

ABBREVIATIONS

ACE	Angiotensin converting enzyme
AChE	Acetylcholine esterase
AIRE	Autoimmune regulatory region
AIS	Autoimmunity Susceptibility locus
APS	Ammonium persulfate
ASIP	Agouti signalling protein
ATChI	Acetylthiocholine iodide
BH ₄	Tetrahydrobiopterin
bp	base pair (s)
bp	Base pairs
CAT	Catalase
CD	cluster of differentiation
CDNB	1 Chloro 2,4 dinitro benzene
CLEC11A	C-type Lectin Domain Family 11, Member A
COMT	Catechol O methyl transferase
CTLA 4	Cytotoxic T lymphocyte antigen 4
DAB	Diaminobenzidine
DDR1	Discoidin domain receptor tyrosine kinase 1
DOPA	dihydroxyphenylalanine
DTNB	5-5' Dithiobis (2-nitrobenzoic) acid
DTT	Dithiothreitol
EDTA	Ethylene diamine tetra acetic acid
EDTA	Ethylene diamine tetra acetic acid
EGF	Epidermal growth factor
EGTA	Ethylene glycol-O, - O-bis (2 aminoethyl) N,N,N',N' tetra acetic acid
ESRI	Estrogen receptor gene 1

FOXD3	Forkhead box D3
G6PDH	Glucose 6 phosphate dehydrogenase
G6PO ₄	Glucose 6 phosphate
GPX	Glutathione peroxidase
GR	Glutathione reductase
GSH	Reduced glutathione
GSSG	Oxidised glutathione
GST	Glutathione S Transferase
GWAS	Genome-wide association studies
HEPES	N-2-hydroxyethyl piperazine-N-2-ethane sulphonic acid
HGH	Human growth factor
HRP	Horse radish peroxidase
ICAM	Intercellular adhesion molecules
kb	kilobase (s)
KDa	Kilodalton
kDa	Kilodalton
KIT	tyrosine kinase receptor
LMP	Low molecular weight protein
LMP	Low molecular weight protein polypeptide
LPO	Lipid peroxidation
MC1R	Melanocortin-1 receptor
MCHR 1	melanin concentrating hormone receptor 1
MDA	Malondialdehyde
mM/M	Millimolar/Molar
MYG1	Melanocyte proliferating gene 1
NADH	Nicotinamide adenine dinucleotide (reduced)
NADP	Nicotinamide adenine dinucleotide phosphate

NADPH	Nicotinamide adenine dinucleotide phosphate (reduced)
NBT	Nitro blue tetrazolium chloride monohydrate
ng	Nanogram
nm	Nanometer
NPY	Neuropeptide Y
NSV	Non-segmental vitiligo
OD	Optical density
OD	Optical Density
PAGE	Polyacrylamide Gel Electrophoresis
PBS	Phosphate buffered saline
PCR	Polymerase Chain Reaction
PDGF	Platelet-derived growth factor
PMS	Phenazine methosulphate
PMSF	Phenylmethane sulphonyl fluoride
PVDF	Polyvinylidene fluoride
RFLP	Restriction fragment length polymorphism
RNS	Reactive nitrogen species
ROS	Reactive oxygen species
rpm	Revolutions per minute
SDS	Sodium dodecyl sulphate
SLEV1	Vitiligo related systemic lupus erythematosus gene
SOD	Superoxide dismutase
SV	Segmental vitiligo
TAE	Tris acetate EDTA
TAP	Transporter associated with antigen processing protein
TAP	Transporter associated with antigen processing protein

TBA	Thio barbituric acid
TBE	Tris borate EDTA
TCA	Trichloroacetic acid
TEMED	N,N,N',N' Tetramethyl ethylenediamine
TGF- β	Transforming growth factor- β
TMB	Tetra methyl bezidine
TMP	Tetra methoxy propene
TNF	Tumor necrosis factor
Tris	Tris (hydroxymethyl) aminomethane buffer
TRP-1	Tyrosinase-related protein-1
XO	Xanthine oxidase
μ L/mL	Microlitres/millilitres

Note: The full forms of several rarely used abbreviations have been described within the text.