ABBREVIATIONS

3'UTR	3'-untranslated region
5,6-DHI	Dihydroxyindole
5,6-DHICA	Dihydroxyindole carboxylic acid
5'UTR	5'untranslated region
6-ANAD	6-amino nicotinamide
8-OHdG	8-hydroxydeoxyguanosine
AChE	Acetylcholine esterase
AIS1	Autoimmunity susceptibility locus 1
ARMS-PCR	Amplification refractory mutation system-polymerase chain reaction
AV	Active vitiligo
BH_4	Tetrahydrobiopterin
bp	Base pair (s)
CAF1	Chromatin assembly factor 1
CAMK1D	Calcium/calmodulin-dependent protein kinase ID
CAT	Catalase
CI	Confidence interval
CRT	Calreticulin
CSA	Complex segregation analysis
CXCL	Chemokine (C-X-C motif) ligand
CXCR	Chemokine (C-X-C motif) receptor
CYP	Cytochrome *P*450
DHPR	Dihydropteridinereductase

DMSO	Dimethyl sulfoxide
DOPA	Dihydroxyphenylalanine
DTNB	5-5’ dithiobis (2-nitrobenzoic) acid
ECSOD	Extracellular SOD
EDN1	Endothelin 1
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
eIF	Eukaryotic initiation factor
EIF2AK1	Eukaryotic translation initiation factor 2-alpha kinase 1
eNOS	Endothelial nitric oxide synthase
ER	Endoplasmic reticulum
EZR	Ezrin
FMRP1	Fragile X mental retardation protein
FOXO	Forkhead class O
FT	Fourier Transform
G6PD	Glucose 6 phosphate dehydrogenase
$G6PO_4$	Glucose 6 phosphate
GPX	Glutathione peroxidase
GR	Glutathione reductase
GSH	Reduced glutathione
GSSG	Oxidized glutathione
GST	Glutathione S Transferase

GTP	Guanosine triphosphate
GV	Generalized vitiligo
GWAS	Genome-wide association studies
H_2O_2	Hydrogen peroxide
Hb	Hemoglobin
HEPES	N-2-hydroxyethly piperazine-N-2-ethane sulphonic acid
HGH	Human growth factor
HLA	human leucocyte antigen
HMGA2	high mobility group A2 protein
HO1	Hemeoxygenase 1
HSP	Heat shock protein
HWE	Hardy-Weinberg equilibrium
ICAM	Intercellular adhesion molecule-1
IFNG	Interferon-γ
IL	Interleukin
JAK-STAT	Janus kinase-signal transducer and activator of transcription
kb	kilobase (s)
KDa	Kilo dalton
LAMP1	Lysosome-associated membrane protein 1
LD	Linkage disequilibrium
LFA	Leucocyte fusion-associated molecule
LMP	Low molecular weight polypeptide
LPO	Lipid peroxidation
LV	Localized vitiligo

MC1R	Melanocortin 1 receptor
MDA	Malondialdehyde
MHC	major histocompatibility complex
miRISC	miRNA RNA- induced silencing complex
miRNA	MicroRNA
MITF	Microphthalmia transcription factor
mM/M	millimolar/Molar
MnSOD	Manganese superoxide dismutase
mRNA	Messenger RNA
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5- diphenyltetrazolium salt
NADH	Nicotinamide adenine dinucleotide (reduced)
NADP	Nicotinamide adenine dinucleotide phosphate
NADPH	Nicotinamide adenine dinucleotide phosphate (reduced)
NBT	Nitro blue tetrazolium chloride monohydrate
NCC	Neural crest cells
NFκB	Nuclear factor kappa-light-chain-enhancer of activated B cells
ng	Nanogram
NHM	Normal human melanocytes
NLRP1	NACHT leucine-rich repeat protein 1
nm	Nanometer
NOX	NADPH oxidases
NSV	Non-segmental vitiligo
OD	Optical density
OR	Odds ratio

PABP	Poly(A)- binding protein
PAGE	Polyacrylamide Gel Electrophoresis
PARP	Poly (ADP-ribose) polymerase
PBMC	Peripheral blood mononuclear cells
PBS	Phosphate buffered saline
PCR	Polymerase Chain Reaction
PCR-RFLP	Polymerase chain reaction-restriction fragment length polymorphism
pDC	Plasmacytoid dendritic cells
PDGF	Platelet-derived growth factor
PDGFRB	Platelet-derived growth factor receptor β
PGC-1α	Peroxisome proliferator-activated receptor gamma coactivator 1-alpha
PI3K	Phosphoinositide-3-kinase
POLH	Polymerase (DNA directed), eta
PRDXs	Peroxiredoxins
PTPN22	Protein tyrosine phosphatase, non-receptor type 22
PUVA	Psoralen and Ultraviolet A
RFLP	Restriction fragment length polymorphism
RMSD	Root mean square deviations
RMSF	Root mean square fluctuations
RNS	Reactive nitrogen species
ROCK1	Rho-associated, coiled-coil containing protein kinase 1
ROS	Reactive oxygen species
RPE	Retinal pigmented epithelium

rpm	Revolutions per minute
rRNAs	ribosomal RNAs
SDS	Sodium dodecyl sulphate
SeC	Seleno-Cysteine
SERP1	Stress-associated endoplasmic reticulum protein
SIRT1	Sirtuin 1
SLE	Systemic lupus erythematosus
SNP	Single nucleotide polymorphism
SOD	Superoxide dismutase
SV	Stable Vitiligo
TAE	Tris acetate EDTA
TAP	Transporter associated with antigen processing
TBA	Thiobarbituric acid
TBE	Tris borate EDTA
TCA	Trichloroacetic acid
TEMED	N,N,N',N' tetramethylethylenediamine
TGFβ	Transforming growth factor β
TLDA	TaqMan® Low Density Array
TMB	Tetra methyl bezidine
TMP	Tetra methoxy propene
TNFA	Tumour necrosis factor-*α*
TNFB	Tumor necrosis factor-β
TRBP	Transactivating response RNA-binding protein
Tregs	Regulatory T cells

Tris	Tris (hydroxymethyl) aminomethane
TRPM1	Transient receptor potential melastatin 1
TYR	Tyrosinase
TYRP1	Tyrosinase related protein 1
U	Unit
UPR	Unfolded Protein Response
UVB	Ultraviolet B
WHO	World Health Organization
XO	Xanthine oxidase
α-MSH	Melanocyte Stimulating Hormone
μg/mg	Micro gram/ milligram
μL/mL	Micro litre/ millilitre

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