



بسم الله الرحمن الرحيم

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تم رفع هذه الرسالة بواسطة / سلوي محمود عقل

بقسم التوثيق الإلكتروني بمركز الشبكات وتكنولوجيا المعلومات دون أدنى

مسئولية عن محتوى هذه الرسالة.

ملاحظات: لا يوجد



Faculty of Women for Arts  
Science & Education  
Zoology Department



## **Protective and Therapeutic Role of Nanocurcumin Versus Monosodium Glutamate Toxicity in Adult Male Albino Rat.**

A Thesis submitted  
In partial fulfillment for the requirement of the degree  
of M.Sc in Science  
Zoology Department

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَقُلْ اَعْلَمُو

فِي سِيْرِي الَّذِي عَلَيْكُمْ بِرُؤْسُوْلِهِ وَالْمُؤْمِنُوْنَ

صَلَاةُ اللَّهِ الْعَظِيْمَةِ

مَسُوْرَةُ التَّوْبَةِ آيَةُ (١٠٥)

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**LIST OF ABBREVIATIONS**

<b>Code</b>	<b>Name</b>
<b>AAP</b>	Aminoantipyrine
<b>ADP</b>	Adenosine diphosphate
<b>ALT</b>	Alanine aminotransferase
<b>AMI</b>	Acute myocardial infarction
<b>AST</b>	Aspartate aminotransferase
<b>ATP</b>	Adenosine triphosphate
<b>b.wt</b>	Body weight
<b>CAT</b>	Catalase
<b>CHD</b>	Coronary heart diseases
<b>CHE</b>	Cholesterol esterase
<b>CHOD</b>	Cholesterol oxidase
<b>CK</b>	Creatine kinase activity
<b>Cur</b>	Curcumin
<b>CVD</b>	Cardiovascular disease
<b>Dist. water</b>	Distilled water
<b>dl</b>	Deciliter
<b>DNA</b>	Deoxyribonucleic acid
<b>ELISA</b>	Enzyme-linked immunosorbent assay
<b>ET-1</b>	Endothelin-1
<b>EAAC-1</b>	Excitatory amino acid carrier-1
<b>FDA</b>	Food and Drug Administration
<b>GGT</b>	Gamma-Glutamyltransferase
<b>G-3-P</b>	Glycerol-3-phosphate
<b>G6PDH</b>	Glucose-6-phosphate dehydrogenase
<b>GK</b>	Glucokinase
<b>Gm</b>	Gram
<b>GPx</b>	Glutathione peroxidase
<b>GSH</b>	Reduced glutathione
<b>GST</b>	Glutathione S-transferase
<b>GSSG</b>	Glutathione disulfide
<b>GLAST-1</b>	Glutamate aspartate transporter-1
<b>H<sub>2</sub>O<sub>2</sub></b>	Hydrogen peroxide

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<b>Code</b>	<b>Name</b>
<b>Hcl</b>	Hydrochloric acid
<b>HDL</b>	High Density Lipoprotein
<b>HDL-ch</b>	HDL cholesterol
<b>H-FABP</b>	Heart Type Fatty Acid Binding Proteins
<b>HIV</b>	human immunodeficiency virus
<b>HK</b>	Hexokinase
<b>HRP</b>	Horseradish peroxidase
<b>IBL</b>	Immuno-Biological Laboratories
<b>IFCC</b>	International Federation of Clinical Chemistry
<b>Kg</b>	Kilogram
<b>L</b>	Litre
<b>LDH</b>	lactate dehydrogenase
<b>LDL</b>	Low Density Lipoprotein
<b>LMP</b>	Low melting point
<b>LPL</b>	Lipoprotein lipase
<b>MDA</b>	Malondialdehyde
<b>Mg1uRs</b>	Metabotropic glutamate receptors
<b>MDH</b>	Malate dehydrogenase
<b>Mg</b>	Milligram
<b>ml</b>	Milliliter
<b>mM</b>	Millimolar
<b>Mmol</b>	Millimoles
<b>MSG</b>	Monosodium Glutamate
<b>NaCl</b>	Sodium chloride
<b>NADH</b>	Nicotinamide Adenine Dinucleotid Dehydrogenase
<b>NaOH</b>	Sodium hydroxide
<b>nm</b>	Nanometer
<b>NMs</b>	Nanostructured materials
<b>NPs</b>	Nanoparticles
<b>Nan-Cur</b>	Nanocurcumin
<b>PH</b>	Hydrogen Ion Concentration
<b>POD</b>	Peroxidase
<b>ROS</b>	Reactive Oxygen Species

## List of Abbreviations

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<b>Code</b>	<b>Name</b>
<b>SA</b>	Sample
<b>SCGE</b>	Single gel electrophoresis
<b>SOD</b>	Superoxide dismutase
<b>ST</b>	Standard
<b>TG</b>	Triglycerides
<b>TAC</b>	Total Antioxidant Capacity
<b>TBA</b>	Thiobarbituric Acid
<b>T-ch</b>	Total cholesterol
<b>TMB</b>	Tetra Methyl Benzidine
<b>TTG</b>	Transglutaminase
<b>U/L</b>	Units per liter
<b>USFDA</b>	US Food and Drug Administration
<b>VLDL</b>	Very low density lipoprotein
<b>W/V</b>	Weight by volume
<b>ML</b>	Microliter

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