween-20)

TCA- Trichloroacetic acid

TNB - 2-nitrobenzoic acid

TNF α - Tumor necrotic factor

μ g- Microgram

μ l- Microliter

μ M- Micro molar