



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم



MONA MAGHRABY



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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس التوثيق الإلكتروني والميكروفيلم

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MONA MAGHRABY



Assessment of Apoptosis Related Markers in Acute Organophosphorus Intoxicated Patients

Thesis

*Submitted for Fulfillment of
Ph.D Degree in Biochemistry*

By

Shimaa Tallat El-sayed Ahmed
Master Biochemistry

Under Supervision of

Prof. Dr. Magdy Mahmoud

*Professor of Biochemistry
Faculty of Science - Ain Shams University*

Dr. Rania Hassan Mohamed

*Lecturer of Biochemistry
Faculty of Science, Ain Shams University*

Dr. Rania Hussien Mohammed Hussein

*Lecturer of Clinical Toxicology in Forensic Medicine and Clinical
Toxicology Department
Faculty of Medicine - Ain Shams University*

Prof. Dr. Mahmoud Badr Abd El Wahab

*Associate Professor of Biochemistry, Poison Control Center
Ain Shams University Hospitals*

Faculty of Science - Ain Shams University

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قَالَ

لَسْبِحَانَكَ لَا مَعْلَمَ لَنَا
إِلَّا مَا مَعْلَمْتَنَا إِنَّكَ أَنْتَ
الْعَلِيمُ الْعَظِيمُ

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List of Abbreviations

Abb.	Full term
<i>ABG</i>	<i>Arterial Blood Gas Analysis</i>
<i>Ach</i>	<i>Acetylcholine</i>
<i>AChE</i>	<i>Acetylcholinesterase</i>
<i>ACTH</i>	<i>Adrenocorticotropic hormone</i>
<i>ALB</i>	<i>Albumin</i>
<i>ALT</i>	<i>Alanine aminotransferase</i>
<i>AOAC</i>	<i>Official Methods of Analysis</i>
<i>APAF-1</i>	<i>Apoptotic protease activating factor 1</i>
<i>AST</i>	<i>Aspartate aminotransferase</i>
<i>ATP</i>	<i>Adenosine triphosphate</i>
<i>AUC</i>	<i>Area under curve</i>
<i>BID</i>	<i>Bcl-2 interacting domain</i>
<i>BTC</i>	<i>Butyryl-thiocholine</i>
<i>CA</i>	<i>Chromosomal aberrations</i>
<i>CAD</i>	<i>Cytoplasmic DNase</i>
<i>CAT</i>	<i>Catecholamine</i>
<i>ChEI</i>	<i>Cholinesterase inhibitor</i>
<i>CNS</i>	<i>Central nervous system</i>
<i>CP</i>	<i>Chlorpyrifos</i>
<i>CPK</i>	<i>Creatine phosphokinase</i>
<i>CRP</i>	<i>C-reactive protein</i>
<i>CTLs</i>	<i>Cytotoxic T lymphocytes</i>
<i>CYP450</i>	<i>Cytochrome P450</i>
<i>CWAs</i>	<i>Chemical warfare agents</i>
<i>DFP</i>	<i>Diisopropylphosphorofluoridate</i>
<i>DISC</i>	<i>Death-inducing signalling complex</i>
<i>DNA</i>	<i>Deoxyribonucleic acid</i>
<i>DTNB</i>	<i>5,5-Dithiobis-2-nitrobenzoic acid</i>
<i>DZ</i>	<i>Diazinon</i>

List of Abbreviations cont...

Abb.	Full term
<i>EAPCCT</i>	<i>European association of poisons centers and clinical toxicologists</i>
<i>EC</i>	<i>European community</i>
<i>ELISA</i>	<i>Enzyme-Linked Immunosorbent Assay</i>
<i>FADD</i>	<i>Fas-associated death domain</i>
<i>FasR</i>	<i>Fas receptor</i>
<i>FPD</i>	<i>Flame photometric detector</i>
<i>GC</i>	<i>Chromatography</i>
<i>GOD</i>	<i>Glucose oxidase</i>
<i>GOD</i>	<i>Glucose oxidase</i>
<i>GOT</i>	<i>Glutamic oxaloacetic transaminase</i>
<i>GPT</i>	<i>Glutamic pyruvic transaminase</i>
<i>GSH</i>	<i>Glutathione</i>
<i>ICU</i>	<i>Intensive care unit</i>
<i>H₂O₂</i>	<i>Hydrogen peroxide</i>
<i>HS</i>	<i>Highly significant</i>
<i>IAPs</i>	<i>Inhibitors of apoptosis proteins</i>
<i>IMS</i>	<i>Intermediate syndrome</i>
<i>IPCS</i>	<i>International program on chemical safety</i>
<i>K</i>	<i>Potassium</i>
<i>kDa</i>	<i>Kilodalton</i>
<i>LDH</i>	<i>Lactate dehydrogenase</i>
<i>LPO</i>	<i>Lipid peroxidation</i>
<i>MDA</i>	<i>Malonylaldehyde</i>
<i>MDH</i>	<i>Malate by malate dehydrogenase</i>
<i>MMP</i>	<i>Mitochondrial membrane potential</i>
<i>MN</i>	<i>Micronuclei</i>
<i>Na</i>	<i>Sodium</i>
<i>NAD</i>	<i>Nicotinamide adenine dinucleotide</i>

List of Abbreviations cont...

Abb.	Full term
<i>NAs</i>	<i>Nerve agents</i>
<i>NGOs</i>	<i>Non-governmental organizations</i>
<i>NK</i>	<i>Natural killer</i>
<i>NPV</i>	<i>Negative predictive value</i>
<i>NS</i>	<i>Non significant,</i>
<i>OD</i>	<i>Optical density</i>
<i>OMPA</i>	<i>Octomethylpyrophosphotetramide</i>
<i>OP</i>	<i>Organophosphorus</i>
<i>OPCs</i>	<i>Organophosphorus compound</i>
<i>OPIDN</i>	<i>Organophosphate- induced delayed neurotoxicity</i>
<i>OPP</i>	<i>Organophosphorus poisoning</i>
<i>OPWs</i>	<i>Organophosphorus chemical weapons</i>
<i>PBS</i>	<i>Phosphate buffer saline</i>
<i>PCC</i>	<i>Poison Control Centre</i>
<i>PCC-ASUH</i>	<i>Poison Control Center-Ain Shams University Hospitals</i>
<i>p.ChE</i>	<i>Pseudo-cholinestrase</i>
<i>PHA</i>	<i>phytohemaglutinine</i>
<i>PNS</i>	<i>Peripheral nervous system</i>
<i>POD</i>	<i>Peroxidase</i>
<i>PPV</i>	<i>Positive predictive value</i>
<i>PS</i>	<i>Phosphatidylserine</i>
<i>PSS</i>	<i>Poison severity score</i>
<i>ROC</i>	<i>Receiver operating characteristic</i>
<i>ROS</i>	<i>Reactive oxygen species</i>
<i>SCE</i>	<i>Sister chromatid exchanges</i>
<i>SCGE</i>	<i>Single cell gel electrophoresis</i>
<i>SD</i>	<i>Standard deviation,</i>