

List of Abbreviations

ALK	Anaplastic lymphoma kinase
ATP	Adenosine triphosphate
AO	Acridine orange
APS	Ammonium Persulphate
ASCT	Autologous stem cells transplantation
BAD	BCL2 Associated Agonist of Cell Death
BCA	Bicinchoninic acid
BCL-2	B-cell leukemia/lymphoma 2 protein
BMP	Bone morphogenetic proteins
bp	Base pair
BSA	Bovine serum albumin
CBB	Coomassie brilliant blue
cDNA	Complementary DNA
CDK	Cyclin Dependent Kinase
CLL	Chronic lymphocytic leukemia
CT	Cycle threshold
DEPC	Diethylpyrocarbonate
DMSO	Dimethyl sulfoxide
DNA	Deoxyribonucleic acid
ECL	Enhanced chemiluminescence
E-Cadherin	Epithelial Cadherin
EGF	Epidermal Growth Factor
EGFR	Epidermal Growth Factor Receptor
EMT	Epithelial-to-Mesenchymal transition
MET	Mesenchymal-to-Epithelial transition
ERK	Extracellular signal regulated kinase
EtBr	Ethidium bromide
ETMRs	Embryonal tumors with multi-layered rosettes
FACS	Fluorescent assorted flow cytometry
FBS	Fetal bovine serum
FGF	Fibroblast growth factor
GAA	Glacial Acetic Acid

GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
GD2	Disialoganglioside
GH	Growth hormone
GSK-3 β	Glycogen synthase kinase-3 β
H ₂ O ₂	Hydrogen peroxide
HCl	Hydrochloric acid
HER-2	Human epidermal growth factor receptor 2
HGF	Hepatocyte growth factor
HRP	Horse radish peroxide
HSP	Heat Shock Protein
HSP-90	Heat Shock Protein-90
IC	Induction chemotherapy
IC ₅₀	Half maximal inhibitory concentration
ICC	Immunocytochemistry
IGF	Insulin-like growth factor
IGFBPs	IGF-binding proteins
IGFBP 1	IGF-binding proteins 1
IGFBP 2	IGF-binding proteins 2
IGF-I	Insulin-like growth factor type I
IGF-II	Insulin-like growth factor type II
IGF-IIR	Insulin-like growth factor type II receptor
IGF-IR	Insulin-like growth factor type I receptor
IgG	Immunoglobulin G
IR	Insulin Receptor
IRS	Insulin receptor substrate
IRS 1	Insulin receptor substrate 1
IRS 2	Insulin receptor substrate 2
IRS 1/2	Insulin receptor substrate $\frac{1}{2}$
IUPAC	International Union of Pure & Applied Chemistry

JAK	Janus kinase
Let-7	Lethal-7
mAb	Monoclonal antibodies
MAPK	Mitogen-activated protein kinase
MEM/F-12	Minimum essential media/Nutrient Mixture F-12
miRNA	Micro RNA
mRNA	Messenger RNA
miRdb	miRdatabase
mTOR	Mammalian target of rapamycin
mTOR C1	Mammalian target of rapamycin Complex 1
mTOR C2	Mammalian target of rapamycin Complex 2
MTT	3-(4, 5-dimethylthiazol-2-yl)-2, 5-diphenyltetrazolium bromide
NaCl	Sodium chloride
NB	Neuroblastoma
NCCS	National centre for cell sciences
NCCs	Neural Crest Cells
NF- κ B	Nuclear factor kappa light chain enhancer of activated B cells
NGF	Nerve Growth Factor
NSCLC	Non-small cell lung cancer
OD	Optical density
PAGE	Polyacrylamide gel electrophoresis
PBS	Phosphate buffered saline
PBS-T	Phosphate buffered saline with Tween
PDGF	Platelet-derived growth factor
PDK1	Pyruvate dehydrogenase kinase 1
PHOX2B	Paired-like homeobox 2B
PI3K	Phosphatidylinositol-3-kinase
PIP2	Phosphatidylinositol 4,5-bisphosphate
PIP3	Phosphatidylinositol (3,4,5)-trisphosphate
pIGF-IR	Phosphorylated Insulin Growth Factor- Insulin Receptor
PPP	Picropodophyllotoxin
PS	Phosphatidyl serine

PSG	Primary sympathetic ganglia
PVDF	Polyvinylidene fluoride
RAS	Rat sarcoma viral protein
RAF	Rapidly accelerated fibrosarcoma
RIPA	Radio-immunoprecipitation assay
RNA	Ribonucleic acid
RPM	Revolutions per minute
RT-PCR	Real time-Polymerase chain reaction
RTK	Receptor Tyrosine Kinase
SD	Standard deviation
SEM	Standard Error Mean
SDS	Sodium dodecyl sulphate
STAT	Signal transducer and activator of transcription
STAT 3	Signal transducer and activator of transcription 3
TBS	Tris buffered saline
TBS-T	Tris buffered saline with Tween
TEMED	Tetramethylethylenediamine
TGF	Transforming growth factor
Th	Tyrosine hydroxylase
TK	Tyrosine kinase
TKI	Tyrosine kinase inhibitors
TNF	Tumor Necrotic Factor
UTR	Untranslated region
VEGF	Vascular endothelial growth factor
w/v	Weight by volume
WB	Western Blotting
ZEB 1	Zinc Finger E-box Binding Homeobox-1
ZEB 2	Zinc Finger E-box Binding Homeobox-2