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
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Contents

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
H_2O_2	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
$O_2^{\bullet -}$	Superoxide Anion
$OH^{\bullet}$	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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