

## **ABBREVIATIONS**

5-HT	5-Hydroxy Tryptamine
ACh	Acetylcholine
AChE	Acetylcholinesterase
AChEI	Acetylcholinesterase inhibitor
AD	Alzheimer's disease
ALS	Amyotrophic Lateral Sclerosis
ALT	Alanine aminotransferase
AMPA	$\alpha$ -amino-3-hydroxy-5-methylisoxazole-4-propionic acid
ApoE	Apolipoprotein E
APP	Amyloid precursor protein
ATCI	Acetylthiocholine iodide
AVP	Arginine Vasopressin
A $\beta$	$\beta$ amyloid
BACE1	Beta-site APP-cleaving enzyme 1
BBB	Blood brain barrier
BHA	2- <i>t</i> -Butyl-4-methoxyphenol
BTCI	Butyrylthiocholine iodide
BuChE	Butyrylcholinesterase
CAS	Catalytic Anionic Site
ChEI	Cholinesterase inhibitor
CMA	Chaperone-Mediated Autophagy
CMV	Cytomegalovirus
CNS	Central Nervous System
CR	Congo red
DCFH-DA	2',7'-dichlorofluorescein diacetate
DHED	Dehydroevodiamine
DIC	<i>N,N</i> -Diisopropylcarbodiimide
DIPEA	<i>N,N</i> -diisopropylethylamine
DMA	<i>N,N</i> -dimethyl acetamide
DMAP	<i>N,N</i> -dimethylaminopyridine
DMEM	Dulbecco's Modified Eagle Medium
DMF	<i>N,N</i> -dimethylformamide
DMSO	Dimethyl Sulfoxide
DPPH	2,2-Diphenyl-1-picrylhydrazyl
DTNB	5,5'-dithiobis(2-nitro)benzoic acid
ECG	Electrocardiogram
ELT	Escape Latency Time
ER	Endoplasmic Reticulum
FBS	Fetal Bovine Serum
FDA	Food and Drug Administration
GPCR	G-Protein-coupled receptor
GSI	$\gamma$ -Secretase Inhibitors
GSK3 $\beta$	Glycogen Synthase Kinase 3 beta
GSM	$\gamma$ -Secretase Modulators
HOAt	1-Hydroxy-7-azabenzotriazole
iGlu	Ionotropic glutamate receptors
IMS	Intermembrane Space
LTP	Long-term Potentiation

MAO	Monoamine oxidase
MES	Maximal electroshock induced seizures
mGlu	Metabotropic glutamate receptors
mtDNA	mitochondrial DNA
MTT	3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
MWM	Morris water maze
nAChRs	Nicotinic acetylcholine receptors
NFTs	Neurofibrillary Tangles
NGF	Nerve growth factor
NMDA	<i>N</i> -Methyl- <i>D</i> -aspartate
NMDAR	NMDA receptor
NO	Nitric Oxide
NOS	Nitric Oxide Synthase
PAF	Platelet-activating factor
PARP	Poly-(ADP-ribose)polymerase
PAS	Peripheral anionic site
PBS	Phosphate Buffer Saline
PCD	Programmed Cell Death
PCP	Phencyclidine
PD	Parkinson's disease
PI	Propidium iodide
PP2A	protein phosphate 2
PTZ	Pentylentetrazole Induced Seizures
ROS	Reactive Oxygen Species
SCA1	Spinocerebellar Ataxia type 1
scPTZ	Subcutaneous Pentylentetrazole
SDS	Sodium Dodecyl Sulfate
SOD	Superoxide Dismutase
ThT	Thioflavin T
TLC	Thin layer chromatography
TMS	Tetramethylsilane
TMV	Tobacco mosaic virus