

Modulation of Immune Disorders Induced-Arthritis in γ - Irradiated Rats

A Thesis

Submitted for the award of the degree of Ph.D (Biochemistry)

Presented by

Noura Magdy Salem Thabet

M.Sc. in Biochemistry, 2008 National Center for Radiation Research and Technology, Atomic Energy Authority

> Faculty of Science Ain Shams University 2013



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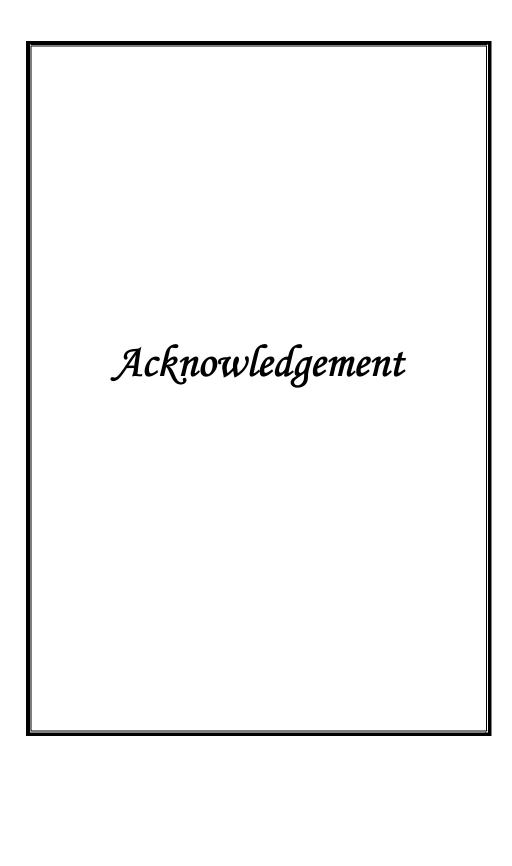
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List of Abbreviations

CAMs Cell Adhesion Molecules

CAT Catalase

CFA Complete Freund's Adjuvant

CRP C-Reactive Protein

D.F Dilution Factor

ELISA Enzyme-Linked Immunosorbent Assay

GSH Reduced Glutathione

GSH-Px Glutathione Peroxidase

H₂O₂ Hydrogen Peroxide

HMG-CoA 3-Hydroxy-3-Methylglutaryl-Coenzyme A

HOCl Hypochlorous Acid

ICAM-1 Intercellular Adhesion Molecule 1

IL Interleukin

LFA-1 Lymphocyte-Function-Associated Antigen-1

Lov-Se Nano Selenium-Lovastatin

LPO Lipid Peroxidation

LSD Least Significant Difference

NO Nitric Oxide

O₂ Superoxide Anion
OH Hydroxyl Radical

RA Rheumatoid Arthritis

RF Rheumatoid Factor

RNS Reactive Nitrogen Species
ROS Reactive Oxygen Species

Se Selenium

SOD Superoxide Dismutase

TBARS Thiobarbituric Acid Reactive Substances

TCA Trichloroacetic Acid

TNF-α Tumor Necrosis Factor- alpha

XDH Xanthine Dehydrogenase

XO Xanthine Oxidase

XOR Xanthine Oxidoreductase

γ-irradiation Gamma Irradiation

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