ABBREVIATIONS

Ach - Acetylcholine
AchE - Acetylcholine esterase
AD - Alzheimer’s Disease
ADP - Adenosine Diphosphate
ALS - Amyotrophic Lateral Sclerosis
Apaf-1 - Apoptosis Protease-Activating Factor
ATP - Adenosine Triphosphate
ATPases - Adenosine triphosphatases
Bcl-2 - B cell lymphoma-2
BDNF - Brain Derived Neurotrophic Factor
BER - Base Excision Repair
[Ca^{2+}]i - Intra Cellular Calcium
CAD - Caspase-Activated DNAses
cAMP - Cyclic adenosine monophosphate
CAT - Catalase
CNS - Central Nervous System
CREB - cAMP response element binding protein
CSF - Cerebro Spinal Fluid
DA - Dopamine
DCFH - Dichloro flavoscein (reduced)
DNA - Deoxy Ribonucleic Acid
DPPH - 1,1-Diphenyl-2-Picrylhydrazyl
EEG - Electroencephalography
ELISA - Enzyme Linked Immunosorbent Assay
Fe^{3+} - Iron
G6PDH - Glucose 6 Phosphate dehydrogenase
GABA - Gamma amino butyric acid
GAPDH - Glyceraldehydephosphate Dehydrogenase
GCS - Gamma Glutamyl Cysteinyl Synthetase
GSH - Glutathione
GSH-Px - Glutathione peroxidase
H₂O₂ - Hydrogen peroxide
HD - Huntington’s Disease
5-HIAA - 5-Hydroxy Indole Acetic Acid
4-HNE - 4-Hydroxy-2-Nonenal
HOCl - Hypochlorous acid
HRP - Horse raddish peroxidase
HSA - Human Serum Albumin
5-HT - 5-Hydroxy Tryptamine (Serotonin)
Hz - Hertz
ICAD - Inhibitor caspase-activated DNase
Ig - Immunoglobulin
kDa - Kilo Dalton
LPO - Lipid Peroxidation
MCI - Mild Cognitive Impairment
MDA - Malondialdehyde
mGluRs - Metabotropic Glutamate Receptors
mRNA - Messenger Ribonucleic Acid
MTP - Mitochondria Permeability Transition Pore
NADPH - Reduced nicotinamide adenine dinucleotide phosphate
NE - Norepinephrine
NGF - Nerve Growth Factor
NMDA - N-methyl D-aspartate
O₂⁻ - Superoxide
O₂ - Oxygen
8-OHdG - 8-hydroxy 2’-deoxyguanosine
OH⁻ - Hydroxyl radical
PAGE - Polyacrylamide Gel Electrophoresis
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>PCO</td>
<td>Protein Carbonyls</td>
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<tr>
<td>PD</td>
<td>Parkinson’s Disease</td>
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<tr>
<td>PVDF</td>
<td>Polyvinylidene fluoride</td>
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<tr>
<td>RNA</td>
<td>Ribonucleic Acid</td>
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<tr>
<td>ROS</td>
<td>Reactive Oxygen Species</td>
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<tr>
<td>RP-HPLC</td>
<td>Reverse phase high performance liquid chromatography</td>
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<tr>
<td>SOD</td>
<td>Superoxide dismutase</td>
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<tr>
<td>TBARS</td>
<td>Thiobarbituric acid reacting substances</td>
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<td>Trk</td>
<td>Tyrosine Kinase</td>
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