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List of abbreviations

ADA	American diabetes association
ADP	Adenosine diphosphate
AGEs	Advanced glycation end products
AIDS	Acquired immunodeficiency syndrome
AIF	Apoptosis inducing factor
AP	Amino Phenazone
Apaf-1	Apoptotic protease activity factor-1
Apo-1	Apoptosis 1
ATP	Adenosine triphosphate
BAX	BCL-2 associated X protein
Bcl-2	Product of B-cell lymphoma/leukemia-2 gene
Ca Ox	Calcium oxidase
CARD	Caspase recruitment domain
Caspase	Cysteine aspartic acid specific protease
CD	Cluster of differentiation
CHE	Cholesterol esterase
CHOD	Cholesterol oxidase
Co Q10	Coenzyme Q 10 = ubiquinone
DAP	Dihydroxyacetone phosphate
DED	Death effector domain
DHA	Dehydroascorbate
DISC	Death inducing signaling complex
DNA	Deoxyribonucleic acid
EDTA	Ethylene-diamine tetraacetic acid
ELISA	Enzyme linked immunosorbent assay
EMG	Electromyography
FADD	Fas-associated death domain (also called Mort-1)

Fas	Fibroblast associated cell surface
Fas L	Fas ligand
Fas R	Fas receptor
FBG	Fasting blood glucose
FLIP	FLICE inhibitor protein
G3P	Glycerol 3 phosphate
GOD	Glucose oxidase
GPO	Glycerol phosphate dehydrogenase
GSH	Reduced glutathione
GSSG	Oxidized glutathione
H_2O_2	Hydrogen peroxide
HbA1c	Glycohaemoglobin A1c
HbAo	Non glycosylated Hb
HDL-c	High density lipoprotein-cholesterol
HIV	Human immunodeficiency virus
HLA	Human leukocyte antigen
HNF	Hepatocyte nuclear factor
IAA	Insulin auto antibodies
IAPs	Inhibitor of apoptosis proteins
ICA	Islet cell antibodies
ICE	Interlukin 1-β converting enzyme
IDLs	Intermediate density lipoproteins
IL	Interleukin
IPE	Insulin promoter factor
Kd	Kilo Dalton
LAK	Lymphokine activated killer cell
LDL-c	Low density lipoprotein cholesterol
LOO	Lipid peroxyl radical

LPL	Lipoprotein lipase
MAP Kinase	Mitogen activated protein kinase
MDA	Malondialdehyde
MGO	Dicarbonyl-methyl-glyoxal
MGO-BSA	MGO modified bovine serum albumin
MODY	Maturity onset diabetes of the young
mRNA	Messenger ribonucleic acid
NAC	N-acetyl-L-cysteine
NADP	Nicotinamide adenine dinucleotide phosphate
NADPH	The reduced form of NADP
NGF	Nerve growth factor
NO	Nitric oxide
NOD	Non obese diabetic
OGTT	Oral glucose tolerance test
OH	Hydroxyl
P53	Tumor suppressor protein 53
PKC	Protein kinase C
POD	Peroxidase
QST	Quantitative sensory testing
r	Correlation coefficient
RAGE	Receptor for AGEs
RO	Alkoxyl radical
ROI	Reactive oxygen intermediate
ROO	Peroxyl radical
ROS	Reactive oxygen species
SAPK	Stress activated protein kinase
SD	Standard deviation
Se	Selenium

sFas	Soluble Fas antigen
sFas-L	Soluble Fas ligand
SOD	Superoxide dismutase
TBA	Thiobarbituric acid
TC	Total cholesterol
TCA	Tricholroacetic acid
TG	Triglycerides
THM	Tam Horsfall mucoprotein
TMB	Tetramethyl benzedine
TNF	Tumor necrosis factor
TNF R	TNF-receptor
TNF α	Tumor necrosis factor-alpha
TRADD	TNF receptor associated death domain
TRAIL	TNF related apoptosis inducing ligand
VC	Vitamin C
VE	Vitamin E
VLDL	Very low density lipoprotein