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LIST OF ABBREVIATIONS

6-OHDA	6-hydroxydopamine
μl	Microliter
Ach	Acetylcholine
AChE	Acetylcholinesterase
ACSF	Artificial cerebrospinal fluid
AD	Alzheimer's disease
AF64A	Ethylcholine mustard aziridinium
ANOVA	Analysis of variance
APP	Amyloid precursor protein
ATP	Adenosine Triphosphate
Aβ	Amyloid β peptide
BDNF	Brain-derived neurotrophic factor
BW	Body weight
°C	Celsius degree
Ca ²⁺	Calcium ion
CA1	Cornuammonis area 1
CA2	Cornuammonis area 2
CA3	Cornuammonis area 3
ChAT	Choline acetyltransferase
Cl	Chloride ion
cm	Centimeter
CNS	Central nervous system
CO ₂	Carbon dioxide
DA	Dopamine
DAB	3, 3' diaminobenzidine
DG	Dentate gyrus

LIST OF ABBREVIATIONS (Cont.)

DNA	Deoxy ribonucleic acid
DPPH	2,2-diphenyl-1-picrylhydrazyl
DW	Distilled water
ECL	Enhanced chemiluminescence
ERK	Extracellular signal-regulated kinase
e.g.	For example
etc	Et cetera
GABA	Gamma-aminobutyric acid
g/kg BW	Gram per kilogram body weight
GLU	Glutamate
G	Gram
GSH-Px	Glutathione peroxidase
h	hour
H ⁺	Hydrogen ion
HMs	Herbal medicines
H ₂ O	Water
H ₂ O ₂	Hydrogen peroxide
HRP	horse radish peroxidase
HT	Heart Meridian
i.c.v.	Intracerebroventricular
i.p.	Intraperitoneal
K ⁺	Potassium
kg	Kilogram
KPBS	Krebs phosphate buffer saline
LD ₅₀	Lethargy dose
L-DOPA	Levodopa
M	Mole
ml	Milliliter
min.	Minutes

LIST OF ABBREVIATIONS (Cont.)

mg	Milligram
mg/kg BW	Milligram per kilogram body weight
mW	milliwatts
MAO	Monoamine oxidase enzyme
MAOA	Monoamine oxidase enzyme type A
MAOB	Monoamine oxidase enzyme type B
MDA	Malondialdehyde
MPP ⁺	1-methyl-4-phenyl-2,3-dihydropyridium ion
MPTP	1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine
MWM	Morris water maze
NAD	Nicotinamide adenine dinucleotide
NADH	Nicotinamide adenine dinucleotide (oxidized form)
NADP ⁺	Nicotinamide adenine dinucleotide phosphate (oxidized form)
NADPH	Nicotinamide adenine dinucleotide phosphate (reduced form)
NGF	Nerve growth factor
nm	Nanometer
nmoles	Nanamoles
NT	Neurotrophin
Na ⁺	Sodium ion
NE	Norepinephrine
NFT	Neurofibrillary tangles
NMDA	N-methyl-D-aspartate
Nss	Normal saline solution
O ₂	Oxygen
O ₂ ^{·-}	Superoxide radical
OH ⁻	Hydrogen ion
OH [·]	Hydroxy radical
PD	Parkinson's disease
PD-D	Parkinson's disease with dementia

LIST OF ABBREVIATIONS (Cont.)

PKC	Protein kinase C
PVDF	Polyvinylidenedifluoride
QE	Quercetin equivalents
ROS	Reactive oxygen species
SDAT	Senile dementia of the Alzheimer type
SDS	Sodium dodecyl sulfate
SDS-PAGE	Sodium dodecyl sulphate-polyacrylamide gel electrophoresis
SEM	Standard error of mean
SNpc	Substantia nigra pars compacta
SOD	Superoxide dismutase
TBA	Thiobarbituric acid
TCM	Traditional Chinese medicine
TH	Tyrosine hydroxylase
TPTZ	Tripyridyltriazine
UPS	Ubiquitin proteosomal system
Vit C	Vitamin C