

List of Abbreviations

A549 - Adenocarcinomic Human Alveolar Basal Epithelial Cells	CAFs - Cancer-Associated Fibroblasts
AAR - Age Adjusted Rates	CBD (Polyphenols) - Cannabidiol
ALDH1 - Aldehyde Dehydrogenase 1	CBT - Cognitive Behavioural Therapy
ALL - Acute Lymphoblastic Leukemia	CCRF - Code Of Conduct For Responsible Fisheries
Annexin V/PI - Annexin V/Propidium Iodide	CD44 - Cell Surface Adhesion Receptor44
AO/PI - Acridine Orange/ Propidium Iodide	CEM - Commission On Ecosystem Management.
AP 1 - Activator Protein-1	c-flip - Cellular FLICE-Inhibitory Protein
Apaf-1 - Apoptotic Protease Activating Factor	CHO - Chinese Hamster Ovary
APL - Acute Promyelocytic Leukemia	Ciap-1 - Cellular Inhibitor Of Apoptosis Protein-1
ASIR - Age-Standardized Incidence Rate	Cip1 – CDK Interacting Protein
ASMR - Age-Standardized Mortality Rate	c-MYC - Cellular Myelocytomatosis Oncogene
ATP- Adenosine Triphosphate	COLO 320- Colon Cancer Cell Line
Bax - Bcl-2-Associated X Protein	Colo-205 – Human Colon Carcinoma Cell Line
BBM- Berbamine Dihydrochloride	COLO320 – Colorectal Cancer Cell Lines
BC - Breast Cancer	COX – 2 -Cyclooxygenases 2
Bcl-2 - B-Cell Lymphoma 2	CSCs - Cancer Stem Cells
Bcl-XL - B-Cell Lymphoma-Extra Large	CSFs - Colony-Stimulating Factors
BCSCs - Breast Cancer Stem Cells	CTCs - Circulating Tumor Cells
<i>BRCA1 – Breast Cancer Gene 1</i>	CXCL 12 - C-X-C Chemokine Receptor 12
BT-20 - Breast Cancer Cell Line	CXCL 2 – Chemokine (C-X-C Motif) Ligand 2
C6 - Component 6	

CXCL 5 – Chemokine (C-X-C Motif)
Ligand 5

CXCR4 - Chemokine (C-X-C Motif)
Ligand 4

CYFRA 21-1 Cytokeratin 19 Fragment

DAL - Dalton's Ascetic Lymphoma

Damps - Damage Associated Molecular
Patterns

DCFDA-2',7'-
Dichlorodihydrofluorescein Diacetate

DCIS - Ductal Carcinoma in Situ

DISC - Death Inducing Signalling
Complex

DNA- Deoxy Ribonucleic Acid

DPPH - 2,2-Diphenylpicrylhydrazyl

E1- Estrone

E2- Estradiol

ECM - Extracellular Matrix

EGCG - Epigallocatechin-3-Gallate

EGF – Epidermal Growth Factor

EMT - Epithelial To Mesenchymal
Transition

EO771 - Murine Mammary Cancer Cell
Line

ER - Estrogen Receptor

ER/PR +ve - Estrogen Receptors/
Progesterone Receptors Positive

ER/PR -ve - Estrogen Receptors/
Progesterone Receptors Negative

ER+ - Estrogen Receptor

ERK - Extracellular Signal-Regulated
Kinase

ER- α - Estradiol Receptor α

FADD - Fas-Associated Death Domain

Fas L – Faciclin like domain

FTIR - Fourier Transform Infrared

GC/MS – Gas Chromatography/ Mass
Spectrometry

GSH - Glutathione

GSHpx-Seleno-Glutathione Peroxidase

HCT-116 - Human Colon Cancer Cell
Line

Hela - Henrietta Lacks

Hep G2 - Human Hepatoma

HepG2 - Hepg2 A Human Liver
Cancer Cell Line.

HER-2 - Human Epidermal Growth
Factor Receptor 2

HER2 - Growth Factor Receptor

HER-2/PI-3K/AKT - Human
Epidermal Growth Factor Receptor
2/Phosphoinositide 3-Kinases

HIF-1 α - Hypoxia Inducible Factor 1
Subunit Alpha

HL60 - Human Promyelocytic
Leukemia Cell Line (HL-60)

HL60/MX1- Human Promyelocytic
Leukemia Cell Line (HL-60)/
Interferon-Induced GTP-Binding
Protein Mx1

HL60/MX2 - Human Promyelocytic
Leukemia Cell Line (HL-60)/
Interferon-Induced GTP-Binding
Protein Mx2

