

## *Abbreviations*

AA	Arachanoic acid
ACA	Anterior cerebral artery
AP-1	Activator protein-1
Apaf-1	Apoptosis protease activating factor
ATP	Adenosine triphosphate
Bad	Bcl-xL/Bcl-2 associated death promoter.
Bak	Bcl-2 antagonist/killer.
Bax	Bcl-2 associated x protein
BBB	Blood Brain Barrier
Bcl-2	B-cell lymphoma 2.
Bcl-xL	form of Bcl-xL
BDNF	Brain Derived Neurotrophic Factors
BH	Bcl2 homology
Bid	BH-3 interacting domain
Ca <sup>2+</sup>	Calcium
CBF	Cerebral Blood Fow
CCA	Common Carotid Artery
CST	Cell Signalling Technology
CVA	Cerebrovascular Accident
CytC	Cytochrome C
DG	Dentate gyrus
DTNB	5, 5'-dithiobis-2-nitrobenzoic acid
ECA	External Carotid Artery
eEF2	Elongation factor2
ER	Endoplasmic Reticulum
<i>et al</i>	<i>Et alia</i> and others
FITC	Flouoroisothiocyanate
GSH	Glutathione
GSHPx	Gluthathione peroxidase

H <sup>+</sup>	Hydrogen
HSc	Heat shock cognate
HSPs	Heat Shock Proteins
i.p.	intra-peritoneal
i.v.	intra-venous
I/R	Ischemia/Reperfusion
ICA	Internal Carotid Artery
IEGs	Immediate Early Genes
IP3	1, 4, 5 Inositol triphosphate
K <sup>+</sup>	Potassium
MABP	Mean Arterial Blood Pressure
MCA	Middle Cerebral Artery
MCAO	Middle Cerebral Artery occlusion
MDA	Malonaldehyde
mg/Kg/wt	milligram/kilogram/weight
ml/g/min	millilitre/gram/minute
MPT	Mitochondrial transition pore
Na <sup>+</sup>	Sodium
NADPH	Nicotinamide Adenine Dinucleotide Phosphate
NLAC	National Laboratory Animal Centre
NMDA	N-methyl-D-aspartate
NOS	Nitric Oxide Synthase
eNOS	endothelial nitric oxide synthase
NOX	NADPH oxidase
PBS	Phosphate buffered saline
PBST	Phosphate buffered saline Tween-20
PCA	Posterior cerebral artery
PCD	Programmed cell death
PCr	Phosphocreatine
PHOX	Phagocyte oxidase

PSD95	Post synaptic density
ROS	Reactive oxygen species
RT	Room temperature
SD	Sprague-Dawley
TBA	Thio-barbituric acid
TBARS	Thiobarbituric acid reactive substances
TBI	Traumatic brain injury
tBid	Truncated BH-3 interacting domain
TCA	Trichloroacetic acid
TdT	Terminal deoxy transferase
TDW	Triple distilled water
TIA	Transient ischemic attack
TTC	2, 3, 5-triphenyl tetrazolium chloride
TUNEL	terminal deoxynucleotidyl transferase, TdT-mediated deoxyuridine- triphosphate (dUTP) nick end labelling
VEGF	Vascular endothelial growth factor
μg	microgram
μl	micro litre
μM	micro molar