



Ain Shams University
Faculty of Science
Department of Biochemistry

**Biochemical Study of Antitumor Activity of
Resveratrol in Combination with Selenium in
Ehrlich Ascites Carcinoma Bearing and/or
Irradiated Mice**

A Thesis

Submitted in partial fulfillment of the requirements of the degree of
Master of Science in Biochemistry

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Under Supervision of

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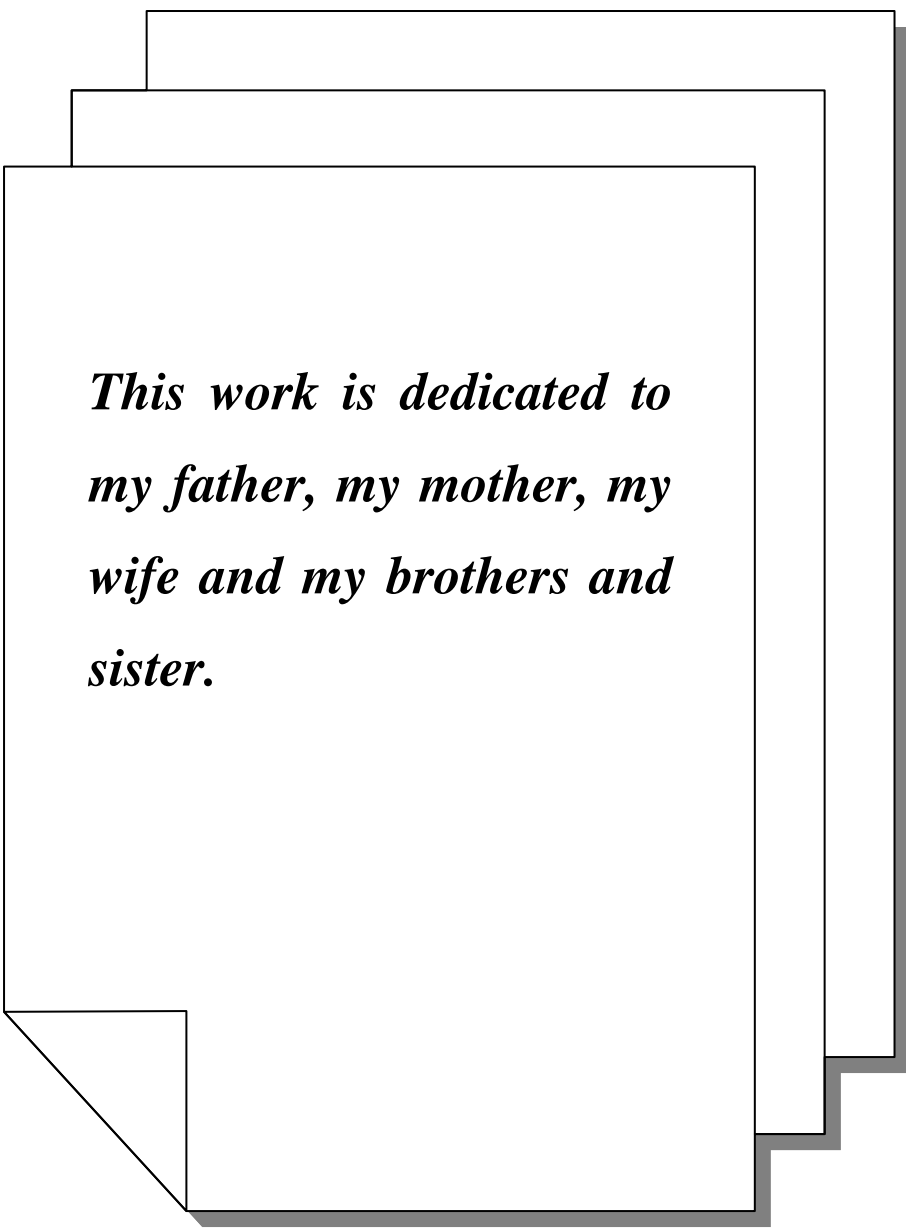
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(2016)



*This work is dedicated to
my father, my mother, my
wife and my brothers and
sister.*

Declaration

I declare that this thesis has been composed by myself and that the work of which it is a record has been done by myself. This thesis has not been submitted for a degree at this or any other university.

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LIST OF ABBREVIATIONS

BAX	Bcl-2-associated X protein
BCL-2	B-cell lymphoma 2
bFGF	Basic fibroblast growth factors
BSA	Bovine serum albumin
CAT	Catalase
CBD	Collagen binding domain
CD4+	Cluster of differentiation 4
CD59	Complement fragment
CD8+	Cluster of differentiation 8
CSFs	Colony-stimulating factors
DMSO	Dimethyl sulphoxide
DTNB	5, 5`-dithiobis(2-nitrobenzoic acid)
DTPA	Diethylene tri-aminopenta acetic acid
EAC	Ehrlich ascites carcinoma
EAT	Ehrlich Ascites Tumor
ECM	Extracellular matrix
EGF	Epidermal growth factor
ELISA	Enzyme - linked immunosorbent assay
G-CSF	Granulocyte colony-stimulating factor
GPI	glycosylphosphatidyl- inositol anchor
GSH	Glutathione, reduced form
GSH-Px	Glutathione peroxidase
GSSeSG	Selenodiglutathione
GSSG	Glutathione disulfide(oxidized form)
Gy	Gray