



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكرو فيلم

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

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
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تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



MONA MAGHRABY

**“EFFECT OF WINTER CHERRY
EXTRACT (WITHA FERIN-A) ON HEAD
AND NECK SQUAMOUS CELL
CARCINOMA CELL LINE”
IN VITRO STUDY**

Thesis Submitted to the Faculty of Dentistry
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List of Abbreviations

AIDS	Acquired Immunodeficiency Syndrome
AIF	Apoptosis Inducing Factor
ANOVA	Analysis of Variances
Apaf-1	Apoptosis protease activating factor- 1
ATCC	American Type Culture Collection
Bax	Bcl-2 associated X protein
Bcl-2	B-cell Lymphoma 2
CD31	Cluster of Differentiation 31
Cdc25	Cell division cycle 25
Cdk1	Cyclin-dependent kinases 1
CTLs	Cytolytic T cells
DIABLO	Direct IAP binding protein with low PI
DISC	Death-Inducing Signalling Complex
DMBA	7,12-Dimethylbenz[a]anthracene
DMEM	Dulbecco's Modified Eagle's Medium
DMSO	Di-Methyl Sulfoxide
DNA	Deoxyribonucleic Acid
DPBS	Dulbecco's Phosphate-Buffered Saline
DR5	Death Receptor 5
EBV	Ebstein- Barr Virus
EDTA	Ethylene Di-amine Tetra-Acetic Acid
EGF-R	Epidermal Growth Factor Receptor
ER	Endoplasmic Reticulum
F	Female
FADD	Fas-Associated Death Domain
FasL	Fas Ligand
FBS	Fetal Bovine Serum
H&E	Hematoxylin and Eosin Staining
HNSCC	Head and Neck Squamous Cell Carcinoma
HPV	Human Paoilloma Virus
Hsp 90	Heat shock protein 90
HtrA2	High temperature requirement protein A
i.p.	Intraperitoneal
IAPs	Inhibitor of Apoptosis Proteins

IARC	International Agency for Research on Cancer
IC50	The Half maximal Inhibitory Concentration.
KCl	Potassium Chloride
KH₂PO₄	Potassium Phosphate, monobasic
M	Male
Mcl-1	Myeloid cell leukemia- 1
MRI	Magnetic Resonance Imaging
MTT	4,5-dimethylthiazol-2,5-diphenyltetrazolium bromide
Na₂HPO₄	Sodium Phosphate, dibasic
NaCl	Sodium Chloride
NAF	Nuclear Area Factor
NCCD	Nomenclature Committee on Cell Death
NCI	National Cancer Institute
NF-κB	Nuclear Factor -kappaB
NK	Natural Killer
OD	Optical Density
OSCC	Oral Squamous Cell Carcinoma
p53	Tumor protein 53
par-4	Prostate- apoptosis response-4
PBS	Phosphate Buffered Saline
PS	Phosphatidylserine
ROS	Reactive Oxygen Species
SCC	Squamous Cell Carcinoma
SD	Standard Deviation
SDS	Sodium Dodecyl Sulfate
Smac	Second mitochondria-derived activator of caspase
SPSS	Statistical Package for the Social Sciences
STAT3	Signal Transducer And Activator of Transcription 3
TNF	Tumor Necrosis Factor
TNFR1	Tumor Necrosis Factor Receptor type 1
TNM	Tumor, Lymph Node and Metastasis
TRADD	TNF Receptor-Associated Death Domain
TRAF2	TNF Receptor Associated Factor 2
VACSERA	Vaccines & Sera
W.Somnifera	Withania Somnifera
W-A	Withaferin-A

WHO	World Health Organization
xg	Times gravity
$\Delta\psi_m$	Mitochondrial Membrane Potential
20 MC	20-Methyl-Cholathrene

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