HOP-62-Lung Cancer Cell Line

HRLC-MS - Liquid Chromatography-Mass Spectrometry

HSC-3 - Human Oral Squamous Carcinoma Cell Line

HT1080 - A Fibrosarcoma Cell Line

HT29 - Human Colorectal Adenocarcinoma Cell Line

HUVEC-Lines - Human Umbilical Vein Endothelial Cells

IAPs - Inhibitors Of Apoptosis

IBC - Inflammatory Breast Cancer

IC50 - Half-Maximal Inhibitory Concentration

ICAM-1 - Intercellular Adhesion Molecule

IDC - Invasive Or Infiltrating Duct Carcinoma

IFNs – Interferons

IGR-OV-1 - Human Ovarian Cancer Cells

IL-1 β - Interleukin-1 Beta

IL-6 - Interleukin 6

ILC - Invasive Lobular Carcinoma

ILs – Interleukins

IMR-32 - Institute For Medical Research-32

INOS - Inducible Nitric Oxide Synthase

IR - Infrared

JNK - C-Jun N-Terminal Kinase

KATO III - KATO III Human Gastric Cancer Cell Line

K-Ras - Kirsten Rat Sarcoma Viral Oncogene Homolog

L1210 – Murine Leukemia cell line

LCIS - Lobular Carcinoma In Situ

LC-MS – Liquid Chromatography-Mass Spectrometry

LC-MS/QTOF-Liquid Chromatography Quadrupole Time Of Flight Mass Spectroscopy

Lncap - Lymph Node Carcinoma Of The Prostate

LOX - Lipoxygenase

LPS – Lipopolysaccharide

MAPK – Mitogen-Activated Protein Kinase

MCF10A - MCF10A Human Breast Epithelial Cells

MCF-7 – Michigan Cancer Foundation-7

MDA-MB-231 - Metastatic Breast 231.

MDM2 - Mouse Double Minute 2 Homolog

MDR - Multidrug Resistance

MDCS - Myeloid-Derived Suppressor Cells

MG-63 - Human Osteoblast-Like Cells

MIF - Migration Inhibitory Factor

MMP-2 - Matrix Metalloproteinases-9

MMP9 - Matrix Metalloproteinases-9

MMPs - Matrix Metalloproteinases

MPTP- Mitochondrial Permeability Transition Pores

mRNA- Messenger RNA	PlGF - Placental Growth Factor
mTNF- α -Membrane Bound Tumor Necrosis Factor (TNF)-A	PR – Progesterone Receptor
mTOR- Mammalian Target Of Rapamycin ignaling Pathway	PTP- Permeability Transition Pores
NADPH - Nicotinamide Adenine Dinucleotide Phosphate	Ras- EKR- MAPKs - Rat Sarcoma/Electrokinetic Remediation/Mitogen-Activated Protein Kinase
NCI-H322-Human Primary Bronchioalveolar Carcinoma cell line	RIP - Ribosome-Inactivating Proteins
NCRP – National Council On Radiation Protection And Measurements	RIP 1 - Receptor-Interacting Protein Kinase 1
NF- κ B - Nuclear Factor Kappa B	RIP1- Receptor-Interacting Protein Kinase 1
NIH - National Institutes Of Health	RIRR- ROS-Induced ROS Release
NLRX1 - Nucleotide-Binding, Leucine-Rich Repeat Containing X1	RNA- Ribonucleic Acid
P38-MAPK - Mitogen-Activated Protein Kinase	RNS- Reactive Nitrogen Species
P53 - Tumor Protein P53	ROS – Reactive Oxygen Species
PAMPs - Pathogen-Associated Molecular Patterns	SCC-Ag - Serum Squamous Cell Carcinoma Antigen
PARP - Poly (ADP-Ribose) Polymerases	SEC6 –Exocyst Complex
PARPc/PARP - Poly-ADP Ribose Polymerase	SFLT1 - Circulating Soluble Fms-Like Tyrosine Kinase-1
PBCRs - Population Based Cancer Registry	SMMC7721 - Human Hepatoma Cell Line
PC-3 - Human Prostate Cancer Cell Line	SNAP29 - Synaptosome Associated Protein 29
PC-3 - Prostate Carcinoma	sTNF- α - Soluble Tumor Necrosis Factor (TNF)-A
PD-L1 - Programmed Death-1 (PD-1) Ligand 1	SV40- Simian Virus 40
PI3K - Phosphoinositide 3-Kinases	T47D - Human Breast Cancer Cell Line
PKC - Protein Kinase C	TACE -TNF- α Converting Enzyme
	TAMs - Tumor Associated Macrophages

TGFs – Tumor Growth Factors

TGF- β - Transforming Growth Factor - β

Th2 Cells - Type II Helper T Cells

THP-1 - Human Monocytic Cell Line

TLC – Thin Layer Chromatography

TME - Tumor Microenvironment

TMRM - Tetramethyl- Rhodamine Methyl Ester Perchlorate

TNBC - Triple-Negative Breast Cancer

TNFR1 - TNF Receptor Associated Factor1

TNF-R1 - Tumor Necrosis Factor Receptor 1

TNFR2 - TNF Receptor Associated Factor 2

TNFs – Tumor Necrosis Factors

TNFSF - Tumor Necrosis Factor Superfamily

TNF- α - Tumor Necrosis Factor - α

TP53 - Tumor Protein 53

TRADD – TNF Receptor-Associated Protein with Death Domain

TRAIL – TNF-Related Apoptosis-Inducing Ligand

U87MG - Uppsala 87 Malignant Glioma

UKFNB - Human Neuroblastoma cell line

VAMP8 - Vesicle Associated Membrane Protein 8

VEGF - Vascular Endothelial Growth Factor

VEGFR2 - Vascular Endothelial Growth Factor Receptor 2

Wnt/B-Catenin - Wingless-Related Integration Site/ B-Catenin

ZR-75 - Epithelial Cell Line