

Therapeutic potential of rosmarinic acid against myocardial infarction comorbid depression in rats



**Thesis submitted in partial fulfilment for the
Award of the Degree**

DOCTOR OF PHILOSOPHY

By

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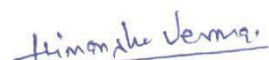
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List of Abbreviations

Abbreviations	Full Forms
CUS	Chronic Unpredictable Stress
MS	Maternal Separation
RA	Rosmarinic Acid
HPA axis	Hypothalamic Pituitary Adrenal Axis
5-HT	5-Hydroxytryptamine
BDNF	Brain Derived Neurotrophic Factor
MMP2	Matrix Metalloproteinase
IL6	Interleukin 6
IL10	Interleukin 10
TNF- α	Tumor Necrosis Factor- α
TrkB	Tropomyosin Receptor Kinase Beta
P2Y12	Platelet P2Y12 receptor
ADP	Adenosine Diphosphate
TXA2	Thromboxane A2
GSH	Glutathione
SOD	Superoxide dismutase
LPO	Lipid Peroxidation
MDA	Malondialdehyde
HWI	Heart Weight Index
BW	Body Weight
FDA	Food and Drug Administration
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
H&E	Hematoxylin & Eosin
IC ₅₀	Inhibitory Concentration
MW	Molecular Weight
PDB	Protein Data Bank
RCSB	Research Collaboratory for Structural Bioinformatics
RTPCR	Reverse Transcriptase Polymerase Chain Reaction
cTn-I	Cardiac troponin-I
CK-MB	Creatin Kinase-MB
LDH	Lactate dehydrogenase
AST	Aspartate Aminotransferase
ALT	Alanine Aminotransferase

List of Symbols

Symbols	Meaning
α	Alpha
β	Beta
$^{\circ}\text{C}$	Degree Celsius
mg	Mili gram
μg	Micro gram
μM	Micro Mole
mmol	Mili Mole
mL	Mili Liter
μL	Micro Liter
h	Hour
rpm	Revolution Per Minute
%	Percentage
\geq	More than or equal
$<$	Less than
$>$	More than
\pm	Plus, or minus