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Table of Abbreviations

Symbol	Definition
a-a	Amino acid
ACT	Actin
AD	Alzheimer's disease
ADPR	ADP-ribose
AMBRA	Autophagy and Beclin 1 Regulator
AMPK	AMP-activated protein kinase
ANOVA	Analysis of variance
APP	Amyloid precursor protein
ARE	Antioxidant response element
ARM	Armadillo
As	Arsenite
Atg	Autophagy
ATP	*Adenosine triphosphate*
BAD	BCL2 Associated Agonist of Cell Death
BAK	Bcl-2 homologous antagonist/killer
Bax	BCL2 Associated X
BBB	Blood brain barrier
BECN	Beclin
BN-PAGE	Blue native polyacrylamide gel electrophoresis
BSA	Bovine serum albumin
C.elegans	*Caenorhabditis elegans*
cADPR	Cyclic ADP-ribose
CaM kinase	Ca^{2+}/calmodulin-dependent protein kinase
CaMKI	Calcium/Calmodulin Dependent Protein Kinase I
CAMP	Compound muscle action potentials
cAMP	3',5'-cyclic adenosine monophosphate

Symbol	Definition
CCCP	Carbonyl cyanide m-chlorophenyl hydrazone
CCL5	C-C Motif Chemokine Ligand 5
cDNA	Complementary DNA
CFSSP	Chou & Fasman Secondary Structure Prediction Server
CNS	Central nervous system
COX5	Cytochrome c oxidase subunit V
cryo-EM	Cryo-electron microscopy
CT	Threshold cycle
CYC	Cytochrome C
DA	Dopamine
DAMPS	Damage associated molecular patterns
DAPI	4′,6-diamidino-2-phenylindole
DCFDA	2′,7′ –dichlorofluorescin diacetate
DMEM	Dulbecco's Modified Eagle Medium
DMSO	Dimethyl sulfoxide
DNA	Deoxyribonucleic acid
DRAM	DNA Damage Regulated Autophagy Modulator
DRG	Dorsal root ganglia
E.coli	*Escherichia coli*
EAAT-1	Excitatory amino acid transporter 1
ECL	Enhanced chemiluminescence
ECT4	Ectoderm-expressed 4
EDTA	Ethylenediaminetetraacetic acid
EGTA	Ethylene glycol tetraacid acid
ELAV	Embryonic lethal abnormal visual system
ETC	Electron transport chain
FBS	Foetal bovine serum
FCCP	Carbonyl cyanide p-(trifluoromethoxy)

Symbol	Definition
	phenylhydrazone
Fer-1	ferrostatin-1
FITC	Fluorescein isothiocyanate
FMN	Flavin mono nucleotide
GABARAP	GABA Type A Receptor-Associated Protein
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
GFP	Green *fluorescent protein*
GPX	*Glutathione peroxidase*
HD	Huntington's disease
HRP	Horse Radish Peroxidase
Hsp	Heat shock protein
IgG	Immunoglobulin G
IL	Interleukin
IMM	Inner mitochondrial membrane
IRF	Interferon regulatory factors
IRGM	Immunity Related GTPase M
JAK-STAT	Janus kinase/signal transducers and activators of transcription
JNK	c-Jun N-terminal kinase
KO	Knock out
LA	Luria agar
LACV	La Crosse virus
LB	Luria broth
LC3B	Microtubule-associated proteins 1A/1B light chain 3B
L-DOPA	l-3,4-dihydroxyphenylalanine
mA	Milliampere
MAL	MyD88 adaptor-like
MAP1LC3	Microtubule Associated Protein 1 Light

Symbol	Definition
	Chain 3
MAP2	Microtubule-associated protein 2
MAPK	Mitogen-activated protein kinase
MAVS	Mitochondrial antiviral signaling protein
Mir	microRNA
MLS	Mitochondrial localization signal
M-PER	Mammalian protein extraction reagent
MPTP	1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine
mRNA	Messenger RNA
mROS	Mitochondrial reactive oxygen species
MS	Multiple sclerosis
MTT	3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide
MyD88	Myeloid differentiation primary response 88
NAADP	Nicotinic acid adenine dinucleotide phosphate
NAC	N-acetyl cysteine
nAChRbeta	Nicotinic acetylcholine receptor beta 2
NAD	Nicotinamide adenine dinucleotide
NCBI	National Center for Biotechnology Information
NDS	Normal donkey serum
Ndufs	NADH-ubiquinone oxidoreductase
NES	Nuclear export signal
NF-κB	Nuclear factor-κB
NGF	Nerve growth factor
NLS	Nuclear localization signal
NMN	Nicotinamide mononucleotide
NMNAT	Nicotinamide-nucleotide

Symbol	Definition
	adenylyltransferase
NR	Nicotinamide riboside
NRF	Nuclear respiratory factor
NRK	Nicotinamide riboside kinases
Nrx-1	Neurexin 1
OD	Optical density
ORF	Open reading frame
OS	Oxidative stress
PAGE	Polyacrylamide gel electrophoresis
PAMP	Pathogen associated molecular patterns
PARP	Poly (ADP-Ribose) Polymerase
PBS	Phosphate-buffered saline
PBST	Phosphate-buffered saline with Tween 20
PCR	Polymerase chain reaction
PD	Parkinson's disease
PFA	Para formaldehyde
PINK1	PTEN-induced putative kinase 1
PRR	Pattern recognition receptors
PTGS	*Prostaglandin-Endoperoxide Synthase*
qPCR	Quantitative polymerase chain reaction
RMSD	Root mean square deviation
RNA	Ribonucleic acid
RNAi	RNA interference
ROS	Reactive oxygen species
rpm	Rotation per minute
RT	Room temperature
RT-PCR	Reverse transcription polymerase chain reaction
SAM	Sterile alpha motif
SARM1	Sterile Alpha And TIR Motif Containing 1

Symbol	Definition
SCG	Superior cervical ganglia
SCs	Supercomplexes
SDS	Sodium dodecyl sulphate
SEM	Standard error of mean
siRNA	Small interfering Ribonucleic Acid
SIRT	Sirtuin
TAE	Tris acetate EDTA
TBS	*Tris-buffered saline*
TBST	Tris-buffered saline with Tween 20
Tcp	TIR domain containing protein
TEMED	N, N, N', N'-tetramethyl ethylene
TEP	Telomerase Associated Protein
TH	Tyrosine hydroxylase
TIR	Toll/interleukin-1 receptor
Tir-1	Transport inhibitor response 1
TLR	Toll like receptor
TNF α	*Tumor necrosis factor*
TOT	Turandot
TRAF	TNF receptor associated factor
TRAM	Translocating Chain-Associated Membrane
TRIF	TIR-domain-containing adapter-inducing interferon-β
ube4B	Ubiquitin conjugation factor E4B
UTR	Untranslated region
UV	Ultraviolet
WD	Wallerian degeneration
Wld^s	Slow Wallerian degeneration protein
WT	Wild type

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