

ABBREVIATIONS

μl	Microlitre
μg	microgram
5-aza-dC	5-Aza-2'-deoxycytidine
A	Absorbance
A	Adenosine triphosphate
AA	Amino acid
AAR	Age Adjusted Incidence Rates
AJCC	American Joint Committee on Cancer
APC	Adenomatous Polyposis Coli
APS	Ammonium Per Sulphate
ASR	Age-standardised incidence rates
ATF	Activating transcription factor
ATF2	Activating transcription factor 2
ATM	Ataxia telangiectasia Mutated
ATP	Adenosine triphosphate
Bcl2	B-cell leukemia 2 oncogene
BER	base-excision repair
BRCA1	Breast cancer susceptibility gene 1
BRCA2	Breast cancer susceptibility gene 2
BRCT	BRCA1 C Terminus
BSA	Bovine Serum Albumin
C	Cytosine
cdc	Cell division control (genes or protein)
CDH1	Cadherin-1

cdk/CDK	Cyclin dependent kinase
c-DNA	Complementary DNA
CIA	Chloroform isoamyl alcohol
COBRA1	Cofactor of the breast cancer susceptibility gene 1
CREB	<i>cAMP response element-binding</i> protein
C-terminal	Carboxyl terminal
DAB	Diamino Benzidine
DAPK	Death Associated Protein Kinase
dATP	Deoxyadenosine triphosphate
DBD	DNA/DSS1-binding domain
DCIS	Ducal carcinoma in-situ
DCIS	Ductal Carcinoma In Situ
dCTP	Deoxycytosine triphosphate
DEPC	Diethyl pyrocarbonate
dGTP	Guanosine Tri Phosphate
DMEM	Dulbecco's Modified Eagle's Medium
DNA	Deoxyribonucleic Acid
DNA	Deoxyribonucleic Acid
DNMT	DNA Methyl Transferase
dNTP	Deoxyribonucleotide phosphate
DTT	Dithiothreitol
dTTP	Deoxythymidine Triphosphate
ECAD	E-cadherin
ECL	Enhanced Chemiluminescence
EDTA	Ethelynediamine Tetraacetic acid
EGF-R	Epidermal Growth Factor Receptor

ER	Estrogen receptor
ERE	Estrogen response element
ERK	Extracellular signal-regulated kinase
EtBr	Ethidium Bromide
EtOH	Ethanol
FDA	U. S. Food and Drug Administration
G	Gram
G	Guanine
G0	Quiescent gap phase of cell cycle
G1	Gap phase of cell cycle before DNA replication
G2	Gap phase of cell cycle before mitosis
GF	Growth factor
GST	Glutathione-S-transferase
HAT	Histone Acetyltransferase
HBCR	Hospital Based Cancer Registry.
HDAC	Histone Deacetylase
HEPES	4-(2-Hydroxyethyl) piperazine-1 ethane sulphonic acid
HER2	Human Epidermal Growth Factor Receptor 2
HIC1	Hypermethylated in cancer-1
HRP	Horseradish Peroxidase
HRT	Hormone Replacement Therapy
IAP	Inhibitor of apoptosis
IARC	International Agency for Research on Cancer
ICAM-1	Intracellular cell adhesion molecule-1
ICMR	Indian Council of Medical Research
IDC	Invasive Ductal Carcinoma

Ig	Immunoglobulin
IHC	Immunohistochemistry
ILC	Invasive Lobular Carcinoma
Kb	Kilobases
KCl	Potassium Chloride
kD	Kilodalton
LCIS	Lobular Carcinoma In Situ
LOH	Loss of heterozygosity
M	Molar
MAP	Mitogen-activated protein
MBD	Methyl-CpG-binding Domain
MDR	Multiple-drug resistance
MeCP1	Methyl-CpG-binding Domain Protein 2
MEK	MAPK/ERK kinase
MEKK-1	MAPK kinase kinase-1
mg	Milligram
MgCl ₂	Magnesium chloride
MGMT	O-6-methylguanine-DNA Methyltransferase.
Min	Minute
miRNA	Micro RNA
ml	Milliliter
MLH1	MutL homolog 1
mM	Millimolar
MMP	Matrix metalloproteinase
MSP	Methylation Specific PCR
MTT	3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium

Myc	Myelocytomatosis viral oncogene homolog
NaCl	Sodium chloride
NaHSO ₃	Sodium Bisulfite
NaOH	Sodium hydroxide
N-CoR	Nuclear Receptor Co-Repressor 1
NCRP	National Cancer Registry Programme
NER	nucleotide excision repair
NIH	National Institute of Health
nm	Nanometre
ORF	Open Reading Frame
PAGE	Polyacrylamide Gel Electrophoresis
PBCR	Population based Cancer Registry
PBS	Phosphate Buffered Saline
PBS-T	Phosphate buffer saline- tween 20
PCR	Polymerase chain reaction
PI	Protease Inhibitors
PI	propidium iodide
PK	Protein kinase
PKB/Akt	Protein kinase B
PKC	Protein kinase C
P-MAPK	Phosphorylated MAPK
PMSF	Phenyl methyl sulphonyl fluoride
PNK	Poly nucleotide kinase
POZ	Pox virus and Zinc finger
PR	Progesterone receptor
pRb	Retinoblastoma tumor suppressor protein

PTEN	Phosphatase and Tensin Homolog
PVDF	Polyvinyl difluoride
RAR	Retinoic Acid Receptor
Rb	Retinoblastoma
RNA	Ribonucleic acid
Rpm	Revolutions per minute
RR	Relative risk
rRNA	Ribosomal RNA
RT	Room temperature
S	Second
SDS	Sodium Dodecyl Sulphate
SDS-PAGE	Sodium dodecyl sulfate-polyacrylamide gel electrophoresis
S-phase	DNA replication or synthesis phase of the cell cycle
SSC	Sodium Saline Citrate
T	Thymine
TAE	Tris Acetate EDTA
TBE	Tris Borate EDTA
TE	Tris EDTA
TEMED	N,N,N,N, tetramethylethylenediamine
TIMP-3	Tissue Inhibitor of Metalloproteinases-3
TRIS	Tris NaCl-EDTA Buffer
TRIZMA	Tris(hydroxymethyl) aminomethane
tRNA	Transfer RNA
TSG	Tumor Suppressor Gene
UV	Ultraviolet

V	Volt
VCAM-1	Vascular cell adhesion molecule-1
VHL	Von Hippel–Lindau
W	Watt